

Appendix C

Air Quality, Greenhouse Gas Emissions, and Energy Technical Report

Air Quality, Greenhouse Gas Emissions, and
Energy Technical Report

SDSU Evolve Student Housing Project, San Diego, California

DECEMBER 2024

Prepared for:

SAN DIEGO STATE UNIVERSITY

5500 Campanile Drive

San Diego, California 92182

Contact: Kara Peterson, Director of Planning

Prepared by:

DUDEK

605 Third Street

Encinitas, California 92024

Contact: Adam Poll

Table of Contents

SECTION	PAGE NO.
Acronyms and Abbreviations.....	v
Executive Summary.....	vii
1 Introduction.....	1
1.1 Report Purpose and Scope.....	1
1.2 Regional and Local Setting.....	1
1.3 Project Description.....	1
2 Air Quality.....	3
2.1 Environmental Setting.....	3
2.1.1 Meteorological and Topographical Conditions.....	3
2.1.2 Pollutants and Effects.....	4
2.1.3 Sensitive Receptors.....	8
2.2 Regulatory Setting.....	9
2.2.1 Federal Regulations.....	9
2.2.2 State Regulations.....	9
2.2.3 Local Regulations.....	14
2.3 Regional and Local Air Quality Conditions.....	18
2.3.1 San Diego Air Basin Attainment Designation.....	18
2.3.2 Local Ambient Air Quality.....	19
2.4 Significance Criteria and Methodology.....	21
2.4.1 Thresholds of Significance.....	21
2.4.2 Approach and Methodology.....	22
2.5 Impact Analysis.....	34
3 Greenhouse Gas Emissions.....	43
3.1 Environmental Setting.....	43
3.1.1 Climate Change Overview.....	43
3.1.2 Greenhouse Gases.....	43
3.1.3 Global Warming Potential.....	45
3.2 Regulatory Setting.....	46
3.2.1 Federal Regulations.....	46
3.2.2 State Regulations.....	47
3.2.3 Local Regulations.....	56
3.3 Greenhouse Gas Inventories and Climate Change Conditions.....	57
3.3.1 Sources of Greenhouse Gas Emissions.....	57
3.3.2 Potential Effects of Climate Change.....	59

3.4	Significance Criteria and Methodology	62
3.4.1	Thresholds of Significance	62
3.4.2	Approach and Methodology	64
3.5	Impact Analysis.....	68
4	Energy	79
4.1	Existing Conditions	79
4.2	Regulatory Setting	80
4.2.1	Federal Regulations.....	80
4.2.2	State Regulations	81
4.3	Significance Criteria and Methodology	82
4.3.1	Thresholds of Significance	82
4.3.2	Approach and Methodology	83
4.4	Impact Analysis.....	84
5	References Cited.....	93
6	List of Preparers.....	101

TABLES

1	Ambient Air Quality Standards	10
2	San Diego Air Basin Attainment Classification.....	19
3	Local Ambient Air Quality Data	20
4	San Diego Air Pollution Control District Air Quality Significance Thresholds.....	21
5	Phase 1 Construction Scenario Assumptions	24
6	Phase 2 Construction Scenario Assumptions	25
7	Phase 3 Construction Scenario Assumptions	26
8	Phase 4 Construction Scenario Assumptions	27
9	Phase 5 Construction Scenario Assumptions	28
10	Phase 6 Construction Scenario Assumptions	29
11	AERMOD Principal Parameters	33
12	Estimated Maximum Daily Construction Criteria Air Pollutant Emissions	35
13	Estimated Maximum Daily Operational Criteria Air Pollutant Emissions.....	37
14	Health Risk Assessment Results	39
15	Six Top GHG Producer Countries and the European Union	58
16	GHG Emissions Sources in California	58
17	SDSU GHG Emissions Sources.....	59
18	Project Potential to Conflict with SANDAG 2021 Regional Plan	70
19	Project Potential to Conflict with Appendix D of the 2022 Scoping Plan	75
20	Estimated Construction Greenhouse Gas Emissions	77

21 Estimated Operational Greenhouse Gas Emissions 77

22 Construction Power Cost 85

23 Construction Electricity Usage..... 85

24 Total Project Construction Petroleum Demand..... 86

25 Project Annual Operational Electricity Demand Summary 87

26 Project Annual Operational Natural Gas Demand Summary..... 88

27 Annual Petroleum Demand 89

FIGURES

1 Regional Map 103

2 Vicinity Map 105

APPENDICES

A Health Risk Assessment

B CalEEMod Outputs

INTENTIONALLY LEFT BLANK

Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AB	Assembly Bill
ACC	Advanced Clean Cars
AERMOD	American Meteorological Society/EPA Regulatory Model
ATCM	Airborne Toxic Control Measure
CAA	federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CALGreen	California Green Building Standards Code
CalEEMod	California Emissions Estimator Model
CAP	Climate Action Plan
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFC	chlorofluorocarbon
CH4	methane
City	City of San Diego
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO2	carbon dioxide
CO2e	carbon dioxide equivalent
County	County of San Diego
CPUC	California Public Utilities Commission
CSU	California State University
DPM	diesel particulate matter
EISA	Energy Independence and Security Act
EO	Executive Order
EPA	U.S. Environmental Protection Agency
EV	electric vehicle
GHG	greenhouse gas
GWP	global warming potential
HCFC	hydrochlorofluorocarbon
HFC	hydrofluorocarbon
HRA	health risk assessment
I	Interstate
kW	kilowatts
kWh	kilowatt hour
LEED	Leadership in Energy and Environmental Design
MMT	million metric tons
MT	metric tons
N2O	nitrous oxide

Acronym/Abbreviation	Definition
NAAQS	National Ambient Air Quality Standards
NHTSA	National Highway Traffic Safety Administration
NO ₂	nitrogen dioxide
NO _x	oxides of nitrogen
O ₃	ozone
OEHHA	Office of Environmental Health Hazard Assessment
PFC	perfluorocarbon
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to 10 microns
PM _{2.5}	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
RAQS	Regional Air Quality Strategy
Regional Plan	San Diego Forward: The Regional Plan
RFS	renewable fuel standard
RTIP	Regional Transportation Improvement Program
RTP	Regional Transportation Plan
SAFE-1	Safer Affordable Fuel-Efficient Vehicles Rule Part One: One National Program
SANDAG	San Diego Association of Governments
SB	Senate Bill
SCS	Sustainable Communities Strategy
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SDG&E	San Diego Gas & Electric Company
SDSU	San Diego State University
SF ₆	sulfur hexafluoride
SIP	state implementation plan
SLCP	short-lived climate pollutant
SO ₂	sulfur dioxide
SO _x	sulfur oxides
TAC	toxic air contaminant
VMT	vehicle miles traveled
VOC	volatile organic compound
ZEV	zero-emissions vehicle

Executive Summary

The purpose of this technical report is to assess the potential air quality, greenhouse gas (GHG), and energy impacts associated with implementation of the proposed San Diego State University (SDSU) Evolve Student Housing Project (Project or Proposed Project). This assessment utilizes the California Environmental Quality Act Guidelines Appendix G checklist questions to frame the evaluation of the Project's potential impacts.

Project Overview

As described in further detail below (see Section 1.3, Project Description), the Proposed Project comprises two components (Peninsula Component and University Towers East Component), both of which are proposed for the development of university student housing and supporting amenities.

The proposed Peninsula Component student-housing complex would be located within the approximately 10.3-acre site located adjacent to the northwest portion of campus where 55th Street ends, just south of Interstate 8 and west of Canyon Crest Drive. The Peninsula Component site currently contains eight, two-story apartment-style student housing buildings; one three-story apartment-style student housing building; the SDSU International Center complex comprising four buildings; and associated amenities (e.g., parking spaces, sidewalks, landscaped areas). Development of the Peninsula Component would include demolition of all 13 existing on-site buildings, which would include removal of 702 beds and 315 parking spaces, and the phased development of one 9-story building and five buildings of up to 13 stories each that would contain a total of approximately 4,450 beds to house SDSU students. The 9-story building would contain approximately 650 beds, and the other five up to 13-story buildings would be four-bedroom and two-bedroom apartment-style buildings containing approximately 760 beds each. The proposed Peninsula Component would also include a new two-story Amenity Building for dining and other student uses, as well as outdoor gathering space and green space between each building. With the loss of 702 existing beds and the development of approximately 4,450 beds, this would result in a net increase of approximately 3,748 beds at the Peninsula Component site.

The proposed University Towers East Component student-housing complex would be developed on a 1.1-acre site located on Montezuma Road currently utilized as a parking lot at 5505 Montezuma Road. The existing parking lot (93 spaces) would be demolished to allow for redevelopment of the site to include a new nine-story student-housing building that would accommodate approximately 720 beds.

Between the 4,450 beds of the Peninsula Component and the 720 beds of the University Towers East Component, the Proposed Project would result in the development of approximately 5,170 student beds, a net increase of approximately 4,468 student beds to the main campus inventory.

Air Quality

The air quality impact analysis evaluated the potential for adverse impacts to air quality due to construction and operational emissions resulting from the Proposed Project. Impacts were evaluated for their significance based on the San Diego Air Pollution Control District's (SDAPCD's) mass daily criteria air pollutant thresholds of significance (SDAPCD 2016a). Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards (criteria) for outdoor concentrations to protect public health. Criteria air pollutants include ozone, nitrogen dioxide, carbon monoxide (CO), sulfur dioxide, particulate matter with an

aerodynamic diameter less than or equal to 10 microns (PM₁₀), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM_{2.5}), and lead. Pollutants that are evaluated include volatile organic compounds (VOCs) (also referred to as reactive organic gases), oxides of nitrogen (NO_x), CO, sulfur oxides (SO_x), PM₁₀, and PM_{2.5}. VOCs and NO_x are important because they are precursors to O₃.

Air Quality Plan Consistency

If a project proposes development that is greater than that anticipated in the local plan and the growth projections set by the San Diego Association of Governments (SANDAG), the project might be in conflict with the State Implementation Plan and Regional Air Quality Strategy, and therefore may contribute to a potentially significant cumulative impact on air quality. In this instance, the Proposed Project would be deemed consistent with the current air quality plan because the anticipated growth associated with the Project does not exceed that projected by SANDAG for the Project site. Based on these considerations, impacts related to the Proposed Project's potential to conflict with or obstruct implementation of the applicable air quality plan would be **less than significant**.

Construction Criteria Air Pollutant Emissions

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

Operational Criteria Air Pollutant Emissions

Operation of the Proposed Project would generate operational criteria air pollutants from mobile sources (vehicles), area sources (consumer product use, architectural coatings, and landscape maintenance equipment), and energy (natural gas). Maximum operational emissions would not exceed the SDAPCD operational significance thresholds for VOC, NO_x, CO, SO_x, PM₁₀, or PM_{2.5}. Therefore, impacts would be **less than significant**.

Cumulative Impacts

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

Exposure of Sensitive Receptors

Construction activities would not generate emissions in excess of the SDAPCD site-specific mass daily thresholds; therefore, site-specific construction impacts during construction of the Proposed Project would be less than significant. In addition, diesel equipment would also be subject to the California Air Resources Board Airborne Toxic Control Measures for in-use off-road diesel fleets, which would minimize diesel particulate matter emissions. The health risk assessment prepared for the Proposed Project (Appendix A) for construction and operation showed

cancer and non-cancer risks below levels of significance. Therefore, impacts to sensitive receptors during construction and operation would be **less than significant**.

The Proposed Project would not exceed the CO hotspots screening levels during operation. As such, potential Project-generated impacts associated with CO hotspots would be **less than significant**.

Other Emissions

Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application, which would disperse rapidly from the Project site and generally occur at magnitudes that would not affect substantial numbers of people. Impacts associated with odors during construction would be **less than significant**.

The Proposed Project would be a residential development that would not include land uses with sources that have the potential to generate substantial odors, and impacts associated with odors during operation would be **less than significant**.

Greenhouse Gas Emissions

Global climate change is primarily considered a cumulative impact but must also be evaluated on a project level under the California Environmental Quality Act. A project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHG emissions. GHGs are gases that absorb infrared radiation in the atmosphere. Principal GHGs regulated under state and federal law and regulations include carbon dioxide (CO₂), methane, and nitrous oxide. GHG emissions are measured in metric tons (MT) of CO₂ equivalent (CO₂e), which account for weighted global warming potential factors for methane and nitrous oxide.

Development of the Project site would be consistent with the California State University Sustainability Policy, as most recently revised in May 2022; the 2017 Climate Action Plan for SDSU; SANDAG's Regional Transportation Plan/Sustainable Communities Strategy; and the 2022 California Air Resources Board's Scoping Plan. The Proposed Project would not conflict with any plans adopted with the purpose of reducing GHG emissions; therefore, the Project's impacts with respect to GHG emissions would be **less than significant**.

Construction of the Proposed Project would result in GHG emissions primarily associated with use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. The estimated total GHG emissions during construction would be approximately 6,494 MT CO₂e. Estimated Project-generated construction emissions amortized over 30 years would be approximately 216 MT CO₂e per year.

Operation of the Proposed Project would generate GHG emissions through motor vehicle and delivery truck trips to and from the Project site, landscape maintenance equipment operation, energy use (generation of electricity consumed by the Project), solid waste disposal, and water and wastewater use. Estimated annual Project-generated operational emissions plus amortized Project construction emissions would be approximately 9,899 MT CO₂e per year. After accounting for the mobile source GHG emissions avoided by providing additional on-campus housing opportunities for students who otherwise would need to reside off campus, the Proposed Project would result in a net reduction of 1,499 MT CO₂e per year.

Energy

The Proposed Project would result in the use of electricity and petroleum during construction and electricity, natural gas, and petroleum during operation. However, the amount of energy used by the Proposed Project would be minimal compared to regional demands. Regarding solar power, the Proposed Project would include a 308-kilowatt rooftop solar system. According to PVWatts (NREL 2024), the Proposed Project would be estimated to produce 528,254 kilowatt-hours per year of renewable energy from the on-site solar system. Additionally, the Proposed Project would be largely electrified, with the exception of limited natural gas consumption for purposes of student dining facilities. The Proposed Project's net increase in on-campus student housing opportunities also would beneficially enhance the efficiency of transportation fuel consumption by SDSU students by reducing student commute patterns. In summary, the Proposed Project would use renewable energy on site, as determined to be feasible, and would not result in wasteful, inefficient, or unnecessary consumption of energy resources, including electricity or petroleum during Project construction or operation. Impacts would be **less than significant**.

The Proposed Project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency during Project construction, and impacts would be **less than significant**. The Proposed Project would not conflict with applicable plans for renewable energy, as it would be required to include solar energy pursuant to Title 24 of the California Code of Regulations. As such, the Proposed Project, in combination with other reasonably foreseeable projects, would not conflict with a state or local plan for renewable energy or energy efficiency.

1 Introduction

1.1 Report Purpose and Scope

The purpose of this technical report is to assess the potential air quality, greenhouse gas (GHG) emissions, and energy impacts associated with implementation of the proposed San Diego State University (SDSU) Evolve Student Housing Project (Project or Proposed Project). This assessment uses the California Environmental Quality Act (CEQA) Appendix G checklist and is based on the emissions-based significance thresholds recommended by the San Diego Air Pollution Control District (SDAPCD) and other applicable thresholds of significance.

This introductory chapter provides a description of the Project and its location. Chapter 2, Air Quality, describes the air quality-related environmental setting, regulatory setting, existing air quality conditions, and thresholds of significance and analysis methodology and presents an air quality impact analysis per Appendix G of the CEQA Guidelines. Chapter 3, Greenhouse Gas Emissions, follows the same format as Chapter 2 and describes the GHG emissions-related environmental setting, regulatory setting, existing climate change conditions, and thresholds of significance and analysis methodology and presents a GHG emissions impact analysis per Appendix G of the CEQA Guidelines. Chapter 4, Energy, follows the same format as Chapters 2 and 3 and describes the energy-related environmental setting, regulatory setting, existing conditions, and thresholds of significance and analysis methodology and presents an energy impact analysis per Appendix G of the CEQA Guidelines. Chapter 5, References Cited, includes a list of the references cited. Chapter 6, List of Preparers, includes a list of those who prepared this technical report.

1.2 Regional and Local Setting

The SDSU campus is located along the Interstate (I) 8 corridor, approximately 8 miles from downtown San Diego (see Figure 1, Regional Map and Figure 2, Vicinity Map). The campus is located within the College Area Community of the City of San Diego (City). The College Area Community is characterized by SDSU as a major hub of activity, with single-family and multifamily residential uses and neighborhood commercial developments that serve the surrounding community, including SDSU.

The Proposed Project consists of two components, the Peninsula Component and the University Towers East Component. The proposed Peninsula Component would be located within the approximately 10.3-acre site at the northern terminus of 55th Street, adjacent to the northwest portion of campus south of I-8 and west of Canyon Crest Drive. The proposed University Towers East Component would be located on an approximately 1.1-acre site on Montezuma Road that is currently utilized as a parking lot (see Figure 2).

The SDSU campus can be accessed from the north by College Avenue, which also provides local access to I-8. The campus can be accessed from the east or west by Montezuma Road, an east-west roadway near the southern boundary of the campus, and accessed from the south via College Avenue.

1.3 Project Description

The proposed Peninsula Component student housing community would be located within the approximately 10.3-acre site located in the northwest portion of campus where 55th Street ends, south of I-8 and west of Canyon Crest Drive.

The Peninsula Component site currently contains eight, two-story apartment-style student housing buildings; one three-story apartment-style student housing building; the SDSU International Center complex comprising four buildings; and associated amenities (e.g., parking spaces, sidewalks, landscaped areas). Development of the Peninsula Component would include demolition of all 13 existing on-site buildings, which would include removal of 702 beds and 315 parking spaces, and the phased development of one 9-story building and five buildings up to 13 stories that would contain a total of approximately 4,450 beds to house university students. The 9-story building would contain approximately 650 beds, and the other five up to 13-story buildings would be four-bedroom and two-bedroom apartment-style buildings containing approximately 760 beds each. The proposed Peninsula Component would also include a new two-story amenity building for dining and other student uses, as well as outdoor gathering space and green space between each building. With the loss of 702 existing beds and the development of approximately 4,450 beds, the Proposed Project would result in a net increase of approximately 3,748 beds at the Peninsula site.

The proposed University Towers East Component student housing complex would be developed on a 1.1-acre site located on Montezuma Road currently utilized as a parking lot at 5505 Montezuma Road. The existing parking lot (approximately 93 spaces) would be demolished to allow for redevelopment of the site to include a new nine-story student-housing building that would accommodate approximately 720 beds.

Between the 4,450 beds of the Peninsula Component and the 720 beds of the University Towers East Component, the Proposed Project would result in the development of approximately 5,170 beds, a net increase of approximately 4,468 beds.

2 Air Quality

2.1 Environmental Setting

The Project site is located within the San Diego Air Basin (SDAB) and is subject to the SDAPCD guidelines and regulations. The SDAB is 1 of 15 air basins that geographically divide the State of California. The weather of the San Diego region, as in most of Southern California, is influenced by the Pacific Ocean and its semi-permanent, high-pressure systems that result in dry, warm summers and mild, occasionally wet winters. The average temperature ranges (in Fahrenheit [°F]) from the mid-40s to the high 90s. Most of the region's precipitation falls from November to April with infrequent (approximately 10%) precipitation during the summer. The average seasonal precipitation along the coast is approximately 10 inches; the amount increases with elevation as moist air is lifted over the mountains to the east.

The topography in the San Diego region varies greatly, from beaches on the west to mountains and desert on the east. Along with local meteorology, the topography influences the dispersal and movement of pollutants in the SDAB. The mountains to the east prohibit dispersal of pollutants in that direction and help trap them in inversion layers as described in the next section.

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

2.1.1 Meteorological and Topographical Conditions

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

The climate also drives the pollutant levels. The climate of San Diego is classified as Mediterranean, but it is incredibly diverse due to the topography. The climate is dominated by the Pacific High-Pressure System that results in mild, dry summers and mild, wet winters. The Pacific High drives the prevailing winds in the SDAB. The winds tend to blow onshore during the daytime and offshore at night. In the fall months, the SDAB is often impacted by Santa Ana winds. These winds are the result of a high-pressure system over the Nevada–Utah region that overcomes the westerly wind pattern and forces hot, dry winds from the east to the Pacific Ocean (SDAPCD 2015a). The 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 San Diego's ozone (O₃) concentrations. A strong Santa Ana also primes vegetation for firestorm conditions.

The SDAB experiences frequent temperature inversions. Subsidence inversions occur during the warmer months as descending air associated with the Pacific High-Pressure Zone meets cool marine air. The boundary between the two layers of air creates a temperature inversion that traps pollutants. Another type of inversion, a radiation inversion, develops on winter nights when air near the ground cools by heat radiation and air aloft remains warm.

The shallow inversion layer formed between these two air masses can also trap pollutants. As the pollutants become more concentrated in the atmosphere, photochemical reactions occur that produce O₃, commonly known as smog.

Light daytime winds, predominantly from the west, further aggravate the condition by driving air pollutants inland, toward the mountains. During the fall and winter, air quality problems are created due to emissions of carbon monoxide (CO) and oxides of nitrogen (NO_x). CO concentrations are generally higher in the morning and late evening. In the morning, CO levels are elevated due to cold temperatures and the large number of motor vehicles traveling. Higher CO levels during the late evenings are a result of stagnant atmospheric conditions trapping CO in the area. Since CO is produced almost entirely from automobiles, the highest CO concentrations in the basin are associated with heavy traffic. Nitrogen dioxide (NO₂) levels are also generally higher during fall and winter days when O₃ concentrations are lower.

The local climate on the coast of the City is characterized as semi-arid with consistently mild, warmer temperatures throughout the year. The average summertime high temperature in the region is approximately 69.9°F. The average wintertime low temperature is approximately 56.5°F. Average precipitation in the local area is approximately 10.13 inches per year, with the bulk of precipitation falling between November and March (WRCC 2024).

2.1.2 Pollutants and Effects

2.1.2.1 Criteria Air Pollutants

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards (criteria) for outdoor concentrations to protect public health. The federal and state standards have been set, with an adequate margin of safety, at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons from illness or discomfort. Pollutants of concern include O₃, NO₂, CO, sulfur dioxide (SO₂), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM₁₀), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM_{2.5}), and lead. These pollutants, as well as toxic air contaminants (TACs), are discussed in the following paragraphs.¹ In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as criteria air pollutants.

Ozone. O₃ is a strong-smelling, pale blue, reactive, toxic chemical gas consisting of three oxygen atoms. It is a secondary pollutant formed in the atmosphere by a photochemical process involving the sun's energy and O₃ precursors. These precursors are mainly NO_x and volatile organic compounds (VOCs). The maximum effects of precursor emissions on O₃ concentrations usually occur several hours after they are emitted and many miles from the source. Meteorology and terrain play major roles in O₃ formation, and ideal conditions occur during summer and early autumn on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. O₃ exists in the upper atmosphere O₃ layer (stratospheric ozone) and at the Earth's surface in the troposphere (ground level-ozone).² The O₃ that the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB) regulate as a criteria air pollutant is produced close to the ground level, where people live, exercise, and breathe. Ground-level O₃ is a harmful air pollutant that causes numerous adverse health effects and is, thus,

¹ The descriptions of each of the criteria air pollutants and associated health effects are based on EPA's (2016a) Criteria Air Pollutants and the CARB (2016a) Glossary of Air Pollutant Terms.

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

considered “bad” O₃. Stratospheric, or “good,” O₃ occurs naturally in the upper atmosphere, where it reduces the amount of ultraviolet light (i.e., solar radiation) entering the Earth’s atmosphere. Without the protection of the beneficial stratospheric O₃ layer, plant and animal life would be seriously harmed.

O₃ in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O₃ at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes (EPA 2013). These health problems are particularly acute in sensitive receptors such as the sick, the elderly, and young children.

Nitrogen Dioxide and Oxides of Nitrogen. NO₂ is a brownish, highly reactive gas that is present in all urban atmospheres. The major mechanism for the formation of NO₂ in the atmosphere is the oxidation of the primary air pollutant nitric oxide, which is a colorless, odorless gas. NO₂ can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections (EPA 2016b).

NO_x plays a major role, together with VOCs, in the atmospheric reactions that produce O₃. NO_x is formed from fuel combustion under high temperature or pressure. In addition, NO_x is an important precursor to acid rain and may affect both terrestrial and aquatic ecosystems. The two major emissions sources of NO_x are transportation and stationary fuel combustion sources, such as electric utility and industrial boilers.

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

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

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

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

Particulate Matter. Particulate matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter can form when gases emitted from

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

$PM_{2.5}$ and PM_{10} pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. $PM_{2.5}$ and PM_{10} can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Very small particles of substances such as lead, sulfates, and nitrates can cause lung damage directly or be absorbed into the blood stream, causing damage elsewhere in the body. Additionally, these substances can transport adsorbed gases such as chlorides or ammonium into the lungs, also causing injury. Whereas PM_{10} tends to collect in the upper portion of the respiratory system, $PM_{2.5}$ is so tiny that it can penetrate deeper into the lungs and damage lung tissue. Suspended particulates also damage and discolor surfaces on which they settle and produce haze and reduce regional visibility.

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

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

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

Volatile Organic Compounds. Hydrocarbons are organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of O_3 are referred to and regulated as VOCs (also referred to as reactive organic gases). Combustion engine exhaust, oil refineries, and fossil-fueled power plants are the primary sources of hydrocarbons. Other sources of hydrocarbons include evaporation from petroleum fuels, solvents, dry cleaning solutions, and paint.

The primary health effects of VOCs result from the formation of O₃ and its related health effects. High levels of VOCs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs. There are no separate health standards for VOCs as a group.

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

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

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

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

2.1.2.2 Non-Criteria Air Pollutants

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

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

Diesel Particulate Matter. Diesel particulate matter (DPM) is part of a complex mixture that makes up diesel exhaust. Diesel exhaust is composed of two phases—gas and particle—both of which contribute to health risks. More than 90% of DPM is less than 1 micrometer in diameter (about 1/70th the diameter of a human hair) and, thus, is a subset of PM_{2.5} (CARB 2016a). DPM is typically composed of carbon particles (“soot,” also called black carbon) and numerous organic compounds, including over 40 known cancer-causing organic substances. Examples of these chemicals include polycyclic aromatic hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene (CARB 2016a). CARB classified “particulate emissions from diesel-fueled engines” (i.e., DPM) (17 CCR 93000) as a TAC in August 1998. DPM is emitted from a broad range of diesel engines, including on-road diesel engines from trucks, buses, and cars and off-road diesel engines from locomotives, marine vessels, and heavy-duty construction equipment, among others. Approximately 70% of all airborne cancer risk in California is associated with DPM (CARB 2000). To reduce the cancer risk associated with DPM, CARB adopted a diesel risk reduction plan in 2000 (CARB 2000). Because it is part of PM_{2.5}, DPM also contributes to the same non-cancer health effects as PM_{2.5} exposure. These effects include premature death; hospitalizations and emergency department visits for exacerbated chronic heart and lung disease, including asthma; increased respiratory symptoms; and decreased lung function in children. Several studies suggest that exposure to DPM may also facilitate development of new allergies (CARB 2016b). Those most vulnerable to non-cancer health effects are children whose lungs are still developing and the elderly who often have chronic health problems.

Odorous Compounds. Odors are generally regarded as an annoyance rather than a health hazard. Manifestations of a person’s reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The ability to detect odors varies considerably among the population and, overall, is quite subjective. People may have different reactions to the same odor. An odor that is offensive to one person may be perfectly acceptable to another (e.g., coffee roaster). An unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. In a phenomenon known as odor fatigue, a person can become desensitized to almost any odor, and recognition may only occur with an alteration in the intensity. The occurrence and severity of odor impacts depend on the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receptors.

Valley Fever. Coccidioidomycosis, more commonly known as “valley fever,” is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States. The fungus is very prevalent in the soils of California’s San Joaquin Valley. The ecological factors that appear to be most conducive to survival and replication of the spores are high summer temperatures, mild winters, sparse rainfall, and alkaline, and sandy soils.

The County of San Diego (County) is not considered a highly endemic region for valley fever, as the latest report from the California Department of Public Health indicated the County has 13.5 cases per 100,000 people (California Department of Public Health 2022). Among the total reported incidents of valley fever 2021, less than five cases were in in SDSU’s zip code (92182) (County of San Diego 2023).

2.1.3 Sensitive Receptors

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution include children, the elderly, athletes, and people with cardiovascular and chronic respiratory diseases. Facilities and structures where these air pollution-sensitive people live or spend considerable amounts of time are known as sensitive receptors. Land uses

where air pollution-sensitive individuals are most likely to spend time include schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities (sensitive sites or sensitive land uses) (CARB 2005). The SDAPCD identifies sensitive receptors as those who are especially susceptible to adverse health effects from exposure to TACs, such as children, the elderly, and the ill. Sensitive receptors include schools (grades kindergarten through 12), day care centers, nursing homes, retirement homes, health clinics, and hospitals within 2 kilometers of the facility (SDAPCD 2019). The closest sensitive receptors to the Proposed Project are existing on-site dormitories and off-site residences.

2.2 Regulatory Setting

2.2.1 Federal Regulations

2.2.1.1 Criteria Air Pollutants

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

Under the CAA, NAAQS are established for the following criteria pollutants: O₃, CO, NO₂, SO₂, PM₁₀, PM_{2.5}, and lead. The NAAQS describes acceptable air quality conditions designed to protect health and welfare. The CAA requires EPA to reassess the NAAQS at least every 5 years to determine whether adopted standards are adequate to protect public health based on current scientific evidence. States with areas that exceed the NAAQS must prepare a state implementation plan (SIP) that demonstrates how those areas will attain CAA standards within mandated time frames. Table 1 below contains the NAAQS.

2.2.1.2 Hazardous Air Pollutants

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

2.2.2 State Regulations

2.2.2.1 Criteria Air Pollutants

The CAA delegates the regulation of air pollution control and the enforcement of the NAAQS to the states. In California, the task of air quality management and regulation has been legislatively granted to CARB, with subsidiary responsibilities assigned to air quality management districts and air pollution control districts at the regional and county levels. CARB, which became part of the California Environmental Protection Agency in 1991, is responsible

for ensuring implementation of the California Clean Air Act of 1988, responding to the CAA, and regulating emissions from motor vehicles and consumer products.

CARB has established California Ambient Air Quality Standards (CAAQS), which are generally more restrictive than the NAAQS. An air quality standard defines the maximum amount of a pollutant averaged over a specified period of time that can be present in outdoor air without any harmful effects on people or the environment. The CAAQS describes adverse conditions; therefore, monitored ambient air quality concentrations must be below these standards before a basin can demonstrate attainment. Air quality is considered “in attainment” if pollutant levels are continuously below the CAAQS and violate the standards no more than once each year. The CAAQS for O₃, CO, SO₂ (1-hour and 24-hour), NO₂, PM₁₀, PM_{2.5}, and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. The NAAQS and CAAQS are presented in Table 1.

Table 1. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards ^a	National Standards ^b	
		Concentration ^c	Primary ^{c,d}	Secondary ^{c,e}
O ₃	1 hour	0.09 ppm (180 µg/m ³)	N/A	Same as Primary Standard ^f
	8 hours	0.070 ppm (137 µg/m ³)	0.070 ppm (137 µg/m ³) ^f	
NO ₂ ^g	1 hour	0.18 ppm (339 µg/m ³)	0.100 ppm (188 µg/m ³)	Same as Primary Standard
	Annual Arithmetic Mean	0.030 ppm (57 µg/m ³)	0.053 ppm (100 µg/m ³)	
CO	1 hour	20 ppm (23 mg/m ³)	35 ppm (40 mg/m ³)	None
	8 hours	9.0 ppm (10 mg/m ³)	9 ppm (10 mg/m ³)	
SO ₂ ^h	1 hour	0.25 ppm (655 µg/m ³)	0.075 ppm (196 µg/m ³)	N/A
	3 hours	N/A	N/A	0.5 ppm (1,300 µg/m ³)
	24 hours	0.04 ppm (105 µg/m ³)	0.14 ppm (for certain areas) ^g	N/A
	Annual	N/A	0.030 ppm (for certain areas) ^g	N/A
PM ₁₀ ⁱ	24 hours	50 µg/m ³	150 µg/m ³	Same as Primary Standard
	Annual Arithmetic Mean	20 µg/m ³	N/A	
PM _{2.5} ⁱ	24 hours	N/A	35 µg/m ³	Same as Primary Standard
	Annual Arithmetic Mean	12 µg/m ³	12.0 µg/m ³	15.0 µg/m ³
Lead ^{j,k}	30-day Average	1.5 µg/m ³	N/A	N/A
	Calendar Quarter	N/A	1.5 µg/m ³ (for certain areas) ^k	Same as Primary Standard
	Rolling 3-Month Average	N/A	0.15 µg/m ³	

Table 1. Ambient Air Quality Standards

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

Source: CARB 2024a; EPA 2024a.

Notes: O₃ = ozone; ppm = parts per million by volume; µg/m³ = micrograms per cubic meter; N/A = not applicable; NO₂ = nitrogen dioxide; CO = carbon monoxide; mg/m³ = milligrams per cubic meter; SO₂ = sulfur dioxide; PM₁₀ = particulate matter with an aerodynamic diameter less than or equal to 10 microns; PM_{2.5} = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns.

- ^a California standards for O₃, CO, SO₂ (1-hour and 24-hour), NO₂, suspended particulate matter (PM₁₀, PM_{2.5}), and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. California Ambient Air Quality Standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
- ^b National standards (other than O₃, NO₂, SO₂, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O₃ standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM₁₀, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than one. For PM_{2.5}, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.
- ^c Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- ^d National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.
- ^e National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- ^f On October 1, 2015, the national 8-hour O₃ primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- ^g To attain the national 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb). Note that the national 1-hour standard is in units of ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
- ^h On June 2, 2010, a new 1-hour SO₂ standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the one-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
- ⁱ On December 14, 2012, the national annual PM_{2.5} primary standard was lowered from 15 µg/m³ to 12 µg/m³. The existing national 24-hour PM_{2.5} standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM₁₀ standards (primary and secondary) of 150 µg/m³ were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.
- ^j California Air Resources Board has identified lead and vinyl chloride as toxic air contaminants with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- ^k The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in

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

2.2.2.2 Toxic Air Contaminants

A TAC is defined by California law as an air pollutant that may cause or contribute to an increase in mortality or an increase in serious illness, or which may pose a present or potential hazard to human health. Federal laws use the term “hazardous air pollutants” to refer to the same types of compounds that are referred to as TACs under state law. California regulates TACs primarily through the Tanner Air Toxics Act (AB 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588).

AB 1807 sets forth a formal procedure for CARB to designate substances as TACs. This includes research, public participation, and scientific peer review before CARB can designate a substance as a TAC. Pursuant to AB 2588, existing facilities that emit air pollutants above specified levels were required to (1) prepare a TAC emission inventory plan and report, (2) prepare a risk assessment if TAC emissions were significant, (3) notify the public of significant risk levels, and, (4) if health impacts were above specified levels, prepare and implement risk reduction measures.

The following regulatory measures pertain to the reduction of DPM and criteria pollutant emissions from off-road equipment and diesel-fueled vehicles.

Idling of Commercial Heavy-Duty Trucks (13 CCR 2485)

In July 2004, CARB adopted an Airborne Toxic Control Measure (ATCM) to control emissions from idling trucks. The ATCM prohibits idling for more than 5 minutes for all commercial trucks with a gross vehicle weight rating over 10,000 pounds. The ATCM contains an exception that allows trucks to idle while queuing or involved in operational activities.

In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.)

In July 2007, CARB adopted an ATCM for in-use off-road diesel vehicles. This regulation requires that specific fleet average requirements be met for NO_x emissions and for particulate matter emissions. Where average requirements cannot be met, best available control technology requirements apply. The regulation also includes several recordkeeping and reporting requirements.

In response to AB 8 2X, the regulations were revised in July 2009 (effective December 3, 2009) to allow a partial postponement of the compliance schedule in 2011 and 2012 for existing fleets. On December 17, 2010, CARB adopted additional revisions to further delay the deadlines reflecting reductions in diesel emissions due to the poor economy and overestimates of diesel emissions in California. The revisions delayed the first compliance date until no earlier than January 1, 2014, for large fleets, with final compliance by January 1, 2023. The compliance dates for medium fleets were delayed until an initial date of January 1, 2017, and final compliance date of January 1, 2023. The compliance dates for small fleets were delayed until an initial date of January 1, 2019, and final compliance date of January 1, 2028. Correspondingly, the fleet average targets were made more stringent in future compliance years. The revisions also accelerated the phaseout of older equipment with newer equipment added to existing large and medium fleets over time, requiring the addition of Tier 2 or higher engines starting on

March 1, 2011, with some exceptions: Tier 2 or higher engines on January 1, 2013, without exception; and Tier 3 or higher engines on January 1, 2018 (January 1, 2023, for small fleets).

On October 28, 2011 (effective December 14, 2011), the executive officer approved amendments to the regulation. The amendments included revisions to the applicability section and additions and revisions to the definition. The initial date for requiring the addition of Tier 2 or higher engines for large and medium fleets, with some exceptions, was revised to January 1, 2012. New provisions also allow for the removal of emission control devices for safety or visibility purposes. The regulation was also amended to combine the particulate matter and NO_x fleet average targets under one, instead of two, sections. The amended fleet average targets are based on the fleet's NO_x fleet average, and the previous section regarding particulate matter performance requirements was deleted completely. The best available control technology requirements, if a fleet cannot comply with the fleet average requirements, were restructured and clarified. Other amendments to the regulations included minor administrative changes to the regulatory text.

In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025)

On December 12, 2008, CARB adopted an ATCM to reduce NO_x and particulate matter emissions from most in-use on-road diesel trucks and buses with a gross vehicle weight rating greater than 14,000 pounds. The original ATCM regulation required fleets of on-road trucks to limit their NO_x and particulate matter emissions through a combination of exhaust retrofit equipment and new vehicles. The regulation limited particulate matter emissions for most fleets by 2011 and limited NO_x emissions for most fleets by 2013. The regulation did not require any vehicle to be replaced before 2012 and never required all vehicles in a fleet be replaced.

In December 2009, the CARB Governing Board directed staff to evaluate amendments that would provide additional flexibility for fleets adversely affected by the struggling California economy. On December 17, 2010, CARB revised this ATCM to delay its implementation along with limited relaxation of its requirements. Starting on January 1, 2015, lighter trucks with a gross vehicle weight rating of 14,001 to 26,000 pounds with 20-year-old or older engines need to be replaced with newer trucks (2010 model year emissions equivalent as defined in the regulation). Trucks with a gross vehicle weight rating greater than 26,000 pounds with 1995 model year or older engines needed to be replaced as of January 1, 2015. Trucks with 1996 to 2006 model year engines must install a Level 3 (85% control) diesel particulate filter starting on January 1, 2012, to January 1, 2014, depending on the model year, and then must be replaced after 8 years. Trucks with 2007 to 2009 model year engines have no requirements until 2023, at which time they must be replaced with 2010 model year emissions-equivalent engines, as defined in the regulation. Trucks with 2010 model year engines would meet the final compliance requirements. The ATCM provides a phase-in option under which a fleet operator would equip a percentage of trucks in the fleet with diesel particulate filters, starting at 30% as of January 1, 2012, with 100% by January 1, 2016. Under each option, delayed compliance is granted to fleet operators who have or will comply with requirements before the required deadlines.

On September 19, 2011 (effective December 14, 2011), the executive officer approved amendments to the regulations, including revisions to the compliance schedule for vehicles with a gross vehicle weight rating of 26,000 pounds or less to clarify that all vehicles must be equipped with 2010 model year emissions equivalent engines by 2023. The amendments included revised and additional credits for fleets that have downsized; implemented early particulate matter retrofits; incorporated hybrid vehicles, alternative-fueled vehicles, and vehicles with heavy-duty pilot ignition engines; and implemented early addition of newer vehicles. The amendments included provisions for additional flexibility, such as for low-usage construction trucks, and revisions to previous exemptions, delays, and

extensions. Other amendments to the regulations included minor administrative changes to the regulatory text, such as recordkeeping and reporting requirements related to other revisions.

California Health and Safety Code Section 41700

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

2.2.3 Local Regulations

2.2.3.1 San Diego Air Pollution Control District

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

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

Federal Attainment Plans

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

In January 2021, CARB submitted for EPA's consideration the revised California SIP. On July 12, 2021, the San Diego 2020 RAQS was found complete by EPA. As discussed in the 2020 RAQS, the results of modeling and weight of evidence analyses provide persuasive support to the conclusion that the emission control measures defined in the plan are sufficient to continue reducing O₃ concentrations throughout the County to the level of the 2008 O₃ NAAQS by the conclusion of the 2026 O₃ season, and to the level of the 2015 O₃ NAAQS by the conclusion of the 2032 O₃ season.

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

State Attainment Plans

The SDAPCD and the San Diego Association of Governments (SANDAG) are responsible for developing and implementing the clean air plan for attainment and maintenance of the ambient air quality standards in the SDAB. The RAQS for the SDAB was initially adopted in 1991 and is updated triennially, most recently in 2022 (SDAPCD 2022). The RAQS was approved by the SDAPCD Board on March 9, 2023. The RAQS outlines SDAPCD’s plans and control measures designed to attain the state air quality standards for O₃. The RAQS relies on information from CARB and SANDAG, including mobile and area source emissions, as well as information regarding projected growth in the County and the cities in the County, to forecast future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. CARB mobile source emission projections and SANDAG growth projections are based on population, vehicle trends, and land use plans developed by the County and the cities in the County as part of the development of their general plans (SANDAG 2017a, 2017b).

In regard to particulate matter emissions-reduction efforts, in December 2005, the SDAPCD prepared a report titled Measures to Reduce Particulate Matter in San Diego County to address implementation of Senate Bill (SB) 656 in the County (SB 656 required additional controls to reduce ambient concentrations of PM₁₀ and PM_{2.5}) (SDAPCD 2005). In the report, SDAPCD evaluated implementation of source-control measures that would reduce particulate matter emissions associated with residential wood combustion; various construction activities, including earthmoving, demolition, and grading; bulk material storage and handling; carry-out and track-out removal and cleanup methods; inactive disturbed land; disturbed open areas; unpaved parking lots/staging areas; unpaved roads; and windblown dust (SDAPCD 2005).

SDAPCD Rules and Regulations

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

SDAPCD Regulation II: Permits; Rule 20.2: New Source Review Non-Major Stationary Sources

This rule requires new or modified stationary source units (that are not major stationary sources) with the potential to emit 10 pounds per day or more of VOC, NO_x, SO_x, or PM₁₀ to be equipped with best available control technology. A stationary source is an emission unit or aggregation of emission units that are located on the same or contiguous properties and whose units are under common ownership or entitlement to use. For those units with a potential to emit above Air Quality Impact Assessments Trigger Levels, the units must demonstrate that such emissions would not violate or interfere with the attainment of any NAAQS (SDAPCD 2016b).

The Proposed Project includes backup diesel emergency generators, which are subject to Rule 20.2 and require appropriate operating permits from the SDAPCD.

Additionally, because the SDAPCD has not adopted specific criteria air pollutant thresholds for CEQA analyses, the thresholds identified in Rule 20.2 are utilized in this analysis as screening-level thresholds to evaluate Project-level impacts, as discussed in Section 2.4.1, Thresholds of Significance.

SDAPCD Regulation IV: Prohibitions; Rule 50: Visible Emissions

This rule 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, which 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 1997).

Construction of the Proposed Project may result in visible emissions, primarily during earth-disturbing activities, which would be subject to SDAPCD Rule 50. Although visible emissions are less likely to occur during operation of the Proposed Project, compliance with SDAPCD Rule 50 would be required during both construction and operational phases.

SDAPCD Regulation IV: Prohibitions; Rule 51: Nuisance

This rule prohibits the discharge, from any source, of such quantities of air contaminants or other materials that cause or tend to cause injury, detriment, nuisance, annoyance to people and/or the public, or damage to any business or property (SDAPCD 1969).

Any criteria air pollutant emissions, TAC emissions, or odors generated during construction or operation of the Proposed Project would be subject to SDAPCD Rule 51. Violations can be reported to the SDAPCD as an air quality complaint by telephone, email, and online form. Complaints are investigated by the SDAPCD as soon as possible.

SDAPCD Regulation IV: Prohibitions; Rule 55: Fugitive Dust

This rule 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 area (SDAPCD 2009).

Construction of the Proposed Project, primarily during earth-disturbing activities, may result in fugitive dust emissions that would be subject to SDAPCD Rule 55. Fugitive dust emissions are not anticipated during operation of the Proposed Project.

SDAPCD Regulation IV: Prohibitions; Rule 67.0.1: Architectural Coatings

This rule 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 2021).

Rule 67.0.1, Architectural Coatings, would be used by the Proposed Project as a matter of regulatory compliance.

SDAPCD Regulation XII: Toxic Air Contaminants; Rule 1200: Toxic Air Contaminants - New Source Review

This rule 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, demonstrate that toxics best available control technology will be employed if maximum incremental cancer risk is equal to or less than 10 in 1 million, or demonstrate compliance with the 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 2017a).

The Proposed Project does not currently include specific stationary sources that would generate TACs not commonly associated with residential development projects. If stationary sources with the potential to emit TACs were to be included as part of the Proposed Project—or if they were added at a later date—those sources would be subject to SDAPCD Rule 1200 and would be subject to new source review requirements.

SDAPCD Regulation XII: Toxic Air Contaminants; Rule 1210: Toxic Air Contaminant Public Health Risks – Public Notification and Risk Reduction

This rule requires each stationary source 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, cancer burden equal to or greater than 1.0, 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 (SDAPCD 2017b).

The Proposed Project does not currently include specific stationary sources that would generate TACs. If stationary sources with the potential to emit TACs were to be included as part of the Proposed Project—or if they were added at a later date—those sources would be subject to SDAPCD Rule 1210 and would be subject to public notification and risk reduction requirements.

2.2.3.2 San Diego Association of Governments

SANDAG is a regional planning agency for the incorporated and unincorporated areas of San Diego County on regional issues relating to transportation, the economy, community development, and the environment. SANDAG relatedly serves as the federally designated metropolitan planning organization for the County. With respect to air quality planning and other regional issues, SANDAG has prepared the 2021 Regional Plan for the San Diego region (SANDAG 2021). The Regional Plan combines the big-picture vision for how the region will grow over the next 35 years with an implementation program to help make that vision a reality. The Regional Plan, including its Sustainable Communities Strategy (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 in, responds to the SDAPCD'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 2021). First, it complements air quality plans by providing guidance and incentives for public agencies to consider best practices that support technology-based control measures in air quality plans. Second, the Regional Plan emphasizes the need for better coordination of land use and transportation planning, which heavily influences the emissions inventory from the transportation

sectors of the economy. This also minimizes land use conflicts, such as residential development near freeways, industrial areas, or other sources of air pollution.

On September 23, 2016, SANDAG's Board of Directors adopted the final 2016 Regional Transportation Improvement Program (RTIP), which is a multibillion-dollar, multi-year program of proposed major transportation projects in the San Diego region. Transportation projects funded with federal, state, and TransNet (the San Diego transportation sales tax program) must be included in an approved RTIP. Locally funded projects also may be programmed at the discretion of the agency. The 2016 RTIP covers 5 fiscal years and incrementally implements the Regional Plan (SANDAG 2016). On February 26, 2021, the SANDAG Board of Directors adopted the final 2021 RTIP. The 2021 RTIP and its conformity determination were approved by Federal Highway Administration and Federal Transit Administration on April 16, 2021. The 2021 Regional Plan provides a long-term blueprint for the San Diego region that seeks to meet regulatory requirements, address traffic congestion, and create equal access to jobs, education, healthcare, and other community resources (SANDAG 2021). The plan is the result of years of planning, data analysis, and community engagement to reimagine the San Diego region with a transformative transportation system, a sustainable pattern of growth and development, and innovative demand and management strategies.

The 2021 Regional Plan includes an SCS, as required by California SB 375, for the San Diego region. This SCS describes coordinated transportation and land use planning that exceeds the state's target for reducing per capita GHG emissions set by CARB. The state-mandated target is a 19% reduction—compared with 2005—in per capita GHG emissions from cars and light-duty trucks by 2035. The 2021 Regional Plan achieves a 20% reduction by 2035.

The 2021 Regional Plan also puts forth a forecasted development pattern driven by regional goals for sustainability, mobility, housing affordability, and economic prosperity.

2.3 Regional and Local Air Quality Conditions

2.3.1 San Diego Air Basin Attainment Designation

Pursuant to the 1990 federal CAA amendments, EPA classifies air basins (or portions thereof) as “attainment” or “nonattainment” for each criteria air pollutant, based on whether the NAAQS have been achieved. Generally, if the recorded concentrations of a pollutant are lower than the standard, the area is classified as “attainment” for that pollutant. If an area exceeds the standard, the area is classified as “nonattainment” for that pollutant. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as “unclassified” or “unclassifiable.” The designation of “unclassifiable/attainment” means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Areas that achieve the standards after a nonattainment designation are redesignated as maintenance areas and must have approved maintenance plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as “attainment” or “nonattainment,” but based on CAAQS rather than the NAAQS. Table 2 depicts the current attainment status of the SDAB with respect to the NAAQS and CAAQS.

Table 2. San Diego Air Basin Attainment Classification

Pollutant	Designation/Classification	
	Federal Standards	State Standards
Ozone (O ₃) – 1 hour	Attainment	Nonattainment
O ₃ – (8 hour)	Nonattainment (moderate)	Nonattainment
Nitrogen Dioxide (NO ₂)	Unclassifiable/attainment	Attainment
Carbon Monoxide (CO)	Attainment (maintenance)	Attainment
Sulfur Dioxide (SO ₂)	Unclassifiable/attainment	Attainment
Coarse Particulate Matter (PM ₁₀)	Unclassifiable/attainment	Nonattainment
Fine Particulate Matter (PM _{2.5})	Unclassifiable/attainment	Nonattainment
Lead	Unclassifiable/attainment	Attainment
Hydrogen Sulfide	No federal standard	Attainment
Sulfates	No federal standard	Unclassified
Visibility-Reducing Particles	No federal standard	Unclassified
Vinyl Chloride	No federal standard	No designation

Sources: EPA 2016d (federal); CARB 2016d (state).

Notes: Attainment = meets the standards; Attainment/maintenance = achieve the standards after a nonattainment designation; Nonattainment = does not meet the standards; Unclassified or Unclassifiable = insufficient data to classify; Unclassifiable/attainment = meets the standard or is expected to be meet the standard despite a lack of monitoring data.

If nonattainment for federal standards, a clarifying classification will be provided indicating the severity of the nonattainment status.

In summary, the SDAB is designated as an attainment area for the 1997 8-hour O₃ NAAQS and as a nonattainment area for the 2008 8-hour O₃ NAAQS. The SDAB is designated as a nonattainment area for O₃, PM₁₀, and PM_{2.5} CAAQS. The portion of the SDAB where the Proposed Project would be located is designated as attainment or unclassifiable/unclassified for all other criteria pollutants under the NAAQS and CAAQS.

2.3.2 Local Ambient Air Quality

CARB, air districts, and other agencies monitor ambient air quality at approximately 250 air quality monitoring stations across the state. Local ambient air quality is monitored by SDAPCD. SDAPCD operates a network of ambient air monitoring stations throughout the County that measure ambient concentrations of pollutants and determine whether the ambient air quality meets the CAAQS and the NAAQS. The nearest SDAPCD-operated monitoring station to the Proposed Project is the Sherman Elementary School monitoring station, which is located approximately 6 miles southwest of the Project site. This Sherman Elementary School monitoring station was used to show the background ambient air quality for O₃, NO₂, and PM_{2.5} for the Project site. The monitoring station located on Rancho Carmel Drive was the closest to the Proposed Project site that monitored CO (14 miles north of the Project site). The First Street monitoring station in El Cajon (7 miles east of the Project site) was the closest for SO₂. The Chula Vista monitoring station (10 miles south of the Project site) was the closest for PM₁₀. Table 3 presents the most recent background ambient air quality data and number of days exceeding the ambient air quality standards from 2021 to 2023.

Table 3. Local Ambient Air Quality Data

Averaging Time	Unit	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
				2021	2022	2023	2021	2022	2023
Ozone (O3) – Sherman Elementary School									
Maximum 1-hour Concentration	ppm	State	0.09	0.076	0.087	0.081	0	0	0
Maximum 8-hour Concentration	ppm	State	0.070	0.064	0.063	0.071	0	0	1
		Federal	0.070	0.063	0.063	0.070	0	0	0
Nitrogen Dioxide (NO2) – Sherman Elementary School									
Maximum 1-hour Concentration	ppm	State	0.18	0.054	0.054	0.054	0	0	0
		Federal	0.100	0.054	0.054	0.054	0	0	0
Annual Concentration	ppm	State	0.030	0.009	0.010	0.009	0	0	0
		Federal	0.053	0.009	0.010	0.009	0	0	0
Carbon Monoxide (CO) – 11403 Rancho Carmel Drive									
Maximum 1-hour Concentration	ppm	State	20	3.0	2.2	1.6	0	0	0
		Federal	35	3.0	2.2	1.6	0	0	0
Maximum 8-hour Concentration	ppm	State	9.0	1.8	1.2	1.1	0	0	0
		Federal	9	1.8	1.2	1.1	0	0	0
Sulfur Dioxide (SO2) – First Street									
Maximum 1-hour Concentration	ppm	Federal	0.075	0.002	0.001	0.001	0	0	0
Maximum 24-hour Concentration	ppm	State	0.04	0.0003	0.0003	0.0003	0	0	0
	ppm	Federal	0.140	0.0003	0.0003	0.0003	0	0	0
Annual Concentration	ppm	Federal	0.030	0.0001	0.0001	0.0001	0	0	0
Coarse Particulate Matter (PM10)a – Chula Vista									
Maximum 24-hour Concentration	µg/m³	State	50	46	38	51	0	0	0
		Federal	150	46	38	51	0	0	0
Annual Concentration	µg/m³	State	20	N/A	N/A	N/A	N/A	N/A	N/A
Fine Particulate Matter (PM2.5)a – Sherman Elementary School									
Maximum 24-hour Concentration	µg/m³	Federal	35	25.6	18.9	27.8	0	0	0
Annual Concentration	µg/m³	State	12	9.4	N/A	N/A	0	N/A	N/A
		Federal	12.0	9.7	8.8	8.9	0	0	0

Sources: CARB 2024b; EPA 2024b.

Notes: ppm = parts per million; µg/m³ = micrograms per cubic meter; N/A = not available.

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

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

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

2.4 Significance Criteria and Methodology

2.4.1 Thresholds of Significance

The significance criteria used to evaluate the Project impacts to air quality are based on Appendix G of the CEQA Guidelines. According to Appendix G of the CEQA Guidelines, a significant impact related to air quality would occur if the Project would:

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

Appendix G indicates that, where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to determine whether the Project would have a significant impact on air quality.

The SDAPCD Air Quality Significance Thresholds shown in Table 4 were used to determine significance of Proposed Project-generated construction and operational criteria air pollutants; specifically, the Proposed Project’s potential to violate any air quality standard or contribute substantially to an existing or projected air quality violation (as assessed under the threshold criterion AQ-2). In regard to the analysis of potential impacts to sensitive receptors, the SDAPCD specifically recommends consideration of sensitive receptors in locations such as day care centers, schools, retirement homes, and hospitals, or medical patients in residential homes close to major roadways or stationary sources, which could be impacted by air pollutants.

Table 4. San Diego Air Pollution Control District Air Quality Significance Thresholds

Construction Emissions	
Pollutant	Total Emissions (Pounds per Day)
Respirable Particulate Matter (PM ₁₀)	100
Fine Particulate Matter (PM _{2.5})	67
Oxides of Nitrogen (NO _x)	250
Oxides of Sulfur (SO _x)	250
Carbon Monoxide (CO)	550
Volatile Organic Compounds (VOCs)	250

Table 4. San Diego Air Pollution Control District Air Quality Significance Thresholds

Operational Emissions			
Pollutant	Total Emissions		
	Pounds per Hour	Pounds per Day	Tons per Year
PM ₁₀	N/A	100	15
PM _{2.5}	N/A	67	10
NO _x	25	250	40
SO _x	25	250	40
CO	100	550	100
Operational Emissions			
Pollutant	Total Emissions		
	Pounds per Hour	Pounds per Day	Tons per Year
Lead and Lead Compounds	N/A	3.2	0.6
VOCs	N/A	250	40

Sources: SDAPCD 2019.
Notes: N/A = not available.

With respect to the third criterion, the SDAPCD specifically recommends consideration of sensitive receptors in locations such as day care centers, schools, retirement homes, and hospitals, or medical patients in residential homes close to major roadways or stationary sources, which could be impacted by air pollutants. The SDAPCD document Supplemental Guidelines for Submission of Air Toxics “Hot Spots” Program Health Risk Assessments provides guidance with which to perform health risk assessments (HRAs) within the SDAB. The current SDAPCD thresholds of significance for TAC emissions from both permitted and non-permitted sources are (i) less than 10 in 1 million for cancer and (ii) less than 1.0 for the chronic hazard index (SDAPCD 2022).

Finally, with respect to the fourth criterion (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.

2.4.2 Approach and Methodology

2.4.2.1 Construction

Emissions from the construction phase of the Proposed Project were estimated using the California Emissions Estimator Model (CalEEMod) Version 2022.1.1.28 (CAPCOA 2024).

The Project is proposed to be built out over six phases. The estimated schedule per phase is shown below. For modeling purposes, it was assumed that construction of the Proposed Project would commence in May 2025 and would last approximately 105 months, ending in January 2034. The Project was assumed to be constructed in one phase and based on the assumptions described herein (durations are approximate):

- **Phase 1:** May 2025–March 2027
- **Phase 2:** August 2026–January 2028

- **Phase 3:** February 2028–July 2029
- **Phase 4:** August 2029–December 2030
- **Phase 5:** January 2031–July 2032
- **Phase 6:** July 2032–January 2034

The estimated construction duration was provided by SDSU. Detailed construction equipment modeling assumptions are provided in Appendix B, CalEEMod Outputs. The Project would utilize equipment up to 8 hours per day; however, on an average annual basis the number of hours would be much less than that. Within each phase, there are subphases of construction that may include demolition, site preparation, grading, building construction, architectural coating, paving, and trenching. The following earthwork is anticipated to occur over the course of Project construction: Phase 1, cut/export of 28,200 cubic yards, fill/import of 17,820 cubic yards; Phase 2, cut/export of 3,500 cubic yards, fill/import of 5,800 cubic yards; Phase 3, cut/export of 4,400 cubic yards, fill/import of 18,400 cubic yards; Phase 4, cut/export of 20,900 cubic yards, fill/import of 12,201 cubic yards; Phase 5, cut/export of 5,491 cubic yards, fill/import of 1,500 cubic yards; and Phase 6, cut/export of 5,491 cubic yards and fill/import of 1,500 cubic yards. The following amount of material is also anticipated to be hauled off site during the demolition phases: Phase 1, 3,780 tons; Phase 2, 3,093 tons; Phase 3, 5,204 tons; and Phase 4, 11,043 tons.

The construction equipment mix used for estimating the construction emissions of the Proposed Project is based on SDSU-provided information per construction phase. Equipment not labeled as electric is assumed to be diesel. As a proposed condition of approval, SDSU has committed to using Tier 4 Final construction equipment for all proposed diesel equipment.

The construction scenario assumptions used in CalEEMod for Phases 1 through 6 are shown in Tables 5 through 10 below.

Table 5. Phase 1 Construction Scenario Assumptions

Construction Phase	Start Date	End Date	One-Way Vehicle Trips			Equipment		
			Average Daily Worker Trips	Average Daily Vendor Truck Trips	Average Daily Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Demolition	5/27/2025	6/24/2025	16	4	48	Excavators	3	8
						Tractors/Loaders/Backhoes	1	8
Site Preparation	6/25/2025	7/9/2025	18	4	0	Rubber Tired Dozers	1	8
						Tractors/Loaders/Backhoes	2	8
Grading	7/10/2025	8/28/2025	30	4	166	Graders	1	7
						Excavators	1	8
						Rubber Tired Dozers	1	8
Trenching	8/29/2025	10/29/2025	4	4	0	Excavators	2	8
Building construction	8/29/2025	1/29/2027	350	148	0	Forklifts	1	8
						Generator Sets (electric)	1	8
						Cranes (electric)	1	4
						Welders (electric)	1	8
						Tractors/Loaders/Backhoes	1	7
						Pumps	1	8
						Aerial Lifts	2	8
						Bore/Drill Rigs	1	2
Paving	1/30/2027	2/27/2027	16	4	0	Pavers	1	6
						Paving Equipment	1	6
						Rollers	1	6
Architectural coating	12/7/2026	3/9/2027	198	4	0	Air Compressors (electric)	1	6

Note: See Appendix B for details.

Table 6. Phase 2 Construction Scenario Assumptions

Construction Phase	Start Date	End Date	One-Way Vehicle Trips			Equipment		
			Average Daily Worker Trips	Average Daily Vendor Truck Trips	Average Daily Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Demolition	8/31/2026	9/28/2026	16	4	40	Excavators	3	8
						Tractors/Loaders/Backhoes	1	8
Site Preparation	9/29/2026	10/13/2026	18	4	0	Rubber Tired Dozers	1	8
						Tractors/Loaders/Backhoes	2	8
Grading	10/14/2026	11/25/2026	30	4	38	Graders	1	8
						Excavators	2	8
						Rubber Tired Dozers	1	8
Trenching	11/26/2026	1/26/2027	4	4	0	Excavators	2	8
Building construction	11/26/2026	11/30/2027	350	82	0	Forklifts	1	8
						Generator Sets (electric)	1	8
						Cranes (electric)	1	7
						Welders (electric)	1	8
						Tractors/Loaders/Backhoes	1	7
						Pumps	1	8
						Aerial Lifts	2	8
Paving	12/1/2027	12/28/2027	10	4	0	Pavers	1	6
						Paving Equipment	1	6
						Rollers	2	6
Architectural coating	10/22/2027	1/24/2028	110	4	0	Air Compressors (electric)	1	6

Note: See Appendix B for details.

Table 7. Phase 3 Construction Scenario Assumptions

Construction Phase	Start Date	End Date	One-Way Vehicle Trips			Equipment		
			Average Daily Worker Trips	Average Daily Vendor Truck Trips	Average Daily Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Demolition	2/24/2028	3/23/2028	16	4	66	Excavators	3	8
						Tractors/Loaders/Backhoes	1	8
Site Preparation	3/24/2028	4/7/2028	18	4	0	Rubber Tired Dozers	1	8
						Tractors/Loaders/Backhoes	2	8
Grading	4/8/2028	5/20/2028	30	4	96	Graders	1	7
						Excavators	2	7
						Rubber Tired Dozers	1	8
Trenching	5/21/2028	7/20/2028	4	4	0	Excavators	2	8
Building construction	5/21/2028	5/15/2029	350	82	0	Forklifts	1	8
						Generator Sets (electric)	1	8
						Cranes (electric)	1	7
						Welders (electric)	1	8
						Tractors/Loaders/Backhoes	1	7
						Pumps	1	8
Paving	5/16/2029	6/12/2029	10	4	0	Aerial Lifts	2	8
						Pavers	1	6
						Paving Equipment	1	6
Architectural coating	4/11/2029	7/12/2029	110	4	0	Rollers	2	6
						Air Compressors (electric)	1	6

Note: See Appendix B for details.

Table 8. Phase 4 Construction Scenario Assumptions

Construction Phase	Start Date	End Date	One-Way Vehicle Trips			Equipment		
			Average Daily Worker Trips	Average Daily Vendor Truck Trips	Average Daily Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Demolition	8/13/2029	9/10/2029	16	4	140	Excavators	3	8
						Tractors/Loaders/Backhoes	1	8
Site Preparation	9/11/2029	9/25/2029	18	4	0	Rubber Tired Dozers	1	8
						Tractors/Loaders/Backhoes	2	8
Grading	9/26/2029	11/7/2029	30	4	138	Graders	1	7
						Excavators	2	7
						Tractors/Loaders/Backhoes	2	8
						Rubber Tired Dozers	2	8
Trenching	11/8/2029	1/8/2030	4	4	0	Excavators	2	8
Building construction	11/8/2029	11/2/2030	350	82	0	Forklifts	1	8
						Generator Sets (electric)	1	8
						Cranes (electric)	1	7
						Welders (electric)	1	8
						Tractors/Loaders/Backhoes	1	7
						Pumps	1	8
						Aerial Lifts	2	8
Paving	11/3/2030	11/30/2030	10	4	0	Pavers	1	6
						Paving Equipment	1	6
						Rollers	2	6
Architectural coating	9/20/2030	12/23/2030	110	4	0	Air Compressors (electric)	1	6

Note: See Appendix B for details.

Table 9. Phase 5 Construction Scenario Assumptions

Construction Phase	Start Date	End Date	One-Way Vehicle Trips			Equipment		
			Average Daily Worker Trips	Average Daily Vendor Truck Trips	Average Daily Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Site Preparation	1/22/2031	2/4/2031	18	4	0	Rubber Tired Dozers	1	8
						Tractors/Loaders/Backhoes	2	8
Grading	2/5/2031	3/18/2031	30	4	30	Graders	1	8
						Excavators	4	8
						Rubber Tired Dozers	1	8
						Tractors/Loaders/Backhoes	2	8
Trenching	3/19/2031	5/19/2031	4	4	0	Excavators	2	8
Building construction	3/19/2031	5/11/2032	350	82	0	Forklifts	1	8
						Generator Sets (electric)	1	8
						Cranes (electric)	1	7
						Welders (electric)	1	8
						Tractors/Loaders/Backhoes	1	7
						Pumps	1	8
						Aerial Lifts	2	8
Paving	5/12/2032	6/14/2032	10	4	0	Pavers	1	6
						Paving Equipment	1	6
						Rollers	2	6
Architectural coating	4/14/2032	7/15/2032	110	4	0	Air Compressors (electric)	1	6

Note: See Appendix B for details.

Table 10. Phase 6 Construction Scenario Assumptions

Construction Phase	Start Date	End Date	One-Way Vehicle Trips			Equipment		
			Average Daily Worker Trips	Average Daily Vendor Truck Trips	Average Daily Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Site Preparation	7/16/2032	7/29/2032	18	4	0	Rubber Tired Dozers	1	8
						Tractors/Loaders/Backhoes	2	8
Grading	7/30/2032	9/9/2032	30	4	30	Graders	1	8
						Excavators	4	8
						Rubber Tired Dozers	1	8
						Tractors/Loaders/Backhoes	2	8
Trenching	9/10/2032	11/10/2032	4	4	0	Excavators	2	8
Building construction	9/10/2032	11/17/2033	350	82	0	Forklifts	1	8
						Generator Sets (electric)	1	8
						Cranes (electric)	1	7
						Welders (electric)	1	8
						Tractors/Loaders/Backhoes	1	7
						Pumps	1	8
						Aerial Lifts	2	8
						Bore/Drill Rigs	1	8
Paving	11/18/2033	12/15/2033	10	4	0	Pavers	1	6
						Paving Equipment	1	6
						Rollers	2	6
Architectural coating	10/12/2033	1/12/2034	110	4	0	Air Compressors (electric)	1	6

Note: See Appendix B for details.

For the analysis, it was assumed that heavy-duty construction equipment would be operating 5 days per week (22 days per month) during Proposed Project construction. Construction worker and vendor trips were based on CalEEMod default assumptions and rounded up to the nearest whole number to account for whole round trips. A detailed depiction of the construction schedule—including information regarding phases and equipment used during each phase—is included in Appendix B of this report. The information contained in Appendix B was used as CalEEMod model inputs.

Construction of Proposed Project components would be subject to SDAPCD Rule 55, Fugitive Dust Control, which requires that proposed construction include steps to restrict visible emissions of fugitive dust beyond the property line (SDAPCD 2009). Compliance with Rule 55 would limit fugitive dust (PM_{10} and $PM_{2.5}$) that may be generated during proposed grading and construction activities. In accordance with SDAPCD Rule 55, SDSU shall water during dust-generating activities at least twice per day. Additionally, in accordance with SDAPCD Rule 67.0.1, the contractor shall use architectural coatings that do not exceed 50 grams per liter for interior and exterior applications and 100 grams per liter for paving applications.

2.4.2.2 Operation

Emissions from the operational phase of the Proposed Project were estimated using CalEEMod. The following operational years were utilized as the first full year following completion of each proposed construction phase: 2027 for Phase 1, 2028 for Phase 2, 2029 for Phase 3, 2030 for Phase 4, 2032 for Phase 5, and 2034 for Phase 6.

As previously described, the Proposed Project would demolish and replace existing residential units on the Peninsula Component site. The operational area and energy source emissions from the existing residential units on the Peninsula Component site were not quantified herein. As a result, this analysis conservatively reports all operational area and energy source emissions from the Proposed Project as new emissions measured from a zero emissions baseline, even though the actual change from the existing, on-site conditions would represent an incremental change that is smaller than reported below. Conversely, the methodology used to estimate the Proposed Project's mobile source-related emissions does account for the beneficial reduction in emissions attributable to the Project's provision of additional on-campus student housing opportunities, as described further below.

Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from consumer product use, architectural coatings, and landscape maintenance equipment. Emissions associated with natural gas usage in space heating and water heating are calculated in the building energy use module of CalEEMod, as described in the following text. The Project would not have fireplaces or hearths.

Consumer products are chemically formulated products used by household and institutional consumers, including detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. Other paint products, furniture coatings, or architectural coatings are not considered consumer products (CAPCOA 2024). Consumer product VOC emissions for the buildings are estimated in CalEEMod based on the floor area of buildings and on the default factor of pounds of VOC per building square foot per day. Consumer products associated with the parking lot and other asphalt surfaces include degreasers, which were estimated based on the square footage of the

parking lot and the default factor of pounds of VOC per square foot per day. The CalEEMod default values for consumer products were assumed.

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings, such as in paints and primers used during building maintenance. CalEEMod calculates the VOC evaporative emissions from the application of surface coatings based on the VOC emission factor, the building square footage, the assumed fraction of surface area, and the reapplication rate. The VOC emissions factor is based on the VOC content of the surface coatings, and SDAPCD's Rule 67.0.1 (Architectural Coatings) governs the VOC content for interior and exterior coatings. This rule 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 2015b). The Proposed Project would use architectural coatings that would not exceed 50 grams per liter for interior applications and 100 grams per liter for exterior applications consistent with SDAPCD Rule 67.0.1. The model default reapplication rate of 10% of area per year is assumed. Consistent with CalEEMod defaults, it is assumed that the surface area for painting equals 2.7 times the floor square footage, with 75% assumed for interior coating and 25% assumed for exterior surface coating (CAPCOA 2024).

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chainsaws, and hedge trimmers. The emissions associated with landscape equipment use are estimated based on CalEEMod default values for emission factors (grams per square foot of building space per day) and number of summer days (when landscape maintenance would generally be performed) and winter days.

Energy Sources

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage. Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for GHGs in CalEEMod, since criteria pollutant emissions occur at the site of the power plant, which is typically off site. The Amenity Building would be the only building within the Project to include natural gas (for cooking); all other buildings would be all-electric.

Mobile Sources

Following the completion of construction activities, the Proposed Project's student residents would generate criteria pollutant emissions from mobile sources (vehicular traffic). The Project, however, would result in a beneficial net reduction in student trips and corresponding emissions because the Project would create additional on-campus student housing opportunities for students who otherwise would need to live in off-campus housing and commute to the campus.

As estimated by the Proposed Project's transportation engineer Linscott, Law, and Greenspan LLC, when living off campus, existing students would result in an estimated 5,808 average daily trips (LLG 2024). If living on campus in the Proposed Project, however, the students would result in an estimated 2,860 average daily trips, resulting in a net reduction of 2,948 average daily trips (LLG 2024). Similarly, there would be a reduction in average trip length per trip when comparing off-campus and on-campus student housing. The existing off-campus trip length is estimated to be 14.17 miles per trip per student (LLG 2024). The on-campus Proposed Project trip length was estimated to be 7.6 miles per trip per student, resulting in a net reduction of 6.57 miles per trip per

student (LLG 2024). Annually, therefore, the Project would result in a net reduction of 1,076,020 trips and 22,105,626 vehicle miles traveled (VMT) (LLG 2024).

CalEEMod default data, including vehicle mix, trip characteristics, and emissions factors, were used for the model inputs. Emission factors representing the vehicle mix and emissions for 2027 for Phase 1, 2028 for Phase 2, 2029 for Phase 3, 2030 for Phase 4, 2032 for Phase 5, and 2034 for Phase 6 were used to estimate emissions associated with vehicular sources.

Stationary Sources

Following the completion of construction activities, the Proposed Project would generate criteria pollutant emissions from stationary sources (emergency generator maintenance and testing). The Project would include a total of seven emergency generators at the following locations: one each at Phase 1 Peninsula Component and University Towers East Component, as well as one each at Phase 2, Phase 3, Phase 4, Phase 5, and Phase 6 Peninsula Component. The Phase 1 Peninsula Component emergency generator would be rated at 200 kilowatts (kW). The University Towers East Component emergency generator would be rated at 250 kW. The emergency generator for Phases 2 through 6 would be rated at 350 kW each. All proposed emergency generators would be rated per the EPA Tier 4 Final emission standard. In accordance with SDAPCD Rule 69.4.1, the generators were assumed to run up to 30 minutes per day and 52 hours per year for maintenance and testing.

2.4.2.3 Health Risk Assessment

An HRA was performed to assess the Proposed Project's construction and operation impact on sensitive receptors (on site and off site) proximate to the Project site (provided as Appendix A). This HRA was informed by the methodologies prescribed in the Office of Environmental Health Hazard Assessment (OEHHA) document, Air Toxics Hot Spots Program Risk Assessment Guidelines – Guidance Manual for Preparation of Health Risk Assessments (OEHHA Guidelines) (OEHHA 2015). To facilitate implementation of the OEHHA Guidelines, the SDAPCD has developed a three-tiered approach where each successive tier is progressively more refined, with fewer conservative assumptions. The SDAPCD document Supplemental Guidelines for Submission of Air Toxics “Hot Spots” Program Health Risk Assessments (SDAPCD 2022) provides guidance with which to perform HRAs within the SDAB and also was utilized in the preparation of the Proposed Project's HRA.

Health effects from TACs are usually described in terms of cancer risk. The SDAPCD recommends a carcinogenic (cancer) risk threshold of 10 in 1 million (an increase in 0.001% chance). Additionally, some TACs increase non-cancer health risk due to long-term (chronic) exposures. The Chronic Hazard Index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. The SDAPCD recommends a Chronic Hazard Index significance threshold of 1.0 (project increment).

The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long-term chronic health hazard impacts. No short-term, acute relative exposure level has been established for DPM; therefore, acute impacts of DPM are not addressed in this assessment.

The HRA for the Proposed Project evaluated the risk to existing residents (on site and off site) from diesel exhaust emissions from on-site construction equipment and diesel haul and vendor trucks. Once Phase 1 is operational, there will be DPM emissions from the emergency generator during maintenance and testing.

Therefore, emissions from emergency generators in the Project’s subsequent phases are included in the HRA once each phase is operational. After construction is fully completed, the emergency generator testing would be the only source of TAC emissions from the Project.

The dispersion modeling of DPM was performed using the American Meteorological Society/EPA Regulatory Model (AERMOD), which is the model SDAPCD requires for atmospheric dispersion of emissions. AERMOD is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of surface and elevated sources, building downwash, and simple and complex terrain (EPA 2023). For the Proposed Project, AERMOD was run with all sources emitting unit emissions (1 gram per second) to obtain the “X/Q” values. X/Q is a dispersion factor that is the average effluent concentration normalized by source strength and is used as a way to simplify the representation of emissions from many sources. The X/Q values of ground-level concentrations were determined for construction emissions using AERMOD, and the maximum concentrations were determined for the 1-hour and period-averaging periods. Principal parameters of this modeling are presented in Table 11.

Table 11. AERMOD Principal Parameters

Parameter	Details
Meteorological Data	The latest 3-year meteorological data (2020–2022) for the Kearny Villa Road Station from SDAPCD were downloaded and then input to AERMOD.
Urban versus Rural Option	Urban areas typically have more surface roughness, as well as structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. However, based on the SDAPCD guidelines, the rural dispersion option was selected due to the Proposed Project’s proximity to the ocean.
Terrain Characteristics	The terrain in the vicinity of the modeled Project site is generally hilly. The elevation of the modeled site is about 400 feet above sea level. Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate.
Elevation Data	Digital elevation data were imported into AERMOD, and elevations were assigned to the emission sources and receptors. Digital elevation data were obtained through AERMOD View in the U.S. Geological Survey’s National Elevation Dataset format with a 30-meter resolution.
Emission Sources and Release Parameters	Air dispersion modeling of DPM from construction equipment and emergency generator testing was conducted using emissions estimated using the CalEEMod. The construction emissions were modeled as a series of adjacent line-volume sources. The emergency generators were modeled as point sources.
Source Release Characterizations	The source release height was assumed to be 6.8 meters with plume height and width of 8.6 meters and release height of 3.4 meters per volume source (EPA 2023). As the exact make and model is not known yet, the emergency generator release parameters were based on survey data by engine size (SBCAPCD 2023). The following source parameters were assumed: Phase 1 Peninsula Component, release height 8.2 feet, exit temperature 931°F, stack diameter of 5.3 inches, and gas exit flow rate of 1,829 cubic feet per minute (CFM); University Towers East Component, release height 8.2 feet, exit temperature 931°F, stack diameter of 5.3 inches, and gas exit flow rate of 1,829 CFM; Phases 2 through 6, release height 7.6 feet, exit temperature 799°F, stack diameter of 8 inches, and gas exit flow rate of 2,930 CFM.
Receptors	Discrete receptors were placed over residences (on site and off site) close to the Project site.

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

See Appendix A for additional information.

Dispersion model plot files from AERMOD were then imported into CARB's Hotspots Analysis and Reporting Program Version 2 to determine health risk, which requires peak 1-hour emission rates and annual emission rates for all pollutants for each modeling source. The average construction DPM emissions were assumed for each phase of construction. For the off-site residential health risk, the HRA assumes exposure would start in the third trimester of pregnancy for a duration of 30 years. For the on-site residential health risk, the exposure would start at age 16. The results of the HRA are provided in Section 2.5, Impact Analysis, and detailed results and methodology are provided in Appendix A.

2.5 Impact Analysis

AQ-1) *Would the Proposed Project conflict with or obstruct implementation of the applicable air quality plan?*

As stated in Section 2.2.3, Local Regulations, the SDAPCD is responsible for developing and implementing the clean air plans for attainment and maintenance of the NAAQS and CAAQS in the SDAB; specifically, the SIP and RAQS.³ The federal O₃ attainment plan, which is part of the SIP, was adopted in 2020. The SIP includes a demonstration that current strategies and tactics will attain acceptable air quality in the SDAB based on the NAAQS. The RAQS was initially adopted in 1992 and is updated every 3 years (most recently in 2022). The RAQS outlines SDAPCD's plans and control measures designed to attain the CAAQS for O₃. The SIP and RAQS rely on information from CARB and SANDAG, including mobile and area source emissions, as well as information regarding projected growth in the County and the cities in the County, to project future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. CARB mobile source emission projections and SANDAG growth projections are based on population, vehicle trends, and land use plans developed by the County and the cities in the County as part of the development of their general plans.

Projects involving development consistent with the growth anticipated by local plans would be consistent with the SIP and RAQS. However, if a project involves development that is greater than that anticipated in the local plan and/or SANDAG's growth projections, that project might conflict with the SIP and RAQS and may contribute to a potentially significant cumulative impact on air quality.

The Proposed Project would add 4,468 net new beds⁴ to the campus. The Project is not growth-inducing as it would not generate an increase in student enrollment. The final buildout of all 4,468 beds would not be expected until 2034. According to SANDAG's Series 15 Regional Forecast, housing in the City is anticipated to increase from 605,371 units in 2029 to 645,899 units in 2040, or 3,377 units per year (SANDAG 2024). As this is a phased project, the maximum number of units operational within 1 year would be Phase 1 at 1,370 beds. All other phases would add up to 760 beds per year. Therefore, the buildout of the Project would be within the regional housing annual projections. The Project would be within the regional growth projections and would not conflict with the RAQS and SIP. Therefore, a **less than significant** impact would result.

³ For the purpose of this discussion, the relevant federal air quality plan is the O₃ attainment plan (SDAPCD 2020). The RAQS is the applicable plan for purposes of state air quality planning. Both plans reflect growth projections in the SDAB.

⁴ For purposes of this consistency analysis, it has conservatively been assumed that one student bed equates to one unit for purposes of SANDAG's growth forecast. This is a worst-case assumption.

AQ-2) *Would the Proposed Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?*

Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and SDAPCD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are relevant in the determination of whether a project’s individual emissions violate any air quality standard or contribute substantially to an existing or projected air quality violation or have a cumulatively significant impact on air quality.

Construction Emissions

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

Criteria air pollutant emissions associated with construction activities were quantified using CalEEMod. Default values provided by the program were used where detailed Proposed Project information was not available. A detailed depiction of the construction schedule—including information regarding phasing, equipment used during each phase, haul trucks, vendor trucks, and worker vehicles—is included in Section 2.4.2.1, Construction. The information contained in Appendix B was used as CalEEMod inputs.

Development of the Proposed Project would generate air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, asphalt pavement application, and architectural coatings. Entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM₁₀ and PM_{2.5} emissions. The Proposed Project would be subject to SDAPCD Rule 55, Fugitive Dust Control. This rule requires that the Proposed Project take steps to restrict visible emissions of fugitive dust beyond the property line. Compliance with Rule 55 would limit fugitive dust (PM₁₀ and PM_{2.5}) generated during grading and construction activities. To account for dust control measures in the calculations, the Proposed Project would be required to ensure that active sites be watered at least two times daily as a matter of SDAPCD Rule 55 regulatory compliance.

Exhaust from internal combustion engines used by construction equipment and vehicles would result in emissions of VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5}. The application of asphalt pavement and architectural coatings would also produce VOC emissions.

Table 12 shows the estimated maximum daily construction emissions associated with construction of the Proposed Project. Complete details of the emissions calculations are provided in Appendix B.

Table 12. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Year	Pounds per day					
Summer						
2025	1.75	17.45	27.64	0.10	6.38	2.50

Table 12. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Year	Pounds per day					
2026	1.76	14.11	35.88	0.06	7.08	2.42
2027	1.42	5.83	21.76	0.02	3.53	0.88
2028	1.44	10.33	23.13	0.06	4.98	2.01
2029	69.97	5.83	24.21	0.02	4.49	1.09
2030	69.91	5.72	23.15	0.02	4.47	1.09
2031	1.30	6.62	20.68	0.03	3.58	0.89
2032	69.55	5.39	21.21	0.02	4.47	1.09
2033	1.10	5.10	20.04	0.03	3.52	0.88
2034	N/A	N/A	N/A	N/A	N/A	N/A
Winter						
2025	1.72	10.31	25.68	0.04	4.04	1.04
2026	127.78	16.99	53.15	0.07	9.52	3.10
2027	126.21	8.99	28.86	0.04	5.68	1.42
2028	68.65	0.43	3.79	0.00	0.96	0.23
2029	1.37	14.78	28.34	0.10	8.35	3.62
2030	69.90	7.02	21.22	0.03	4.47	1.09
2031	1.17	6.82	20.55	0.04	3.69	1.64
2032	1.16	6.82	21.41	0.03	3.59	0.90
2033	69.53	5.60	21.68	0.03	4.48	1.10
2034	68.42	0.27	2.68	0.00	0.96	0.23
Maximum	127.78	17.45	53.15	0.10	9.52	3.62
<i>Threshold</i>	250	250	550	250	100	67
Threshold Exceeded?	No	No	No	No	No	No

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = particulate matter with an aerodynamic diameter less than or equal to 10 microns; PM_{2.5} = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns; N/A = not applicable; CalEEMod = California Emissions Estimator Model.

See Appendix B for complete results.

The values shown are the maximum summer or winter daily emissions results from CalEEMod. Although not considered mitigation, these emissions reflect the CalEEMod “mitigated” output, which accounts for the required compliance with SDAPCD Rule 55 (Fugitive Dust) and Rule 67.0.1 (Architectural Coatings).

As shown in Table 12, daily construction emissions from the Proposed Project would not exceed the significance thresholds for any criteria air pollutant. Therefore, impacts during construction would not violate any air quality standard or contribute substantially to an existing or projected air quality violation. Impacts would be **less than significant**.

Operational Emissions

Operation of the Proposed Project would generate VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions from mobile sources (vehicle trips), area sources (consumer products, landscape maintenance equipment), and energy sources. As discussed in Section 2.4.2.2, Operation, pollutant emissions associated with long-term operations were

quantified using CalEEMod. Project-generated mobile source emissions were estimated in CalEEMod based on project-specific trip rates. CalEEMod default values were used to estimate emissions from the Proposed Project area and energy sources.

Table 13 presents the maximum daily area, energy, and mobile source emissions associated with full operation (all phases) of the Proposed Project without mitigation. The existing mobile emissions that would be avoided due to the Proposed Project's provision of additional on-campus student housing opportunities are presented along with the net emissions (Project minus existing). The values shown are the maximum summer or winter daily emissions results from CalEEMod. Details of the emission calculations are provided in Appendix B.

Table 13. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions

Emission Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per day					
Summer Project						
Area	141.72	2.76	294.75	0.01	0.14	0.10
Energy	0.18	3.17	1.54	0.02	0.25	0.25
Mobile	9.66	5.92	65.85	0.17	15.46	4.00
Stationary	0.38	0.81	7.00	0.01	0.03	0.03
Summer Total	151.95	12.71	369.14	0.22	15.92	4.39
Winter Project						
Area	116.11	0.00	0.00	0.00	0.00	0.00
Energy	0.18	3.17	1.54	0.02	0.25	0.25
Mobile	9.49	6.51	62.52	0.16	15.46	4.00
Stationary	0.38	0.81	7.00	0.01	0.03	0.03
Winter Total	126.17	10.53	71.06	0.20	15.78	4.29
Summer Existing						
Mobile	29.75	28.25	287.49	0.69	58.68	15.26
Winter Existing						
Mobile	29.13	31.03	263.36	0.66	58.68	15.26
Summer Net Emissions (Project – Existing)	122.20	(15.54)	81.65	(0.47)	(43.31)	(10.87)
Winter Net Emissions (Project – Existing)	97.04	(20.50)	(192.30)	(0.46)	(42.90)	(10.97)
Threshold	250	250	550	250	100	67
Threshold Exceeded?	No	No	No	No	No	No

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = particulate matter with an aerodynamic diameter less than or equal to 10 microns; PM_{2.5} = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns; CalEEMod = California Emissions Estimator Model; <0.01 = reported value is less than 0.01.

See Appendix B for complete results.

The values shown are the maximum summer or winter daily emissions results from CalEEMod. These emissions reflect the CalEEMod “mitigated” output, which accounts for compliance with SDAPCD Rule 67.0.1 (Architectural Coatings). Emissions shown in parentheses represent net negative values.

As shown in Table 13, the Proposed Project's net daily area, energy, and mobile source emissions would not exceed the operational thresholds for VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5}. Impacts during operation would not

violate any air quality standard or contribute substantially to an existing or projected air quality violation. Impacts would be **less than significant**.

Cumulative Analysis

The SDAB has been designated as a federal nonattainment area for O₃ and a state nonattainment area for O₃, PM₁₀, and PM_{2.5}. The poor air quality in the SDAB is the result of cumulative emissions from motor vehicles, off-road equipment, commercial and industrial facilities, and other emission sources. Projects that emit these pollutants or their precursors (i.e., VOCs and NO_x for O₃) potentially contribute to poor air quality.

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

Cumulative projects in the Project area would not result in substantial concentrations of TAC emissions during operation as they are predominantly residential and commercial projects with the majority of their emissions (mobile sources) occurring off site. Emissions during construction would disperse rapidly from the project sites and generally occur at magnitudes that would not affect substantial numbers of people.

Regarding short-term construction impacts, the SDAPCD thresholds of significance are used to determine whether the project may have a short-term cumulative impact. As shown in Table 12, the Proposed Project would not exceed any criteria air pollutant threshold during construction. Therefore, the Project would have a less-than-significant cumulative impact during construction.

Additionally, for the SDAB, the SIP and RAQS serve as the long-term regional air quality planning documents for the purpose of assessing cumulative operational emissions in the basin to ensure the SDAB continues to make progress toward NAAQS- and CAAQS-attainment status. As such, cumulative projects located in the San Diego region would have the potential to result in a cumulative impact to air quality if, in combination, they would conflict with or obstruct implementation of the SIP and RAQS. Similarly, individual projects that are inconsistent with the regional planning documents upon which the SIP and RAQS are based would have the potential to result in cumulative operational impacts if they represent development and population increases beyond regional projections. As stated previously, the Proposed Project would not result in significant regional growth not accounted for within the RAQS. Additionally, as shown in Table 13, the Proposed Project would not exceed any criteria air pollutant threshold during operation. Rather, except for VOCs, the Proposed Project would reduce criteria air pollutant emissions below existing levels by increasing the availability of on-campus student housing and, thereby, minimizing student-related vehicle travel.

In light of the above, the Proposed Project would not result in a cumulatively considerable contribution to pollutant emissions. Cumulative impacts would be **less than significant** during construction and operation.

AQ-3) *Would the Proposed Project expose sensitive receptors to substantial pollutant concentrations?*

Air quality varies as a direct function of the amount of pollutants emitted into the atmosphere, the size and topography of the air basin, and the prevailing meteorological conditions. Air quality problems arise when the rate of pollutant emissions exceeds the rate of dispersion. Reduced visibility, eye irritation, and adverse health impacts upon those persons termed “sensitive receptors” are the most serious hazards of existing air quality conditions in the County. Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution, as identified by the SDAPCD (SDAPCD 2022), include children, the elderly, athletes, and people with cardiovascular and chronic respiratory diseases. As such, sensitive receptors include residences, schools, playgrounds, childcare centers, athletic facilities, long-term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes. The closest sensitive receptors to the Proposed Project are existing dormitories on site and residences adjacent to the property boundary.

Health Impacts of Toxic Air Contaminants

Health Risk

“Incremental cancer risk” is the net increased likelihood that a person continuously exposed to concentrations of TACs resulting from a project over a 9-, 30-, and 70-year exposure period would contract cancer based on the use of standard OEHHA risk-assessment methodology (OEHHA 2015). In addition, some TACs have noncarcinogenic effects.

TACs that would potentially be emitted by the Proposed Project during construction activities would be DPM emitted from heavy-duty construction equipment and heavy-duty trucks. Heavy-duty construction equipment and diesel trucks are subject to CARB ATCMs to reduce DPM emissions.

According to the OEHHA, HRAs should be based on a 30-year exposure duration based on typical residency period; however, such assessments should be limited to the period/duration of activities associated with the project (OEHHA 2015). The duration of the Project’s proposed construction activities would be approximately 105 months. After proposed construction is completed, there would be emissions of DPM from maintenance and testing of the emergency generators.

An HRA was performed to evaluate the risk from diesel exhaust emissions on existing sensitive receptors from construction and operational activities. The HRA methodology was described in Section 2.4.2.3, and the detailed assessment is provided in Appendix A. Table 14 summarizes the results of the HRA for Proposed Project construction and operation.

Table 14. Health Risk Assessment Results

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Cancer Risk – On Site	Per Million	0.4	10.0	Less than Significant
Chronic Non-Cancer Risk – On Site	Not Applicable	0.01	1.0	Less than Significant
Cancer Risk – Off Site	Per Million	7.4	10.0	Less than Significant

Table 14. Health Risk Assessment Results

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Chronic Non-Cancer Risk – Off Site	Not Applicable	0.01	1.0	Less than Significant

Source: Appendix A.

Notes: CEQA = California Environmental Quality Act.

The results of the HRA demonstrate that the TAC exposure from construction and operational diesel exhaust emissions would result in cancer risk (on site and off site) below the 10 in 1 million threshold, as well as a chronic non-cancer hazard risk of less than 1.0. Therefore, TAC emissions from construction and operation of the Proposed Project would not potentially expose sensitive receptors to substantial pollutant concentrations and would result in an impact that is **less than significant**.

Health Impacts of Carbon Monoxide

Mobile-source (vehicular) CO impacts occur regionally and locally. According to the Project’s Transportation Impact Report (LLG 2024), the average daily trips and VMT for the Proposed Project would be reduced compared to the existing scenario. Therefore, Project-related travel would not exacerbate regional traffic impacts within the local airshed and the SDAB. Locally, Project-related traffic would be nominal and can be reasonably considered to be a negligible change to the City’s roadway system. With this said, if traffic were to occur during periods of poor atmospheric ventilation, consist of a large number of vehicles “cold-started” and operating at pollution-inefficient speeds, and operate on roadways already crowded with non-Project traffic, there would be a potential for the formation of microscale CO “hotspots” in the area immediately around points of congested traffic. Because of continued improvement in mobile emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SDAB is steadily decreasing.

Projects contributing to adverse traffic impacts may result in the formation of CO hotspots. To verify that the Proposed Project would not cause or contribute to a violation of the CO standard, a screening evaluation of the potential for CO hotspots was conducted. As discussed earlier in this section, the Proposed Project would result in a net reduction in daily trips associated with the students. Therefore, there would not be anticipated to be a reduction in level of service in intersections around the Project site. As such, a CO hotspot analysis is not needed, and the Proposed Project would have a **less-than-significant impact**.

Valley Fever Exposure

As discussed in Section 2.1.2.2, valley fever is not highly endemic to San Diego County, and the incidence rate in the Project area is below the County average and the statewide average. Construction of the Proposed Project would comply with SDAPCD Rule 55, which limits the amount of fugitive dust generated during construction. Strategies the Project would implement to comply with SDAPCD Rule 55 and control dust include watering two times per day and limiting speed on unpaved roads to 15 mph. Based on the low incidence rate of Coccidioidomycosis in the Project area and in greater San Diego County, as well as the Proposed Project’s implementation of dust control strategies, it is not anticipated that earth-moving activities during Proposed Project construction would result in exposure of nearby sensitive receptors to valley fever. During operation, there would be no ground disturbance or

grading to generate fugitive dust. Therefore, the Proposed Project would have a **less-than-significant impact** with respect to valley fever exposure for sensitive receptors.

Health Impacts of Other Criteria Air Pollutants

As shown above, construction and operation of the Proposed Project would not result in emissions that exceed the SDAPCD's emission thresholds for any criteria air pollutants. The SDAPCD emission thresholds were developed to show levels at which a project would not prevent or interfere with the attainment or maintenance of an ambient air quality standard. As the ambient air quality standards define the maximum amount of a pollutant averaged over a specified period of time that can be present in outdoor air without harm to the public's health, by not exceeding the SDAPCD emission thresholds, the Project would not be causing harm to public health. Regarding VOCs, some VOCs are associated with motor vehicles and construction equipment, while others are associated with architectural coatings, the emissions of which would not result in the exceedances of the SDAPCD's thresholds. Generally, the VOCs in architectural coatings are of relatively low toxicity. Additionally, SDAPCD Rule 67.0.1 restricts the VOC content of coatings for both construction and operational applications.

Regarding VOCs and NO_x, these pollutants are precursors to O₃, for which the SDAB is designated as nonattainment with respect to the NAAQS and CAAQS (the SDAB is designated by EPA as a nonattainment area for the 8-hour O₃ NAAQS and CAAQS standards and the 1-hour CAAQS standard). The health effects associated with O₃, as discussed in Section 2.1.2, Pollutants and Effects, are generally associated with reduced lung function. The contribution of VOCs and NO_x to regional ambient O₃ concentrations is the result of complex photochemistry. The increases in O₃ concentrations in the SDAB due to O₃ precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O₃ concentrations would also depend on the time of year that the VOC emissions would occur, because exceedances of the O₃ ambient air quality standards tend to occur between April and October when solar radiation is highest.

Regarding NO₂, according to the construction emissions analysis, construction of the Proposed Project would not contribute to exceedances of the NAAQS and CAAQS for NO₂. As described in Section 2.1.2, health impacts from exposure to NO₂ and NO_x are associated with respiratory irritation, which may be experienced by nearby receptors during the periods of heaviest use of off-road construction equipment. However, these heaviest increments of use would be intermittent during the Project's construction period. Additionally, off-road construction equipment would operate at various portions of the site and would not be concentrated in one portion of the site at any one time. Construction of the Proposed Project also would not require any stationary emission sources that would create substantial, localized NO_x impacts.

In summary, the Proposed Project's VOC and NO_x emissions, as described previously, would minimally contribute to regional O₃ concentrations and its associated health effects. In addition to O₃, NO_x emissions would not contribute to potential exceedances of the NAAQS and CAAQS for NO₂. As shown in Table 3, the existing NO₂ concentrations in the area are well below the NAAQS and CAAQS standards. Thus, it is not expected that the Proposed Project's operational NO_x emissions would result in exceedances of the NO₂ standards or contribute to the associated health effects. CO tends to be a localized impact associated with congested intersections. The associated CO "hotspots" were discussed previously as a less-than-significant impact. Thus, the Proposed Project's CO emissions would not contribute to significant health effects associated with this pollutant. Likewise, PM₁₀ and PM_{2.5} would not contribute to potential exceedances of the NAAQS and CAAQS for particulate matter, would not obstruct the SDAB from coming into attainment for these pollutants, and would not contribute to significant health effects associated with particulates.

Based on the preceding considerations, health impacts associated with criteria air pollutants would be **less than significant**.

AQ-4) *Would the Proposed Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?*

Section 41700 of the California Health and Safety Code and SDAPCD Rule 51 (Public Nuisance) prohibit 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. Projects required to obtain permits from SDAPCD are evaluated by SDAPCD staff for potential odor nuisance, and conditions may be applied (or control equipment required) where necessary to prevent occurrence of public nuisance.

SDAPCD Rule 51 (Public Nuisance) also 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. Odor issues are very subjective by the nature of odors themselves and since their measurements are difficult to quantify. As a result, this guideline is qualitative and will focus on the existing and potential surrounding uses and location of sensitive receptors.

The occurrence and severity of potential odor impacts depends on numerous factors: the nature, frequency, and intensity of the source; the wind speeds and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying, cause distress among the public, and generate citizen complaints.

Construction

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

Operation

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). The Proposed Project includes a dining commons on the Peninsula Component site, otherwise it is all residential. Therefore, Proposed Project operations would result in an odor impact that would be **less than significant**.

3 Greenhouse Gas Emissions

3.1 Environmental Setting

3.1.1 Climate Change Overview

Climate change refers to any significant change in measures of climate—such as temperature, precipitation, or wind patterns—lasting for an extended period of time (decades or longer). The Earth’s temperature depends on the balance between energy entering and leaving the planet’s system. Many factors, both natural and human, can cause changes in Earth’s energy balance, including variations in the Sun’s energy reaching Earth, changes in the reflectivity of Earth’s atmosphere and surface, and changes in the greenhouse effect, which affects the amount of heat retained by Earth’s atmosphere (EPA 2017a).

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

The scientific record of the Earth’s climate shows that the climate system varies naturally over a wide range of time scales and that, in general, climate changes prior to the Industrial Revolution in the 1700s can be explained by natural causes, such as changes in solar energy, volcanic eruptions, and natural changes in GHG concentrations. However, recent climate changes, particularly the warming observed over the past century, cannot be explained by natural causes alone. Rather, it is extremely likely that human activities have been the dominant cause of that warming since the mid-20th century and are the most significant driver of observed climate change (EPA 2017a; IPCC 2013). Human influence on the climate system is evident from the increasing GHG concentrations in the atmosphere, positive radiative forcing, observed warming, and improved understanding of the climate system (IPCC 2013). The atmospheric concentrations of GHGs have increased to levels unprecedented in the last 800,000 years, primarily from fossil fuel emissions and secondarily from emissions associated with land use changes (IPCC 2013). Continued emissions of GHGs will cause further warming and changes in all components of the climate system as discussed further in Section 3.3.2, Potential Effects of Climate Change.

3.1.2 Greenhouse Gases

A GHG is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. GHGs include, but are not limited to, carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), O₃, water vapor, hydrofluorocarbons (HFCs), hydrochlorofluorocarbons (HCFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆).⁵ Some GHGs—such as CO₂, CH₄, and N₂O—are emitted to the atmosphere through both natural processes and human activities. Of these gases, CO₂ and CH₄ are emitted in the greatest quantities from human

⁵ California Health and Safety Code Section 38505 identifies seven GHGs that CARB is responsible for monitoring and regulating to reduce emissions: CO₂, CH₄, N₂O, SF₆, HFCs, PFCs, and nitrogen trifluoride.

activities. Manufactured GHGs, which have a much greater heat-absorption potential than CO₂, include fluorinated gases (e.g., HFCs, HCFCs, PFCs, and SF₆) and are associated with certain industrial products and processes. A summary of the most common GHGs and their sources is included in the following text.⁶ Also included is a discussion of other climate-forcing substances.

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

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

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

Fluorinated Gases. Fluorinated gases (also referred to as F-gases) are synthetic powerful GHGs emitted from many industrial processes. Fluorinated gases are commonly used as substitutes for stratospheric O₃-depleting substances (e.g., chlorofluorocarbons [CFCs], HCFCs, and halons). The most prevalent fluorinated gases include the following:

- **Hydrofluorocarbons:** HFCs are compounds containing only hydrogen, fluorine, and carbon atoms. HFCs are synthetic chemicals used as alternatives to O₃-depleting substances in serving many industrial, commercial, and personal needs. HFCs are emitted as byproducts of industrial processes and are used in manufacturing.
- **Perfluorocarbons:** PFCs are a group of human-made chemicals composed of carbon and fluorine only. These chemicals were introduced as alternatives, along with HFCs, to O₃-depleting substances. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing. Since PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere, these chemicals have long lifetimes, ranging between 10,000 and 50,000 years.
- **Sulfur Hexafluoride:** SF₆ is a colorless gas that is soluble in alcohol and ether and slightly soluble in water. SF₆ is used for insulation in electric power transmission and distribution equipment, semiconductor manufacturing, the magnesium industry, and as a tracer gas for leak detection.
- **Nitrogen Trifluoride:** Nitrogen trifluoride is used in the manufacture of a variety of electronics, including semiconductors and flat panel displays.

⁶ The descriptions of GHGs are summarized from the Intergovernmental Panel on Climate Change's (IPCC) Second Assessment Report (1995), IPCC Fourth Assessment Report (2007), CARB's Glossary of Terms Used in GHG Inventories (CARB 2016a), and EPA's Glossary of Climate Change Terms (EPA 2016e).

Chlorofluorocarbons. CFCs are synthetic chemicals that have been used as cleaning solvents, refrigerants, and aerosol propellants. CFCs are chemically unreactive in the lower atmosphere (troposphere), and the production of CFCs was prohibited in 1987 due to the chemical destruction of stratospheric O₃.

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

Black Carbon. Black carbon is a component of fine particulate matter (PM_{2.5}), which has been identified as a leading environmental risk factor for premature death. It is produced from the incomplete combustion of fossil fuels and biomass burning, particularly from older diesel engines and forest fires. Black carbon warms the atmosphere by absorbing solar radiation, influences cloud formation, and darkens the surface of snow and ice, which accelerates heat absorption and melting. Black carbon is short lived and varies spatially, which makes it difficult to quantify its global warming potential (GWP). DPM emissions are a major source of black carbon and are TACs that have been regulated and controlled in California for several decades to protect public health. In relation to declining DPM from CARB's regulations pertaining to diesel engines, diesel fuels, and burning activities, CARB estimates that annual black carbon emissions in California have reduced by 70% between 1990 and 2010, with 95% control expected by 2020 (CARB 2014a).

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

Ozone. Tropospheric O₃, which is created by photochemical reactions involving gases from both natural sources and human activities, acts as a GHG. Stratospheric O₃, created by the interaction between solar ultraviolet radiation and molecular oxygen, plays a decisive role in the stratospheric radiative balance. Depletion of stratospheric O₃, due to chemical reactions that may be enhanced by climate change, results in an increased ground-level flux of ultraviolet-B radiation.

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

3.1.3 Global Warming Potential

Gases in the atmosphere can contribute to climate change both directly and indirectly. Direct effects occur when the gas itself absorbs radiation. Indirect radiative forcing occurs when chemical transformations of the substance produce other GHGs, when a gas influences the atmospheric lifetimes of other gases, and/or when a gas affects atmospheric processes that alter the radiative balance of the Earth (e.g., affect cloud formation or albedo) (EPA 2016e). The Intergovernmental Panel on Climate Change developed the GWP concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP of a GHG is defined as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram of a trace substance relative to that

of 1 kilogram of a reference gas (IPCC 2014). The reference gas used is CO₂; therefore, GWP-weighted emissions are measured in metric tons (MT) of carbon dioxide equivalent (CO₂e).

The current version of CalEEMod (Version 2022.1.1.28) utilizes 25 as the GWP for CH₄ (so emissions of 1 MT of CH₄ are equivalent to emissions of 25 MT of CO₂), and 298 as the GWP for N₂O, based on the Intergovernmental Panel on Climate Change Fourth Assessment Report (IPCC 2007). The GWP values identified in CalEEMod were applied to the Proposed Project.

3.2 Regulatory Setting

3.2.1 Federal Regulations

Massachusetts v. EPA

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

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

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

Energy Independence and Security Act

The Energy Independence and Security Act of 2007 (EISA) (December 2007), among other key measures, would do the following, which would aid in the reduction of national GHG emissions (EPA 2007):

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

Federal Vehicle Standards

NHTSA's Corporate Average Fuel Economy standards regulate how far vehicles must travel on a gallon of fuel. NHTSA sets Corporate Average Fuel Economy standards for passenger cars and for light trucks (collectively, light-duty vehicles) and separately sets fuel consumption standards for medium- and heavy-duty trucks and engines. NHTSA also regulates the fuel-economy window stickers on new vehicles. The Corporate Average Fuel Economy standards are developed for a range of model years at a time. The most recent proposal for light-duty vehicles is for model years 2027–2031 and for heavy-duty pickup trucks and vans for model years 2030–2035.

The Clean Air Act allows California to seek a waiver of the preemption, which prohibits states from enacting emission standards for new motor vehicles. EPA must grant a waiver, however, before California's rules may be enforced. When California files a waiver request, EPA publishes a notice for public hearing and written comment in the Federal Register. The written comment period remains open for a period of time after the public hearing. Once the comment period expires, EPA reviews the comments and the administrator determines whether the requirements for obtaining a waiver have been met. California has petitioned for a waiver to implement more stringent vehicle emission standards from EPA since 1998 and continues to do so. In 2019, during the first Trump administration, EPA and NHTSA published the Safer Affordable Fuel-Efficient Vehicles Rule Part One: One National Program (SAFE-1) (84 Fed. Reg. 51310), which revoked California's authority to set its own GHG emissions standards and set zero-emission vehicle (ZEV) mandates in California. In March 2020, Part Two was issued by EPA and NHTSA, which set CO₂ emissions standards and corporate average fuel economy standards for passenger vehicles and light-duty trucks for model years 2021 through 2026.

In March 2022, during the Biden administration, EPA reinstated California's authority under the Clean Air Act to implement its own GHG emission standards and ZEV sales mandate. EPA also concluded that the actions taken under the previous administration as a part of SAFE-1 were decided in error and, therefore, rescinded SAFE-1.

3.2.2 State Regulations

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

California Climate Change Targets

Executive Order S-3-05

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

Assembly Bill 32 and CARB's Climate Change Scoping Plan

In furtherance of the goals established in EO S-3-05, the legislature enacted AB 32, the California Global Warming Solutions Act of 2006. AB 32 requires California to reduce its GHG emissions to 1990 levels by 2020. Under AB 32, CARB is responsible for and is recognized as having the expertise to carry out and develop the programs and requirements necessary to achieve the GHG emissions reduction mandate of AB 32. Under AB 32, CARB must adopt regulations requiring the reporting and verification of statewide GHG emissions from specified sources. This

program is used to monitor and enforce compliance with established standards. CARB also is required to adopt rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emission reductions. AB 32 relatedly authorized CARB to adopt market-based compliance mechanisms to meet the specified requirements. Finally, CARB is ultimately responsible for monitoring compliance and enforcing any rule, regulation, order, emission limitation, emission reduction measure, or market-based compliance mechanism adopted.

In 2007, CARB approved a limit on the statewide GHG emissions level for the year 2020 consistent with the determined 1990 baseline (427 million metric tons [MMT] CO₂e). CARB's adoption of this limit is in accordance with the California Health and Safety Code, Section 38550.

Further, in 2008, CARB adopted the Climate Change Scoping Plan: A Framework for Change (Scoping Plan) in accordance with California Health and Safety Code, Section 38561. The Scoping Plan establishes an overall framework for the measures that would be adopted to reduce California's GHG emissions for various emission sources/sectors to 1990 levels by 2020 (CARB 2008). The Scoping Plan evaluates opportunities for sector-specific reductions, integrates all CARB and Climate Action Team early actions and additional GHG reduction features by both entities, identifies additional measures to be pursued as regulations, and outlines the role of a cap-and-trade program. The key elements of the Scoping Plan include the following (CARB 2008):

1. Expanding and strengthening existing energy efficiency programs as well as building and appliance standards.
2. Achieving a statewide renewable energy mix of 33%.
3. Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system and caps sources contributing 85% of California's GHG emissions.
4. Establishing targets for transportation-related GHG emissions for regions throughout California and pursuing policies and incentives to achieve those targets.
5. 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.
6. Creating targeted fees, including a public goods charge on water use, fees on high GWP gases, and a fee to fund the administrative costs of the State of California's long-term commitment to AB 32 implementation.

In the Scoping Plan, CARB determined that achieving the 1990 emissions level in 2020 would require a reduction in GHG emissions of approximately 29% from the otherwise projected 2020 emissions level (i.e., those emissions that would occur in 2020, absent GHG-reducing laws and regulations [referred to as "business-as-usual"]). For purposes of calculating this percent reduction, CARB assumed that all new electricity generation would be supplied by natural gas plants, no further regulatory action would impact vehicle fuel efficiency, and building energy efficiency codes would be held at 2005 standards.

In the 2011 Final Supplement to the Scoping Plan's Functional Equivalent Document (Final Supplement), CARB revised its estimates of the projected 2020 emissions level in light of the economic recession and the availability of updated information about GHG-reduction regulations. Based on the new economic data, CARB determined that achieving the 1990 emissions level by 2020 would require a reduction in GHG emissions of 22% (down from 29%) from the business-as-usual conditions. When the 2020 emissions level projection was updated to account for newly implemented regulatory measures, CARB determined that achieving the 1990 emissions level in 2020 would require a reduction in GHG emissions of 16% (down from 29%) from the business-as-usual conditions.

In 2014, CARB adopted the First Update to the Climate Change Scoping Plan: Building on the Framework (First Update). The stated purpose of the First Update is to “highlight California’s success to date in reducing its GHG emissions and lay the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80% below 1990 levels by 2050” (CARB 2014b). The First Update found that California is on track to meet the 2020 emissions reduction mandate established by AB 32, and noted that California could reduce emissions further by 2030 to levels squarely in line with those needed to stay on track to reduce emissions to 80% below 1990 levels by 2050 if the state realizes the expected benefits of existing policy goals.

In conjunction with the First Update, CARB identified “six key focus areas comprising major components of the state’s economy to evaluate and describe the larger transformative actions that will be needed to meet the state’s more expansive emission reduction needs by 2050.” Those six areas are energy, transportation (e.g., vehicles/equipment, sustainable communities, housing, fuels, infrastructure), agriculture, water, waste management, and natural and working lands. The First Update identifies key recommended actions for each sector that will facilitate achievement of EO S-3-05’s 2050 reduction goal (CARB 2014b).

Based on CARB’s research efforts presented in the First Update, it has a “strong sense of the mix of technologies needed to reduce emissions through 2050.” Those technologies include energy demand reduction through efficiency and activity changes; large-scale electrification of on-road vehicles, buildings, and industrial machinery; decarbonizing electricity and fuel supplies; and the rapid market penetration of efficient and clean energy technologies (CARB 2014b).

As part of the First Update, CARB recalculated the state’s 1990 emissions level using more recent GWPs identified by the Intergovernmental Panel on Climate Change. Using the recalculated 1990 emissions level (431 MMT CO₂e) and the revised 2020 emissions level projection identified in the 2011 Final Supplement, CARB determined that achieving the 1990 emissions level by 2020 would require a reduction in GHG emissions of approximately 15% (instead of 29% or 16%) from the business-as-usual conditions (CARB 2014b).

In December 2017, CARB adopted the 2017 Climate Change Scoping Plan Update (Second Update) (CARB 2017). This update identifies CARB’s strategy for achieving the state’s 2030 GHG target as established in SB 32 (discussed below), including continuing the cap-and-trade program through 2030. The Second Update incorporated approaches to cutting short-lived climate pollutants (SLCPs) under the SLCP Reduction Strategy (adopted by CARB in March 2017), acknowledged the need for reducing emissions in agriculture, and highlighted the work underway to ensure that California’s natural and working lands increasingly sequester carbon. When discussing project-level GHG emissions-reduction actions and thresholds, the Second Update stated, “Achieving net zero increases in GHG emissions, resulting in no contribution to GHG impacts, may not be feasible or appropriate for every project, however, and the inability of a project to mitigate its GHG emissions to net zero does not imply the project results in a substantial contribution to the cumulatively significant environmental impact of climate change under CEQA” (CARB 2017).

The most recent update adopted by CARB in November 2022, the 2022 Scoping Plan, outlines the state’s plan to reduce emissions and achieve carbon neutrality by 2045 in alignment with AB 1279 and assesses progress toward the 2030 SB 32 target (CARB 2022). The 2022 Scoping Plan builds upon and accelerates programs currently in place, including moving to zero-emission transportation; phasing out use of fossil gas use for heating homes and buildings; reducing chemical and refrigerants with high global warming potential; providing communities with sustainable options for walking, biking, and public transit; and displacement of fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines) (CARB 2022). Appendix D of the

2022 Scoping Plan outlines local actions that residential and mixed-use projects can implement to address their largest sources of emissions including transportation electrification, VMT reduction, and building decarbonization. CARB identifies these three sources as “Priority Areas” given that they represent those with the highest GHG reduction potential and GHG reduction opportunities for which local governments and agencies have the most authority (CARB 2022). The 2045 carbon neutrality goal required CARB to expand proposed actions in the 2022 Scoping Plan to include those that capture and store carbon in addition to those that reduce only human-caused sources of GHG emissions.

Many of the measures and programs included in the 2022 Scoping Plan would result in the reduction of Project-related GHG emissions with no action required at the project-level, including GHG emission reductions through increased energy efficiency and renewable energy production (SB 350), reduction in carbon intensity of transportation fuels (low carbon fuel strategy), and the accelerated efficiency and electrification of the statewide vehicle fleet (Mobile Source Strategy). Of note, the 2022 Scoping Plan emphasizes that reliance on carbon sequestration in the state’s natural and working lands will not be sufficient to address residual GHG emissions, and achieving carbon neutrality will require research, development, and deployment of additional methods to capture atmospheric GHG emissions (e.g., mechanical direct air capture).

Executive Order B-30-15

EO B-30-15 (April 2015) identified an interim GHG reduction target in support of targets previously identified under EO S-3-05 and AB 32. EO B-30-15 set an interim target goal of reducing statewide GHG emissions to 40% below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing statewide GHG emissions to 80% below 1990 levels by 2050, as set forth in EO S-3-05.

Senate Bill 32 and Assembly Bill 197

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

Senate Bill 605 and Senate Bill 1383

SB 605 (2014) required CARB to complete a comprehensive strategy to reduce emissions of SLCPs in the state; SB 1383 (2016) required CARB to approve and implement the SLCP Reduction Strategy. SB 1383 also established specific targets for the reduction of SLCPs (40% below 2013 levels by 2030 for CH₄ and HFCs and 50% below 2013 levels by 2030 for anthropogenic black carbon) and provided direction for reductions from dairy and livestock operations and landfills. Accordingly, and as mentioned above, CARB adopted its SLCP Reduction Strategy in March

2017, which established a framework for the statewide reduction of emissions of black carbon, CH₄, and fluorinated gases.

Executive Order B-55-18

EO B-55-18 (September 2018) established a new statewide goal “to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter.” This executive order directed CARB to “work with relevant state agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal.”

Assembly Bill 1279

AB 1279 (2022) establishes that it is the policy of the state to achieve carbon neutrality as soon as possible, but no later than 2045; to maintain net negative GHG emissions thereafter; and to ensure that, by 2045, statewide anthropogenic GHG emissions are reduced to at least 85% below 1990 levels. The 2022 Scoping Plan summarized above addresses AB 1279.

Building Energy

Title 24, Part 6 of the California Code of Regulations

Title 24 of the California Code of Regulations was established in 1978 and serves to enhance and regulate California’s building standards. While not initially promulgated to reduce GHG emissions, Part 6 of Title 24 specifically establishes Building Energy Efficiency Standards that are designed to ensure new and existing buildings in California achieve energy efficiency and preserve outdoor and indoor environmental quality. These energy efficiency standards are reviewed every few years by the Building Standards Commission and the California Energy Commission (CEC) (and revised if necessary) (California Public Resources Code, Section 25402[b][1]). The regulations receive input from members of industry, as well as the public, with the goal of “reducing of wasteful, uneconomic, inefficient, or unnecessary consumption of energy” (California Public Resources Code, Section 25402). These regulations are carefully scrutinized and analyzed for technological and economic feasibility (California Public Resources Code, Section 25402[d]), and cost effectiveness (California Public Resources Code, Sections 25402[b][2] and [b][3]). These standards are updated to consider and incorporate new energy efficient technologies and construction methods. As a result, these standards save energy, increase electricity supply reliability, increase indoor comfort, avoid the need to construct new power plants, and help preserve the environment. The 2022 standards went into effect on January 1, 2023. The 2025 standards are under development as of the writing of this section; if adopted, those standards are anticipated to go into effect on January 1, 2026.

Title 24, Part 11 of the California Code of Regulations

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

went into effect on January 1, 2023. The 2025 CALGreen standards are under development as of the writing of this section; if adopted, those standards are anticipated to go into effect on January 1, 2026.

Title 20 of the California Code of Regulations

Title 20 of the California Code of Regulations requires manufacturers of appliances to meet state and federal standards for energy and water efficiency. Performance of appliances must be certified through the CEC to demonstrate compliance with standards. New appliances regulated under Title 20 include refrigerators, refrigerator-freezers, and freezers; room air conditioners and room air-conditioning heat pumps; central air conditioners; spot air conditioners; vented gas space heaters; gas pool heaters; plumbing fittings and plumbing fixtures; fluorescent lamp ballasts; lamps; emergency lighting; traffic signal modules; dishwashers; clothes washers and dryers; cooking products; electric motors; low voltage dry-type distribution transformers; power supplies; televisions and consumer audio and video equipment; and battery charger systems. Title 20 presents protocols for testing for each type of appliance covered under the regulations, and appliances must meet the standards for energy performance, energy design, water performance, and water design. Title 20 contains three types of standards for appliances: federal and state standards for federally regulated appliances, state standards for federally regulated appliances, and state standards for non-federally regulated appliances.

Renewable Energy and Energy Procurement

SB 1078, SBX1-2, SB 350, and SB 100

SB 1078 (September 2002) established the state's Renewables Portfolio Standard program and required an annual increase in renewable generation by utilities equivalent to at least 1% of sales, with an aggregate goal of 20% by 2017. SB X1-2 expanded the Renewable Portfolio Standard by establishing a renewable energy target of 20% of the total electricity sold to retail customers in California per year be sourced from eligible renewable sources by December 31, 2013, and 33% by December 31, 2020, and in subsequent years. SB 350 (October 2015) further expanded the Renewable Portfolio Standard by establishing a goal of 50% of the total electricity sold to retail customers in California per year by December 31, 2030. SB 100 (2018) increased the standards set forth in SB 350 establishing that 44% of the total electricity sold to retail customers in California per year by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030, be secured from qualifying renewable energy sources. SB 100 also states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of the retail sales of electricity to California.

Mobile Sources

Low Carbon Fuel Standard

CARB's Low Carbon Fuel Standard program is designed to decrease the carbon intensity of California's transportation fuel pool and provide a range of low-carbon and renewable fuel alternatives. CARB's implementing regulations originally were adopted in 2009, with the most recent program amendments approved in 2018. As most recently amended, the Low Carbon Fuel Standard program sets carbon intensity benchmarks for transportation fuels through calendar year 2030.

Senate Bill 375

SB 375 (2008) addresses GHG emissions associated with the transportation sector through regional transportation and sustainability plans. SB 375 required CARB to adopt regional GHG reduction targets for the automobile and light-truck sector for 2020 and 2035. Regional metropolitan planning organizations were then responsible for preparing an SCS within their Regional Transportation Plan (RTP). The goal of the SCS is to establish a forecasted development pattern for the region that, after considering transportation measures and policies, would achieve, if feasible, the GHG reduction targets. If an SCS is unable to achieve the GHG reduction target, a metropolitan planning organization must prepare an Alternative Planning Strategy demonstrating how the GHG reduction target would be achieved through alternative development patterns, infrastructure, or additional transportation measures or policies.

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

SANDAG adopted its most recent RTP/SCS, the 2021 Regional Plan, in December 2021. The 2021 Regional Plan provides a long-term blueprint for the San Diego region that seeks to meet regulatory requirements, address traffic congestion, and create equal access to jobs, education, healthcare, and other community resources (SANDAG 2021). The plan is the result of years of planning, data analysis, and community engagement to reimagine the San Diego region with a transformative transportation system, a sustainable pattern of growth and development, and innovative demand and management strategies.

The 2021 Regional Plan's SCS describes coordinated transportation and land use planning that exceeds the state's target for reducing per capita GHG emissions set by CARB. The state-mandated target is a 19% reduction—compared with 2005—in per capita GHG emissions from cars and light-duty trucks by 2035. The 2021 Regional Plan achieves a 20% reduction by then.

The 2021 Regional Plan also puts forth a forecasted development pattern driven by regional goals for sustainability, mobility, housing affordability, and economic prosperity.

Advanced Clean Cars Program and Zero-Emissions Vehicle Program

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

CARB's ACC II program established the next set of low-emission vehicle and ZEV requirements for model years after 2025 to contribute to meeting federal ambient air quality O₃ standards and California's carbon neutrality standards (CARB 2021a). The main objectives of ACC II are as follows:

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

An ACC II rulemaking package, which considered technological feasibility, environmental impacts, equity, economic impacts, and consumer impacts, was adopted by CARB on November 30, 2022.

Advanced Clean Trucks Regulation

The Advanced Clean Trucks Regulation was approved by CARB in 2020. The purpose of the Advanced Clean Trucks Regulation is to accelerate the market for zero-emission vehicles in the medium- and heavy-duty truck sector and to reduce air pollutant emissions generated from on-road mobile sources (CARB 2021b). The regulation has two components including a manufacturer sales requirement and a reporting requirement:

- **Zero-emission truck sales:** Manufacturers who certify Class 2b-8 chassis or complete vehicles with combustion engines will be required to sell zero-emission trucks as an increasing percentage of their annual California sales from 2024 to 2035. By 2035, zero-emission truck/chassis sales would need to be 55% of Class 2b-3 truck sales, 75% of Class 4-8 straight truck sales, and 40% of truck tractor sales.
- **Company and fleet reporting:** Large employers including retailers, manufacturers, brokers, and others will be required to report information about shipments and shuttle services. Fleet owners, with 50 or more trucks, will be required to report about their existing fleet operations. This information will help identify future strategies to ensure that fleets purchase available zero-emission trucks and place them in service where suitable to meet their needs.

Senate Bill 350

In 2015, SB 350—the Clean Energy and Pollution Reduction Act—was enacted into law. As one of its elements, SB 350 established a statewide policy for widespread electrification of the transportation sector, recognizing that such electrification is required for achievement of the state's 2030 and 2050 reduction targets (see California Public Utilities Code, Section 740.12).

Executive Order B-48-18

EO B-48-18 (2018) launched an 8-year initiative to accelerate the sale of EVs through a mix of rebate programs and infrastructure improvements. The order also set a new EV target of 5 million EVs in California by 2030. EO B-48-18 included funding for multiple state agencies, including the CEC, to increase EV charging infrastructure and for CARB to provide rebates for the purchase of new EVs and purchase incentives for low-income customers.

Solid Waste

Assembly Bill 939 and Assembly Bill 341

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

AB 341 (2011) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that it is the policy goal of the state that not less than 75% of solid waste generated be source-reduced, recycled, or composted by the year 2020, and annually thereafter. In addition, AB 341 required the California Department of Resources Recycling and Recovery to develop strategies to achieve the state's policy goal. The California Department of Resources Recycling and Recovery has conducted multiple workshops and published documents that identify priority strategies that it believes would assist the state in reaching the 75% goal by 2020 (CalRecycle 2015).

Water

Executive Order B-29-15

In response to the ongoing drought in California, EO B-29-15 (April 2015) set a goal of achieving a statewide reduction in potable urban water usage of 25% relative to water use in 2013. The term of the EO extended through February 28, 2016, although many of the directives have since become permanent water-efficiency standards and requirements. The EO includes specific directives that set strict limits on water usage in the state. In response to EO B-29-15, the California Department of Water Resources has modified and adopted a revised version of the Model Water Efficient Landscape Ordinance that, among other changes, significantly increases the requirements for landscape water use efficiency and broadens its applicability to include new development projects with smaller landscape areas.

Other State Regulations and Goals

Senate Bill 97

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

With respect to GHG emissions, CEQA Guidelines Section 15064.4(a) states that lead agencies should “make a good faith effort, to the extent possible on scientific and factual data, to describe, calculate or estimate” GHG emissions. The CEQA Guidelines note that an agency may identify emissions by either selecting a “model or methodology” to quantify the emissions or by relying on “qualitative analysis or performance based standards” (14 CCR 15064.4[a], [c]). Section 15064.4(b) states that the lead agency should consider the following when assessing the significance of impacts from GHG emissions on the environment: (1) the extent a project may increase or reduce GHG emissions as compared to the existing environmental setting; (2) whether project emissions exceed a threshold of significance that the lead agency determines applies to the project; and (3) the extent to which a project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]).

Executive Order S-13-08

EO S-13-08 (November 2008) is intended to hasten California’s response to the impacts of global climate change, particularly sea-level rise. Therefore, the EO directs state agencies to take specified actions to assess and plan for such impacts. The final 2009 California Climate Adaptation Strategy report was issued in December 2009 (CNRA 2009), and an update, Safeguarding California: Reducing Climate Risk, followed in July 2014 (CNRA 2014). To assess the state’s vulnerability, the report summarizes key climate change impacts to the state for the following areas: agriculture, biodiversity and habitat, emergency management, energy, forestry, ocean and coastal ecosystems and resources, public health, transportation, and water. Issuance of the Safeguarding California: Implementation Action Plans followed in March 2016 (CNRA 2016). In January 2018, the CNRA released the Safeguarding California Plan: 2018 Update, which communicates current and needed actions that state government should take to build climate change resiliency (CNRA 2018).

3.2.3 Local Regulations

3.2.3.1 San Diego Air Pollution Control District

The SDAPCD does not have established GHG rules, regulations, or policies.

3.2.3.2 The California State University Sustainability Policy

The California State University (CSU) Board of Trustees adopted its first systemwide Sustainability Policy in May 2014, and most recently revised the Sustainability Policy in May 2022. The Sustainability Policy was developed to integrate sustainability into all facets of the CSU, including academics, facilities operations, built environment, and student life. The Sustainability Policy focuses mainly on energy and GHG emissions, and largely aligns with the State of California’s energy and GHG emissions reduction goals (CSU 2022). It aims to reduce the environmental impact of construction and operation of buildings and to integrate sustainability across the curriculum through 11 broad policies, including University Sustainability; Climate Action Plan; Energy Resilience and Procurement; Energy Conservation, Carbon Reduction, and Utility Management; Water Conservation; Sustainable Procurement; Waste Management; Sustainable Food Service; Sustainable Building and Lands Practices; Physical Plant Management; and Transportation.

3.2.3.3 San Diego State University

On March 5, 2014, former SDSU President Elliot Hirshman signed Second Nature's American College and University Presidents' Climate Commitment to ensure SDSU's commitment to sustainability. Thereafter, the SDSU Climate Action Planning Council was formed to oversee the development of SDSU's climate and sustainability initiatives. The Council includes representation from administrators, staff, faculty, and students.

The SDSU Climate Action Planning Council encompasses a wide variety of efforts to steward the university's resources and reduce their environmental impact. Sustainability includes areas such as climate action, energy, water, waste reduction, transportation, food, green buildings, social responsibility, and academics.

The SDSU Climate Action Plan (CAP) was published in 2017 and provides a set of interim goals and strategies in order to achieve carbon neutrality and to improve sustainability efforts on campus (SDSU 2017). These strategies address operational efforts, engagement, and academics. SDSU has a goal of achieving campus carbon neutrality by 2050 and operational neutrality by 2040. Operational neutrality consists of emissions the university has direct control over, namely electricity and steam generation, energy purchases, and fuel used for university-owned vehicles. The SDSU CAP is not a qualified GHG reduction plan in accordance with CEQA Guidelines Section 15183.5 and, therefore, cannot be tiered from for purposes of determining the significance of an individual project's GHG emissions. SDSU is currently updating the 2017 CAP to be released in 2025.

The campus has undertaken plant optimization of the cogeneration facility, installation of several solar photovoltaic systems, and implementation of energy retrofits around campus. The campus has a trolley station and bus operation to provide a convenient and responsible way to commute around campus. There is also an extensive bike path network and Zipcar access for people to borrow cars as needed. The campus is committed to building green and has six buildings with the Leadership in Energy and Environmental Design (LEED) accreditation. SDSU also has committed academically to prepare students as sustainable stewards with both major and minor programs in various disciplines associated with environmental policy and science.

3.3 Greenhouse Gas Inventories and Climate Change Conditions

3.3.1 Sources of Greenhouse Gas Emissions

Global Inventory

GHG emissions worldwide in 2022 (the most recent year for which data is available) totaled approximately 53,786 MMT CO₂e, excluding land use change and forestry (Joint Research Centre 2023). Six countries—China, the United States, Russia, India, Japan, and Brazil—and the European community accounted for approximately 62% of the total global emissions, or approximately 33,124 MMT CO₂e (Joint Research Centre 2023). Table 15 presents the top GHG-emissions-producing countries and the European Union.

Table 15. Six Top GHG Producer Countries and the European Union

Emitting Countries	2022 GHG Emissions (MMT CO ₂ e) ^{a,b}
China	15,685
United States	6,017
India	3,943
European Union	3,588
Russia	2,580
Brazil	1,311
Total	33,124

Source: Joint Research Centre 2023.

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

^a Column may not add due to rounding.

^b GHG emissions do not include land use change and forestry-related GHG emissions.

National, State, and Campus Inventories

Per the 2024 EPA Inventory of U.S. GHG Emissions and Sinks: 1990–2022, total U.S. GHG emissions were approximately 6,343 MMT CO₂e in 2022 (EPA 2024c). The primary GHG emitted by human activities in the United States was CO₂, which represented approximately 79.7% of total GHG emissions (5,053 MMT CO₂e). The largest source of CO₂, and of overall GHG emissions, was fossil-fuel combustion, which accounted for approximately 93.0% of CO₂ emissions in 2022 (4,699 MMT CO₂e). Relative to the 1990 emissions level, gross U.S. GHG emissions in 2022 were 3.0% lower. GHG emissions increased from 2021 to 2022 by 0.2% (14.4 MMT CO₂e) and, overall, net emissions in 2022 were 15.4% below 2005 levels (EPA 2024c).

According to California’s 2000 through 2022 GHG emissions inventory (2024 edition), California emitted 371.1 MMT CO₂e in 2022, including emissions resulting from out-of-state electrical generation (CARB 2024c). The sources of GHG emissions in California include transportation, industry, electric power production from both in-state and out-of-state sources, residential and commercial activities, agriculture, high GWP substances, and recycling and waste. The California GHG emission source categories and their relative contributions in 2022 are presented in Table 16.

Table 16. GHG Emissions Sources in California

Source Category	Annual GHG Emissions (MMT CO ₂ e)	Percent of Total ^a
Transportation	139.9	37.7%
Industrial	72.7	19.6%
Electricity (in state)	42.2	11.4%
Electricity (imports)	17.5	4.7%
Agriculture	29.8	8.0%
Residential	24.7	6.6%
Commercial	14.8	4.0%
High global-warming potential substances	21.3	5.7%
Recycling and waste	8.2	2.2%
Total	371.1	100%

Source: CARB 2024c.

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

^a Column may not add due to rounding.

From 2000 to 2022, the carbon intensity of California’s economy decreased by 54.8% while the gross state product increased by 77.5%. California’s gross state product increased 0.7% in 2022. Emissions per gross state product declined by 3.1% from 2021 to 2022 (CARB 2024c).

SDSU prepared a GHG inventory in their 2017 CAP. The emission inventory year was fiscal year 2014/2015. The emissions and sources from this inventory are shown in Table 17.

Table 17. SDSU GHG Emissions Sources

Source Category	Annual GHG Emissions (MT CO ₂ e)	Percent of Total ^a
Student Commuting	11,577.41	30.8%
Co-gen Electricity	10,524.92	28.0%
Co-gen Steam	7,668.16	20.4%
Faculty/Staff Commuting	2,292.93	6.1%
Directly Financed Air Travel	1,766.68	4.7%
Other On-Campus Stationary	1,465.97	3.9%
Purchased Electricity	1,390.79	3.7%
Water and Wastewater	375.89	1%
Solid Waste	225.53	0.6%
Direct Transportation	225.53	0.6%
Other Directly Financed Travel	75.18	0.2%
Scope 2 T&D Losses	75.18	0.2%
Totals	37,589	100%

Source: SDSU 2017.

Notes: GHG = greenhouse gas; MT CO₂e = metric tons of carbon dioxide equivalent per year; T&D = transmission and distribution. Emissions reflect the 2017 SDSU GHG inventory.

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

3.3.2 Potential Effects of Climate Change

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

In California, climate change impacts have the potential to affect sea-level rise, agriculture, snowpack and water supply, forestry, wildfire risk, public health, and electricity demand and supply (CCCC 2006). The primary effect of global climate change has been a 0.2°C rise in average global tropospheric temperature per decade, determined from meteorological measurements worldwide between 1990 and 2005. Scientific modeling predicts that continued emissions of GHGs at or above current rates would induce more extreme climate changes during the 21st century than were observed during the 20th century. A warming of about 0.2°C (0.36°F) per decade is projected, and there are identifiable signs that global warming could be taking place.

Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. A scientific consensus confirms that climate change is already affecting California. The average temperatures in California have increased, leading to more extreme hot days and fewer cold nights; shifts in the water cycle have been observed, with less winter precipitation falling as snow, and both snowmelt and rainwater running off earlier in the year; sea levels have risen; and wildland fires are becoming more frequent and intense due to dry seasons that start earlier and end later (CAT 2010).

An increase in annual average temperature is a reasonably foreseeable effect of climate change. Observed changes over the last several decades across the western United States reveal clear signals of climate change. Statewide average temperatures increased by about 1.7°F from 1895 to 2011, and warming has been the greatest in the Sierra Nevada (CCCC 2012). By 2050, California is projected to warm by approximately 2.7°F above 2000 averages, a threefold increase in the rate of warming over the last century. By 2100, average temperatures could increase by 4.1°F to 8.6°F, depending on emissions levels. Springtime warming—a critical influence on snowmelt—will be particularly pronounced. Summer temperatures will rise more than winter temperatures, and the increases will be greater in inland California, compared to the coast. Heat waves will be more frequent, hotter, and longer. There will be fewer extremely cold nights (CCCC 2012). It is predicted that the Sierra snowpack, which accounts for approximately half of the surface water storage in California and much of the state’s water supply, will decline by 30% to as much as 90% over the next 100 years (CAT 2006).

Model projections for precipitation over California continue to show the Mediterranean pattern of wet winters and dry summers with seasonal, year-to-year, and decade-to-decade variability. For the first time, however, several of the improved climate models shift toward drier conditions by the mid-to-late 21st century in central and, most notably, Southern California. By late-century, all projections show drying, and half of them suggest 30-year average precipitation will decline by more than 10% below the historical average (CCCC 2012).

A summary of current and future climate change impacts to resource areas in California, as discussed in Safeguarding California: Reducing Climate Risk (CNRA 2014), is provided below.

Agriculture. The impacts of climate change on the agricultural sector are far more severe than the typical variability in weather and precipitation patterns that occur year to year. The agriculture sector and farmers face some specific challenges that include more drastic and unpredictable precipitation and weather patterns; extreme weather events that range from severe flooding and extreme drought to destructive storm events; significant shifts in water availability and water quality; changes in pollinator lifecycles; temperature fluctuations, including extreme heat stress and decreased chill hours; increased risks from invasive species and weeds, agricultural pests, and plant diseases; and disruptions to the transportation and energy infrastructure supporting agricultural production. These challenges and associated short-term and long-term impacts can have both positive and negative effects on agricultural production. Nonetheless, it is predicted that current crop and livestock production will suffer long-term negative effects resulting in a substantial decrease in the agricultural sector if climate change is not managed or mitigated.

Biodiversity and Habitat. The state’s extensive biodiversity stems from its varied climate and assorted landscapes, which have resulted in numerous habitats where species have evolved and adapted over time. Specific climate change challenges to biodiversity and habitat include species migration in response to climatic changes; range shift and novel combinations of species; pathogens, parasites, and disease; invasive species; extinction risks; changes in the timing of seasonal life-cycle events; food web disruptions; and threshold effects (i.e., a change in the ecosystem that results in a “tipping point” beyond which irreversible damage or loss has occurred). Habitat restoration, conservation, and resource management across California and through collaborative efforts among

public, private, and nonprofit agencies has assisted in the effort to fight climate change impacts on biodiversity and habitat. One of the key measures in these efforts is ensuring species' ability to relocate as temperature and water availability fluctuate as a result of climate change.

Energy. The energy sector provides California residents with a supply of reliable and affordable energy through a complex integrated system. Specific climate change challenges for the energy sector include temperature, fluctuating precipitation patterns, increasing extreme weather events, and sea-level rise. Increasing temperatures and reduced snowpack negatively impact the availability of a steady flow of snowmelt to hydroelectric reservoirs. Higher temperatures also reduce the capacity of thermal power plants since power plant cooling is less efficient at higher ambient temperatures. Increased temperatures will also increase electricity demand associated with air conditioning. Natural gas infrastructure in coastal California is threatened by sea-level rise and extreme storm events.

Forestry. Forests occupy approximately 33% of California's 100 million acres and provide key benefits, such as wildlife habitat, absorption of CO₂, renewable energy, and building materials. The most significant climate change-related risks to forests are accelerated risk of wildfire and more frequent and severe droughts. Droughts have resulted in more large-scale forest mortalities and, combined with increasing temperatures, have led to an overall increase in wildfire risks. Increased wildfire intensity subsequently increases public safety risks, property damage, fire suppression and emergency response costs, watershed and water quality impacts, and vegetation conversions. These factors contribute to decreased forest growth, geographic shifts in tree distribution, loss of fish and wildlife habitat, and decreased carbon absorption. Climate change may result in increased establishment of non-native species, particularly in rangelands where invasive species are already a problem. Invasive species may be able to exploit temperature or precipitation changes or quickly occupy areas denuded by fire, insect mortality, or other climate change effects on vegetation.

Ocean and Coastal Ecosystems and Resources. Sea-level rise, changing ocean conditions, and other climate change stressors are likely to exacerbate long-standing challenges related to ocean and coastal ecosystems in addition to threatening people and infrastructure located along the California coastline and in coastal communities. Sea-level rise, in addition to more frequent and severe coastal storms and erosion, is threatening vital infrastructure, such as roads, bridges, power plants, ports and airports, gasoline pipes, and emergency facilities, as well as negatively impacting the coastal recreational assets, such as beaches and tidal wetlands. Water quality and ocean acidification threaten the abundance of seafood and other plant and wildlife habitats throughout California and globally.

Public Health. Climate change can impact public health through various environmental changes and is the largest threat to human health in the 21st century. Changes in precipitation patterns affect public health primarily through potential for altered water supplies and extreme events, such as heat, floods, droughts, and wildfires. Increased frequency, intensity, and duration of extreme heat and heat waves is likely to increase the risk of mortality due to heat-related illness, as well as exacerbate existing chronic health conditions. Other extreme weather events are likely to negatively impact air quality and increase or intensify respiratory illness, such as asthma and allergies. Additional health impacts that may be caused by climate change include cardiovascular disease, vector-borne diseases, mental health impacts, and malnutrition injuries. Increased frequency of these ailments is likely to subsequently increase the direct risk of injury and/or mortality.

Transportation. Residents of California rely on airports, seaports, public transportation, and an extensive roadway network to gain access to destinations, goods, and services. While the transportation industry is a source of GHG

emissions, it is also vulnerable to climate change risks. Particularly, sea-level rise and erosion threaten many coastal California roadways, airports, seaports, transit systems, bridge supports, and energy and fueling infrastructure. Increasing temperatures and extended periods of extreme heat threaten the integrity of the roadways and rail lines. High temperatures cause road surfaces to expand, which leads to increased pressure and pavement buckling. High temperatures can also cause rail breakages, which could lead to train derailment. Other forms of extreme weather events, such as extreme storm events, can negatively impact infrastructure, which can impair movement of people and goods or potentially block evacuation routes and emergency access roads. Increased wildfires, flooding, erosion risks, landslides, mudslides, and rockslides can all profoundly impact the transportation system and pose a serious risk to public safety.

Water. Water resources in California support residences, plants, wildlife, farmland, landscapes, and ecosystems and bring trillions of dollars in economic activity. Climate change could seriously impact the timing, form, and amount of precipitation; runoff patterns; and frequency and severity of precipitation events. Higher temperatures reduce the amount of snowpack and lead to earlier snowmelt, which can impact water supply availability, natural ecosystems, and winter recreation. Water supply availability during the intense dry summer months is heavily dependent on the snowpack accumulated during the winter. Increased risk of flooding has a variety of public health concerns, including water quality, public safety, property damage, displacement, and post-disaster mental health problems. Prolonged and intensified droughts can also negatively affect groundwater reserves and result in increased overdraft and subsidence. Droughts can negatively impact agriculture and farmland throughout the state. The higher risk of wildfires can lead to increased erosion, which can negatively impact watersheds and result in poor water quality. Water temperatures are also prone to increase, which can negatively impact wildlife that rely on a specific range of temperatures for suitable habitat.

In March 2019, the CNRA released the California’s Fourth Climate Change Assessment, San Diego Region Report, which was a survey of programmatic responses for climate change and contained recommendations for further actions within San Diego County (CNRA 2019).

3.4 Significance Criteria and Methodology

3.4.1 Thresholds of Significance

California has developed guidelines to address the significance of GHG emissions impacts that are contained in Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.). Appendix G provides that a project would have a significant environmental impact if it would:

- GHG-1) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment
- GHG-2) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases

The Appendix G thresholds for GHGs do not prescribe specific methodologies for performing an assessment, do not establish specific thresholds of significance, and do not mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency’s discretion to determine the appropriate methodologies and thresholds of significance consistent with the manner in which other impact areas are handled in CEQA (CNRA 2009). Additional guidance regarding assessment of GHGs is discussed below.

3.4.1.1 CEQA Guidelines

With respect to GHG emissions, CEQA Guidelines Section 15064.4(a) states that lead agencies “shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate” GHG emissions resulting from a project. The CEQA Guidelines note that an agency has the discretion to either quantify a project’s GHG emissions or rely on a “qualitative analysis or performance-based standards” (14 CCR 15064.4[a]). A lead agency may use a “model or methodology” to estimate GHG emissions and has the discretion to select the model or methodology it considers “most appropriate to enable decision makers to intelligently take into account the project’s incremental contribution to climate change” (14 CCR 15064.4[c]). The CEQA Guidelines provide that the lead agency should consider the following when determining the significance of impacts from GHG emissions on the environment (14 CCR 15064.4[b]):

1. The extent a project may increase or reduce greenhouse gas emissions as compared to the existing environmental setting.
2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
3. The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions.

In addition, the CEQA Guidelines specify that “[w]hen adopting or using thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence” (14 CCR 15064.7[c]).

The CEQA Guidelines do not indicate an amount of GHG emissions that constitutes a significant impact on the environment. Instead, they authorize the lead agency to consider thresholds of significance previously adopted or recommended by other public agencies or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence (14 CCR 15064.4[a] and 15064.7[c]). Several agencies throughout the state have drafted and/or adopted numerical threshold approaches and guidelines for analyzing the significance of project-related GHG emissions, including the South Coast Air Quality Management District’s 3,000 MT CO₂e annual threshold for residential/commercial or mixed use projects (SCAQMD 2010), among others. However, no numerical thresholds have been formally adopted by an air district or lead agency for use in the San Diego region.

In the absence of an adopted numerical threshold for the region, the significance of project-related GHG emissions can be determined by evaluating a project’s compliance with regulations or requirements adopted to implement statewide, regional, or local plans for the reduction or mitigation of GHG emissions. As discussed in Section 3.2.2, the state’s 2030 target (reduce GHG emissions to 40% below 1990 levels by 2030) has been codified in law through SB 32, and the 2045 target (net zero GHG emissions and reduce anthropogenic GHG emissions to 85% below 1990 levels by 2045) has been codified into law through AB 1279. Therefore, 2030 and 2045 mark the next statutory statewide milestone targets applicable to the Proposed Project.

In this case, the significance of impacts related to Proposed Project-generated GHG emissions can be determined through an assessment of compliance with statewide regulations and requirements adopted to implement GHG reduction plans that align with the SB 32 2030 and AB 1279 2045 targets, such as CARB’s 2022 Scoping Plan.

The specific threshold approach used to assess the significance of the Project's GHG emission impacts is informed by the guidance summarized here and is discussed in further detail in the following section.

3.4.1.2 Governor's Office of Planning and Research Guidance

The Governor's Office of Planning and Research technical advisory titled CEQA and Climate Change: Addressing Climate Change through California Environmental Quality Act (CEQA) Review states the following (OPR 2008):

Public agencies are encouraged but not required to adopt thresholds of significance for environmental impacts. Even in the absence of clearly defined thresholds for GHG emissions, the law requires that such emissions from CEQA projects must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact.

Furthermore, the advisory document indicates that "[i]n the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a 'significant impact,' individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice" (OPR 2008).

3.4.1.3 Approach to Determining Significance

The approach for evaluating the Proposed Project's impacts related to GHG emissions relies on an assessment of the Project's compliance with applicable plans, policies, or regulations adopted for the purpose of reducing the emissions of GHGs. At the state level, this includes consideration of CARB's Scoping Plan and the CSU Sustainability Policy; at the local level, this includes consideration of the SANDAG RTP/SCS and the SDSU CAP.⁷ The compliance evaluation is the sole basis for determining the significance of the Project's GHG-related impacts on the environment.

In accordance with Section 15064.4 of the CEQA Guidelines, GHG emissions resulting from construction and operation of the Project also were quantitatively estimated. The Project-related GHG emissions were assessed based on the total increase above the existing environmental setting. The GHG emissions associated with implementation of the Project were estimated using industry standard and accepted software tools, techniques, and emissions factors, as described below for construction and operation under Sections 3.4.2.1 and 3.4.2.2, respectively. Estimation of emissions is for informational purposes and for comparison with existing environmental conditions.

3.4.2 Approach and Methodology

3.4.2.1 Construction

The construction methodology outlined in Section 2.4.2.1 also applies to this section. Additionally, relevant information pertaining to construction-related electricity consumption and carbon sequestration loss is provided below.

⁷ As discussed previously, SDSU has not adopted a qualified CAP to be used in CEQA analyses per CEQA Guidelines Section 15183.5.

Energy Use

Temporary electric power for lighting and electronic equipment, such as computers, may be needed inside temporary construction trailers. The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the Project. The 2022 National Construction Estimator identifies a typical power cost per 1,000 square feet of construction per month of \$2.41, which was used to calculate the Project's total construction power cost (Pray 2022). San Diego Gas & Electric Company's (SDG&E's) general service rate schedule was used to determine the Project's electrical usage. As of January 1, 2022, SDG&E's general service rate is \$0.13 per kilowatt hour (kWh) of electricity for industrial services (SDG&E 2022). Based off the construction schedule in Section 2.4.2.1 and the assumptions above, the Project is estimated to use 406,655 kWh during construction, as stated in Section 4.4 of this report.

Carbon Sequestration (Loss)

This GHG analysis estimates the loss of sequestered carbon that would result from removal of trees on site during construction. The calculation methodology and default values provided in i-Tree Planting were used to estimate the one-time carbon-stock change from planting new trees based on the trees provided in the landscaping plan for the Project (i-Tree 2022). The i-Tree Planting tool quantifies increased carbon sequestration from urban tree planting using species-based biomass equations that account for user defined site-specific variables and tree growth rates. The tool also quantifies GHG reductions from energy savings (e.g., kWh), if applicable. Trees sequester CO₂ while they are actively growing, and the amount of CO₂ sequestered depends on the type of tree. Thereafter, the accumulation of carbon in biomass slows with age and is assumed to be offset by losses from clipping, pruning, and occasional death. Active growing periods are subject to, among other things, species, climate regime, and planting density; however, for modeling purposes, an active growing period of 30 years was assumed consistent with the Project lifetime. While a detailed tree inventory was not available for the site, an aerial survey was conducted to determine the potential species of trees to be removed. Of those species found on site, the most CO₂ dense species was selected to be overly conservative. The Project is expected to remove 190 eucalyptus⁸ trees on the Peninsula Component site and 29 palm trees for the University Towers East Component.

3.4.2.2 Operation

CalEEMod Version 2022.1.1.28 was used to estimate potential operational GHG emissions from area sources (landscape maintenance), energy sources (natural gas and electricity), mobile sources, refrigerants, solid waste, stationary sources (emergency generators), and water supply and wastewater treatment.

The methodology described herein and used to estimate the Proposed Project's incremental change in GHG emissions does not account for the existing GHG emissions generated by the 13 buildings currently located on the Peninsula Component site that would be demolished to facilitate implementation of the Project. This is a conservative approach that serves to overestimate the Project's GHG emissions, as it utilizes a baseline of zero in lieu of reporting an incremental change in emissions generation from the non-zero baseline that is part of the existing condition.

⁸ It is not expected that all 190 trees removed are eucalyptus. Without a full tree inventory, for carbon removal estimation purposes, the most carbon-intensive tree to be removed was eucalyptus. Therefore, this over-estimates the carbon released from tree removal.

Conversely, the methodology used to estimate the Proposed Project's mobile source-related GHG emissions does account for the beneficial reduction in GHG emissions attributable to the Project's provision of additional on-campus student housing opportunities, as described further below.

Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from consumer product use, architectural coatings, and landscape maintenance equipment. Emissions associated with natural gas usage in space heating and water heating are calculated in the building energy use module of CalEEMod, as described in the following text. The Project does not include fireplaces or wood-burning stoves.

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chainsaws, and hedge trimmers. The emissions associated with landscape equipment use are estimated based on CalEEMod default values for emission factors (grams per square foot of building space per day) and number of summer days (when landscape maintenance would generally be performed) and winter days.

Energy Sources

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage. The Proposed Project's residential units would be all-electric. The Amenity Building would include limited natural gas service for purposes of providing food service to the Peninsula Component residences. The emissions from electricity use and natural gas are quantified for GHGs in CalEEMod.

Mobile Sources

Please refer to Section 2.4.2.2 above for relevant information regarding the Proposed Project's mobile sources. The approach used to estimate GHG emissions from the Project's mobile sources is the same as the approach described above and taken for estimation of criteria air pollutants. As discussed therein, the Proposed Project would increase the number of on-campus student beds available to serve SDSU students and thereby create opportunities for students to reside on campus in lieu of more distant off-campus locations. The Proposed Project, as a result of this design attribute, would improve the efficiency of VMT per student travel patterns, correspondingly reducing and offsetting the existing GHG emissions attributable to student travel to-and-from campus.

Refrigerants

CalEEMod was utilized to estimate fugitive GHG emissions from refrigerants used for air conditioning and refrigeration equipment. Different types of refrigeration equipment are utilized for different types of land uses and CalEEMod generates default refrigerant values based on land use subtype and industry data from EPA. CalEEMod quantifies refrigerant emissions from leaks during regular operation and routine servicing over the equipment lifetime and then derives average annual emissions from the lifetime estimate but does not quantify emissions from the disposal of refrigeration and air conditioning equipment at the end of its lifetime.

Most of the refrigerants used today are HFCs or blends thereof, which can have high GWP values. However, California is required to reduce HFC emissions 40% below 2013 levels by 2030 under SB 1383, and regulations have been

adopted to place GWP limits on HFCs, such as SB 120. As CalEEMod default refrigerant values were assumed for the restaurant land use, the corresponding emissions estimate is anticipated to be conservative.

Solid Waste

The Project would generate solid waste, and therefore, result in CO₂e emissions associated with landfill off-gassing. CalEEMod default values for solid waste generation were used to estimate GHG emissions associated with solid waste.

Stationary Sources

Following the completion of construction activities, the Proposed Project would generate GHG emissions from the maintenance and testing of stationary sources (e.g., emergency generators). Emissions were estimated using CalEEMod as discussed in Section 2.4.2.2.

Water and Wastewater

The supply, conveyance, treatment, and distribution of water for the Project would require the use of electricity, which would result in associated indirect GHG emissions. Similarly, wastewater generated by the Project would require the use of electricity for conveyance and treatment, along with GHG emissions generated during wastewater treatment. Water consumption estimates for both indoor and outdoor water use were provided by SDSU. The electricity consumption from water use and wastewater generation was estimated using CalEEMod default values.

Carbon Sequestration (Gain)

This GHG analysis estimates the gain of sequestered carbon that would result from the planting and growth of trees on site. The calculation methodology and default values provided in i-Tree Planting were used to estimate the one-time carbon-stock change from planting new trees based on the trees provided in the landscaping plan for the Project (i-Tree 2022). Trees sequester CO₂ while they are actively growing, and the amount of CO₂ sequestered depends on the type of tree. Thereafter, the accumulation of carbon in biomass slows with age and is assumed to be offset by losses from clipping, pruning, and occasional death. Active growing periods are subject to, among other things, species, climate regime, and planting density; however, for modeling purposes, an active growing period of 30 years was assumed consistent with the Project lifetime. The model also assumes a tree mortality of 70% over a Project's lifetime.

The sequestered carbon from new trees modeling does not include CO₂ emissions estimates associated with planting, care, and maintenance activities (e.g., tree planting and care vehicle travel and maintenance equipment operation). Landscape maintenance equipment emissions were included in the area source emission estimates included in the operational GHG emissions calculations. In addition, operational GHG emissions associated with these maintenance activities are anticipated to be minimal. While a detailed tree planting schedule was not available for the site yet, a schedule of the types of trees to be planted was available. Of those species proposed, the least CO₂ dense species was selected to be overly conservative. The Project is expected to plant 195 trees on the Peninsula Component site and 30 trees on the University Towers East Component site.

3.5 Impact Analysis

GHG-1) Would the Proposed Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

and

GHG-2) Would the Proposed Project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Applicable plans for the Proposed Project include the CSU Sustainability Policy, most recently revised in May 2022; the 2017 SDSU CAP; SANDAG's RTP/SCS; and CARB's 2022 Scoping Plan. Each of these plans is described below along with an analysis of the Proposed Project's potential to conflict with the related GHG emission reduction goals.

Consistency with Applicable GHG Reduction Plans

California State University Sustainability Policy

As discussed previously, the CSU Sustainability Policy was developed to integrate sustainability into all facets of the CSU, including academics, facilities operations, built environment, and student life. The Sustainability Policy largely aligns with the state's energy and GHG emissions reduction goals and aims to reduce impacts from construction and operation activities associated with the CSU. Actions within the CSU Sustainability Policy address energy resilience and procurement; energy conservation, carbon reduction, and utility management; water conservation; sustainable procurement; waste management; sustainable food service; sustainable building and lands practices; physical plant management; and transportation (CSU 2022). The Proposed Project would comply with all relevant requirements of the CSU Sustainability Policy, which include those related to energy resilience and procurement, water conservation, sustainable building, waste management, and transportation.

Pursuant to the CSU Sustainability Policy, to reduce energy consumption-related emissions, all future CSU new construction, remodeling, renovation, and repair projects, regardless of funding source, will be designed with consideration of optimum energy utilization, decarbonization, and low life-cycle operating costs and shall exceed all applicable energy codes and regulations (Building Energy Efficiency Standards, 24 CCR 6) by 10%. Capital planning for state and non-state facilities and infrastructure shall consider features of a sustainable and durable design to achieve a low life cycle cost. Campuses shall design, construct, operate, and maintain green building certified high performing buildings, regardless of funding source, that improve occupant productivity and wellness, optimize life-cycle costs, and minimize carbon impact. The CSU shall design and build all new buildings and major renovations to meet or exceed the minimum requirements equivalent to LEED Silver. Each campus shall strive to achieve a higher standard equivalent to LEED Gold or Platinum within project budget constraints. To reduce emissions from solid waste, the CSU seeks to reduce landfill bound waste to 50% of total campus waste by 2030 and divert at least 80% from the landfill by 2040 in pursuit of their zero-waste goal. The Proposed Project would be consistent with the CSU's solid waste targets as it would minimize waste during construction. The Project would also not conflict with the CSU's future zero waste goals, as the Project would incorporate waste diversion strategies consistent with the campus (CSU 2022).

To reduce emissions from transportation, the CSU Sustainability Policy encourages and promotes use of alternative transportation and the development of transportation demand management plans to reduce VMT at the CSU

campuses (CSU 2022). As discussed previously, the Proposed Project would reduce average daily trips and VMT when compared to off-campus student housing by resulting in a substantial increase in the net number of student beds located on campus, thereby providing more students with the opportunity to live on campus while attending university.

As a member of the CSU system, SDSU and its campus development adhere to the CSU Sustainability Policy as applicable. The Proposed Project would not conflict with the CSU Sustainability Policy as its design has been informed by the tenets of the CSU Sustainability Policy that apply to specific campus development proposals.

SDSU CAP

Emissions sources in the SDSU CAP's baseline inventory and emissions projections include energy use, solid waste, water use, and student and faculty/staff commute (i.e., mobile source emissions) associated with activity at SDSU's main campus (SDSU 2017). Overall, emissions from energy use and mobile sources accounted for the majority of GHG emissions in the baseline inventory and therefore present the greatest opportunity for future GHG emissions reductions.

The SDSU CAP's vision for energy highlights a shift from natural gas-based co-generation toward grid energy and on-site renewables (SDSU 2017). For solid waste, the CAP aims to encourage recycling and move toward zero-waste in the future. The CAP's vision for water use is to encourage efficient landscaping (e.g., drought-resistant and native species, limited turf, and efficient irrigation systems) and ensure ultra-low flow and high-performance fixtures are used for potable systems. Finally, the SDSU CAP's vision for transportation emissions includes improvement of bicycle and pedestrian amenities and an overall reduction in single-occupancy vehicle trips to the campus.

Consistent with the CAP's GHG-reducing objectives, the Proposed Project's residential buildings would be all-electric. Additionally, there would be solar installed both on the Project site and around campus to support the Project, which would serve to increase the campus' renewable energy resources. The Project would minimize waste during construction and implement operational waste management practices that reduce the overall landfill waste stream. All landscaping/re-planting associated with the Proposed Project would use drought-resistant and native species. The Project would also result in a net reduction of average daily trips and VMT, with an associated reduction in mobile source GHG emissions, due to its provision of increased on-campus student housing opportunities that would reduce the demand for housing at off-campus locations less proximate to university-serving uses.

In summary, the Proposed Project would support the vision of and not conflict with the relevant goals of the SDSU CAP.

SANDAG's San Diego Forward: The 2021 Regional Plan

As discussed in Section 2.2.3, SANDAG's 2021 Regional Plan identifies how the San Diego region will reduce GHG emissions as it relates to transportation, pursuant to SB 375. The SCS contained within the 2021 Regional Plan describes coordinated transportation and land use planning that exceeds the state's target for reducing per capita GHG emissions set by CARB. The state-mandated target is a 19% reduction—compared with 2005—in per capita GHG emissions from cars and light-duty trucks by 2035. The 2021 Regional Plan achieves a 20% reduction. According to the SANDAG land use data used to prepare the 2021 Regional Plan, the planned land use for the Proposed Project is "Multi-Family Residential" for the Peninsula Component site and "Dormitory" for University Towers East Component site (SANDAG 2021).

The 2021 Regional Plan identifies the following 10 implementation actions designed as specific steps taken to bring projects, policies, and programs to reality, and each one supports the 2021 Regional Plan’s defined strategies (SANDAG 2021):

- 1. Apply the Social Equity Planning Framework and ensure that equity is considered throughout 2021 Regional Plan implementation.
- 2. Develop Comprehensive Multimodal Corridor Plans (CMCPs) to refine 2021 Regional Plan projects at the corridor level and qualify the region for future funding opportunities.
- 3. Update SANDAG policies, including the TransNet Ordinance, to reflect 2021 Regional Plan projects and priorities.
- 4. Evaluate the transition to free public transit and develop a Value Pricing and User Fee Implementation Strategy.
- 5. Seek new local funding in addition to pursuing state and federal funding opportunities.
- 6. Advance the Next Operating System (Next OS) by preparing technical and planning studies and initiating pilot opportunities.
- 7. Implement the Regional Transportation Improvement Program (RTIP) and near-term projects.
- 8. Partner with local jurisdictions, tribal governments, agencies in Mexico, the military, and other agencies on collaborative efforts to implement the 2021 Regional Plan.
- 9. Expand regional programs and seek funding to fully support low-carbon transportation options, roadway safety and maintenance, habitat conservation, and nature-based climate solutions.
- 10. Advance a data science program to better understand travel behavior in the region, update travel demand modeling tools, and improve transparency and reporting on program effectiveness and project delivery.

The 2021 Regional Plan then identifies 11 policy and program areas that support the 10 priority implementation actions listed above. These 11 policy and program areas are provided in Table 18, alongside analysis of the Proposed Project’s potential to conflict with the SANDAG 2021 Regional Plan.

Table 18. Project Potential to Conflict with SANDAG 2021 Regional Plan

Programs, Planning, and Policies	Implementation Actions	Potential to Conflict Prior to Mitigation
Land Use and Habitat	The 2021 Regional Plan vision for land use focuses on development and growth in Mobility Hub areas to preserve the region’s habitat and open space while supporting transportation investments and reducing vehicle miles traveled (VMT).... SANDAG will leverage partnerships with cities and the county through the Smart Growth Incentive Program and other grant programs to provide funds for transportation-related improvements and planning efforts that support smart growth in Mobility Hubs.	No conflict. The Project is located in a Transit Priority Area according to the City of San Diego’s Transit Priority Area interactive mapping service. The Project is also located on land currently developed in an urban, infill setting. The SDSU main campus, within which the Proposed Project would be located, is served by the SDSU Transit Center, a multi-floor complex that provides access to multiple MTS buses and the MTS Green Line trolley.
Housing	The 2021 Regional Plan addresses the housing crisis through Mobility Hubs,	No conflict. The Project would add approximately 4,468 new residential beds

Table 18. Project Potential to Conflict with SANDAG 2021 Regional Plan

Programs, Planning, and Policies	Implementation Actions	Potential to Conflict Prior to Mitigation
	bringing locations where people live and work closer together and providing more housing options for more San Diegans through increased density. SANDAG will rely on building stronger partnerships with local jurisdictions to increase housing in the region, especially housing available to low-income residents.	on SDSU's main campus, which—as described immediately above—is served by multiple transit options. Increasing on-campus student housing opportunities at SDSU would result in numerous environmental co-benefits, as students are brought into close proximity to the university-serving uses designed to support their educational objectives. By increasing on-campus housing opportunities, and thereby reducing the demand of SDSU students for off-campus housing opportunities, the Proposed Project also would support SANDAG's initiative to increase housing in the region.
Climate Action Planning	To help reach regional and state greenhouse gas (GHG) emissions–reduction targets, the 2021 Regional Plan focuses heavily on the conversion to clean transportation and a shift from personal vehicle dependency through the 5 Big Moves. To help local jurisdictions make this transition and achieve broader reductions in GHG emissions, SANDAG will provide technical assistance, guidance resources, templates, and grant funding to incorporate the 5 Big Moves and Sustainable Communities Strategy actions into their climate action plans (CAP) and plan for more well-connected, sustainable, healthy communities that are accessible to all.	No conflict. This action is not within the purview of this Project and is instead directed towards local governments and those preparing plans for local jurisdictions. Implementation of the Project would not prevent SANDAG from providing the expressed guidance and resources for incorporating the 5 Big Moves and SCS actions into local CAPs.
Climate Adaptation and Resilience	The 2021 Regional Plan aims to better prepare San Diego communities and habitats for these climate change impacts by considering evacuation and rapid mobility needs in our transit corridors, evaluating and considering climate vulnerabilities to the region's transportation infrastructure, and using natural lands and conservation to absorb and protect against climate change impacts. SANDAG will establish a coordinated effort across agencies and local jurisdictions for a more holistic, comprehensive, equitable, sustainable, and resilient region.	No conflict. This action is not within the purview of this Project and is instead directed towards SANDAG and local governments. Implementation of the Project would not prevent SANDAG from coordinating efforts across agencies to evaluate and consider climate vulnerabilities in the region. The importance of climate resilience is recognized by the CSU Sustainability Policy. The Proposed Project's final design specifications will consider climate resilience, as such resilience is incorporated into various building design standards and best practices.

Table 18. Project Potential to Conflict with SANDAG 2021 Regional Plan

Programs, Planning, and Policies	Implementation Actions	Potential to Conflict Prior to Mitigation
Electric Vehicles	Electrification is included in the 2021 Regional Plan as a way to reach regional greenhouse gas (GHG) emission-reduction targets. Electric vehicles (EVs) are zero-emission vehicles that include plug-in battery EVs and hydrogen fuel cell EVs. SANDAG aims to incentivize and encourage the incorporation of all types of EVs into Flexible Fleets, Transit Leap, and goods movement and to support funding programs that increase the number of EVs and charging stations throughout the region and within Mobility Hubs and as part of the Complete Corridor strategy.	No conflict. SDSU provides ChargePoint and DirtRoad EV charging stations at the following on-campus locations: Parking 1, Parking 2C, Parking 3, Parking 7, Parking 8, Student Services Garage, Parking 12, Parking 14, South Campus Plaza, and Parking 2A. These charging stations, which consist of a mixture of Level 2 and DC fast charging stations, are available to students, faculty, staff, and visitors.
Parking and Curb Management	The 2021 Regional Plan promotes policies that use land more efficiently and encourage people to consider switching from driving alone to walking, biking, taking transit, carpooling, and using shared mobility. Effective parking-management policies include reduced parking requirements, including near transit, unbundling parking from housing costs, and parking cash-out incentives for employees that commute to work without personal vehicles.	No conflict. As previously discussed, the SDSU main campus is served by a transit complex that provides connections to MTS bus and trolley options. Additionally, the main campus maintains a network of pathways and travel routes for pedestrians and bicyclists. The Proposed Project would include a limited number of parking stalls for purposes of supporting the Project's Amenity Building. The Proposed Project also would reduce existing ADT and VMT generated by SDSU students by increasing the supply of on-campus housing opportunities. In summary, the Proposed Project's residents would be located in an urban campus environment that supports non-vehicular travel modes, consistent with this action.
Transportation Demand Management	Transportation Demand Management (TDM) innovations have the potential to transform the way people travel within and between communities. Managing demands on the existing transportation system is a vital strategy for making the overall system more effective in reducing drive-alone commute trips. SANDAG will continue to administer and monitor the iCommute program by providing regional rideshare, employer outreach, and bike education and secure parking services to help reduce commute-related traffic congestion and vehicle miles traveled.	No conflict. The Proposed Project, which would not increase SDSU student enrollment, would not result in growth affecting transit in the region. The Project also would beneficially result in a reduction in ADT and VMT, consistent with TDM principles. As such, the Project would support SANDAG's goal of reducing drive-alone commute trips by locating students closer to the on-campus amenities that serve their daily needs.

Table 18. Project Potential to Conflict with SANDAG 2021 Regional Plan

Programs, Planning, and Policies	Implementation Actions	Potential to Conflict Prior to Mitigation
Vision Zero	Vision Zero is a national campaign to eliminate all traffic-related deaths and serious injuries by focusing on policies and the redesign of streets to create a transportation system that is safe for everyone. In adopting Vision Zero, SANDAG will work toward Zero by collecting and analyzing crash data to identify safety issues and recommend solutions; developing a regional safety policy; continuing to construct the Regional Bike Network; working with local jurisdictions to conduct outreach for and build out their complete streets networks; and funding educational programs, including opportunities to collaborate with tribal nations.	No conflict. This action is not within the purview of this Project and is instead directed towards SANDAG to prepare and implement a regional safety policy and to coordinate with local jurisdictions to provide resources and assistance on safe roadway design. Implementation of the Proposed Project would not prevent SANDAG from providing the expressed guidance and resources for Vision Zero planning efforts.
Fix It First	To optimize investments in the region's transportation infrastructure, the Regional Plan and the 5 Big Moves focus on improving upon existing roads, rails, and sidewalks. The Fix It First strategy aims to repair existing roads and create a system for sustained maintenance in the future, creating a safe and efficient transportation network for all users.	No conflict. This action is not within the purview of the Proposed Project and is instead aimed at repair and maintenance of the regional transportation system. Implementation of the Project would not prevent SANDAG from improving the existing roads, rails, and sidewalks.
Transportation System Management and Operations	Transportation System Management and Operations (TSMO) employs a series of intelligent transportation system strategies designed to maximize the capacity and efficiency of the existing and future transportation system. TSMO includes the establishment of institutional and governance actions to help advance and facilitate cross-agency collaboration to ensure existing and proposed transportation systems are not operated or managed as independent systems but as a multimodal transportation system.	No conflict. This action is not within the purview of the Proposed Project and is instead directed towards SANDAG to develop the TSMO through cross-agency collaboration. Implementation of the Project would not prevent SANDAG from employing the strategies in support of TSMO and multimodal transportation system.
Value Pricing and User Fees	The 2021 Regional Plan incorporates a variety of value pricing and user fee strategies as tools to improve mobility by encouraging changes in travel behaviors while generating revenue to address aging infrastructure and expand travel options. These strategies include a network of Managed Lanes, a mileage-based road usage charge, a fee on the fares charged for	No conflict. This action is not within the purview of the Proposed Project and is instead directed towards SANDAG to develop and implement pricing and fee strategies. Implementation of the Project would not prevent SANDAG from designing fee structures and other pricing tools to support infrastructure and expansion of travel options.

Table 18. Project Potential to Conflict with SANDAG 2021 Regional Plan

Programs, Planning, and Policies	Implementation Actions	Potential to Conflict Prior to Mitigation
	rides provided by transportation network companies, and further subsidization of transit fares.	

Source: SANDAG 2021.
Notes: SANDAG = San Diego Association of Governments; SDSU = San Diego State University; MTS = Metropolitan Transit System; SCS = Sustainable Communities Strategy; CSU = The California State University; EIR = environmental impact report; ADT = average daily trips.

As shown in Table 18, the Proposed Project would not conflict with actions from the SANDAG 2021 Regional Plan related to situating affordable housing near mobility hubs, conservation strategies to protect against climate change, parking and curb management, and transportation demand management and reduction of VMT. Rather, the objectives and design of the Proposed Project are compatible and consistent with the 2021 Regional Plan, as the Project would increase the supply of on-campus student housing opportunities in a transit-served environment and thereby improve the efficiency of student travel patterns. Given these considerations, the Project would not conflict with SANDAG’s 2021 Regional Plan.

CARB’s 2022 Scoping Plan for Achieving Carbon Neutrality

The 2022 Scoping Plan reflects the statewide 2030 target of a 40% reduction below 1990 emission levels codified by SB 32 and the statewide 2045 target of an 85% reduction below 1990 emissions levels and carbon neutrality codified by AB 1279. Table 19 evaluates the Proposed Project’s potential to conflict with the 2022 Scoping Plan and specifically the project attributes identified by CARB to reduce operational GHG emissions identified in Appendix D of the 2022 Scoping Plan (CARB 2022a). Per the Scoping Plan, empirical evidence shows that residential development projects that are consistent with the Appendix D project attributes to reduce GHG emissions will accommodate growth in a manner that aligns with the GHG and equity goals of SB 32. Additionally, consistency with the Appendix D project attributes will ensure that projects are addressing the largest sources of their operational emissions, are in alignment with the priority areas defined by CARB for Local Climate Action, and are in alignment with the state’s climate goals.

Before providing the tabular assessment of the Proposed Project’s consistency with the Appendix D project attributes, it is relevant to revisit the Proposed Project’s purpose and description, and its relationship to statewide climate policies. To begin, the primary goal of the Proposed Project is to increase the on-campus housing opportunities and supporting amenities available to SDSU students. The Proposed Project would accomplish this objective through the construction of residential buildings, resulting in a net increase of approximately 4,468 student beds on the SDSU main campus. The environmental co-benefits of on-campus student housing opportunities are numerous, as students are afforded an opportunity to reside on the very campus where they are attending classes, which serves to measurably reduce student commuting and VMT. Additionally, the Proposed Project is located on two infill sites that are close to transit service and would maximize site utilization and density for residential development. Further, within the Peninsula Component, the Proposed Project would demolish existing student housing providing 702 beds and replace it with new student housing providing 4,450 beds. Not only would this increase the number of overall student beds, but it also would result in an improvement of the efficiency of the built environment, as the Proposed Project would be built in compliance with the latest building

energy efficiency standards. Each of these facets of the Proposed Project is compatible with statewide climate policies that recognize the importance of locating residential development in infill areas served by supporting amenities and services.

Table 19. Project Potential to Conflict with Appendix D of the 2022 Scoping Plan

Project Attributes	Potential to Conflict Prior to Mitigation
Transportation Electrification	
Provide EV charging infrastructure at least in accordance with CALGreen Tier 2 standards	No conflict. SDSU provides ChargePoint and DirtRoad EV charging stations at the following on-campus locations: Parking 1, Parking 2C, Parking 3, Parking 7, Parking 8, Student Services Garage, Parking 12, Parking 14, South Campus Plaza, and Parking 2A. These charging stations, which consist of a mixture of Level 2 and DC fast charging stations, are available to students, faculty, staff, and visitors.
VMT Reduction	
Is located on infill sites that are surrounded by existing urban uses and reuses or redevelop previously undeveloped or underutilized land presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer)	No conflict. The Project would be sited on an existing developed area in an urban, infill setting. The Proposed Project would not convert existing natural or working lands.
Do not result in the loss or conversion of the State's natural and working lands	No conflict. The Proposed Project would not convert existing natural or working lands.
Consists of transit-supportive densities (minimum of 20 residential dwelling units/acre), or In in proximity to existing transit (within ½ mile), or Satisfies more detailed and stringent criteria specified in the region's Sustainable Communities Strategy (SCS)	No conflict. The Proposed Project would have a density of 453 dwelling units per acre. The Peninsula Component site is 0.47 miles from the closest transit stop and the University Towers East Component site is 0.06 miles from the closest transit stop. The Proposed Project is estimated to result in a reduction of 22,105,626 VMT per year due to students moving from off-campus locations to on-campus housing.
Relax parking requirements by: ▪ Eliminating parking requirements or including maximum allowable parking ratios. ▪ Providing residential parking supply at a ratio of <1 parking space per unit. ▪ Unbundling residential parking costs from costs to rent or lease.	No conflict. The Proposed Project would include a limited number (15) of parking stalls for purposes of supporting the Project's Amenity Building. SDSU students with parking needs who reside at the Proposed Project would be served by parking opportunities located elsewhere on the main campus. Overall, the SDSU main campus is designed to facilitate alternative modes of transportation through its bicycle and pedestrian infrastructure and inclusion of the SDSU Transit Center, which provides access to both MTS bus and trolley service.
At least 20 percent of the units are affordable to lower-income residents	No conflict. The Proposed Project does not designate a specific quantity of beds as being reserved for lower-income students. However, SDSU has robust and diverse financial aid programs (including grants, loans, workstudy, and scholarships) to assist students with all types of income backgrounds. SDSU also

Table 19. Project Potential to Conflict with Appendix D of the 2022 Scoping Plan

Project Attributes	Potential to Conflict Prior to Mitigation
	provides resources for students experiencing financial hardships.
Result in no net loss of existing affordable units	No conflict. The Proposed Project would not result in a net loss of existing affordable residential units.
Building Decarbonization	
Use all electric appliances, without any natural gas connections, and would not use propane or other fossil fuels for space heating, water heating, or indoor cooking	No conflict. The Proposed Project’s residential units would be all-electric. The Project’s Amenity Building would include limited natural gas service for purposes of providing food service to the Peninsula Component residences.

Source: CARB 2022.
Notes: EV = electric vehicle; CALGreen = California Green Building Standards; SDSU = San Diego State University; VMT = vehicle miles traveled; EIR = environmental impact report; MTS = Metropolitan Transit System.

As shown in Table 19, the Proposed Project is consistent with the project attributes that reduce GHG emissions identified by the 2022 Scoping Plan. According to the 2022 Scoping Plan, these attributes are a guide to determine projects that are clearly consistent with the state’s climate strategy for CEQA purposes, but they are not necessarily required, and a project that incorporates some but not all of the key project attributes may still be consistent with the state’s climate goals.

Based on the analysis provided above, the Proposed Project would not potentially conflict with the CSU Sustainability Policy, SDSU CAP, SANDAG Regional Plan, or CARB Scoping Plan, each of which was adopted for the purpose of reducing GHG emissions. This conclusion flows logically from the design of the Proposed Project and its intended objectives, which are largely oriented around the environmental co-benefits of co-locating student housing opportunities on the same campus where the student’s educational needs are served. By increasing student housing opportunities on the SDSU main campus through the development of residence halls, the Proposed Project simultaneously would reduce GHG emissions attributable to student commute patterns while providing students with a living environment that capitalizes on the latest building efficiency requirements. As such, the Proposed Project would result in a **less-than-significant** impact attributable to its GHG emissions.

Quantification of Greenhouse Gas Emissions

The following GHG emissions analysis is provided for informational purposes only.

Construction

Table 20 provides estimated construction-related GHG emissions from the Proposed Project. Detailed calculations are provided as Appendix B.

Table 20. Estimated Construction Greenhouse Gas Emissions

Emission Source	CO ₂	CH ₄	N ₂ O	R	CO ₂ e
	Metric Tons per Year				
2025	630.66	0.03	0.06	0.61	650.69
2026	1,153.20	0.05	0.09	1.21	1,183.81
2027	825.49	0.04	0.05	0.86	842.91
2028	624.75	0.02	0.05	0.54	641.18
2029	685.81	0.02	0.06	0.52	704.70
2030	600.47	0.02	0.04	0.49	613.28
2031	607.56	0.02	0.04	0.40	620.24
2032	580.12	0.02	0.04	0.33	591.33
2033	627.02	0.02	0.03	0.34	636.23
2034	9.10	0.00	0.00	0.00	9.14
Total					6,493.51
30-Year Amortized Emissions					216.45

Notes: CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; R = refrigerants; CO₂e = carbon dioxide equivalent. See Appendix B for detailed calculations.

Operation

Table 21 provides estimated operation-related GHG emissions from full buildout of the Proposed Project in 2034. As previously discussed, this quantified emissions inventory accounts for the Proposed Project's reduction in VMT attributable to the provision of additional on-campus housing opportunities. The inventory, however, conservatively does not account for the existing emissions generated by the 13 buildings on the Project's Peninsula Component site that currently generate GHG emissions but would be demolished in order to facilitate Project development. Detailed calculations are provided as Appendix B.

Table 21. Estimated Operational Greenhouse Gas Emissions

Emission Source	CO ₂	CH ₄	N ₂ O	R	CO ₂ e
	Metric Tons per Year				
Project					
Area	64.25	0.00	0.00	0.00	64.47
Energy (natural gas and electricity)	4,918.27	0.28	0.03	0.00	4,933.79
Mobile	2,684.42	0.13	0.11	2.84	2,723.83
Refrigerants	0.00	0.00	0.00	9.77	9.77
Solid waste	357.00	35.68	0.00	0.00	1,249.01
Stationary	66.24	0.00	0.00	0.00	66.46
Water supply and wastewater	370.82	7.14	0.17	0.00	600.44
Vegetation	35.11	0.00	0.00	0.00	35.11
30-Year Amortized Emissions					216.45
Total Emissions					9,899.33

Table 21. Estimated Operational Greenhouse Gas Emissions

	CO ₂	CH ₄	N ₂ O	R	CO ₂ e
Emission Source	Metric Tons per Year				
Existing					
Mobile	11,236.27	0.50	0.43	19.90	11,398.22
Net Emissions (Project – Existing)					(1,498.89)

Note: CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; R = refrigerants; CO₂e = carbon dioxide equivalent.
See Appendix B for detailed calculations.

As shown in Table 21, net annual emissions from buildout of the Proposed Project would be a reduction of approximately 1,499 MT CO₂e per year including amortized construction emissions over a 30-year Project life.

4 Energy

4.1 Existing Conditions

Electricity

According to the U.S. Energy Information Administration, California used approximately 250,175 gigawatt hours of electricity in 2020 (EIA 2022a). Electricity usage in California for different land uses varies substantially based on the types of uses in a building, the types of construction materials used in a building, and the efficiency of all electricity-consuming devices within a building. Due to the state's numerous energy efficiency building standards and efficiency and conservation programs, California's electricity use per capita in the residential sector is lower than any other state in the nation, except for Hawai'i (EIA 2022b).

SDG&E provides electrical and natural gas service to the region. SDG&E is a regulated public utility that provides energy service to 3.7 million people through 1.5 million electric meters and 900,000 natural gas meters in San Diego and southern Orange Counties. The SDGE service area spans 4,100 square miles. SDG&E and other utilities in the state are regulated by the California Public Utilities Commission (CPUC) (SDG&E 2024). According to the CEC, approximately 78 billion kWh of electricity were used in SDG&E's service area in 2019 (CEC 2024a).

With the exception of the Peninsula Component site, the Proposed Project would connect to and be served by SDG&E electrical infrastructure. The SDSU electric grid also provides electrical infrastructure to the campus. The SDSU campus is served by four 12-kilovolt substations powered by its own facilities. The Proposed Project's Peninsula Component site is on the SDSU electric grid and thus would not put demand on SDG&E.

Natural Gas

According to the U.S. Energy Information Administration, California used approximately 2,151.1 trillion British thermal units of natural gas in 2020 (EIA 2023). Natural gas is used for cooking, space heating, generating electricity, and as an alternative transportation fuel. In 2020, by sector, industrial uses utilized 34% of the state's natural gas, followed by 30% from electric power generation, 23% from residential, 12% from commercial, and 1% from transportation uses (EIA 2023).

The CPUC regulates California's natural gas rates and natural gas services, including in-state transmission and distribution pipeline systems, storage, procurement, metering, and billing. Most of the natural gas used in California comes from out-of-state natural gas basins. Biogas (e.g., from wastewater treatment facilities or dairy farms) is just beginning to be delivered into the gas utility pipeline systems, and the state has been encouraging its development (CPUC 2020). In 2019, SDG&E delivered approximately 4.9 billion therms of natural gas to the region, with 3 billion therms for nonresidential use and 1.9 billion therms for residential use (CEC 2023).

The Proposed Project would connect to and be served by SDG&E natural gas infrastructure for the limited purpose of the Project's Amenity Building.

Petroleum

According to the U.S. Energy Information Administration, California used approximately 524 million barrels of petroleum in 2020, with the majority (433 million barrels) used for the transportation sector (EIA 2021). There are 42 U.S. gallons in a barrel, so this equates to a total daily use of approximately 60 million gallons of petroleum among all sectors and 50 million gallons for the transportation sector. Petroleum usage in California includes petroleum products such as motor gasoline, distillate fuel, liquefied petroleum gases, and jet fuel. California has implemented numerous regulations and policies to improve vehicle efficiency and to support the use of alternative transportation, which are described in Section 4.2. As such, the CEC anticipates an overall decrease of gasoline demand in the state over the next decade (CEC 2018).

4.2 Regulatory Setting

4.2.1 Federal Regulations

Federal Energy Policy and Conservation Act

In 1975, Congress enacted the Federal Energy Policy and Conservation Act, which established the first fuel economy standards for on-road motor vehicles in the United States. Pursuant to the act, the NHTSA is responsible for establishing additional vehicle standards, including fuel economy standards for various vehicle classifications. Fuel economy is determined based on each manufacturer's average fuel economy for the fleet of vehicles available for sale in the United States.

Energy Independence and Security Act of 2007

On December 19, 2007, the EISA was signed into law. In addition to setting increased corporate average fuel economy standards for motor vehicles, the EISA includes the following other provisions related to energy efficiency:

- Renewable fuel standard (RFS) (Section 202)
- Appliance and lighting efficiency standards (Sections 301–325)
- Building energy efficiency (Sections 411–441)

The EISA's RFS requires ever-increasing levels of renewable fuels to replace petroleum (EPA 2017b). EPA is responsible for developing and implementing regulations to ensure that transportation fuel sold in the United States contains a minimum volume of renewable fuel. The RFS program regulations were developed in collaboration with fuel refiners, renewable fuel producers, and many other stakeholders.

The RFS program originally was created under the Energy Policy Act of 2005 and established the first renewable fuel volume mandate in the United States. As required under that act, the original RFS program (RFS1) required 7.5 billion gallons of renewable fuel to be blended into gasoline by 2012. Under the EISA, the RFS program was expanded in several key ways that laid the foundation for achieving significant reductions of GHG emissions through the use of renewable fuels, for reducing imported petroleum, and for encouraging the development and expansion of our nation's renewable fuels sector. The updated program (RFS2) includes the following:

- EISA expanded the RFS program to include diesel, in addition to gasoline.

- EISA increased the volume of renewable fuel required to be blended into transportation fuel from 9 billion gallons in 2008 to 36 billion gallons by 2022.
- EISA established new categories of renewable fuel and set separate volume requirements for each one.
- EISA required EPA to apply lifecycle GHG performance threshold standards to ensure that each category of renewable fuel emits fewer GHGs than the petroleum fuel it replaces.

Additional provisions of the EISA address energy savings in government and public institutions, promoting research for alternative energy, additional research in carbon capture, international energy programs, and the creation of “green jobs.”

4.2.2 State Regulations

CEQA

To ensure that energy implications are considered by lead agencies as part of the CEQA process, EIRs must include a discussion of the potential significant energy impacts of proposed projects, with particular emphasis on avoiding or reducing inefficient, wasteful, and unnecessary consumption of energy. Appendix F of the CEQA Guidelines provides a list of energy-related topics that should be analyzed in an EIR. While not described as significance thresholds for determining the significance of impacts related to energy, Appendix F provides the following topics that the lead agency may consider in the energy analysis of an EIR, where topics are applicable or relevant to the project:

- The project’s energy requirements and its energy use efficiencies by amount and fuel type for each stage of the project’s life cycle including construction, operation, maintenance, and/or removal. If appropriate, the energy intensiveness of materials may be discussed.
- The effects of the project on local and regional energy supplies and on requirements for additional capacity.
- The effects of the project on peak and base period demands for electricity and other forms of energy.
- The degree to which the project complies with existing energy standards.
- The effects of the project on energy resources.
- The project’s projected transportation energy use requirements and its overall use of efficient transportation alternatives.

Warren-Alquist Act

The California legislature passed the Warren-Alquist Act in 1974, which created the CEC. The legislation also incorporated the following three key provisions designed to address the demand side of the energy equation:

- It directed the CEC to formulate and adopt the nation’s first energy conservation standards for both buildings constructed and appliances sold in California.
- It removed the responsibility of electricity demand forecasting from the utilities, which had a financial interest in high-demand projections, and transferred it to a more impartial CEC.
- It directed the CEC to embark on an ambitious research and development program, with a particular focus on fostering what were characterized as nonconventional energy sources.

Senate Bill 1368

On September 29, 2006, Governor Arnold Schwarzenegger signed into law SB 1368. The law limits long-term investments in baseload generation (minimum level of demand on an electrical grid over a span of time) by the state's utilities to those power plants that meet an emissions performance standard jointly established by the CEC and the CPUC.

The CEC has designed regulations that accomplish the following:

- Establish a standard for baseload generation owned by, or under long-term contract to, publicly owned utilities, of 1,100 pounds of CO₂ per megawatt-hour. This encourages the development of power plants that meet California's growing energy needs while minimizing their emissions of GHGs.
- Require posting of notices of public deliberations by publicly owned utilities on long-term investments on the CEC website. This facilitates public awareness of utility efforts to meet customer needs for energy over the long term while meeting the state's standards for environmental impact.
- Establish a public process for determining the compliance of proposed investments with the emissions performance standard.

Assembly Bill 1007

AB 1007 (2005) required the CEC to prepare a statewide plan to increase the use of alternative fuels in California (State Alternative Fuels Plan). The CEC prepared the plan in partnership with CARB and in consultation with other state agencies, plus federal and local agencies. The State Alternative Fuels Plan assessed various alternative fuels and developed fuel portfolios to meet California's goals to reduce petroleum consumption, increase alternative fuels use, reduce GHG emissions, and increase in-state production of biofuels without causing a significant degradation of public health and environmental quality.

Other Energy Reduction Regulations

The following state executive orders, statutes, and regulations achieve energy reduction co-benefits and are described in Section 3.2.2: AB 32 and SB 32, California Building Standards, AB 1493 ("Pavley" regulations), EO S-1-07, SB 375, Truck and Bus Regulation, On-Road Heavy-Duty Diesel Vehicles (In-Use) Regulation, CARB Advanced Clean Car and Trucks Program, EO B-16-12, SB 350, and SB 100. Please refer to Section 3.2.2 for additional, relevant information.

4.3 Significance Criteria and Methodology

4.3.1 Thresholds of Significance

The significance criteria used to evaluate the Proposed Project's potential impacts to energy are based on Appendix G of the CEQA Guidelines. According to Appendix G of the CEQA Guidelines, a significant impact related to energy would occur if the Project would:

- E-1) Result in wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation.

E-2) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

In regard to Threshold E-2, SDSU, as a public university under the jurisdiction of the state, is not subject to compliance with local plans and regulations. Project consistency with Threshold E-2 is discussed further in Section 4.4 below.

4.3.2 Approach and Methodology

As described in Section 2.4.2.2, the Proposed Project would demolish and replace existing residential units on the Peninsula Component site. The operational energy from the existing residential units on the Peninsula Component site was not quantified herein. As a result, this analysis conservatively reports all operational energy from the Proposed Project as new measured from a zero baseline, even though the actual change from the existing, on-site conditions would represent an incremental change that is smaller than reported below. Consistent with air quality and GHG, the mobile source petroleum use during operation was quantified for off-campus student housing.

4.3.2.1 Petroleum

Potential impacts related to the Proposed Project's consumption of petroleum (transportation fuels) were assessed through consideration of the projected traffic trip generation during construction and operation, as detailed in the CalEEMod outputs that were prepared for the Proposed Project (Appendix B). Trip generation was provided by Linscott, Law, & Greenspan, Engineers (LLG 2024). The methodology used to evaluate the Project's petroleum consumption accounts for the reductions in consumption attributable to the Project's provision of additional on-campus student housing opportunities, as described further below in Section 4.4.

Fuel consumption by the Proposed Project's construction equipment, including haul trucks and worker and vendor trips, was estimated by converting the total CO₂ emissions from each construction phase to gallons using conversion factors for CO₂ to gallons of gasoline or diesel. The conversion factor for gasoline is 8.78 kilograms per MT CO₂ per gallon, and the conversion factor for diesel is 10.21 kilograms per MT CO₂ per gallon (The Climate Registry 2023). All off-road construction equipment associated with construction activities, haul trucks involved in importing or exporting material to and from the site, and vendor vehicles are assumed to use diesel fuel. Conversely, it is assumed that construction workers would travel in the Project area in gasoline-powered vehicles.

The fuel consumption resulting from the Proposed Project's operational phase would be attributable to vehicle travel within the Project area. Similar to the construction analysis, fuel consumption for operation was estimated by converting the total CO₂ emissions from the Project to gallons using the conversion factors for CO₂ to gallons of gasoline or diesel.

Per CEQA Guidelines Appendix F, this analysis considers these factors and provides the Proposed Project's estimated petroleum consumption for the purposes of evaluating the associated impacts on energy resources and requirements.

4.3.2.2 Electricity and Natural Gas

The estimation of operational electricity and natural gas consumption was based on the CalEEMod land use defaults and units or total area (i.e., square footage) of the Proposed Project's land uses. The residential buildings would be

all-electric; as such, no natural gas would be used during their operation. The Project's Amenity Building, however, would include natural gas service for purpose of its dining facilities.

The National Renewable Energy Laboratory PVWatts estimator was used to estimate the energy produced by the solar component of the Proposed Project.

The methodology used to evaluate the Proposed Project's consumption of electricity and natural gas does not account for the existing consumption of the 13 buildings currently located on the Peninsula Component site that would be demolished to facilitate implementation of the Project. This is a conservative approach that serves to overestimate the Project's consumption of electricity and natural gas, as it utilizes a baseline of zero consumption in lieu of reporting an incremental change in consumption from the non-zero baseline that is part of the existing condition.

Per CEQA Guidelines Appendix F, this analysis quantifies the Proposed Project's electricity and natural gas consumption and evaluates the associated impacts on energy resources and requirements, peak and base period demand, and effects on the local and regional energy supplies, and also analyzes the Proposed Project's compliance with existing energy standards.

4.4 Impact Analysis

E-1) Would the Proposed Project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation?

Implementation of the Project would increase the demand for electricity, gasoline, and diesel consumption in the Project area during construction and operation, which are evaluated below.

Construction Use

Electricity

Temporary electric power for lighting and electronic equipment, such as computers, may be needed inside temporary construction trailers. Therefore, the focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the Proposed Project. The 2022 National Construction Estimator identifies a typical power cost per 1,000 square feet of construction land area per month of \$2.41, which was used to calculate the Project's total construction power cost (Pray 2022).

Based on information provided in Section 2.4.2.1, Construction, in the air quality analysis, construction activities are anticipated to occur over 105 months. Each phase is broken down into the schedule proposed for construction. As detailed in Table 22, the total electrical cost of the on-site electricity usage during the construction of the Proposed Project is estimated to be approximately \$52,865.18 in 2022 dollars.

Table 22. Construction Power Cost

Land Use	Power Cost (per 1,000 square feet of construction per month)	Size (1,000 square feet)	Construction Duration (months)	Project Construction Power Cost
Phase 1	\$2.41	292.2	22	\$15,492.44
Phase 2	\$2.41	174.24	18	\$7,558.53
Phase 3	\$2.41	174.24	18	\$7,558.53
Phase 4	\$2.41	174.24	17	\$7,138.61
Phase 5	\$2.41	174.24	17	\$7,138.61
Phase 6	\$2.41	174.24	19	\$7,978.45
Construction Power Cost in 2022 Dollars				\$52,865.18

Source: Pray 2022.

SDG&E's general service rate schedule was then used to determine the Project's electrical usage during the construction phase. As of January 1, 2022, SDG&E's general service rate is \$0.13 per kWh of electricity for industrial services (SDG&E 2022). By dividing the cost in Table 22 by the SDG&E rate, the total electricity usage from on-site Project construction related activities is estimated to be approximately 406,655 kWh (Table 23).

Table 23. Construction Electricity Usage

Project Component and Land Use	Cost per kWh	Project Construction Power Cost	Project Construction Electricity Usage (kWh)
Phase 1	\$0.13	\$15,492.44	119,173
Phase 2	\$0.13	\$7,558.53	58,143
Phase 3	\$0.13	\$7,558.53	58,143
Phase 4	\$0.13	\$7,138.61	54,912
Phase 5	\$0.13	\$7,138.61	54,912
Phase 6	\$0.13	\$7,978.45	61,373
Total Construction Electricity Usage (kWh)			406,655

Source: SDG&E 2022

Note: kWh = kilowatt-hour.

Natural Gas

Natural gas is not anticipated to be required during the Proposed Project's construction phase because construction activities for new buildings and facilities do not typically utilize natural gas. Nonetheless, any use of natural gas during construction would be sufficiently served by existing supply from SDG&E and would not require additional local or regional capacity. Any minor amounts of natural gas that may be consumed because of construction would be temporary and negligible and would not have an adverse effect.⁹

⁹ While no natural gas is anticipated to be used during construction because construction equipment is typically diesel-fueled, the possibility of natural gas use is acknowledged, in the event a natural gas-fueled piece of equipment is used. However, as noted previously, all equipment was assumed to be diesel-fueled in CalEEMod.

Petroleum

Heavy-duty equipment associated with construction during development of the Proposed Project would rely on diesel fuel, as would vendor trucks involved in the delivery of materials within the Project area and haul trucks responsible for importing or exporting materials. Construction workers would travel to and from the Project area throughout the duration of construction. Appendix B lists the assumed equipment usage and vehicle trips.

As previously discussed, fuel consumption from construction equipment was estimated by converting the total CO₂ emissions from each construction phase to gallons using the conversion factors for CO₂ to gallons of gasoline or diesel. The estimated diesel fuel usage from construction equipment, haul trucks, and vendor trucks, as well as estimated gasoline fuel usage from worker vehicles, is shown in Table 24.

Table 24. Total Project Construction Petroleum Demand

Year	Off-Road Equipment (diesel)	Haul Trucks (diesel)	Vendor Trucks (diesel)	Worker Vehicles (gasoline)
Gallons				
2025	13,479.92	21,614.40	15,179.86	15,399.77
2026	17,303.62	6,182.17	45,099.90	48,603.64
2027	11,642.70	0.00	24,850.15	47,923.69
2028	11,227.23	12,477.96	14,441.72	26,784.74
2029	13,350.64	80,281.10	12,565.13	26,452.16
2030	9,282.08	0.00	19,250.73	51,777.90
2031	13,654.26	2,448.58	16,283.06	30,700.46
2032	14,534.77	2,378.06	13,751.22	28,954.44
2033	13,533.79	0.00	16,857.00	35,452.16
2034	0.00	0.00	29.38	380.41
Total	108,726.93	125,382.27	159,057.43	260,651.48

Source: See Appendix B for outputs.

In summary, construction activities associated with the Proposed Project would consume approximately 260,652 gallons of gasoline from worker vehicles and approximately 393,167 gallons of diesel for off-road equipment, haul trucks, and vendor trucks. In the County, it is estimated that approximately 9.5 million gallons of petroleum would be consumed in 2025 from off-road equipment and 639 million gallons from on-road vehicles (CARB 2024d).

The Proposed Project would be subject to CARB's In-Use Off-Road Diesel Vehicle Regulation that applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulation (1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; (2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; (3) restricts the adding of older vehicles into fleets starting on January 1, 2014; and (4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The fleet must either show that its fleet average index was less than or equal to the calculated fleet average target rate or that the fleet has met the Best Achievable Control Technology requirements.

Overall, the Proposed Project would not be unusual when compared to overall local and regional demand for construction-related energy resources and would not require equipment that would be less energy-efficient than equipment at comparable construction sites in the region or state. Although not required to reduce petroleum use, the Proposed Project would employ electric construction equipment where feasible.

Considering these factors, the Proposed Project would not result in the inefficient, wasteful, or unnecessary consumption of construction energy. Therefore, construction impacts associated with the consumption of electricity, natural gas, and petroleum would be **less than significant**, and no mitigation is required.

Operational Use

Electricity

Project operation would require electricity for multiple purposes including, but not limited to, building heating and cooling, water heating, lighting, appliances, and electronics. Additionally, the supply, conveyance, treatment, and distribution of water would indirectly result in electricity usage.

CalEEMod was used to estimate Project emissions from electricity uses (see Appendix B for calculations). Default electricity generation rates in CalEEMod were used based on the proposed land use and climate zone. The increase in electricity demand for the future potential buildout of the Proposed Project is presented in Table 25.

Table 25. Project Annual Operational Electricity Demand Summary

Phase	Electricity Demand (kWh/year)
Phase 1	5,186,343
Phase 2	2,578,419
Phase 3	2,578,419
Phase 4	2,578,419
Phase 5	2,578,419
Phase 6	2,578,419
Total Project Electricity Demand	18,078,438

Notes: kWh = kilowatt hours.
See Appendix A.

As shown in Table 25, the increase in development is estimated to have a total electrical demand of approximately 18,078,438 kWh per year. According to PVWatts, the Proposed Project’s 308-kilowatt rooftop solar system is estimated to produce 528,254 kWh per year of renewable energy. The Proposed Project would result in the net consumption of 17,550,184 kWh of electricity per year (18,078,438 kWh of Project demand minus 528,254 kWh of Project generation).

In 2022, the nonresidential and residential electricity demand within San Diego County was 20,242,901,498 kWh (20,243 gigawatt-hours) (CEC 2024a). For context, therefore, the Proposed Project’s electricity demand would represent an approximate 0.09% increase in the County’s annual electricity demand.

Title 24 of the California Code of Regulations (CCR) serves to enhance and regulate California’s building standards. The most recently adopted amendments to Title 24, Part 6, referred to as the 2022 standards, became effective

on January 1, 2023. The proposed 2025 Title 24 standards—if adopted—likely would become effective on January 1, 2026, and would apply to phases of the Proposed Project built after that date. Compliance with the applicable Title 24 standards, which is required as a matter of law, would further ensure that the Proposed Project’s energy demands would not be inefficient, wasteful, or otherwise unnecessary.

Under peak conditions, the Project would have a peak demand of 14.7 megawatts on the SDG&E grid. In comparison to the SDG&E power grid base peak load of 4,942 megawatts for 2034, the Project would represent approximately 0.3% of the SDG&E base peak load conditions. Therefore, the Project would represent a minimal increase in the SDG&E grid base peak load. Furthermore, the Proposed Project’s Peninsula Component site is on the SDSU electric grid and thus would not put demand on SDG&E.

In summary, the impacts related to electrical supply and infrastructure capacity and the Proposed Project’s effect on peak and base period demands would be **less than significant**.

Natural Gas

Operation of the Proposed Project’s Amenity Building would use natural gas for cooking. Natural gas consumption associated with operation is based on the CalEEMod outputs presented in Appendix B.

CalEEMod default values for energy consumption for each land use were applied for the Project analysis. The energy use from non-residential land uses is calculated in CalEEMod based on the California Commercial End-Use Survey database. Energy use in buildings (both natural gas and electricity) is divided by the program into end use categories subject to Title 24 requirements (end uses associated with the building envelope, such as the heating, ventilation, and air conditioning system; water heating system; and integrated lighting) and those not subject to Title 24 requirements (such as appliances, electronics, and miscellaneous “plug-in” uses). Table 26 shows the estimated natural gas demand from the Proposed Project.

Table 26. Project Annual Operational Natural Gas Demand Summary

Land Use	Natural Gas Demand (kBTU/year)
Amenity Building	1,686,087

Notes: kBTU = thousand British Thermal Units.
See Appendix B.

As shown in Table 26, the increase in natural gas demand from the Proposed Project is estimated to be 1,686,087 thousand British thermal units per year. In comparison, the natural gas consumption in 2022 was 52,230,924,400 thousand British thermal units for the County (CEC 2024b). According to SDG&E data, natural gas demand is estimated to be 83 billion cubic feet per year in 2025. Based on the Proposed Project’s estimated natural gas consumption as shown in Table 26, the Proposed Project would account for approximately 0.002% of SDG&E’s 2025 demand. Therefore, it is anticipated that SDG&E’s existing and planned natural gas supplies would be sufficient to support the Proposed Project’s demand for natural gas.

Based on the above, the Proposed Project would not have a significant effect on local and regional natural gas supplies or require additional capacity. Therefore, impacts related to natural gas would be **less than significant**.

Petroleum

During operations, the majority of fuel consumption resulting from the Proposed Project would involve the use of motor vehicles traveling to and from the Project site, as well as fuels used for alternative modes of transportation that may be used by residents.

Petroleum fuel consumption associated with motor vehicles traveling to and from the Project site is a function of the VMT as a result of Project operation. As shown in Appendix B (CalEEMod outputs are discussed in Section 2.5, Impact Analysis, and Section 3.5, Impact Analysis, in the air quality and GHG chapters, respectively), the annual VMT attributable to the Proposed Project is expected to be 7,933,640 VMT. However, as discussed in Section 2.4.2, the Proposed Project would avoid approximately 30,039,266 VMT per year by providing students with increased on-campus housing opportunities that otherwise would need to reside at off-campus locations. Stated differently, by increasing the number of on-campus student beds available to serve SDSU students and creating opportunities for students to reside on campus in lieu of more distant off-campus locations, the Proposed Project would improve the efficiency of VMT per student travel patterns. The Proposed Project would therefore beneficially result in a reduction of 22,105,626 VMT per year. Countywide, the annual VMT is estimated to be 36,294,565,157 per year in 2034 (CARB 2024d).

Similar to the construction analysis, fuel consumption is estimated by converting the total CO₂ emissions from operation of the Proposed Project to gallons using the conversion factors for CO₂ to gallons of gasoline or diesel. Based on the annual fleet mix provided in CalEEMod, 80.4% of the fleet range (from light-duty to medium-duty vehicles and motorcycles) are assumed to be fueled by gasoline. The remaining 19.6% of vehicles (medium-heavy duty to heavy-duty vehicles and buses) are assumed to run on diesel. The gasoline consumption also includes fuel used for landscaping equipment. Calculations for annual mobile source fuel consumption are provided in Table 27.

Table 27. Annual Petroleum Demand

Fuel	Vehicle MT CO ₂	kg/CO ₂ /Gallon	Gallons
Project			
Gasoline	2,157.44	8.78	245,722.10
Diesel	526.98	10.21	51,614.10
Total			297,336.20
Existing			
Gasoline	9,030.47	8.78	1,028,527.33
Diesel	2,205.80	10.21	216,043.10
Total			1,244,570.43
Net (Project – Existing)			(947,234.23)

Sources: Appendix B; The Climate Registry 2023.
Note: MT = metric ton; CO₂ = carbon dioxide; kg = kilogram.

As shown in Table 27, the Proposed Project would result in a net reduction in petroleum usage of 947,234 gallons per year. By comparison, California as a whole consumes approximately 28.7 billion gallons of petroleum per year (EIA 2022c). Countywide total petroleum use by on-road vehicles is expected to be 639 million gallons per year by 2025 (CARB 2024d).

With respect to operational transportation-related fuel usage and in relation to CEQA Guidelines Appendix F, enhanced fuel economies realized pursuant to federal and state regulatory actions and the related transition of vehicles to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT.

Based on the above, the Proposed Project's operational consumption of petroleum would be **less than significant**.

Renewable Energy Potential

As part of the Proposed Project's planning process, SDSU considered how the Project could potentially increase its reliance on renewable energy sources to meet the Proposed Project's anticipated energy demand. Consistent with the CEC's definition of eligible renewables, energy sources that were considered for their potential to power the Project include biomass, geothermal, solar, wind, and small hydroelectric facilities.

Given the Proposed Project's location and the nature of the Project, there are anticipated considerable site constraints at a parcel level that would eliminate the potential for biomass, geothermal, and hydroelectric renewable energy to be installed within the Project area. These constraints include, but are not necessarily limited to, incompatibility with on-site and surrounding land uses for large-scale power generation facilities, unknown interconnection feasibility concerns, potential incompatibility issues with utility provider systems, and no known water or geothermal resources to harness. Regarding wind power, due to the nature of the Project area parcels and surrounding land uses, wind turbines are generally anticipated to be unfeasible, because they represent an incompatible use due to the height of the wind turbine blades and the need to avoid nearby obstacles.¹⁰

Regarding solar power, the Proposed Project is designed to include at least a 308-kW solar system. As SDG&E moves toward decarbonizing its power sources in accordance with SB 100, the renewable content of the grid-sourced electricity will also increase over time.

As explained above, the Proposed Project is a student housing project and would not result in wasteful, inefficient, or unnecessary consumption of energy resources, including electricity, natural gas, or petroleum during Project construction or operation. Impacts would be **less than significant**.

E-2) Would the Proposed Project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Construction

The Proposed Project's construction contractors would be required to demonstrate compliance with applicable regulations, including federal and state requirements for construction equipment. For example, with respect to construction truck fleet operators, EPA and NHSTA have adopted fuel-efficiency standards for medium- and heavy-duty trucks that have been phased in over time. The Phase 1 heavy-duty truck standards apply to combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles for model years 2014 through 2018, and result in a reduction in fuel consumption from 6% to 23% over the 2010 baseline, depending on the vehicle type (EPA 2011). The Phase 2 heavy-duty truck standards, which cover model years 2021 through 2027, require the phase-in of a 5% to 25% reduction in fuel consumption over the 2017 baseline, depending on the compliance year and

¹⁰ A general rule of thumb is to install a wind turbine on a tower with the bottom of the rotor blades at least 30 feet above anything within a 500-foot horizontal radius and to site it upwind of buildings and trees (APA 2011; NREL 2015).

vehicle type (EPA and NHTSA 2016). The energy modeling presented in this report for trucks does not consider specific fuel reductions from these regulations, because they would apply to fleets as they incorporate newer trucks meeting the regulatory standards; however, these regulations would have an overall beneficial effect on reducing fuel consumption from trucks over time as older trucks are replaced with newer models that meet the standards.

In addition, construction equipment and trucks are required to comply with CARB regulations regarding idling limits of 5 minutes per occurrence. Off-road emissions standards would also increase equipment efficiencies as they are phased-in over time, and as less-efficient equipment is phased out of construction fleets. These regulatory standards would achieve energy savings in the form of reduced fuel consumption from more fuel-efficient engines. Although these requirements are intended to reduce criteria pollutant emissions, compliance with the anti-idling and emissions regulations would also result in the efficient use of construction-related energy. Thus, based on the information above, construction and operation of the Proposed Project would comply with state and local plans for renewable energy or energy efficiency.

Per CEQA Guidelines Appendix F, the Proposed Project's construction equipment would be consistent with the energy standards applicable to construction equipment, including limiting idling fuel consumption and using contractors that comply with applicable CARB regulatory standards that affect energy efficiency. Therefore, the Proposed Project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency during Project construction, and impacts would be **less than significant**.

Operation

The solar photovoltaic generation infrastructure would support the renewable energy goals of SDSU's CAP and the CSU Sustainability Policy. Additionally, Part 6 of CCR Title 24 specifically establishes energy efficiency standards for residential and nonresidential buildings constructed in the State of California in order to reduce energy demand and consumption. The Proposed Project would comply with CCR Title 24, Part 6, per state regulations. In accordance with Title 24, Part 6, the Proposed Project would have (a) sensor-based lighting controls—for fixtures located near windows, the lighting would be adjusted by taking advantage of available natural light—and (b) efficient process equipment—improved technology offers significant savings through more efficient processing equipment. CCR Title 24, Part 11, contains voluntary and mandatory energy measures that are applicable to the Proposed Project under CALGreen. In accordance with CCR Title 24, Part 11, mandatory compliance, the Proposed Project would have (a) 50% of its construction and demolition waste diverted from landfills; (b) mandatory inspections of energy systems to ensure optimal working efficiency; (c) low-pollutant-emitting exterior and interior finish materials, such as paints, carpets, vinyl flooring, and particle boards; and (d) a 20% reduction in indoor water use. Compliance with all of these mandatory measures would decrease the consumption of electricity, natural gas, and petroleum.

Because the Proposed Project would comply with CCR Title 24, Part 6 and Part 11, the Project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency, and impacts would be **less than significant**.

E-3) Would the Proposed Project result in a cumulatively considerable energy impact?

This section provides an analysis of cumulative impacts from construction and operation of the Proposed Project and other past, present, and reasonably foreseeable future projects, as required by Section 15130 of the CEQA Guidelines. Where a lead agency concludes that the cumulative effects of a project taken together with the impacts of other closely related past, present, and reasonably foreseeable future projects are significant, the lead agency

then must determine whether the project's incremental contribution to such significant cumulative impact is "cumulatively considerable" (and thus significant in and of itself).

Cumulative projects that could exacerbate the Proposed Project's impacts include any projects that could result in wasteful, inefficient, or unnecessary use of energy. However, cumulative projects would be required, as applicable, to conform to current federal, state, and local energy conservation standards, including the California Energy Code Building Energy Efficiency Standards (24 CCR Part 6), CALGreen (24 CCR Part 11), and SB 743.

As a result, the Proposed Project, in combination with other reasonably foreseeable projects, would not cause a wasteful use of energy or other nonrenewable natural resources. Therefore, the energy demand and use associated with the Project and cumulative projects would not substantially contribute to a cumulative impact on existing or proposed energy supplies or resources and would not cause a significant cumulative impact on energy resources.

The Proposed Project would result in a net reduction in VMT and associated petroleum use and would therefore not contribute to the petroleum use within the County. Therefore, the Proposed Project would not result in a cumulatively considerable impact to petroleum use.

The Proposed Project would not conflict with applicable plans for renewable energy or energy efficiency, as it would be required to include solar and adhere to other building efficiency standards pursuant to Title 24. As such, the Project, in combination with other reasonably foreseeable projects, would not conflict with a state or local plan for renewable energy or energy efficiency.

Cumulative energy impacts would be considered **less than significant**.

5 References Cited

- 13 CCR 2025. Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen and Other Criteria Pollutants, from In-Use Heavy-Duty Diesel-Fueled Vehicles.
- 13 CCR 2449–2449.3 and Appendix A. General Requirements for In-Use Off-Road Diesel-Fueled Fleets. 14 CCR 15000–15387 and Appendices A–L. Guidelines for Implementation of the California Environmental Quality Act, as amended.
- 14 CCR 15000–15387 and Appendices A–L. Guidelines for Implementation of the California Environmental Quality Act, as amended.
- 17 CCR 93000. Substances Identified as Toxic Air Contaminants. In Subchapter 7, Toxic Air Contaminants.
- 24 CCR Part 6. California Energy Code. Sacramento, California: California Building Standards Commission. March 2010. ISBN 978-1-58001-976-7. Effective January 1, 2011. Accessed August 2016. http://www.documents.dgs.ca.gov/bsc/Title_24/documents/2010/Part%206/2010-CA-Energy.pdf.
- APA (American Planning Association). 2011. *Planning for Wind Energy*. https://planning-org-uploaded-media.s3.amazonaws.com/legacy_resources/research/wind/pdf/pas566.pdf.
- California Department of Public Health. 2022. *Epidemiologic Summary of Coccidioidomycosis in California, 2020–2021*. December. <https://www.cdph.ca.gov/Programs/CID/DCDC/CDPH%20Document%20Library/CocciEpiSummary2020-2021.pdf>.
- CalRecycle (California Department of Resources, Recycling, and Recovery). 2015. *AB 341 Report to the Legislature*. August 2015.
- CAPCOA (California Air Pollution Control Officers Association). 2024. *California Emissions Estimator Model (CalEEMod) User's Guide Version 2022.1.1.6*. <https://caleemod.com/user-guide>.
- CARB (California Air Resources Board). 2000. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*. October 2000. Accessed August 2016. <http://www.arb.ca.gov/diesel/documents/rrpfinal.pdf>.
- CARB. 2005. *Air Quality and Land Use Handbook: A Community Health Perspective*. April 2005. Accessed August 2016. <http://www.arb.ca.gov/ch/landuse.htm>.
- CARB. 2008. *Climate Change Scoping Plan: A Framework for Change*. December 2008. Accessed December 2021. <http://www.arb.ca.gov/cc/scopingplan/document/scopingplandocument.htm>.
- CARB. 2014a. "California Greenhouse Gas Inventory for 2000–2012—by Category as Defined in the 2008 Scoping Plan." Last updated March 24, 2014. Accessed December 2021. http://www.arb.ca.gov/cc/inventory/data/tables/ghg_inventory_scopingplan_00-12_2014-03-24.pdf.

- CARB. 2014b. *First Update to the Climate Change Scoping Plan Building on the Framework Pursuant to AB 32 – The California Global Warming Solutions Act of 2006*. May 2014. Accessed December 2021. http://www.arb.ca.gov/cc/scopingplan/2013_update/first_update_climate_change_scoping_plan.pdf.
- CARB. 2016a. "Glossary of Air Pollution Terms." CARB website. Accessed June 2016. <http://www.arb.ca.gov/html/gloss.htm>.
- CARB. 2016b. "Overview: Diesel Exhaust and Health." April 12, 2016. Accessed December 2016. <https://www.arb.ca.gov/research/diesel/diesel-health.htm>.
- CARB. 2016c. "Ambient Air Quality Standards." May 4, 2016. Accessed August 2016. <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>.
- CARB. 2016d. "Area Designation Maps/State and National." Last updated May 5, 2016. Accessed August 2016. <http://www.arb.ca.gov/desig/adm/adm.htm>.
- CARB. 2017. *The 2017 Climate Change Scoping Plan Update*. January 20, 2017. Accessed December 2021. https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf.
- CARB. 2021a. *Advanced Clean Cars Program*. Accessed December 2021. <https://ww2.arb.ca.gov/our-work/programs/advanced-clean-cars-program/about>.
- CARB. 2021b. *Low Carbon Fuel Standard Data Dashboard*. August 30. <https://www.arb.ca.gov/fuels/lcfs/dashboard/dashboard.htm>.
- CARB. 2022. *2022 Scoping Plan for Achieving Carbon Neutrality*. November 16. <https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents>.
- CARB. 2024a. "Ambient Air Quality Standards." May 4, 2016. Accessed August 2024. https://ww2.arb.ca.gov/sites/default/files/2024-08/AAQS%20Table_ADA_FINAL_07222024.pdf.
- CARB. 2024b. "iADAM: Air Quality Data Statistics." Accessed July 2016. <http://www.arb.ca.gov/adam/topfour/topfour1.php>.
- CARB. 2024c. *California Greenhouse Gas Emissions from 2000 to 2022: Trends of Emissions and Other Indicators*. September 20. https://ww2.arb.ca.gov/sites/default/files/2024-09/nc-2000_2022_ghg_inventory_trends.pdf.
- CARB. 2024d. EMFAC (Emission Factor). "Welcome to EMFAC." Accessed August 29, 2023. <https://arb.ca.gov/emfac/>.
- CAT (Climate Action Team). 2006. *Climate Action Team Report to Governor Schwarzenegger and the Legislature*. March. https://planning.lacity.gov/eir/8150Sunset/References/4.E.%20Greenhouse%20Gas%20Emissions/GHG.23_CalEPA%202006%20Report%20to%20Governor.pdf.
- CAT. 2010. *Climate Action Team Report to Governor Schwarzenegger and the California Legislature*. December. <https://research.fit.edu/media/site-specific/researchfitedu/coast-climate-adaptation-library/>

united-states/west-coast-amp-hawaix27i/california---statewide/Bonner-et-al.-2010.-Climate-Action-Team-Report-to-State-Officials.pdf.

CCCC (California Climate Change Center). 2006. *Our Changing Climate: Assessing the Risks to California*. CEC-500-2006-077. July 2006. Accessed December 2021. <http://www.energy.ca.gov/2006publications/CEC-500-2006-077/CEC-500-2006-077.PDF>.

CCCC. 2012. *Our Changing Climate 2012: Vulnerability & Adaptation to the Increasing Risks from Climate Change in California*. July 2012. Accessed December 2021. <http://www.energy.ca.gov/2012publications/CEC-500-2012-007/CEC-500-2012-007.pdf>.

CEC (California Energy Commission). 2018. "2019 Building Energy Efficiency Standards Fact Sheet." March 2018. https://www.energy.ca.gov/title24/2019standards/documents/2018_Title_24_2019_Building_Standards_FAQ.pdf.

CEC. 2022. "California Energy Demand Forecast, 2021–2035." <https://efiling.energy.ca.gov/GetDocument.aspx?tn=241219>.

CEC. 2023. *2023 Integrated Energy Policy Report*. <https://efiling.energy.ca.gov/GetDocument.aspx?tn=254463>.

CEC. 2024a. *Electricity Consumption By County*. <http://www.ecdms.energy.ca.gov/elecbycounty.aspx>.

CEC. 2024b. *Natural Gas Consumption By County*. <http://www.ecdms.energy.ca.gov/gasbycounty.aspx>.

CNRA (California Natural Resources Agency). 2009. *Final Statement of Reasons for Regulatory Action: Amendments to the State CEQA Guidelines Addressing Analysis and Mitigation of Greenhouse Gas Emissions Pursuant to SB 97*. December 2009.

CNRA. 2014. *Safeguarding California: Reducing Climate Risk. An Update to the 2009 California Climate Adaptation Strategy*. Accessed December 2021. http://resources.ca.gov/docs/climate/Final_Safeguarding_CA_Plan_July_31_2014.pdf.

CNRA. 2016. *Safeguarding California: Implementing Action Plans*. March 2016. Accessed December 2021. <http://resources.ca.gov/docs/climate/safeguarding/Safeguarding%20California-Implementation%20Action%20Plans.pdf>.

CNRA. 2018. *Safeguarding California Plan: 2018 Update, California's Climate Adaptation Strategy*. January 2018. <http://resources.ca.gov/docs/climate/safeguarding/update2018/safeguarding-california-plan-2018-update.pdf>.

CNRA. 2019. *California's Fourth Climate Change Assessment, San Diego Region*. March 21. https://www.energy.ca.gov/sites/default/files/2019-11/Reg_Report-SUM-CCCA4-2018-009_SanDiego_ADA.pdf.

County of San Diego. 2023. *County of San Diego Communicable Disease Report, 2021*. June. https://www.sandiegocounty.gov/content/dam/sdc/hhsa/programs/phs/Epidemiology/Annual_Report_2021.pdf.

- CPUC (California Public Utilities Commission). 2008. *2008 Update Energy Action Plan*. February. https://www.cpuc.ca.gov/-/media/cpuc-website/files/uploadedfiles/cpuc_public_website/content/utilities_and_industries/energy_-_electricity_and_natural_gas/2008-energy-action-plan-update.pdf.
- CPUC. 2020. *2020 California Renewables Portfolio Standard Annual Report*. November 2020. Accessed March 2021. <https://www.cpuc.ca.gov/-/media/cpuc-website/industries-and-topics/documents/energy/rps/2022-rps-annual-report-to-the-legislature.pdf>.
- CSU (California State University). 2022. *California State University Sustainability Policy*. Policy Stat ID 11699668. Accessed August 2023. Available: <https://calstate.policystat.com/policy/11699668/latest/>.
- EIA (U.S. Energy Information Administration). 2021. "Total Petroleum Consumption Estimates, 2020." *California: State Profile and Energy Estimates*. Accessed August 29, 2023. https://www.eia.gov/state/seds/data.php?incfile=/state/seds/sep_fuel/html/fuel_use_pa.html&sid=US&sid=CA.
- EIA. 2022a. "State Electricity Profiles – California Electricity Profile 2021." <https://www.eia.gov/electricity/state/california/index.php>.
- EIA. 2022b. "Natural Gas Consumption by End Use." May 31, 2022. Accessed June 22, 2022. https://www.eia.gov/dnav/ng/ng_cons_sum_a_EPGO_VCO_mmcf_a.htm.
- EIA. 2022c. "Total Petroleum Consumption Estimates, 2021." [Online] 2021. Accessed March 2021. https://www.eia.gov/state/seds/data.php?incfile=/state/seds/sep_fuel/html/fuel_use_pa.html&sid=US&sid=CA.
- EIA. 2023. "California State Energy Profile." <https://www.eia.gov/state/print.php?sid=CA>.
- EPA (U.S. Environmental Protection Agency). 2007. *The Energy Independence and Security Act of 2007*. December 19. Accessed October 2017. <https://www.gpo.gov/fdsys/pkg/BILLS-110hr6enr/pdf/BILLS-110hr6enr.pdf>.
- EPA. 2009. *Integrated Science Assessment for Particulate Matter*. U.S. EPA, EPA/600/R-08/139F, 2009.
- EPA. 2011. *Greenhouse Gas Emissions Standards and Fuel Efficiency Standards for Medium- and Heavy-Duty Engines and Vehicles*. <https://www.govinfo.gov/content/pkg/FR-2011-09-15/pdf/2011-20740.pdf>.
- EPA. 2013. *Integrated Science Assessment of Ozone and Related Photochemical Oxidants*. U.S. EPA, EPA/600R-10/076F, 2013.
- EPA. 2016a. "Criteria Air Pollutants." July 21, 2016. Accessed August 2016. <https://www.epa.gov/criteria-air-pollutants>.
- EPA. 2016b. *Integrated Science Assessment for Oxides of Nitrogen-Health Criteria (2016 Final Report)*. U.S. EPA, EPA/600/R-15/068, 2016.

- EPA. 2016c. "Area Designations for the 2010 Primary Sulfur Dioxide National Ambient Air Quality Standard – Round 3." July 22, 2016. Accessed February 2017. <https://www.epa.gov/sites/production/files/2016-07/documents/areadesign.pdf>.
- EPA. 2016d. "EPA Region 9 Air Quality Maps and Geographic Information." Last updated April 27, 2016. Accessed August 2016. <http://www.epa.gov/region9/air/maps/>.
- EPA. 2016e. "Glossary of Climate Change Terms." August 9, 2016. Accessed December 2021. <https://www3.epa.gov/climatechange/glossary.html>.
- EPA. 2017a. "Climate Change." Last updated January 19, 2017. Accessed December 2021. <https://www.epa.gov/climatechange>.
- EPA. 2017b. "Overview for Renewable Fuel Standard." Last updated June 7, 2017. Accessed February 2019. <https://www.epa.gov/renewable-fuel-standard-program/overview-renewable-fuel-standard>.
- EPA. 2023. *AERMOD Implementation Guide*. https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod_implementation_guide.pdf.
- EPA. 2024a. "NAAQS Table." Last updated February 2024. <https://www.epa.gov/criteria-air-pollutants/naaqs-table>.
- EPA. 2024b. "AirData: Access to Air Pollution Data." http://www.epa.gov/airdata/ad_rep_mon.html.
- EPA. 2024c. *Inventory of US Greenhouse Gas Emissions and Sinks 1990-2022*. https://www.epa.gov/system/files/documents/2024-04/us-ghg-inventory-2024-main-text_04-18-2024.pdf.
- IPCC (Intergovernmental Panel on Climate Change). 1995. *IPCC Second Assessment*. <https://archive.ipcc.ch/pdf/climate-changes-1995/ipcc-2nd-assessment/2nd-assessment-en.pdf>.
- IPCC. 2007. *IPCC Fourth Assessment Synthesis of Scientific-Technical Information Relevant to Interpreting Article 2 of the U.N. Framework Convention on Climate Change*.
- IPCC. 2013. *Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Accessed December 2021. <http://www.ipcc.ch/report/ar5/wg1>.
- IPCC. 2014. *Climate Change 2014 Synthesis Report: A Report of the Intergovernmental Panel on Climate Change. Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Accessed December 2021. <http://www.ipcc.ch/report/ar5/syr/>.
- i-Tree. 2022. *i-Tree Planting Calculator v 2.2.0*. Accessed June 2022. <https://planting.itreetools.org/>.
- Joint Research Centre. 2023. *GHG Emissions of all Worldwide Countries*. https://edgar.jrc.ec.europa.eu/booklet/GHG_emissions_of_all_world_countries_booklet_2023report.pdf.

- LLG (Linscott, Law, & Greenspan, Engineers). 2024. *Transportation Study San Diego State University Evolve*. October 9.
- NREL (National Renewable Energy Laboratory). 2015. *Small Wind Site Assessment Guidelines*. September 2015. <https://www.nrel.gov/docs/fy15osti/63696.pdf>.
- NREL. 2024. PVWatts Calculator. Accessed November 2024. <https://pvwatts.nrel.gov/>.
- OEHHA (Office of Environmental Health Hazard Assessment). 2015. *Air Toxics Hot Spots Program Risk Assessment Guidelines: The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. California Environmental Protection Agency, OEHHA. February 2015. Accessed April 3, 2018. http://oehha.ca.gov/air/hot_spots/2015/2015GuidanceManual.pdf.
- OPR (Governor's Office of Planning and Research). 2008. *CEQA and Climate Change: Addressing Climate Change through California Environmental Quality Act (CEQA) Review*.
- Pray, R. 2022. *2022 National Construction Estimator*. Carlsbad: Craftsman Book Company.
- SANDAG (San Diego Association of Governments). 2016. *2016 Regional Transportation Improvement Program*. Accessed November 2016. http://www.sandag.org/uploads/publicationid/publicationid_2071_21174.pdf.
- SANDAG. 2017a. *Series 13: 2050 Regional Growth Forecast*. Accessed June 2017. <http://www.sandag.org/index.asp?classid=12&subclassid=84&projectid=503&fuseaction=projects.detail>.
- SANDAG. 2017b. *2050 Regional Transportation Plan*. Accessed June 2017. <http://www.sandag.org/index.asp?projectid=349&fuseaction=projects.detail>.
- SANDAG. 2021. *2021 Regional Plan*. Adopted December 10, 2021. <https://sdforward.com/mobility-planning/2021-regional-plan>.
- SANDAG. 2024. *Series 15 Regional Forecast, San Diego*. July 24. https://adlsdasadsprodpublicwest.z22.web.core.windows.net/datasurfer/sandag_forecast_15_jurisdiction_san%20diego.pdf.
- SBCAPCD (Santa Barbara County Air Pollution Control District). 2023. *Modeling Guidelines for Health Risk Assessments*. December. <https://www.ourair.org/wp-content/uploads/apcd-15i.pdf>.
- SCAQMD (South Coast Air Quality Management District). 1993. *CEQA Air Quality Handbook*.
- SCAQMD. 2010. "Agenda for Meeting 15. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group." September 28, 2010. [https://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf](https://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf).
- SDAPCD (San Diego Air Pollution Control District). 1969. *Rules and Regulations. Regulation IV. Prohibitions. Rule 51. Nuisance*. Effective January 1, 1969.

- SDAPCD. 1997. *Rules and Regulations. Regulation IV. Prohibitions. Rule 50. Visible Emissions*. Effective August 13, 1997. Accessed June 2017. http://www.sandiegocounty.gov/content/dam/sdc/apcd/PDF/Rules_and_Regulations/Prohibitions/APCD_R50.pdf.
- SDAPCD. 2005. *Measures to Reduce Particulate Matter in San Diego County*. December 2005. Accessed October 2017. <http://www.sdapcd.org/planning/plan.html>.
- SDAPCD. 2009. SDAPCD Regulation IV: Prohibitions; Rule 55: Fugitive Dust. June 24, 2009. Accessed October 2017. http://www.sandiegocounty.gov/content/dam/sdc/apcd/PDF/Rules_and_Regulations/Prohibitions/APCD_R55.pdf.
- SDAPCD. 2015a. 5-Year Air Quality Monitoring Network Assessment 2015. July. Accessed December 2017. http://www.sdapcd.org/content/dam/sdc/apcd/monitoring/2015_Network_Assessment.pdf.
- SDAPCD. 2015b. SDAPCD Regulation IV: Prohibitions; Rule 67.0.1: Architectural Coatings. June 24. Accessed May 2017. http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Rules_and_Regulations/Prohibitions/APCD_R67-0-1.pdf.
- SDAPCD. 2016a. *2008 Eight-Hour Ozone Attainment Plan for San Diego County*. Updated December 2016. <http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Air%20Quality%20Planning/8-Hr-O3%20Attain%20Plan-08%20Std.pdf>.
- SDAPCD. 2016b. *2016 Revision of the Regional Qir Quality Strategy for San Diego County*. December 2016. Accessed June 2017. <http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Air%20Quality%20Planning/2016%20RAQS.pdf>.
- SDAPCD. 2017a. Regulation XII. Toxic Air Contaminates; Rule 1200: Toxic Air Contaminates – New Source Review. Accessed October 2017. http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Rules_and_Regulations/Toxic_Air_Cotaminants/ACPD_R1200.pdf.
- SDAPCD. 2017b. Regulation XII. Toxic Air Contaminates; Rule 1210: Toxic Air Contaminates – Public Notification and Risk Reduction. Accessed October 2017. http://www.sdapcd.org/content/dam/sdc/apcd/PDF/Rules_and_Regulations/Toxic_Air_Cotaminants/APCD_R1210.pdf.
- SDAPCD. 2019. SDAPCD Regulation II: Permits; Rule 20.2: New Source Review—Non-Major Sources. June 26. <https://www.sdapcd.org/content/dam/sdapcd/documents/rules/current-rules/Rule-20.2.pdf>.
- SDAPCD. 2020. *2020 Plan for Attaining the National Ambient Air Quality Standards for Ozone in San Diego County*. October 2020. Accessed June 2022. [https://www.sdapcd.org/content/dam/sdapcd/documents/grants/planning/Att%20A%20\(Attainment%20Plan\)_ws.pdf](https://www.sdapcd.org/content/dam/sdapcd/documents/grants/planning/Att%20A%20(Attainment%20Plan)_ws.pdf).
- SDAPCD. 2021. Rule 67.0/1 Architectural Coatings (Rev. Adopted February 10, 2021, Effective January 1, 2022).
- SDAPCD. 2022. Supplemental Guidelines for Submission of Air Toxics Hot Spots Program HRAs. July. <https://www.sdapcd.org/content/dam/sdapcd/documents/permits/air-toxics/Hot-Spots-Guidelines.pdf>

- SDG&E (San Diego Gas and Electric). 2022. *Available Rates for Medium & Large Commercial Customers*. <https://www.sdge.com/sites/default/files/regulatory/Summary%20Table%20for%20Large%20Comm%201-1-22%20EV-HP%20Update.pdf>.
- SDG&E. 2024. *Our Company*. <https://www.sdge.com/more-information/our-company>.
- SDSU (San Diego State University). 2017. *Climate Action Plan for San Diego State University*. https://sustainable.sdsu.edu/_resources/files/sdsu-climate-action-plan-2017.pdf.
- The Climate Registry. 2023. *Default Emission Factors*. <https://theclimateregistry.org/wp-content/uploads/2023/06/2023-Default-Emission-Factors-Final-1.pdf>.
- WRCC (Western Region Climate Center). 2024. *Climate Summary for San Diego Lindbergh, California*. <https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca7740>.

6 List of Preparers

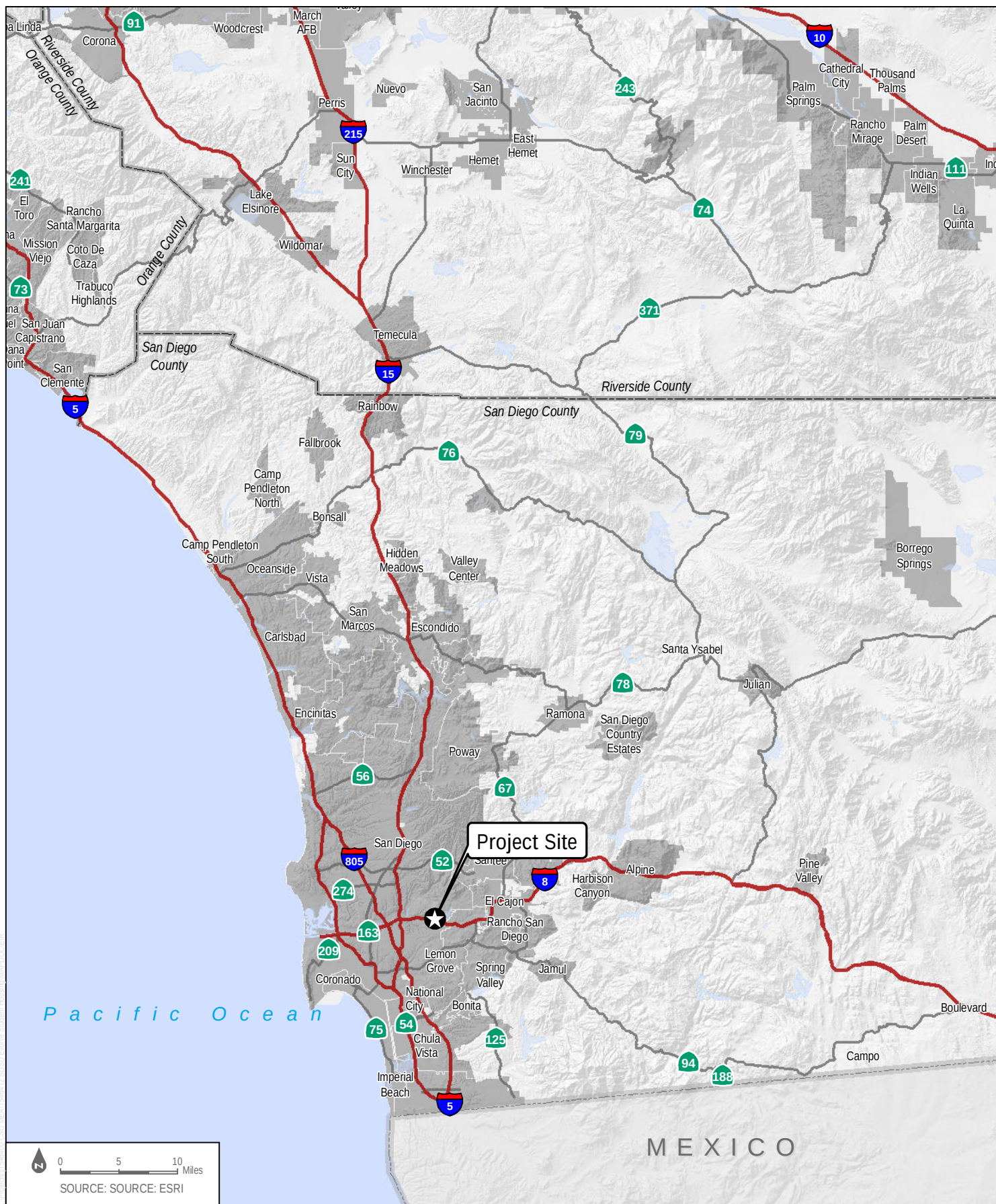
Adam Poll, Senior Air Quality Specialist

Collin Paludi, Air Quality Specialist

Hannah Wertheimer-Roberts, Senior Technical Editor

Lis Varela, Formatting Specialist

INTENTIONALLY LEFT BLANK



SDSU Evolve Student Housing



Figure 1
Regional Map

INTENTIONALLY LEFT BLANK



INTENTIONALLY LEFT BLANK

Appendix A

Health Risk Assessment

Table of Contents

HRA Results	3
SDSU Evolve Phase 1 HRA Detailed Report	51
SDSU Evolve Phase 1.ADO	113
Phase 1 - OffsiteOutput	198
Phase 1 - OffsiteCancerRiskSumByRec	200
Phase 1 - OffsiteNCChronicRiskSumByRec	212
Phase 1 - OnsiteOutput	223
Phase 1 - OnsiteCancerRiskSumByRec	225
Phase 1 - OnsiteNCChronicRiskSumByRec	237
SDSU Evolve Phase 2 HRA Detailed Report	248
SDSU Evolve Phase 2.ADO	303
Phase 2 OffsiteOutput	398
Phase 2 OffsiteCancerRiskSumByRec	400
Phase 2 OffsiteNCChronicRiskSumByRec	412
Phase 2 OnsiteOutput	423
Phase 2 OnsiteCancerRiskSumByRec	425
Phase 2 OnsiteNCChronicRiskSumByRec	437
SDSU Evolve Phase 3 HRA Detailed Report	448
SDSU Evolve Phase 3.ADO	500
Phase 3 OffsiteOutput	613
Phase 3 OffsiteCancerRiskSumByRec	615
Phase 3 OffsiteNCChronicRiskSumByRec	627
Phase 3 OnsiteOutput	638
Phase 3 OnsiteCancerRiskSumByRec	640
Phase 3 OnsiteNCChronicRiskSumByRec	652
SDSU Evolve Phase 4 HRA Detailed Report	663
SDSU Evolve Phase 4.ADO	718
Phase 4 OffsiteOutput	844
Phase 4 OffsiteCancerRiskSumByRec	846
Phase 4 OffsiteNCChronicRiskSumByRec	858
Phase 4 OnsiteOutput	869
Phase 4 OnsiteCancerRiskSumByRec	871
Phase 4 OnsiteNCChronicRiskSumByRec	883
SDSU Evolve Phase 5 HRA Detailed Report	894
SDSU Evolve Phase 5.ADO	942
Phase 5 OffsiteOutput	1089
Phase 5 OffsiteCancerRiskSumByRec	1091
Phase 5 OffsiteNCChronicRiskSumByRec	1103
Phase 5 OnsiteOutput	1114
Phase 5 OnsiteCancerRiskSumByRec	1116
Phase 5 OnsiteNCChronicRiskSumByRec	1128
SDSU Evolve Phase 6 HRA Detailed Report	1139
SDSU Evolve Phase 6.ADO	1189

Phase 6 OffsiteOutput	1355
Phase 6 OffsiteCancerRiskSumByRec	1357
Phase 6 OffsiteNCChronicRiskSumByRec	1369
Phase 6 OnsiteOutput	1380
Phase 6 OnsiteCancerRiskSumByRec	1382
Phase 6 OnsiteNCChronicRiskSumByRec	1394
SDSU Evolve Phase Operation.ADO	1405
OffsiteOutput	1563
OffsiteCancerRiskSumByRec	1565
OffsiteNCChronicRiskSumByRec	1577
OnsiteOutput	1588
OnsiteCancerRiskSumByRec	1590
OnsiteNCChronicRiskSumByRec	1602

Cancer Risk-Offsite

X	Y	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Operation	Total
490879.18000	3624590.36000	4.20E-08	2.53E-08	2.56E-08	3.04E-08	3.22E-08	4.35E-08	2.77E-08	2.27E-07
490879.18000	3624786.22000	4.57E-08	3.01E-08	3.05E-08	3.62E-08	3.85E-08	5.19E-08	3.16E-08	2.64E-07
490879.18000	3624982.08000	4.48E-08	3.00E-08	2.96E-08	3.55E-08	3.93E-08	5.33E-08	3.16E-08	2.64E-07
490879.18000	3625177.94000	4.65E-08	3.53E-08	3.49E-08	4.22E-08	4.66E-08	6.33E-08	3.59E-08	3.05E-07
490879.18000	3625373.80000	4.69E-08	4.12E-08	4.12E-08	5.04E-08	5.46E-08	7.24E-08	4.08E-08	3.48E-07
490879.18000	3625569.66000	4.63E-08	4.43E-08	4.64E-08	5.73E-08	5.88E-08	7.53E-08	4.19E-08	3.70E-07
490879.18000	3625765.52000	4.34E-08	4.38E-08	4.69E-08	5.81E-08	5.77E-08	7.25E-08	3.95E-08	3.62E-07
490879.18000	3625961.38000	3.91E-08	4.13E-08	4.51E-08	5.61E-08	5.40E-08	6.62E-08	3.58E-08	3.38E-07
490879.18000	3626157.24000	3.59E-08	3.69E-08	4.06E-08	5.03E-08	4.75E-08	5.88E-08	3.01E-08	3.00E-07
490879.18000	3626353.10000	3.38E-08	3.41E-08	3.71E-08	4.59E-08	4.45E-08	5.54E-08	2.87E-08	2.80E-07
490879.18000	3626548.96000	3.11E-08	3.21E-08	3.53E-08	4.36E-08	4.14E-08	5.05E-08	2.67E-08	2.61E-07
490879.18000	3626744.82000	2.84E-08	2.78E-08	3.05E-08	3.75E-08	3.55E-08	4.38E-08	2.14E-08	2.25E-07
490879.18000	3626940.68000	2.63E-08	2.52E-08	2.70E-08	3.31E-08	3.24E-08	4.00E-08	1.73E-08	2.01E-07
490879.18000	3627136.54000	2.46E-08	2.37E-08	2.55E-08	3.12E-08	3.07E-08	3.76E-08	1.72E-08	1.90E-07
490879.18000	3627332.40000	2.30E-08	2.22E-08	2.37E-08	2.89E-08	2.82E-08	3.45E-08	1.48E-08	1.75E-07
490879.18000	3627528.26000	2.13E-08	2.06E-08	2.20E-08	2.66E-08	2.58E-08	3.15E-08	1.29E-08	1.61E-07
490879.18000	3627724.12000	1.97E-08	1.88E-08	1.99E-08	2.40E-08	2.32E-08	2.86E-08	1.05E-08	1.45E-07
490879.18000	3627919.98000	1.84E-08	1.73E-08	1.82E-08	2.19E-08	2.11E-08	2.62E-08	9.48E-09	1.33E-07
490879.18000	3628115.84000	1.71E-08	1.61E-08	1.70E-08	2.04E-08	1.98E-08	2.47E-08	9.89E-09	1.25E-07
490879.18000	3628311.70000	1.59E-08	1.50E-08	1.58E-08	1.90E-08	1.85E-08	2.31E-08	9.72E-09	1.17E-07
490879.18000	3628507.56000	1.47E-08	1.39E-08	1.46E-08	1.75E-08	1.69E-08	2.14E-08	9.10E-09	1.08E-07
491073.28000	3624590.36000	4.51E-08	2.53E-08	2.57E-08	3.04E-08	3.21E-08	4.31E-08	2.75E-08	2.29E-07
491073.28000	3624786.22000	4.70E-08	2.68E-08	2.69E-08	3.19E-08	3.43E-08	4.65E-08	2.99E-08	2.43E-07
491073.28000	3624982.08000	5.51E-08	3.69E-08	3.69E-08	4.39E-08	4.70E-08	6.38E-08	3.59E-08	3.19E-07
491073.28000	3625177.94000	5.92E-08	4.52E-08	4.51E-08	5.39E-08	5.82E-08	7.89E-08	4.17E-08	3.82E-07
491073.28000	3625373.80000	5.48E-08	4.47E-08	4.44E-08	5.38E-08	5.90E-08	8.03E-08	4.51E-08	3.82E-07
491073.28000	3625569.66000	5.55E-08	5.22E-08	5.35E-08	6.57E-08	6.93E-08	9.01E-08	4.93E-08	4.36E-07
491073.28000	3625765.52000	5.39E-08	5.61E-08	6.09E-08	7.57E-08	7.39E-08	9.29E-08	5.09E-08	4.64E-07
491073.28000	3625961.38000	4.71E-08	5.07E-08	5.50E-08	6.86E-08	6.61E-08	8.15E-08	4.09E-08	4.10E-07
491073.28000	3626157.24000	4.28E-08	4.56E-08	5.07E-08	6.33E-08	5.93E-08	7.25E-08	3.64E-08	3.71E-07
491073.28000	3626353.10000	4.21E-08	4.55E-08	5.17E-08	6.43E-08	5.87E-08	7.24E-08	3.76E-08	3.72E-07
491073.28000	3626548.96000	3.67E-08	3.91E-08	4.36E-08	5.41E-08	5.03E-08	6.10E-08	3.08E-08	3.16E-07
491073.28000	3626744.82000	3.35E-08	3.42E-08	3.83E-08	4.71E-08	4.33E-08	5.32E-08	2.54E-08	2.75E-07
491073.28000	3626940.68000	3.02E-08	2.97E-08	3.19E-08	3.92E-08	3.81E-08	4.69E-08	1.94E-08	2.35E-07
491073.28000	3627136.54000	2.81E-08	2.77E-08	2.98E-08	3.66E-08	3.57E-08	4.32E-08	1.88E-08	2.20E-07
491073.28000	3627332.40000	2.60E-08	2.57E-08	2.75E-08	3.35E-08	3.23E-08	3.94E-08	1.60E-08	2.00E-07
491073.28000	3627528.26000	2.39E-08	2.34E-08	2.51E-08	3.03E-08	2.91E-08	3.55E-08	1.31E-08	1.80E-07
491073.28000	3627724.12000	2.20E-08	2.12E-08	2.25E-08	2.71E-08	2.59E-08	3.19E-08	1.09E-08	1.61E-07
491073.28000	3627919.98000	2.03E-08	1.95E-08	2.07E-08	2.49E-08	2.39E-08	2.96E-08	1.10E-08	1.50E-07
491073.28000	3628115.84000	1.87E-08	1.80E-08	1.91E-08	2.30E-08	2.22E-08	2.75E-08	1.11E-08	1.40E-07
491073.28000	3628311.70000	1.72E-08	1.66E-08	1.75E-08	2.10E-08	2.02E-08	2.55E-08	1.05E-08	1.28E-07
491073.28000	3628507.56000	1.57E-08	1.51E-08	1.60E-08	1.90E-08	1.81E-08	2.30E-08	8.94E-09	1.16E-07
491267.38000	3624590.36000	4.60E-08	2.40E-08	2.44E-08	2.89E-08	3.01E-08	4.03E-08	2.54E-08	2.19E-07
491267.38000	3624786.22000	5.61E-08	3.10E-08	3.10E-08	3.67E-08	3.89E-08	5.27E-08	3.10E-08	2.77E-07
491267.38000	3624982.08000	5.92E-08	3.53E-08	3.54E-08	4.20E-08	4.47E-08	6.08E-08	3.51E-08	3.12E-07
491267.38000	3625177.94000	6.48E-08	4.44E-08	4.40E-08	5.25E-08	5.65E-08	7.72E-08	4.11E-08	3.80E-07
491267.38000	3625373.80000	6.20E-08	4.51E-08	4.38E-08	5.29E-08	5.94E-08	8.17E-08	4.14E-08	3.86E-07
491267.38000	3625569.66000	7.34E-08	6.84E-08	6.85E-08	8.33E-08	8.90E-08	1.19E-07	5.63E-08	5.58E-07
491267.38000	3625765.52000	6.37E-08	6.35E-08	6.55E-08	8.12E-08	8.43E-08	1.08E-07	5.41E-08	5.21E-07
491267.38000	3625961.38000	5.79E-08	6.30E-08	6.77E-08	8.50E-08	8.27E-08	1.03E-07	4.89E-08	5.08E-07
491267.38000	3626157.24000	5.88E-08	7.11E-08	8.20E-08	1.03E-07	9.09E-08	1.08E-07	5.14E-08	5.65E-07

Cancer Risk-Offsite

491267.38000	3626353.10000	5.04E-08	5.63E-08	6.50E-08	8.14E-08	7.24E-08	8.86E-08	4.37E-08	4.58E-07
491267.38000	3626548.96000	4.28E-08	4.61E-08	5.08E-08	6.35E-08	5.93E-08	7.14E-08	3.25E-08	3.66E-07
491267.38000	3626744.82000	3.84E-08	3.96E-08	4.40E-08	5.43E-08	5.03E-08	6.16E-08	2.73E-08	3.16E-07
491267.38000	3626940.68000	3.52E-08	3.55E-08	3.85E-08	4.76E-08	4.58E-08	5.58E-08	2.23E-08	2.81E-07
491267.38000	3627136.54000	3.24E-08	3.29E-08	3.56E-08	4.38E-08	4.21E-08	5.07E-08	2.02E-08	2.58E-07
491267.38000	3627332.40000	2.96E-08	3.01E-08	3.24E-08	3.96E-08	3.76E-08	4.54E-08	1.71E-08	2.32E-07
491267.38000	3627528.26000	2.69E-08	2.68E-08	2.88E-08	3.49E-08	3.30E-08	4.03E-08	1.35E-08	2.04E-07
491267.38000	3627724.12000	2.46E-08	2.43E-08	2.59E-08	3.13E-08	2.97E-08	3.65E-08	1.28E-08	1.85E-07
491267.38000	3627919.98000	2.24E-08	2.22E-08	2.37E-08	2.86E-08	2.74E-08	3.36E-08	1.27E-08	1.71E-07
491267.38000	3628115.84000	2.04E-08	2.02E-08	2.15E-08	2.58E-08	2.45E-08	3.07E-08	1.21E-08	1.55E-07
491267.38000	3628311.70000	1.85E-08	1.82E-08	1.93E-08	2.30E-08	2.18E-08	2.73E-08	1.02E-08	1.38E-07
491267.38000	3628507.56000	1.67E-08	1.63E-08	1.72E-08	2.03E-08	1.93E-08	2.43E-08	9.28E-09	1.23E-07
491461.48000	3624590.36000	4.88E-08	2.56E-08	2.58E-08	3.05E-08	3.20E-08	4.27E-08	2.46E-08	2.30E-07
491461.48000	3624786.22000	6.09E-08	3.16E-08	3.14E-08	3.70E-08	3.93E-08	5.28E-08	2.95E-08	2.83E-07
491461.48000	3624982.08000	6.92E-08	3.75E-08	3.71E-08	4.38E-08	4.69E-08	6.38E-08	3.43E-08	3.33E-07
491461.48000	3625177.94000	6.81E-08	3.83E-08	3.79E-08	4.51E-08	4.89E-08	6.75E-08	3.85E-08	3.44E-07
491461.48000	3625373.80000	8.17E-08	5.86E-08	5.64E-08	6.73E-08	7.47E-08	1.04E-07	4.77E-08	4.90E-07
491461.48000	3625569.66000	8.85E-08	7.47E-08	7.20E-08	8.67E-08	9.65E-08	1.33E-07	5.71E-08	6.09E-07
491461.48000	3625765.52000	7.79E-08	7.23E-08	7.04E-08	8.67E-08	9.57E-08	1.28E-07	5.54E-08	5.86E-07
491461.48000	3625961.38000	7.31E-08	7.96E-08	8.41E-08	1.06E-07	1.06E-07	1.33E-07	6.22E-08	6.43E-07
491461.48000	3626157.24000	7.56E-08	9.56E-08	1.09E-07	1.37E-07	1.23E-07	1.45E-07	6.36E-08	7.48E-07
491461.48000	3626353.10000	5.93E-08	6.64E-08	7.61E-08	9.64E-08	8.64E-08	1.05E-07	5.02E-08	5.40E-07
491461.48000	3626548.96000	5.45E-08	6.40E-08	7.40E-08	9.31E-08	8.13E-08	9.65E-08	4.26E-08	5.06E-07
491461.48000	3626744.82000	4.59E-08	4.90E-08	5.50E-08	6.83E-08	6.23E-08	7.57E-08	3.16E-08	3.88E-07
491461.48000	3626940.68000	4.17E-08	4.36E-08	4.76E-08	5.93E-08	5.62E-08	6.79E-08	2.60E-08	3.42E-07
491461.48000	3627136.54000	3.78E-08	3.97E-08	4.32E-08	5.34E-08	5.02E-08	6.02E-08	2.21E-08	3.07E-07
491461.48000	3627332.40000	3.40E-08	3.54E-08	3.85E-08	4.71E-08	4.39E-08	5.30E-08	1.79E-08	2.70E-07
491461.48000	3627528.26000	3.07E-08	3.14E-08	3.39E-08	4.12E-08	3.85E-08	4.70E-08	1.58E-08	2.39E-07
491461.48000	3627724.12000	2.76E-08	2.82E-08	3.03E-08	3.68E-08	3.47E-08	4.24E-08	1.53E-08	2.15E-07
491461.48000	3627919.98000	2.47E-08	2.53E-08	2.71E-08	3.26E-08	3.06E-08	3.81E-08	1.43E-08	1.93E-07
491461.48000	3628115.84000	2.21E-08	2.25E-08	2.40E-08	2.85E-08	2.67E-08	3.34E-08	1.21E-08	1.69E-07
491461.48000	3628311.70000	1.98E-08	1.98E-08	2.10E-08	2.49E-08	2.33E-08	2.94E-08	1.11E-08	1.49E-07
491461.48000	3628507.56000	1.77E-08	1.75E-08	1.86E-08	2.20E-08	2.08E-08	2.62E-08	1.06E-08	1.33E-07
491655.58000	3624590.36000	5.00E-08	2.61E-08	2.61E-08	3.09E-08	3.25E-08	4.36E-08	2.46E-08	2.34E-07
491655.58000	3624786.22000	6.36E-08	3.15E-08	3.10E-08	3.65E-08	3.92E-08	5.27E-08	2.86E-08	2.83E-07
491655.58000	3624982.08000	7.74E-08	3.80E-08	3.72E-08	4.38E-08	4.71E-08	6.38E-08	3.35E-08	3.41E-07
491655.58000	3625177.94000	8.82E-08	4.70E-08	4.53E-08	5.41E-08	5.86E-08	8.09E-08	3.99E-08	4.14E-07
491655.58000	3625373.80000	9.50E-08	5.90E-08	5.60E-08	6.72E-08	7.47E-08	1.05E-07	4.71E-08	5.04E-07
491655.58000	3625569.66000	8.99E-08	6.35E-08	6.18E-08	7.43E-08	8.17E-08	1.15E-07	5.28E-08	5.39E-07
491655.58000	3625765.52000	9.53E-08	7.81E-08	7.34E-08	8.97E-08	1.03E-07	1.45E-07	5.85E-08	6.43E-07
491655.58000	3625961.38000	1.12E-07	1.28E-07	1.27E-07	1.59E-07	1.68E-07	2.14E-07	8.03E-08	9.88E-07
491655.58000	3626157.24000	1.01E-07	1.31E-07	1.45E-07	1.85E-07	1.70E-07	2.02E-07	8.10E-08	1.01E-06
491655.58000	3626353.10000	8.77E-08	1.13E-07	1.33E-07	1.70E-07	1.44E-07	1.69E-07	6.68E-08	8.84E-07
491655.58000	3626548.96000	6.45E-08	7.61E-08	8.64E-08	1.10E-07	9.86E-08	1.16E-07	4.85E-08	6.00E-07
491655.58000	3626744.82000	5.60E-08	6.22E-08	7.07E-08	8.86E-08	7.92E-08	9.53E-08	3.45E-08	4.86E-07
491655.58000	3626940.68000	5.04E-08	5.51E-08	6.08E-08	7.64E-08	7.09E-08	8.43E-08	2.99E-08	4.28E-07
491655.58000	3627136.54000	4.47E-08	4.89E-08	5.38E-08	6.67E-08	6.12E-08	7.25E-08	2.34E-08	3.71E-07
491655.58000	3627332.40000	3.94E-08	4.24E-08	4.64E-08	5.69E-08	5.20E-08	6.27E-08	1.87E-08	3.18E-07
491655.58000	3627528.26000	3.50E-08	3.74E-08	4.07E-08	4.98E-08	4.60E-08	5.57E-08	1.88E-08	2.83E-07
491655.58000	3627724.12000	3.10E-08	3.31E-08	3.59E-08	4.34E-08	4.00E-08	4.93E-08	1.80E-08	2.51E-07
491655.58000	3627919.98000	2.72E-08	2.88E-08	3.10E-08	3.70E-08	3.41E-08	4.23E-08	1.50E-08	2.15E-07
491655.58000	3628115.84000	2.39E-08	2.48E-08	2.66E-08	3.15E-08	2.92E-08	3.65E-08	1.38E-08	1.86E-07

Cancer Risk-Offsite

491655.58000	3628311.70000	2.11E-08	2.15E-08	2.30E-08	2.72E-08	2.55E-08	3.18E-08	1.26E-08	1.63E-07
491655.58000	3628507.56000	1.88E-08	1.88E-08	2.00E-08	2.36E-08	2.22E-08	2.80E-08	1.14E-08	1.43E-07
491849.68000	3624590.36000	5.00E-08	2.64E-08	2.66E-08	3.16E-08	3.32E-08	4.44E-08	2.44E-08	2.37E-07
491849.68000	3624786.22000	6.48E-08	3.14E-08	3.10E-08	3.69E-08	3.92E-08	5.30E-08	2.85E-08	2.85E-07
491849.68000	3624982.08000	8.42E-08	3.81E-08	3.70E-08	4.38E-08	4.73E-08	6.43E-08	3.34E-08	3.48E-07
491849.68000	3625177.94000	1.01E-07	4.69E-08	4.51E-08	5.34E-08	5.83E-08	7.98E-08	3.86E-08	4.23E-07
491849.68000	3625373.80000	1.10E-07	5.86E-08	5.58E-08	6.66E-08	7.32E-08	1.02E-07	4.51E-08	5.11E-07
491849.68000	3625569.66000	1.05E-07	6.53E-08	6.37E-08	7.64E-08	8.23E-08	1.17E-07	5.15E-08	5.61E-07
491849.68000	3625765.52000	1.13E-07	7.96E-08	7.30E-08	8.86E-08	1.04E-07	1.52E-07	5.72E-08	6.67E-07
491849.68000	3625961.38000	1.41E-07	1.43E-07	1.35E-07	1.65E-07	1.88E-07	2.58E-07	8.67E-08	1.12E-06
491849.68000	3626157.24000	1.27E-07	1.65E-07	1.78E-07	2.26E-07	2.17E-07	2.61E-07	9.73E-08	1.27E-06
491849.68000	3626353.10000	9.85E-08	1.26E-07	1.46E-07	1.91E-07	1.65E-07	1.92E-07	7.47E-08	9.93E-07
491849.68000	3626548.96000	8.26E-08	1.04E-07	1.20E-07	1.56E-07	1.35E-07	1.56E-07	5.83E-08	8.11E-07
491849.68000	3626744.82000	7.21E-08	8.62E-08	1.02E-07	1.30E-07	1.10E-07	1.31E-07	4.94E-08	6.81E-07
491849.68000	3626940.68000	6.21E-08	7.21E-08	8.09E-08	1.03E-07	9.25E-08	1.08E-07	3.46E-08	5.53E-07
491849.68000	3627136.54000	5.33E-08	6.15E-08	6.88E-08	8.56E-08	7.60E-08	8.96E-08	2.43E-08	4.59E-07
491849.68000	3627332.40000	4.61E-08	5.22E-08	5.77E-08	7.11E-08	6.39E-08	7.60E-08	2.17E-08	3.89E-07
491849.68000	3627528.26000	4.00E-08	4.51E-08	4.95E-08	6.03E-08	5.43E-08	6.59E-08	2.22E-08	3.37E-07
491849.68000	3627724.12000	3.45E-08	3.83E-08	4.18E-08	5.00E-08	4.51E-08	5.54E-08	1.90E-08	2.84E-07
491849.68000	3627919.98000	2.98E-08	3.24E-08	3.53E-08	4.19E-08	3.81E-08	4.71E-08	1.74E-08	2.42E-07
491849.68000	3628115.84000	2.59E-08	2.75E-08	2.98E-08	3.52E-08	3.24E-08	4.02E-08	1.57E-08	2.07E-07
491849.68000	3628311.70000	2.27E-08	2.36E-08	2.53E-08	2.98E-08	2.77E-08	3.46E-08	1.40E-08	1.77E-07
491849.68000	3628507.56000	1.99E-08	2.02E-08	2.15E-08	2.53E-08	2.37E-08	2.98E-08	1.21E-08	1.52E-07
492043.78000	3624590.36000	4.98E-08	2.73E-08	2.73E-08	3.26E-08	3.44E-08	4.59E-08	2.44E-08	2.42E-07
492043.78000	3624786.22000	6.41E-08	3.19E-08	3.17E-08	3.79E-08	4.01E-08	5.38E-08	2.78E-08	2.87E-07
492043.78000	3624982.08000	8.59E-08	3.81E-08	3.76E-08	4.48E-08	4.78E-08	6.43E-08	3.27E-08	3.51E-07
492043.78000	3625177.94000	1.14E-07	4.64E-08	4.53E-08	5.38E-08	5.76E-08	7.84E-08	3.97E-08	4.35E-07
492043.78000	3625373.80000	1.22E-07	4.84E-08	4.78E-08	5.71E-08	6.05E-08	8.33E-08	4.25E-08	4.62E-07
492043.78000	3625569.66000	1.21E-07	5.70E-08	5.34E-08	6.40E-08	7.25E-08	1.03E-07	4.28E-08	5.14E-07
492043.78000	3625765.52000	1.32E-07	7.82E-08	7.17E-08	8.68E-08	1.01E-07	1.49E-07	5.57E-08	6.75E-07
492043.78000	3625961.38000	1.55E-07	1.18E-07	1.06E-07	1.30E-07	1.57E-07	2.36E-07	7.96E-08	9.82E-07
492043.78000	3626157.24000	1.78E-07	2.07E-07	2.00E-07	2.51E-07	2.78E-07	3.66E-07	1.18E-07	1.60E-06
492043.78000	3626353.10000	1.67E-07	2.55E-07	2.89E-07	3.81E-07	3.40E-07	3.75E-07	1.20E-07	1.93E-06
492043.78000	3626548.96000	1.41E-07	2.01E-07	2.26E-07	2.81E-07	2.65E-07	2.99E-07	9.50E-08	1.51E-06
492043.78000	3626744.82000	9.61E-08	1.26E-07	1.57E-07	2.06E-07	1.63E-07	1.88E-07	6.80E-08	1.00E-06
492043.78000	3626940.68000	7.82E-08	9.89E-08	1.14E-07	1.47E-07	1.26E-07	1.43E-07	3.94E-08	7.47E-07
492043.78000	3627136.54000	6.49E-08	8.03E-08	9.14E-08	1.15E-07	9.86E-08	1.15E-07	2.86E-08	5.93E-07
492043.78000	3627332.40000	5.43E-08	6.61E-08	7.42E-08	9.13E-08	7.91E-08	9.36E-08	2.72E-08	4.86E-07
492043.78000	3627528.26000	4.50E-08	5.35E-08	5.93E-08	7.10E-08	6.21E-08	7.50E-08	2.32E-08	3.89E-07
492043.78000	3627724.12000	3.76E-08	4.32E-08	4.74E-08	5.62E-08	5.01E-08	6.11E-08	2.05E-08	3.16E-07
492043.78000	3627919.98000	3.19E-08	3.55E-08	3.86E-08	4.54E-08	4.12E-08	5.07E-08	1.85E-08	2.62E-07
492043.78000	3628115.84000	2.75E-08	2.98E-08	3.22E-08	3.78E-08	3.47E-08	4.29E-08	1.63E-08	2.21E-07
492043.78000	3628311.70000	2.39E-08	2.53E-08	2.72E-08	3.18E-08	2.94E-08	3.64E-08	1.40E-08	1.88E-07
492043.78000	3628507.56000	2.10E-08	2.17E-08	2.32E-08	2.72E-08	2.50E-08	3.14E-08	1.21E-08	1.61E-07
492237.88000	3624590.36000	5.05E-08	2.83E-08	2.80E-08	3.34E-08	3.55E-08	4.79E-08	2.40E-08	2.47E-07
492237.88000	3624786.22000	5.99E-08	2.96E-08	3.02E-08	3.62E-08	3.72E-08	4.98E-08	2.58E-08	2.69E-07
492237.88000	3624982.08000	7.98E-08	3.37E-08	3.43E-08	4.12E-08	4.24E-08	5.68E-08	3.03E-08	3.19E-07
492237.88000	3625177.94000	1.14E-07	3.80E-08	3.78E-08	4.55E-08	4.82E-08	6.53E-08	3.55E-08	3.84E-07
492237.88000	3625373.80000	1.58E-07	5.18E-08	5.23E-08	6.27E-08	6.48E-08	8.73E-08	4.59E-08	5.23E-07
492237.88000	3625569.66000	1.60E-07	5.78E-08	5.49E-08	6.65E-08	7.35E-08	1.04E-07	4.68E-08	5.63E-07
492237.88000	3625765.52000	1.59E-07	7.74E-08	7.16E-08	8.72E-08	9.95E-08	1.45E-07	5.41E-08	6.94E-07
492237.88000	3625961.38000	1.84E-07	1.15E-07	1.04E-07	1.28E-07	1.51E-07	2.32E-07	7.50E-08	9.89E-07

Cancer Risk-Offsite

492237.88000	3626157.24000	2.94E-07	2.52E-07	1.92E-07	2.28E-07	3.44E-07	5.51E-07	1.28E-07	1.99E-06
492237.88000	3626353.10000	2.56E-07	3.08E-07	2.17E-07	2.84E-07	4.60E-07	5.80E-07	1.81E-07	2.28E-06
492237.88000	3626548.96000	1.92E-07	3.39E-07	4.55E-07	6.23E-07	4.50E-07	4.65E-07	1.54E-07	2.68E-06
492237.88000	3626744.82000	1.34E-07	1.98E-07	2.65E-07	3.65E-07	2.63E-07	2.90E-07	9.94E-08	1.61E-06
492237.88000	3626940.68000	1.02E-07	1.44E-07	1.75E-07	2.30E-07	1.82E-07	2.02E-07	4.79E-08	1.08E-06
492237.88000	3627136.54000	8.05E-08	1.10E-07	1.29E-07	1.63E-07	1.32E-07	1.50E-07	3.93E-08	8.05E-07
492237.88000	3627332.40000	6.34E-08	8.33E-08	9.56E-08	1.15E-07	9.60E-08	1.13E-07	3.41E-08	6.00E-07
492237.88000	3627528.26000	5.03E-08	6.25E-08	7.02E-08	8.27E-08	7.12E-08	8.51E-08	2.66E-08	4.49E-07
492237.88000	3627724.12000	4.15E-08	4.96E-08	5.51E-08	6.44E-08	5.66E-08	6.83E-08	2.36E-08	3.59E-07
492237.88000	3627919.98000	3.43E-08	3.92E-08	4.29E-08	4.98E-08	4.46E-08	5.43E-08	1.90E-08	2.84E-07
492237.88000	3628115.84000	2.88E-08	3.15E-08	3.40E-08	3.95E-08	3.57E-08	4.41E-08	1.51E-08	2.29E-07
492237.88000	3628311.70000	2.48E-08	2.64E-08	2.83E-08	3.29E-08	2.99E-08	3.71E-08	1.25E-08	1.92E-07
492237.88000	3628507.56000	2.18E-08	2.27E-08	2.43E-08	2.84E-08	2.58E-08	3.22E-08	1.08E-08	1.66E-07
492431.98000	3624590.36000	4.99E-08	2.85E-08	2.86E-08	3.41E-08	3.59E-08	4.83E-08	2.49E-08	2.50E-07
492431.98000	3624786.22000	6.05E-08	3.11E-08	3.16E-08	3.78E-08	3.90E-08	5.25E-08	2.74E-08	2.80E-07
492431.98000	3624982.08000	8.62E-08	4.08E-08	3.93E-08	4.68E-08	5.15E-08	7.05E-08	3.29E-08	3.68E-07
492431.98000	3625177.94000	1.27E-07	4.88E-08	4.45E-08	5.28E-08	6.24E-08	8.63E-08	3.89E-08	4.61E-07
492431.98000	3625373.80000	2.00E-07	6.31E-08	5.74E-08	6.84E-08	7.97E-08	1.10E-07	5.07E-08	6.30E-07
492431.98000	3625569.66000	2.40E-07	6.37E-08	6.21E-08	7.50E-08	8.10E-08	1.12E-07	5.59E-08	6.90E-07
492431.98000	3625765.52000	2.30E-07	1.03E-07	9.70E-08	1.17E-07	1.32E-07	1.85E-07	6.45E-08	9.28E-07
492431.98000	3625961.38000	2.23E-07	1.25E-07	1.21E-07	1.51E-07	1.61E-07	2.37E-07	7.42E-08	1.09E-06
492431.98000	3626157.24000	3.74E-07	2.40E-07	1.78E-07	2.17E-07	3.27E-07	5.52E-07	1.23E-07	2.01E-06
492431.98000	3626353.10000	4.25E-07	3.28E-07	1.75E-07	2.26E-07	5.06E-07	9.67E-07	2.51E-07	2.88E-06
492431.98000	3626548.96000	2.83E-07	5.86E-07	7.51E-07	1.10E-06	8.82E-07	8.16E-07	2.76E-07	4.69E-06
492431.98000	3626744.82000	1.97E-07	3.49E-07	4.99E-07	7.53E-07	4.84E-07	4.84E-07	1.25E-07	2.89E-06
492431.98000	3626940.68000	1.39E-07	2.33E-07	3.05E-07	4.10E-07	2.83E-07	2.99E-07	7.24E-08	1.74E-06
492431.98000	3627136.54000	9.79E-08	1.51E-07	1.85E-07	2.23E-07	1.69E-07	1.89E-07	5.04E-08	1.07E-06
492431.98000	3627332.40000	7.78E-08	1.15E-07	1.41E-07	1.64E-07	1.25E-07	1.43E-07	4.33E-08	8.09E-07
492431.98000	3627528.26000	5.48E-08	7.07E-08	7.93E-08	9.06E-08	7.74E-08	9.16E-08	2.73E-08	4.92E-07
492431.98000	3627724.12000	4.29E-08	5.16E-08	5.64E-08	6.44E-08	5.64E-08	6.80E-08	1.91E-08	3.59E-07
492431.98000	3627919.98000	3.52E-08	4.04E-08	4.36E-08	5.02E-08	4.49E-08	5.48E-08	1.72E-08	2.86E-07
492431.98000	3628115.84000	2.97E-08	3.28E-08	3.54E-08	4.09E-08	3.68E-08	4.55E-08	1.51E-08	2.36E-07
492431.98000	3628311.70000	2.54E-08	2.73E-08	2.94E-08	3.40E-08	3.08E-08	3.84E-08	1.34E-08	1.99E-07
492431.98000	3628507.56000	2.27E-08	2.41E-08	2.61E-08	3.03E-08	2.73E-08	3.42E-08	1.25E-08	1.77E-07
492626.08000	3624590.36000	5.63E-08	2.90E-08	2.73E-08	3.20E-08	3.70E-08	5.07E-08	2.55E-08	2.58E-07
492626.08000	3624786.22000	6.25E-08	3.20E-08	3.22E-08	3.82E-08	3.99E-08	5.38E-08	2.76E-08	2.86E-07
492626.08000	3624982.08000	8.98E-08	4.03E-08	3.67E-08	4.30E-08	5.11E-08	7.16E-08	3.27E-08	3.65E-07
492626.08000	3625177.94000	1.17E-07	4.72E-08	4.70E-08	5.58E-08	5.88E-08	7.98E-08	3.76E-08	4.43E-07
492626.08000	3625373.80000	1.94E-07	6.08E-08	6.00E-08	7.10E-08	7.55E-08	1.03E-07	4.82E-08	6.12E-07
492626.08000	3625569.66000	3.77E-07	7.24E-08	7.12E-08	8.42E-08	9.05E-08	1.25E-07	6.75E-08	8.87E-07
492626.08000	3625765.52000	3.71E-07	1.05E-07	1.03E-07	1.23E-07	1.33E-07	1.85E-07	7.71E-08	1.10E-06
492626.08000	3625961.38000	3.36E-07	1.45E-07	1.14E-07	1.38E-07	2.04E-07	3.10E-07	8.58E-08	1.33E-06
492626.08000	3626157.24000	3.96E-07	1.95E-07	1.37E-07	1.75E-07	2.82E-07	4.70E-07	1.23E-07	1.78E-06
492626.08000	3626353.10000	6.78E-07	2.55E-07	1.63E-07	2.19E-07	4.02E-07	8.20E-07	2.58E-07	2.79E-06
492626.08000	3626548.96000	7.01E-07	1.54E-06	9.10E-07	1.39E-06	3.64E-06	3.21E-06	5.16E-07	1.19E-05
492626.08000	3626744.82000	3.52E-07	9.61E-07	2.20E-06	7.77E-06	1.26E-06	1.01E-06	2.71E-07	1.38E-05
492626.08000	3626940.68000	1.84E-07	3.88E-07	5.62E-07	6.24E-07	3.87E-07	3.90E-07	9.29E-08	2.63E-06
492626.08000	3627136.54000	1.12E-07	1.87E-07	2.29E-07	2.50E-07	1.88E-07	2.08E-07	4.97E-08	1.22E-06
492626.08000	3627332.40000	7.79E-08	1.13E-07	1.32E-07	1.47E-07	1.18E-07	1.36E-07	3.84E-08	7.61E-07
492626.08000	3627528.26000	6.05E-08	8.18E-08	9.55E-08	1.07E-07	8.63E-08	1.02E-07	2.97E-08	5.63E-07
492626.08000	3627724.12000	4.41E-08	5.34E-08	5.81E-08	6.51E-08	5.74E-08	6.98E-08	2.02E-08	3.68E-07
492626.08000	3627919.98000	3.57E-08	4.09E-08	4.39E-08	4.94E-08	4.45E-08	5.49E-08	1.70E-08	2.86E-07

Cancer Risk-Offsite

492626.08000	3628115.84000	3.03E-08	3.38E-08	3.65E-08	4.15E-08	3.72E-08	4.63E-08	1.56E-08	2.41E-07
492626.08000	3628311.70000	2.61E-08	2.84E-08	3.07E-08	3.50E-08	3.14E-08	3.94E-08	1.37E-08	2.05E-07
492626.08000	3628507.56000	2.32E-08	2.48E-08	2.68E-08	3.07E-08	2.76E-08	3.46E-08	1.23E-08	1.80E-07
492626.09000	3626426.56000	8.30E-07	2.16E-07	2.08E-07	1.26E-06	2.71E-06	6.11E-06	7.52E-07	1.21E-05
492652.38000	3626742.71000	3.94E-07	3.88E-07	2.21E-07	3.00E-07	6.11E-07	1.59E-06	3.54E-07	3.85E-06
492660.72000	3626713.21000	4.55E-07	6.28E-07	1.12E-06	1.88E-06	9.02E-07	8.48E-07	3.06E-07	6.13E-06
492676.75000	3626651.01000	7.36E-07	9.93E-07	1.35E-06	2.00E-06	1.51E-06	1.23E-06	3.99E-07	8.21E-06
492678.68000	3626411.81000	1.12E-06	1.80E-06	9.56E-07	1.71E-06	3.70E-06	6.07E-06	7.15E-07	1.61E-05
492679.32000	3626674.09000	6.64E-07	7.37E-07	1.30E-06	2.10E-06	1.10E-06	9.87E-07	3.49E-07	7.23E-06
492688.30000	3626714.50000	5.37E-07	6.53E-07	3.50E-07	4.79E-07	1.13E-06	2.93E-06	4.27E-07	6.50E-06
492689.58000	3626622.15000	9.39E-07	9.33E-07	7.81E-07	1.04E-06	1.53E-06	1.50E-06	3.73E-07	7.09E-06
492692.79000	3626668.96000	7.40E-07	9.03E-07	1.43E-06	2.17E-06	1.34E-06	1.13E-06	3.88E-07	8.11E-06
492697.92000	3626391.93000	1.12E-06	2.78E-06	1.29E-06	2.56E-06	4.35E-06	4.43E-06	6.18E-07	1.71E-05
492699.20000	3626422.71000	1.38E-06	5.60E-07	3.66E-07	5.01E-07	8.96E-07	9.78E-07	2.80E-07	4.96E-06
492703.69000	3626740.79000	4.84E-07	3.98E-07	2.27E-07	3.15E-07	6.48E-07	1.78E-06	4.05E-07	4.26E-06
492704.33000	3626600.99000	1.21E-06	8.99E-07	6.82E-07	8.98E-07	1.48E-06	1.60E-06	3.56E-07	7.12E-06
492708.82000	3626624.72000	1.08E-06	9.33E-07	8.44E-07	1.15E-06	1.55E-06	1.42E-06	3.85E-07	7.36E-06
492716.51000	3626577.26000	1.64E-06	8.13E-07	5.34E-07	6.99E-07	1.37E-06	1.66E-06	3.36E-07	7.06E-06
492720.36000	3626707.44000	6.40E-07	3.87E-07	2.34E-07	3.17E-07	6.48E-07	1.36E-06	3.21E-07	3.91E-06
492726.13000	3626643.31000	1.09E-06	1.01E-06	1.15E-06	1.65E-06	1.59E-06	1.29E-06	3.95E-07	8.17E-06
492726.77000	3626607.40000	1.43E-06	1.00E-06	9.92E-07	1.40E-06	1.66E-06	1.39E-06	4.02E-07	8.28E-06
492739.60000	3626591.37000	1.98E-06	5.55E-07	2.95E-07	3.91E-07	9.09E-07	1.32E-06	3.05E-07	5.75E-06
492740.24000	3626567.00000	2.43E-06	5.80E-07	3.26E-07	4.35E-07	9.52E-07	1.22E-06	2.99E-07	6.25E-06
492742.16000	3626418.22000	1.70E-06	7.81E-07	6.32E-07	8.34E-07	1.26E-06	1.27E-06	3.05E-07	6.78E-06
492747.94000	3626386.16000	1.28E-06	8.45E-07	8.04E-07	1.08E-06	1.32E-06	1.21E-06	3.28E-07	6.87E-06
492750.50000	3626550.33000	2.86E-06	7.49E-07	1.20E-06	1.78E-06	1.08E-06	9.53E-07	3.33E-07	8.96E-06
492754.35000	3626706.16000	7.12E-07	5.48E-07	3.32E-07	4.53E-07	9.38E-07	2.44E-06	3.89E-07	5.81E-06
492754.99000	3626574.05000	2.93E-06	6.62E-07	1.14E-06	1.81E-06	9.47E-07	8.73E-07	3.14E-07	8.68E-06
492755.63000	3626685.00000	8.88E-07	5.50E-07	3.30E-07	4.60E-07	9.35E-07	2.46E-06	3.86E-07	6.01E-06
492758.84000	3626739.51000	5.37E-07	4.41E-07	2.62E-07	3.59E-07	7.49E-07	1.69E-06	3.62E-07	4.40E-06
492759.48000	3626659.99000	1.19E-06	3.92E-07	2.34E-07	3.28E-07	6.53E-07	1.38E-06	3.15E-07	4.49E-06
492771.66000	3626525.32000	3.25E-06	8.55E-07	1.05E-06	1.49E-06	1.28E-06	1.09E-06	3.47E-07	9.36E-06
492777.44000	3626545.20000	3.83E-06	8.03E-07	1.15E-06	1.67E-06	1.17E-06	1.01E-06	3.40E-07	9.96E-06
492778.72000	3626388.08000	1.38E-06	8.40E-07	8.58E-07	1.17E-06	1.30E-06	1.17E-06	3.40E-07	7.05E-06
492780.00000	3626415.01000	2.13E-06	8.33E-07	9.21E-07	1.28E-06	1.27E-06	1.12E-06	3.40E-07	7.89E-06
492783.85000	3626648.44000	1.56E-06	5.72E-07	3.41E-07	4.82E-07	1.04E-06	2.51E-06	3.96E-07	6.91E-06
492788.98000	3626677.30000	1.09E-06	4.03E-07	2.43E-07	3.46E-07	6.89E-07	1.46E-06	3.29E-07	4.56E-06
492820.18000	3624590.36000	5.67E-08	2.95E-08	2.78E-08	3.27E-08	3.71E-08	5.06E-08	2.54E-08	2.60E-07
492820.18000	3624786.22000	7.31E-08	3.24E-08	2.90E-08	3.39E-08	4.08E-08	5.67E-08	2.89E-08	2.95E-07
492820.18000	3624982.08000	9.61E-08	3.65E-08	3.15E-08	3.70E-08	4.63E-08	6.54E-08	3.31E-08	3.46E-07
492820.18000	3625177.94000	1.30E-07	4.71E-08	4.10E-08	4.83E-08	5.96E-08	8.64E-08	3.92E-08	4.51E-07
492820.18000	3625373.80000	2.09E-07	4.58E-08	3.69E-08	4.42E-08	6.01E-08	8.65E-08	4.96E-08	5.32E-07
492820.18000	3625569.66000	4.02E-07	7.66E-08	7.53E-08	8.96E-08	9.50E-08	1.30E-07	6.63E-08	9.35E-07
492820.18000	3625765.52000	1.27E-06	7.22E-08	6.34E-08	7.23E-08	9.30E-08	1.25E-07	1.46E-07	1.84E-06
492820.18000	3625961.38000	5.84E-07	6.82E-08	5.44E-08	7.03E-08	1.01E-07	1.51E-07	1.03E-07	1.13E-06
492820.18000	3626157.24000	3.92E-07	1.20E-07	8.77E-08	1.19E-07	1.88E-07	3.08E-07	1.41E-07	1.36E-06
492820.18000	3626353.10000	6.10E-07	2.25E-07	1.55E-07	2.19E-07	3.95E-07	7.62E-07	2.86E-07	2.65E-06
492820.18000	3626548.96000	6.40E-06	2.25E-06	1.12E-06	1.52E-06	3.52E-06	7.49E-06	7.68E-07	2.31E-05
492820.18000	3626744.82000	5.19E-07	2.28E-06	3.03E-06	1.28E-06	1.06E-06	1.03E-06	2.47E-07	9.44E-06
492820.18000	3626940.68000	1.99E-07	4.23E-07	5.30E-07	4.62E-07	3.44E-07	3.73E-07	8.04E-08	2.41E-06
492820.18000	3627136.54000	1.15E-07	1.88E-07	2.17E-07	2.19E-07	1.75E-07	2.01E-07	4.73E-08	1.16E-06
492820.18000	3627332.40000	7.80E-08	1.10E-07	1.23E-07	1.31E-07	1.10E-07	1.31E-07	3.60E-08	7.19E-07

Cancer Risk-Offsite

492820.18000	3627528.26000	5.73E-08	7.34E-08	7.99E-08	8.73E-08	7.59E-08	9.19E-08	2.66E-08	4.92E-07
492820.18000	3627724.12000	5.40E-08	6.93E-08	7.12E-08	7.39E-08	7.26E-08	8.82E-08	2.48E-08	4.54E-07
492820.18000	3627919.98000	3.57E-08	4.04E-08	4.28E-08	4.79E-08	4.34E-08	5.39E-08	1.67E-08	2.81E-07
492820.18000	3628115.84000	2.96E-08	3.20E-08	3.37E-08	3.80E-08	3.49E-08	4.36E-08	1.40E-08	2.26E-07
492820.18000	3628311.70000	2.66E-08	2.88E-08	3.11E-08	3.54E-08	3.16E-08	3.95E-08	1.33E-08	2.06E-07
492820.18000	3628507.56000	2.32E-08	2.46E-08	2.65E-08	3.02E-08	2.71E-08	3.41E-08	1.16E-08	1.77E-07
492874.27000	3625788.48000	1.89E-06	8.42E-08	7.63E-08	8.58E-08	1.09E-07	1.44E-07	1.81E-07	2.57E-06
492881.32000	3625908.40000	1.08E-06	6.00E-08	5.23E-08	6.42E-08	8.86E-08	1.28E-07	1.12E-07	1.58E-06
492883.25000	3625830.80000	1.67E-06	7.36E-08	6.67E-08	7.66E-08	9.89E-08	1.34E-07	1.56E-07	2.28E-06
492894.15000	3625789.12000	2.38E-06	8.98E-08	8.27E-08	9.13E-08	1.14E-07	1.50E-07	2.01E-07	3.11E-06
492901.84000	3625911.60000	1.24E-06	6.16E-08	5.42E-08	6.49E-08	8.97E-08	1.31E-07	1.16E-07	1.76E-06
492906.98000	3625898.14000	1.40E-06	5.98E-08	5.33E-08	6.32E-08	8.64E-08	1.25E-07	1.17E-07	1.90E-06
492910.18000	3625790.40000	2.87E-06	9.48E-08	8.79E-08	9.57E-08	1.19E-07	1.55E-07	2.15E-07	3.64E-06
492919.80000	3625834.65000	2.54E-06	7.86E-08	7.23E-08	8.04E-08	1.03E-07	1.39E-07	1.72E-07	3.18E-06
492928.14000	3625914.81000	1.49E-06	6.49E-08	5.68E-08	6.68E-08	9.23E-08	1.35E-07	1.20E-07	2.02E-06
492930.70000	3625786.55000	3.51E-06	9.83E-08	9.13E-08	9.82E-08	1.22E-07	1.59E-07	2.24E-07	4.30E-06
492933.91000	3625898.14000	1.79E-06	6.26E-08	5.56E-08	6.48E-08	8.84E-08	1.28E-07	1.21E-07	2.31E-06
492947.38000	3625791.04000	4.25E-06	1.02E-07	9.54E-08	1.02E-07	1.26E-07	1.63E-07	2.35E-07	5.07E-06
492951.87000	3625908.40000	1.92E-06	6.59E-08	5.78E-08	6.74E-08	9.24E-08	1.34E-07	1.23E-07	2.46E-06
492955.07000	3625845.55000	4.08E-06	7.09E-08	6.40E-08	7.20E-08	9.47E-08	1.32E-07	1.45E-07	4.66E-06
492963.41000	3625787.84000	4.43E-06	9.80E-08	9.08E-08	9.71E-08	1.21E-07	1.58E-07	2.21E-07	5.22E-06
492973.67000	3625907.11000	2.22E-06	6.94E-08	6.04E-08	7.05E-08	9.67E-08	1.41E-07	1.27E-07	2.79E-06
492982.65000	3625787.84000	4.68E-06	9.93E-08	9.18E-08	9.81E-08	1.21E-07	1.59E-07	2.25E-07	5.47E-06
492993.55000	3625914.17000	2.14E-06	7.29E-08	6.30E-08	7.40E-08	1.02E-07	1.48E-07	1.31E-07	2.73E-06
492996.11000	3625897.50000	2.83E-06	7.24E-08	6.26E-08	7.33E-08	1.00E-07	1.45E-07	1.30E-07	3.41E-06
492999.96000	3625787.84000	4.86E-06	1.07E-07	9.96E-08	1.06E-07	1.29E-07	1.67E-07	2.47E-07	5.71E-06
493014.28000	3624590.36000	5.89E-08	2.00E-08	1.74E-08	2.15E-08	2.76E-08	3.85E-08	2.57E-08	2.10E-07
493014.28000	3624786.22000	7.45E-08	2.16E-08	1.88E-08	2.33E-08	3.04E-08	4.25E-08	2.96E-08	2.41E-07
493014.28000	3624982.08000	9.98E-08	2.54E-08	2.20E-08	2.74E-08	3.61E-08	5.08E-08	3.46E-08	2.96E-07
493014.28000	3625177.94000	1.37E-07	4.11E-08	3.57E-08	4.33E-08	5.55E-08	7.83E-08	4.16E-08	4.33E-07
493014.28000	3625373.80000	1.99E-07	5.39E-08	5.32E-08	6.37E-08	6.75E-08	9.32E-08	4.87E-08	5.80E-07
493014.28000	3625569.66000	4.89E-07	5.34E-08	4.55E-08	5.32E-08	7.23E-08	1.04E-07	8.07E-08	8.97E-07
493014.28000	3625765.52000	3.05E-06	9.28E-08	8.56E-08	9.19E-08	1.14E-07	1.50E-07	2.08E-07	3.79E-06
493014.28000	3625961.38000	1.23E-06	7.11E-08	6.09E-08	7.40E-08	1.04E-07	1.55E-07	1.26E-07	1.82E-06
493014.28000	3626157.24000	4.79E-07	1.74E-07	1.26E-07	1.62E-07	2.57E-07	4.34E-07	1.61E-07	1.79E-06
493014.28000	3626353.10000	7.54E-07	4.37E-07	3.76E-07	4.50E-07	5.67E-07	9.56E-07	2.76E-07	3.82E-06
493014.28000	3626548.96000	7.11E-07	8.75E-07	6.50E-07	6.38E-07	7.00E-07	9.29E-07	3.34E-07	4.84E-06
493014.28000	3626744.82000	3.31E-07	5.53E-07	5.08E-07	4.18E-07	4.11E-07	5.17E-07	1.42E-07	2.88E-06
493014.28000	3626940.68000	1.70E-07	2.84E-07	2.91E-07	2.62E-07	2.36E-07	2.81E-07	6.05E-08	1.58E-06
493014.28000	3627136.54000	1.05E-07	1.55E-07	1.66E-07	1.64E-07	1.43E-07	1.70E-07	3.58E-08	9.40E-07
493014.28000	3627332.40000	8.34E-08	1.20E-07	1.35E-07	1.39E-07	1.16E-07	1.38E-07	3.21E-08	7.64E-07
493014.28000	3627528.26000	6.38E-08	8.52E-08	9.33E-08	9.90E-08	8.54E-08	1.03E-07	2.57E-08	5.56E-07
493014.28000	3627724.12000	5.34E-08	6.50E-08	5.81E-08	6.05E-08	6.78E-08	8.43E-08	2.17E-08	4.11E-07
493014.28000	3627919.98000	3.46E-08	3.83E-08	4.02E-08	4.46E-08	4.09E-08	5.12E-08	1.53E-08	2.65E-07
493014.28000	3628115.84000	2.91E-08	3.11E-08	3.27E-08	3.67E-08	3.37E-08	4.26E-08	1.38E-08	2.20E-07
493014.28000	3628311.70000	2.44E-08	2.52E-08	2.63E-08	2.96E-08	2.76E-08	3.51E-08	1.15E-08	1.80E-07
493014.28000	3628507.56000	2.13E-08	2.16E-08	2.26E-08	2.57E-08	2.38E-08	3.04E-08	1.04E-08	1.56E-07
493015.99000	3625896.85000	3.19E-06	7.33E-08	6.52E-08	7.53E-08	1.01E-07	1.43E-07	1.45E-07	3.79E-06
493021.12000	3625791.04000	5.53E-06	1.29E-07	1.22E-07	1.27E-07	1.51E-07	1.90E-07	3.13E-07	6.56E-06
493023.05000	3625912.24000	2.35E-06	7.28E-08	6.42E-08	7.52E-08	1.01E-07	1.46E-07	1.41E-07	2.95E-06
493036.52000	3625789.12000	5.27E-06	1.31E-07	1.23E-07	1.29E-07	1.53E-07	1.92E-07	3.18E-07	6.31E-06
493044.21000	3625907.11000	2.36E-06	7.43E-08	6.58E-08	7.71E-08	1.04E-07	1.48E-07	1.47E-07	2.98E-06

Cancer Risk-Offsite

493055.75000	3625789.76000	5.05E-06	1.36E-07	1.29E-07	1.34E-07	1.59E-07	1.98E-07	3.35E-07	6.14E-06
493066.66000	3625907.76000	1.92E-06	7.85E-08	6.89E-08	8.10E-08	1.09E-07	1.58E-07	1.50E-07	2.57E-06
493069.86000	3625832.73000	6.08E-06	1.58E-07	1.51E-07	1.56E-07	1.83E-07	2.26E-07	4.01E-07	7.35E-06
493076.28000	3625787.84000	4.20E-06	1.37E-07	1.30E-07	1.36E-07	1.61E-07	2.00E-07	3.39E-07	5.30E-06
493085.25000	3625912.24000	1.63E-06	7.35E-08	6.44E-08	7.71E-08	1.05E-07	1.53E-07	1.40E-07	2.24E-06
493087.18000	3625895.57000	1.90E-06	7.88E-08	6.99E-08	8.18E-08	1.09E-07	1.57E-07	1.56E-07	2.55E-06
493094.87000	3625832.73000	3.43E-06	1.20E-07	1.13E-07	1.20E-07	1.45E-07	1.87E-07	2.89E-07	4.41E-06
493094.87000	3625787.84000	3.47E-06	1.28E-07	1.20E-07	1.27E-07	1.51E-07	1.91E-07	3.10E-07	4.49E-06
493108.98000	3625911.60000	1.37E-06	7.26E-08	6.38E-08	7.67E-08	1.04E-07	1.54E-07	1.38E-07	1.98E-06
493110.90000	3625837.21000	2.51E-06	9.29E-08	8.58E-08	9.49E-08	1.19E-07	1.61E-07	2.09E-07	3.28E-06
493112.19000	3625897.50000	1.48E-06	7.44E-08	6.57E-08	7.82E-08	1.05E-07	1.54E-07	1.44E-07	2.10E-06
493112.83000	3625788.48000	2.82E-06	1.07E-07	1.00E-07	1.08E-07	1.32E-07	1.71E-07	2.51E-07	3.69E-06
493129.50000	3625787.19000	2.30E-06	9.93E-08	9.19E-08	1.00E-07	1.24E-07	1.64E-07	2.27E-07	3.11E-06
493133.99000	3625901.98000	1.16E-06	7.47E-08	6.49E-08	7.85E-08	1.07E-07	1.58E-07	1.35E-07	1.78E-06
493148.74000	3625787.19000	1.85E-06	9.08E-08	8.33E-08	9.24E-08	1.16E-07	1.57E-07	2.00E-07	2.59E-06
493151.95000	3625834.01000	1.52E-06	7.78E-08	7.05E-08	8.11E-08	1.05E-07	1.48E-07	1.63E-07	2.17E-06
493164.77000	3625790.40000	1.56E-06	8.50E-08	7.74E-08	8.72E-08	1.11E-07	1.52E-07	1.82E-07	2.25E-06
493166.70000	3625837.86000	1.28E-06	7.31E-08	6.57E-08	7.69E-08	1.01E-07	1.44E-07	1.47E-07	1.89E-06
493184.65000	3625789.12000	1.28E-06	7.97E-08	7.19E-08	8.23E-08	1.07E-07	1.49E-07	1.63E-07	1.93E-06
493187.86000	3625836.57000	1.06E-06	7.04E-08	6.25E-08	7.41E-08	9.86E-08	1.42E-07	1.35E-07	1.65E-06
493201.33000	3625836.57000	9.53E-07	6.91E-08	6.11E-08	7.25E-08	9.71E-08	1.40E-07	1.29E-07	1.52E-06
493201.97000	3625791.04000	1.09E-06	7.60E-08	6.80E-08	7.89E-08	1.03E-07	1.45E-07	1.50E-07	1.72E-06
493208.38000	3624590.36000	5.30E-08	1.49E-08	1.35E-08	1.67E-08	2.19E-08	3.07E-08	2.88E-08	1.80E-07
493208.38000	3624786.22000	7.45E-08	2.30E-08	2.01E-08	2.41E-08	3.17E-08	4.49E-08	3.32E-08	2.52E-07
493208.38000	3624982.08000	9.47E-08	3.98E-08	3.65E-08	4.32E-08	5.08E-08	7.08E-08	3.74E-08	3.73E-07
493208.38000	3625177.94000	1.29E-07	5.00E-08	4.68E-08	5.52E-08	6.29E-08	8.73E-08	4.44E-08	4.76E-07
493208.38000	3625373.80000	1.96E-07	5.86E-08	5.75E-08	6.84E-08	7.29E-08	1.00E-07	5.44E-08	6.07E-07
493208.38000	3625569.66000	4.11E-07	8.16E-08	7.16E-08	8.43E-08	1.05E-07	1.48E-07	8.46E-08	9.86E-07
493208.38000	3625765.52000	1.07E-06	7.73E-08	6.88E-08	7.98E-08	1.04E-07	1.46E-07	1.50E-07	1.70E-06
493208.38000	3625961.38000	5.79E-07	7.52E-08	6.37E-08	7.49E-08	1.05E-07	1.58E-07	1.18E-07	1.17E-06
493208.38000	3626157.24000	3.56E-07	1.10E-07	8.54E-08	1.10E-07	1.66E-07	2.66E-07	1.44E-07	1.24E-06
493208.38000	3626353.10000	3.94E-07	2.55E-07	1.77E-07	2.18E-07	3.28E-07	4.88E-07	2.29E-07	2.09E-06
493208.38000	3626548.96000	2.76E-07	2.83E-07	2.20E-07	2.10E-07	2.63E-07	3.56E-07	1.72E-07	1.78E-06
493208.38000	3626744.82000	1.94E-07	2.43E-07	2.29E-07	2.18E-07	2.13E-07	2.78E-07	7.98E-08	1.46E-06
493208.38000	3626940.68000	1.30E-07	1.70E-07	1.63E-07	1.58E-07	1.54E-07	1.93E-07	4.17E-08	1.01E-06
493208.38000	3627136.54000	9.04E-08	1.16E-07	1.18E-07	1.18E-07	1.10E-07	1.36E-07	2.83E-08	7.16E-07
493208.38000	3627332.40000	7.92E-08	1.06E-07	1.07E-07	1.04E-07	1.03E-07	1.26E-07	2.73E-08	6.52E-07
493208.38000	3627528.26000	5.96E-08	5.13E-08	4.09E-08	4.52E-08	5.72E-08	8.97E-08	2.14E-08	3.65E-07
493208.38000	3627724.12000	4.74E-08	5.75E-08	6.12E-08	6.60E-08	5.89E-08	7.25E-08	1.78E-08	3.81E-07
493208.38000	3627919.98000	4.00E-08	4.65E-08	4.73E-08	4.98E-08	4.86E-08	6.05E-08	1.54E-08	3.08E-07
493208.38000	3628115.84000	3.35E-08	3.76E-08	3.87E-08	4.09E-08	4.00E-08	5.01E-08	1.35E-08	2.54E-07
493208.38000	3628311.70000	2.38E-08	2.43E-08	2.53E-08	2.84E-08	2.65E-08	3.36E-08	1.03E-08	1.72E-07
493208.38000	3628507.56000	2.21E-08	2.30E-08	2.45E-08	2.78E-08	2.52E-08	3.19E-08	1.04E-08	1.65E-07
493221.21000	3625790.40000	9.37E-07	7.30E-08	6.47E-08	7.57E-08	1.00E-07	1.42E-07	1.38E-07	1.53E-06
493238.52000	3625791.04000	8.20E-07	7.15E-08	6.27E-08	7.38E-08	9.84E-08	1.41E-07	1.28E-07	1.39E-06
493240.44000	3625836.57000	7.17E-07	6.89E-08	5.98E-08	7.05E-08	9.55E-08	1.39E-07	1.17E-07	1.27E-06
493402.48000	3624590.36000	5.80E-08	2.06E-08	1.78E-08	2.18E-08	2.82E-08	3.96E-08	2.80E-08	2.14E-07
493402.48000	3624786.22000	7.03E-08	1.98E-08	1.74E-08	2.16E-08	2.83E-08	3.99E-08	3.31E-08	2.30E-07
493402.48000	3624982.08000	9.52E-08	2.48E-08	2.16E-08	2.66E-08	3.51E-08	4.96E-08	3.90E-08	2.92E-07
493402.48000	3625177.94000	1.36E-07	3.70E-08	3.19E-08	3.87E-08	5.06E-08	7.22E-08	4.71E-08	4.14E-07
493402.48000	3625373.80000	1.79E-07	5.68E-08	5.63E-08	6.72E-08	7.15E-08	9.87E-08	5.68E-08	5.86E-07
493402.48000	3625569.66000	3.00E-07	7.93E-08	7.75E-08	9.00E-08	9.84E-08	1.36E-07	8.02E-08	8.61E-07

Cancer Risk-Offsite

493402.48000	3625765.52000	3.56E-07	7.57E-08	6.24E-08	7.19E-08	9.88E-08	1.46E-07	9.19E-08	9.02E-07
493402.48000	3625961.38000	2.92E-07	7.18E-08	5.82E-08	7.37E-08	1.06E-07	1.61E-07	9.66E-08	8.59E-07
493402.48000	3626157.24000	2.60E-07	1.03E-07	7.94E-08	9.78E-08	1.47E-07	2.29E-07	1.28E-07	1.04E-06
493402.48000	3626353.10000	2.24E-07	1.69E-07	1.26E-07	1.41E-07	1.88E-07	2.55E-07	1.47E-07	1.25E-06
493402.48000	3626548.96000	1.75E-07	1.52E-07	1.24E-07	1.24E-07	1.55E-07	2.12E-07	9.46E-08	1.04E-06
493402.48000	3626744.82000	1.34E-07	1.54E-07	1.57E-07	1.57E-07	1.45E-07	1.87E-07	5.34E-08	9.89E-07
493402.48000	3626940.68000	9.89E-08	1.10E-07	1.05E-07	1.06E-07	1.05E-07	1.37E-07	3.35E-08	6.95E-07
493402.48000	3627136.54000	7.53E-08	8.57E-08	8.44E-08	8.69E-08	8.39E-08	1.06E-07	2.37E-08	5.46E-07
493402.48000	3627332.40000	6.15E-08	4.63E-08	3.47E-08	3.88E-08	5.25E-08	7.32E-08	2.23E-08	3.29E-07
493402.48000	3627528.26000	5.33E-08	4.31E-08	3.31E-08	3.65E-08	4.82E-08	6.61E-08	1.93E-08	3.00E-07
493402.48000	3627724.12000	3.95E-08	4.39E-08	4.67E-08	5.13E-08	4.57E-08	5.74E-08	1.54E-08	3.00E-07
493402.48000	3627919.98000	3.53E-08	2.73E-08	2.23E-08	2.52E-08	3.15E-08	4.26E-08	1.35E-08	1.98E-07
493402.48000	3628115.84000	3.19E-08	3.49E-08	3.60E-08	3.87E-08	3.70E-08	4.64E-08	1.20E-08	2.37E-07
493402.48000	3628311.70000	2.53E-08	2.68E-08	2.85E-08	3.20E-08	2.88E-08	3.63E-08	1.03E-08	1.88E-07
493402.48000	3628507.56000	2.19E-08	2.27E-08	2.40E-08	2.71E-08	2.46E-08	3.12E-08	9.12E-09	1.61E-07
493596.58000	3624590.36000	5.75E-08	2.48E-08	2.22E-08	2.70E-08	3.31E-08	4.62E-08	2.88E-08	2.40E-07
493596.58000	3624786.22000	6.77E-08	1.92E-08	1.72E-08	2.12E-08	2.76E-08	3.90E-08	3.42E-08	2.26E-07
493596.58000	3624982.08000	8.91E-08	2.26E-08	2.03E-08	2.53E-08	3.33E-08	4.75E-08	4.07E-08	2.79E-07
493596.58000	3625177.94000	1.26E-07	4.18E-08	3.67E-08	4.42E-08	5.66E-08	7.99E-08	4.91E-08	4.35E-07
493596.58000	3625373.80000	1.59E-07	5.98E-08	5.83E-08	6.80E-08	7.50E-08	1.03E-07	5.88E-08	5.82E-07
493596.58000	3625569.66000	2.24E-07	4.32E-08	3.75E-08	4.41E-08	5.91E-08	8.49E-08	7.23E-08	5.65E-07
493596.58000	3625765.52000	2.10E-07	5.19E-08	4.37E-08	5.44E-08	7.54E-08	1.10E-07	7.63E-08	6.22E-07
493596.58000	3625961.38000	1.93E-07	6.77E-08	5.44E-08	6.58E-08	9.38E-08	1.43E-07	8.74E-08	7.05E-07
493596.58000	3626157.24000	2.00E-07	1.40E-07	1.12E-07	1.29E-07	1.66E-07	2.33E-07	1.09E-07	1.09E-06
493596.58000	3626353.10000	1.58E-07	1.28E-07	1.05E-07	1.11E-07	1.36E-07	1.81E-07	9.46E-08	9.14E-07
493596.58000	3626548.96000	1.20E-07	1.18E-07	1.19E-07	1.24E-07	1.19E-07	1.57E-07	5.97E-08	8.17E-07
493596.58000	3626744.82000	9.39E-08	9.08E-08	8.69E-08	9.04E-08	9.05E-08	1.19E-07	3.51E-08	6.07E-07
493596.58000	3626940.68000	8.10E-08	8.57E-08	8.79E-08	9.17E-08	8.48E-08	1.10E-07	2.71E-08	5.68E-07
493596.58000	3627136.54000	7.70E-08	7.96E-08	5.23E-08	6.14E-08	8.25E-08	1.08E-07	2.30E-08	4.83E-07
493596.58000	3627332.40000	4.27E-08	2.43E-08	1.88E-08	2.19E-08	2.99E-08	4.19E-08	1.90E-08	1.99E-07
493596.58000	3627528.26000	5.11E-08	5.63E-08	4.90E-08	5.03E-08	5.77E-08	7.37E-08	1.60E-08	3.54E-07
493596.58000	3627724.12000	3.68E-08	2.58E-08	2.00E-08	2.25E-08	2.98E-08	4.16E-08	1.46E-08	1.91E-07
493596.58000	3627919.98000	3.48E-08	2.69E-08	2.19E-08	2.44E-08	3.07E-08	4.83E-08	1.32E-08	2.00E-07
493596.58000	3628115.84000	3.09E-08	3.24E-08	2.99E-08	3.15E-08	3.46E-08	4.41E-08	1.12E-08	2.15E-07
493596.58000	3628311.70000	2.63E-08	2.75E-08	2.75E-08	2.95E-08	2.94E-08	3.72E-08	9.42E-09	1.87E-07
493596.58000	3628507.56000	2.25E-08	2.31E-08	2.40E-08	2.69E-08	2.49E-08	3.15E-08	8.54E-09	1.61E-07
493790.68000	3624590.36000	5.69E-08	2.52E-08	2.28E-08	2.81E-08	3.42E-08	4.77E-08	3.05E-08	2.45E-07
493790.68000	3624786.22000	6.75E-08	2.23E-08	2.01E-08	2.48E-08	3.23E-08	4.55E-08	3.62E-08	2.49E-07
493790.68000	3624982.08000	8.39E-08	2.47E-08	2.24E-08	2.66E-08	3.47E-08	4.86E-08	4.18E-08	2.83E-07
493790.68000	3625177.94000	1.09E-07	2.86E-08	2.55E-08	2.97E-08	3.87E-08	5.44E-08	4.72E-08	3.33E-07
493790.68000	3625373.80000	1.41E-07	5.01E-08	4.40E-08	5.14E-08	6.50E-08	9.22E-08	5.63E-08	5.00E-07
493790.68000	3625569.66000	1.48E-07	3.71E-08	3.24E-08	4.00E-08	5.40E-08	7.70E-08	6.20E-08	4.51E-07
493790.68000	3625765.52000	1.38E-07	4.33E-08	3.69E-08	4.43E-08	6.02E-08	8.79E-08	6.90E-08	4.79E-07
493790.68000	3625961.38000	1.51E-07	9.02E-08	7.37E-08	8.81E-08	1.15E-07	1.65E-07	7.90E-08	7.63E-07
493790.68000	3626157.24000	1.40E-07	1.13E-07	9.94E-08	1.08E-07	1.26E-07	1.71E-07	8.75E-08	8.45E-07
493790.68000	3626353.10000	1.15E-07	8.96E-08	7.70E-08	8.12E-08	9.63E-08	1.30E-07	6.59E-08	6.54E-07
493790.68000	3626548.96000	1.01E-07	9.68E-08	8.98E-08	9.21E-08	1.00E-07	1.34E-07	4.67E-08	6.61E-07
493790.68000	3626744.82000	7.25E-08	6.58E-08	6.43E-08	6.86E-08	6.79E-08	8.97E-08	2.79E-08	4.57E-07
493790.68000	3626940.68000	7.42E-08	7.29E-08	6.04E-08	6.30E-08	7.44E-08	9.83E-08	2.28E-08	4.66E-07
493790.68000	3627136.54000	3.99E-08	1.68E-08	1.38E-08	1.63E-08	2.17E-08	3.10E-08	1.96E-08	1.59E-07
493790.68000	3627332.40000	3.11E-08	1.19E-08	1.04E-08	1.24E-08	1.61E-08	2.22E-08	1.71E-08	1.21E-07
493790.68000	3627528.26000	3.02E-08	1.46E-08	1.17E-08	1.39E-08	1.86E-08	2.60E-08	1.43E-08	1.29E-07

Cancer Risk-Offsite

493790.68000	3627724.12000	2.26E-08	8.29E-09	7.28E-09	8.78E-09	1.13E-08	1.60E-08	1.32E-08	8.76E-08
493790.68000	3627919.98000	2.21E-08	9.87E-09	7.95E-09	9.47E-09	1.27E-08	1.83E-08	1.18E-08	9.22E-08
493790.68000	3628115.84000	2.11E-08	1.16E-08	9.21E-09	1.07E-08	1.44E-08	2.04E-08	1.11E-08	9.84E-08
493790.68000	3628311.70000	2.22E-08	1.53E-08	1.27E-08	1.45E-08	1.81E-08	2.48E-08	9.60E-09	1.17E-07
493790.68000	3628507.56000	2.29E-08	1.69E-08	1.45E-08	1.65E-08	2.20E-08	3.07E-08	8.11E-09	1.32E-07
493984.78000	3624590.36000	5.24E-08	1.99E-08	1.81E-08	2.20E-08	2.83E-08	3.94E-08	3.13E-08	2.11E-07
493984.78000	3624786.22000	6.27E-08	2.22E-08	2.01E-08	2.35E-08	3.03E-08	4.21E-08	3.55E-08	2.37E-07
493984.78000	3624982.08000	7.52E-08	2.26E-08	2.04E-08	2.39E-08	3.09E-08	4.32E-08	3.86E-08	2.55E-07
493984.78000	3625177.94000	9.21E-08	2.45E-08	2.22E-08	2.67E-08	3.52E-08	4.98E-08	4.55E-08	2.96E-07
493984.78000	3625373.80000	1.08E-07	3.13E-08	2.77E-08	3.38E-08	4.49E-08	6.32E-08	5.19E-08	3.61E-07
493984.78000	3625569.66000	1.09E-07	3.70E-08	3.17E-08	3.78E-08	5.04E-08	7.22E-08	5.61E-08	3.94E-07
493984.78000	3625765.52000	1.06E-07	4.14E-08	3.50E-08	4.30E-08	5.94E-08	8.74E-08	6.30E-08	4.36E-07
493984.78000	3625961.38000	1.07E-07	5.86E-08	4.86E-08	5.78E-08	7.52E-08	1.05E-07	7.03E-08	5.23E-07
493984.78000	3626157.24000	9.65E-08	6.57E-08	5.61E-08	6.25E-08	7.69E-08	1.03E-07	6.58E-08	5.27E-07
493984.78000	3626353.10000	8.68E-08	6.57E-08	5.80E-08	6.17E-08	7.21E-08	9.87E-08	4.88E-08	4.92E-07
493984.78000	3626548.96000	7.50E-08	6.99E-08	6.91E-08	7.40E-08	7.40E-08	9.77E-08	3.68E-08	4.97E-07
493984.78000	3626744.82000	5.80E-08	5.06E-08	5.02E-08	5.46E-08	5.35E-08	7.06E-08	2.37E-08	3.61E-07
493984.78000	3626940.68000	5.29E-08	5.00E-08	5.11E-08	5.51E-08	5.17E-08	6.71E-08	1.84E-08	3.46E-07
493984.78000	3627136.54000	3.51E-08	1.44E-08	1.20E-08	1.41E-08	1.86E-08	2.63E-08	1.66E-08	1.37E-07
493984.78000	3627332.40000	1.87E-08	7.30E-09	7.04E-09	8.40E-09	1.04E-08	1.42E-08	1.58E-08	8.20E-08
493984.78000	3627528.26000	1.44E-08	5.86E-09	5.87E-09	7.07E-09	8.63E-09	1.16E-08	1.39E-08	6.73E-08
493984.78000	3627724.12000	5.12E-09	3.14E-09	3.53E-09	4.27E-09	5.00E-09	6.60E-09	1.08E-08	3.85E-08
493984.78000	3627919.98000	3.35E-09	2.35E-09	2.67E-09	3.25E-09	3.80E-09	5.09E-09	8.71E-09	2.92E-08
493984.78000	3628115.84000	7.17E-09	3.24E-09	3.34E-09	4.04E-09	4.97E-09	6.90E-09	9.96E-09	3.96E-08
493984.78000	3628311.70000	7.34E-09	3.37E-09	3.39E-09	4.06E-09	5.10E-09	7.05E-09	9.91E-09	4.02E-08
493984.78000	3628507.56000	1.32E-08	5.33E-09	4.68E-09	5.63E-09	7.35E-09	1.03E-08	9.09E-09	5.56E-08
494178.88000	3624590.36000	4.81E-08	1.84E-08	1.67E-08	1.98E-08	2.52E-08	3.48E-08	2.99E-08	1.93E-07
494178.88000	3624786.22000	5.66E-08	1.95E-08	1.77E-08	2.08E-08	2.68E-08	3.72E-08	3.28E-08	2.11E-07
494178.88000	3624982.08000	6.87E-08	2.21E-08	2.00E-08	2.42E-08	3.17E-08	4.47E-08	3.74E-08	2.49E-07
494178.88000	3625177.94000	7.99E-08	2.58E-08	2.31E-08	2.81E-08	3.68E-08	5.15E-08	4.36E-08	2.89E-07
494178.88000	3625373.80000	8.56E-08	3.12E-08	2.73E-08	3.24E-08	4.24E-08	5.93E-08	4.83E-08	3.27E-07
494178.88000	3625569.66000	8.55E-08	3.43E-08	2.94E-08	3.56E-08	4.80E-08	6.97E-08	5.08E-08	3.53E-07
494178.88000	3625765.52000	8.89E-08	4.62E-08	3.87E-08	4.72E-08	6.24E-08	8.82E-08	5.86E-08	4.30E-07
494178.88000	3625961.38000	8.17E-08	4.86E-08	4.21E-08	4.82E-08	6.10E-08	8.36E-08	6.09E-08	4.26E-07
494178.88000	3626157.24000	7.15E-08	4.59E-08	4.02E-08	4.48E-08	5.49E-08	7.31E-08	5.08E-08	3.81E-07
494178.88000	3626353.10000	6.30E-08	5.55E-08	5.68E-08	6.18E-08	6.06E-08	8.00E-08	3.72E-08	4.15E-07
494178.88000	3626548.96000	5.38E-08	4.55E-08	4.59E-08	5.06E-08	5.00E-08	6.59E-08	2.84E-08	3.40E-07
494178.88000	3626744.82000	4.83E-08	4.20E-08	4.26E-08	4.68E-08	4.51E-08	5.92E-08	2.08E-08	3.05E-07
494178.88000	3626940.68000	5.08E-08	3.49E-08	2.92E-08	3.22E-08	3.92E-08	6.21E-08	1.66E-08	2.65E-07
494178.88000	3627136.54000	3.72E-08	2.22E-08	1.79E-08	2.03E-08	2.61E-08	3.65E-08	1.38E-08	1.74E-07
494178.88000	3627332.40000	2.24E-08	7.47E-09	6.82E-09	8.17E-09	1.04E-08	1.45E-08	1.32E-08	8.30E-08
494178.88000	3627528.26000	4.86E-09	3.26E-09	3.60E-09	4.32E-09	5.15E-09	6.79E-09	1.09E-08	3.89E-08
494178.88000	3627724.12000	1.74E-09	1.78E-09	2.06E-09	2.55E-09	2.98E-09	3.89E-09	6.64E-09	2.16E-08
494178.88000	3627919.98000	1.15E-09	1.31E-09	1.56E-09	1.93E-09	2.22E-09	2.88E-09	5.11E-09	1.62E-08
494178.88000	3628115.84000	1.10E-09	1.15E-09	1.38E-09	1.73E-09	1.97E-09	2.63E-09	4.64E-09	1.46E-08
494178.88000	3628311.70000	1.01E-09	1.02E-09	1.22E-09	1.53E-09	1.76E-09	2.31E-09	4.13E-09	1.30E-08
494178.88000	3628507.56000	1.36E-09	1.19E-09	1.35E-09	1.67E-09	1.98E-09	2.62E-09	4.64E-09	1.48E-08
494372.98000	3624590.36000	4.66E-08	1.95E-08	1.76E-08	2.08E-08	2.62E-08	3.62E-08	2.81E-08	1.95E-07
494372.98000	3624786.22000	5.30E-08	1.92E-08	1.74E-08	2.12E-08	2.75E-08	3.87E-08	3.20E-08	2.09E-07
494372.98000	3624982.08000	6.46E-08	2.62E-08	2.34E-08	2.83E-08	3.61E-08	5.00E-08	3.73E-08	2.66E-07
494372.98000	3625177.94000	6.82E-08	2.69E-08	2.38E-08	2.82E-08	3.64E-08	5.05E-08	4.12E-08	2.75E-07
494372.98000	3625373.80000	7.01E-08	2.94E-08	2.57E-08	3.06E-08	4.02E-08	5.74E-08	4.37E-08	2.97E-07

Cancer Risk-Offsite

494372.98000	3625569.66000	7.24E-08	3.55E-08	3.04E-08	3.70E-08	4.93E-08	7.05E-08	4.83E-08	3.43E-07
494372.98000	3625765.52000	7.31E-08	4.70E-08	4.09E-08	4.73E-08	5.83E-08	7.99E-08	5.23E-08	3.99E-07
494372.98000	3625961.38000	6.78E-08	5.53E-08	5.43E-08	5.95E-08	6.42E-08	8.54E-08	5.02E-08	4.37E-07
494372.98000	3626157.24000	6.00E-08	4.35E-08	3.91E-08	4.31E-08	5.05E-08	6.72E-08	3.98E-08	3.43E-07
494372.98000	3626353.10000	5.34E-08	3.70E-08	3.32E-08	3.63E-08	4.30E-08	5.93E-08	3.16E-08	2.94E-07
494372.98000	3626548.96000	4.45E-08	3.77E-08	3.84E-08	4.26E-08	4.19E-08	5.51E-08	2.43E-08	2.84E-07
494372.98000	3626744.82000	4.20E-08	3.71E-08	3.78E-08	4.17E-08	4.02E-08	5.26E-08	1.88E-08	2.70E-07
494372.98000	3626940.68000	3.92E-08	2.51E-08	2.13E-08	2.37E-08	2.88E-08	3.97E-08	1.47E-08	1.92E-07
494372.98000	3627136.54000	2.85E-08	1.30E-08	1.08E-08	1.26E-08	1.63E-08	2.28E-08	1.28E-08	1.17E-07
494372.98000	3627332.40000	2.22E-08	7.62E-09	6.72E-09	8.06E-09	1.03E-08	1.45E-08	1.15E-08	8.09E-08
494372.98000	3627528.26000	4.50E-09	2.95E-09	3.22E-09	3.86E-09	4.58E-09	6.14E-09	9.68E-09	3.49E-08
494372.98000	3627724.12000	1.36E-09	1.44E-09	1.70E-09	2.11E-09	2.47E-09	3.24E-09	5.70E-09	1.80E-08
494372.98000	3627919.98000	1.08E-09	1.20E-09	1.39E-09	1.73E-09	2.01E-09	2.65E-09	4.64E-09	1.47E-08
494372.98000	3628115.84000	9.09E-10	1.01E-09	1.21E-09	1.50E-09	1.71E-09	2.24E-09	4.06E-09	1.26E-08
494372.98000	3628311.70000	8.26E-10	8.89E-10	1.07E-09	1.34E-09	1.53E-09	2.03E-09	3.68E-09	1.14E-08
494372.98000	3628507.56000	8.20E-10	8.24E-10	9.80E-10	1.24E-09	1.42E-09	1.87E-09	3.32E-09	1.05E-08
494567.08000	3624590.36000	4.34E-08	2.42E-08	2.41E-08	2.83E-08	3.08E-08	4.18E-08	2.76E-08	2.20E-07
494567.08000	3624786.22000	5.24E-08	2.66E-08	2.46E-08	2.93E-08	3.52E-08	4.79E-08	3.20E-08	2.48E-07
494567.08000	3624982.08000	5.58E-08	2.43E-08	2.17E-08	2.56E-08	3.25E-08	4.49E-08	3.56E-08	2.41E-07
494567.08000	3625177.94000	5.83E-08	2.61E-08	2.31E-08	2.72E-08	3.49E-08	4.91E-08	3.80E-08	2.57E-07
494567.08000	3625373.80000	6.07E-08	2.97E-08	2.58E-08	3.13E-08	4.09E-08	5.84E-08	4.10E-08	2.88E-07
494567.08000	3625569.66000	6.35E-08	4.25E-08	3.79E-08	4.45E-08	5.35E-08	7.29E-08	4.49E-08	3.60E-07
494567.08000	3625765.52000	5.83E-08	3.78E-08	3.37E-08	3.85E-08	4.73E-08	6.43E-08	4.67E-08	3.27E-07
494567.08000	3625961.38000	5.20E-08	3.32E-08	2.97E-08	3.38E-08	4.11E-08	5.49E-08	4.09E-08	2.86E-07
494567.08000	3626157.24000	4.62E-08	2.93E-08	2.64E-08	2.96E-08	3.53E-08	4.74E-08	3.22E-08	2.46E-07
494567.08000	3626353.10000	4.69E-08	3.94E-08	3.65E-08	4.03E-08	4.45E-08	5.98E-08	2.72E-08	2.94E-07
494567.08000	3626548.96000	3.78E-08	3.22E-08	3.29E-08	3.68E-08	3.61E-08	4.74E-08	2.15E-08	2.45E-07
494567.08000	3626744.82000	3.93E-08	3.44E-08	3.30E-08	3.54E-08	3.77E-08	4.99E-08	1.77E-08	2.47E-07
494567.08000	3626940.68000	3.27E-08	2.05E-08	1.75E-08	1.97E-08	2.38E-08	3.27E-08	1.33E-08	1.60E-07
494567.08000	3627136.54000	2.41E-08	9.92E-09	8.49E-09	1.00E-08	1.29E-08	1.78E-08	1.19E-08	9.51E-08
494567.08000	3627332.40000	1.28E-08	5.05E-09	4.89E-09	5.90E-09	7.33E-09	1.01E-08	1.09E-08	5.70E-08
494567.08000	3627528.26000	5.33E-09	2.96E-09	3.19E-09	3.83E-09	4.56E-09	6.12E-09	9.05E-09	3.50E-08
494567.08000	3627724.12000	1.84E-09	1.65E-09	1.91E-09	2.33E-09	2.72E-09	3.55E-09	6.16E-09	2.02E-08
494567.08000	3627919.98000	1.06E-09	1.11E-09	1.29E-09	1.63E-09	1.92E-09	2.54E-09	4.40E-09	1.39E-08
494567.08000	3628115.84000	8.91E-10	9.72E-10	1.14E-09	1.41E-09	1.62E-09	2.15E-09	3.76E-09	1.19E-08
494567.08000	3628311.70000	8.27E-10	8.80E-10	1.04E-09	1.30E-09	1.48E-09	1.96E-09	3.48E-09	1.10E-08
494567.08000	3628507.56000	7.90E-10	8.07E-10	9.64E-10	1.21E-09	1.39E-09	1.82E-09	3.26E-09	1.02E-08
494761.18000	3624590.36000	4.24E-08	2.13E-08	1.95E-08	2.34E-08	2.86E-08	3.92E-08	2.77E-08	2.02E-07
494761.18000	3624786.22000	4.77E-08	2.62E-08	2.44E-08	2.84E-08	3.35E-08	4.55E-08	3.13E-08	2.37E-07
494761.18000	3624982.08000	5.07E-08	2.80E-08	2.57E-08	2.97E-08	3.55E-08	4.91E-08	3.27E-08	2.51E-07
494761.18000	3625177.94000	5.11E-08	2.54E-08	2.25E-08	2.70E-08	3.46E-08	4.88E-08	3.56E-08	2.45E-07
494761.18000	3625373.80000	5.23E-08	2.91E-08	2.57E-08	3.10E-08	3.98E-08	5.54E-08	3.97E-08	2.73E-07
494761.18000	3625569.66000	5.27E-08	3.95E-08	3.71E-08	4.21E-08	4.76E-08	6.41E-08	4.08E-08	3.24E-07
494761.18000	3625765.52000	4.98E-08	3.63E-08	3.35E-08	3.79E-08	4.41E-08	5.87E-08	3.94E-08	3.00E-07
494761.18000	3625961.38000	4.51E-08	3.80E-08	3.78E-08	4.23E-08	4.45E-08	5.83E-08	3.49E-08	3.01E-07
494761.18000	3626157.24000	4.01E-08	3.46E-08	3.50E-08	3.91E-08	3.95E-08	5.23E-08	2.69E-08	2.68E-07
494761.18000	3626353.10000	3.92E-08	2.87E-08	2.64E-08	2.94E-08	3.37E-08	4.59E-08	2.34E-08	2.27E-07
494761.18000	3626548.96000	3.25E-08	2.78E-08	2.85E-08	3.20E-08	3.15E-08	4.12E-08	1.91E-08	2.13E-07
494761.18000	3626744.82000	3.49E-08	2.70E-08	2.28E-08	2.58E-08	3.19E-08	4.30E-08	1.57E-08	2.01E-07
494761.18000	3626940.68000	2.63E-08	1.44E-08	1.24E-08	1.42E-08	1.75E-08	2.39E-08	1.23E-08	1.21E-07
494761.18000	3627136.54000	1.09E-08	4.51E-09	4.51E-09	5.45E-09	6.77E-09	9.27E-09	1.14E-08	5.28E-08
494761.18000	3627332.40000	2.05E-09	1.80E-09	2.01E-09	2.47E-09	2.98E-09	3.94E-09	6.50E-09	2.18E-08

Cancer Risk-Offsite

494761.18000	3627528.26000	1.45E-09	1.42E-09	1.64E-09	2.03E-09	2.36E-09	3.05E-09	5.03E-09	1.70E-08
494761.18000	3627724.12000	1.10E-09	1.15E-09	1.34E-09	1.65E-09	1.89E-09	2.46E-09	4.35E-09	1.39E-08
494761.18000	3627919.98000	9.76E-10	9.94E-10	1.20E-09	1.50E-09	1.74E-09	2.29E-09	4.15E-09	1.28E-08
494761.18000	3628115.84000	9.01E-10	9.28E-10	1.08E-09	1.35E-09	1.59E-09	2.13E-09	3.63E-09	1.16E-08
494761.18000	3628311.70000	8.89E-10	9.01E-10	1.05E-09	1.30E-09	1.50E-09	1.99E-09	3.41E-09	1.10E-08
494761.18000	3628507.56000	8.44E-10	8.26E-10	9.76E-10	1.22E-09	1.39E-09	1.83E-09	3.21E-09	1.03E-08
492402.89000	3626460.63000	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-07
492427.42000	3626474.80000	4.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-07
492431.78000	3626430.65000	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-07
492447.59000	3626418.66000	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-07
492450.86000	3626492.79000	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-07
492463.94000	3626507.51000	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-07
492466.12000	3626447.00000	5.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-07
492467.76000	3626523.32000	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-07
492477.02000	3626546.76000	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-07
492479.21000	3626464.45000	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-07
492479.21000	3626572.92000	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-07
492481.93000	3626620.35000	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-07
492482.48000	3626594.18000	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-07
492490.65000	3626485.70000	4.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-07
492491.20000	3626644.88000	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-07
492501.01000	3626506.42000	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-07
492512.46000	3626553.84000	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-07
492513.55000	3626533.13000	4.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-07
492517.36000	3626636.70000	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-07
492521.18000	3626603.45000	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-07
492521.72000	3626582.19000	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-07
492599.16000	3626405.39000	7.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-07
492606.85000	3626435.54000	9.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-07
492774.75000	3626728.05000	4.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-06
493013.27000	3625844.49000	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-07
492723.78000	3626582.16000	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-06
492761.18000	3626553.82000	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-06
492674.05000	3626738.96000	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-06
492708.49000	3626698.47000	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-06
492703.25000	3626652.75000	5.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06
492731.11000	3626741.92000	2.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-06
492743.19000	3626628.92000	8.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06
492723.78000	3626582.16000	0.00E+00	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-06
492794.41000	3626665.12000	0.00E+00	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-06
492761.18000	3626553.82000	0.00E+00	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-06
493013.27000	3625844.49000	0.00E+00	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-07
492798.96000	3626618.56000	0.00E+00	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-06
492703.25000	3626652.75000	0.00E+00	3.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-06
492743.19000	3626628.92000	0.00E+00	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-06
492731.11000	3626741.92000	0.00E+00	0.00E+00	3.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-06
492774.75000	3626728.05000	0.00E+00	0.00E+00	2.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-06
493013.27000	3625844.49000	0.00E+00	0.00E+00	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-07
492791.92000	3626663.04000	0.00E+00	0.00E+00	2.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-06
493039.78000	3625834.45000	0.00E+00	0.00E+00	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-07
492731.11000	3626741.92000	0.00E+00	0.00E+00	0.00E+00	1.60E-06	0.00E+00	0.00E+00	0.00E+00	1.60E-06
493013.27000	3625844.49000	0.00E+00	0.00E+00	0.00E+00	1.88E-07	0.00E+00	0.00E+00	0.00E+00	1.88E-07

Cancer Risk-Offsite

492774.75000	3626728.05000	0.00E+00	0.00E+00	0.00E+00	1.66E-06	0.00E+00	0.00E+00	0.00E+00	1.66E-06
492674.05000	3626738.96000	0.00E+00	0.00E+00	0.00E+00	1.67E-06	0.00E+00	0.00E+00	0.00E+00	1.67E-06
492708.49000	3626698.47000	0.00E+00	0.00E+00	0.00E+00	3.16E-06	0.00E+00	0.00E+00	0.00E+00	3.16E-06
492791.92000	3626663.04000	0.00E+00	0.00E+00	0.00E+00	3.32E-06	0.00E+00	0.00E+00	0.00E+00	3.32E-06
493039.78000	3625834.45000	0.00E+00	0.00E+00	0.00E+00	2.40E-07	0.00E+00	0.00E+00	0.00E+00	2.40E-07
492791.92000	3626663.04000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-06	0.00E+00	0.00E+00	2.66E-06
493013.27000	3625844.49000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-07	0.00E+00	0.00E+00	2.32E-07
492708.49000	3626698.47000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-06	0.00E+00	0.00E+00	1.95E-06
492703.25000	3626652.75000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-06	0.00E+00	0.00E+00	3.38E-06
492731.11000	3626741.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-06	0.00E+00	0.00E+00	1.26E-06
492774.75000	3626728.05000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-06	0.00E+00	0.00E+00	1.36E-06
492674.05000	3626738.96000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-06	0.00E+00	0.00E+00	1.27E-06
492743.19000	3626628.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06	0.00E+00	0.00E+00	5.33E-06
493039.78000	3625834.45000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-07	0.00E+00	0.00E+00	2.86E-07
493013.27000	3625844.49000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-07	4.11E-07
492761.18000	3626553.82000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-06	1.10E-06
492791.92000	3626663.04000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-07	4.50E-07
492723.78000	3626582.16000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-06	1.02E-06
492708.49000	3626698.47000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-07	4.58E-07
492703.25000	3626652.75000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-07	5.33E-07
492731.11000	3626741.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-07	2.98E-07
492774.75000	3626728.05000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-07	2.73E-07
492674.05000	3626738.96000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-07	3.24E-07
492743.19000	3626628.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-07	6.72E-07
493039.78000	3625834.45000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-07	5.65E-07

Cancer Risk-Onsite

X	Y	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Operation	Total
490879.18000	3624590.36000	9.65E-10	5.74E-10	5.81E-10	6.87E-10	7.31E-10	9.89E-10	2.87E-10	4.81E-09
490879.18000	3624786.22000	1.05E-09	6.82E-10	6.91E-10	8.19E-10	8.75E-10	1.18E-09	3.27E-10	5.62E-09
490879.18000	3624982.08000	1.03E-09	6.80E-10	6.72E-10	8.04E-10	8.91E-10	1.21E-09	3.27E-10	5.61E-09
490879.18000	3625177.94000	1.07E-09	8.02E-10	7.93E-10	9.55E-10	1.06E-09	1.44E-09	3.72E-10	6.49E-09
490879.18000	3625373.80000	1.08E-09	9.35E-10	9.36E-10	1.14E-09	1.24E-09	1.65E-09	4.23E-10	7.40E-09
490879.18000	3625569.66000	1.06E-09	1.01E-09	1.05E-09	1.30E-09	1.33E-09	1.71E-09	4.35E-10	7.90E-09
490879.18000	3625765.52000	9.96E-10	9.95E-10	1.06E-09	1.32E-09	1.31E-09	1.65E-09	4.09E-10	7.74E-09
490879.18000	3625961.38000	8.98E-10	9.36E-10	1.02E-09	1.27E-09	1.23E-09	1.51E-09	3.71E-10	7.23E-09
490879.18000	3626157.24000	8.24E-10	8.37E-10	9.21E-10	1.14E-09	1.08E-09	1.34E-09	3.11E-10	6.45E-09
490879.18000	3626353.10000	7.76E-10	7.75E-10	8.41E-10	1.04E-09	1.01E-09	1.26E-09	2.98E-10	6.00E-09
490879.18000	3626548.96000	7.15E-10	7.27E-10	8.00E-10	9.85E-10	9.39E-10	1.15E-09	2.77E-10	5.59E-09
490879.18000	3626744.82000	6.52E-10	6.32E-10	6.93E-10	8.48E-10	8.05E-10	9.97E-10	2.22E-10	4.85E-09
490879.18000	3626940.68000	6.05E-10	5.73E-10	6.14E-10	7.49E-10	7.35E-10	9.10E-10	1.79E-10	4.36E-09
490879.18000	3627136.54000	5.65E-10	5.39E-10	5.78E-10	7.06E-10	6.97E-10	8.55E-10	1.78E-10	4.12E-09
490879.18000	3627332.40000	5.27E-10	5.03E-10	5.37E-10	6.54E-10	6.41E-10	7.85E-10	1.53E-10	3.80E-09
490879.18000	3627528.26000	4.89E-10	4.67E-10	4.99E-10	6.01E-10	5.86E-10	7.17E-10	1.33E-10	3.49E-09
490879.18000	3627724.12000	4.53E-10	4.26E-10	4.52E-10	5.43E-10	5.26E-10	6.50E-10	1.09E-10	3.16E-09
490879.18000	3627919.98000	4.22E-10	3.92E-10	4.13E-10	4.95E-10	4.79E-10	5.97E-10	9.82E-11	2.90E-09
490879.18000	3628115.84000	3.93E-10	3.65E-10	3.86E-10	4.62E-10	4.50E-10	5.62E-10	1.02E-10	2.72E-09
490879.18000	3628311.70000	3.65E-10	3.40E-10	3.58E-10	4.29E-10	4.20E-10	5.25E-10	1.01E-10	2.54E-09
490879.18000	3628507.56000	3.38E-10	3.15E-10	3.31E-10	3.95E-10	3.84E-10	4.88E-10	9.43E-11	2.35E-09
491073.28000	3624590.36000	1.04E-09	5.74E-10	5.83E-10	6.89E-10	7.27E-10	9.81E-10	2.85E-10	4.88E-09
491073.28000	3624786.22000	1.08E-09	6.07E-10	6.10E-10	7.22E-10	7.78E-10	1.06E-09	3.10E-10	5.16E-09
491073.28000	3624982.08000	1.27E-09	8.37E-10	8.37E-10	9.93E-10	1.07E-09	1.45E-09	3.71E-10	6.82E-09
491073.28000	3625177.94000	1.36E-09	1.03E-09	1.02E-09	1.22E-09	1.32E-09	1.80E-09	4.32E-10	8.18E-09
491073.28000	3625373.80000	1.26E-09	1.01E-09	1.01E-09	1.22E-09	1.34E-09	1.83E-09	4.67E-10	8.13E-09
491073.28000	3625569.66000	1.27E-09	1.19E-09	1.21E-09	1.49E-09	1.57E-09	2.05E-09	5.10E-10	9.29E-09
491073.28000	3625765.52000	1.24E-09	1.27E-09	1.38E-09	1.71E-09	1.68E-09	2.11E-09	5.28E-10	9.92E-09
491073.28000	3625961.38000	1.08E-09	1.15E-09	1.25E-09	1.55E-09	1.50E-09	1.85E-09	4.24E-10	8.81E-09
491073.28000	3626157.24000	9.82E-10	1.04E-09	1.15E-09	1.43E-09	1.35E-09	1.65E-09	3.77E-10	7.98E-09
491073.28000	3626353.10000	9.66E-10	1.03E-09	1.17E-09	1.45E-09	1.33E-09	1.65E-09	3.90E-10	8.00E-09
491073.28000	3626548.96000	8.43E-10	8.88E-10	9.90E-10	1.22E-09	1.14E-09	1.39E-09	3.19E-10	6.80E-09
491073.28000	3626744.82000	7.68E-10	7.77E-10	8.70E-10	1.07E-09	9.83E-10	1.21E-09	2.64E-10	5.94E-09
491073.28000	3626940.68000	6.94E-10	6.73E-10	7.24E-10	8.88E-10	8.65E-10	1.07E-09	2.01E-10	5.11E-09
491073.28000	3627136.54000	6.45E-10	6.29E-10	6.76E-10	8.29E-10	8.10E-10	9.83E-10	1.95E-10	4.77E-09
491073.28000	3627332.40000	5.96E-10	5.83E-10	6.23E-10	7.59E-10	7.34E-10	8.96E-10	1.66E-10	4.36E-09
491073.28000	3627528.26000	5.48E-10	5.31E-10	5.69E-10	6.86E-10	6.60E-10	8.08E-10	1.36E-10	3.94E-09
491073.28000	3627724.12000	5.05E-10	4.81E-10	5.10E-10	6.13E-10	5.87E-10	7.27E-10	1.13E-10	3.53E-09
491073.28000	3627919.98000	4.66E-10	4.43E-10	4.69E-10	5.63E-10	5.43E-10	6.74E-10	1.14E-10	3.27E-09
491073.28000	3628115.84000	4.30E-10	4.09E-10	4.33E-10	5.20E-10	5.04E-10	6.26E-10	1.15E-10	3.04E-09
491073.28000	3628311.70000	3.95E-10	3.76E-10	3.97E-10	4.74E-10	4.58E-10	5.79E-10	1.08E-10	2.79E-09
491073.28000	3628507.56000	3.61E-10	3.43E-10	3.62E-10	4.29E-10	4.12E-10	5.23E-10	9.27E-11	2.52E-09
491267.38000	3624590.36000	1.06E-09	5.45E-10	5.53E-10	6.53E-10	6.83E-10	9.16E-10	2.63E-10	4.67E-09
491267.38000	3624786.22000	1.29E-09	7.03E-10	7.03E-10	8.30E-10	8.83E-10	1.20E-09	3.21E-10	5.93E-09
491267.38000	3624982.08000	1.36E-09	8.02E-10	8.03E-10	9.50E-10	1.01E-09	1.38E-09	3.63E-10	6.68E-09
491267.38000	3625177.94000	1.49E-09	1.01E-09	9.99E-10	1.19E-09	1.28E-09	1.76E-09	4.26E-10	8.15E-09
491267.38000	3625373.80000	1.42E-09	1.02E-09	9.94E-10	1.20E-09	1.35E-09	1.86E-09	4.29E-10	8.28E-09
491267.38000	3625569.66000	1.68E-09	1.55E-09	1.55E-09	1.88E-09	2.02E-09	2.71E-09	5.84E-10	1.20E-08
491267.38000	3625765.52000	1.46E-09	1.44E-09	1.49E-09	1.84E-09	1.91E-09	2.46E-09	5.60E-10	1.12E-08
491267.38000	3625961.38000	1.33E-09	1.43E-09	1.54E-09	1.92E-09	1.88E-09	2.33E-09	5.07E-10	1.09E-08
491267.38000	3626157.24000	1.35E-09	1.61E-09	1.86E-09	2.32E-09	2.06E-09	2.46E-09	5.32E-10	1.22E-08

Cancer Risk-Onsite

491267.38000	3626353.10000	1.16E-09	1.28E-09	1.48E-09	1.84E-09	1.64E-09	2.01E-09	4.53E-10	9.86E-09
491267.38000	3626548.96000	9.82E-10	1.05E-09	1.15E-09	1.44E-09	1.35E-09	1.63E-09	3.37E-10	7.93E-09
491267.38000	3626744.82000	8.82E-10	8.99E-10	9.98E-10	1.23E-09	1.14E-09	1.40E-09	2.83E-10	6.84E-09
491267.38000	3626940.68000	8.08E-10	8.07E-10	8.73E-10	1.08E-09	1.04E-09	1.27E-09	2.31E-10	6.10E-09
491267.38000	3627136.54000	7.44E-10	7.46E-10	8.07E-10	9.92E-10	9.55E-10	1.15E-09	2.09E-10	5.61E-09
491267.38000	3627332.40000	6.80E-10	6.82E-10	7.36E-10	8.95E-10	8.53E-10	1.03E-09	1.78E-10	5.06E-09
491267.38000	3627528.26000	6.18E-10	6.09E-10	6.53E-10	7.89E-10	7.48E-10	9.17E-10	1.39E-10	4.47E-09
491267.38000	3627724.12000	5.64E-10	5.51E-10	5.88E-10	7.08E-10	6.74E-10	8.31E-10	1.32E-10	4.05E-09
491267.38000	3627919.98000	5.15E-10	5.04E-10	5.37E-10	6.47E-10	6.21E-10	7.65E-10	1.32E-10	3.72E-09
491267.38000	3628115.84000	4.68E-10	4.59E-10	4.88E-10	5.83E-10	5.57E-10	6.99E-10	1.26E-10	3.38E-09
491267.38000	3628311.70000	4.24E-10	4.14E-10	4.38E-10	5.20E-10	4.94E-10	6.22E-10	1.06E-10	3.02E-09
491267.38000	3628507.56000	3.84E-10	3.70E-10	3.90E-10	4.60E-10	4.37E-10	5.54E-10	9.62E-11	2.69E-09
491461.48000	3624590.36000	1.12E-09	5.82E-10	5.86E-10	6.90E-10	7.27E-10	9.72E-10	2.55E-10	4.93E-09
491461.48000	3624786.22000	1.40E-09	7.16E-10	7.13E-10	8.38E-10	8.92E-10	1.20E-09	3.06E-10	6.07E-09
491461.48000	3624982.08000	1.59E-09	8.51E-10	8.42E-10	9.92E-10	1.06E-09	1.45E-09	3.55E-10	7.14E-09
491461.48000	3625177.94000	1.56E-09	8.70E-10	8.59E-10	1.02E-09	1.11E-09	1.54E-09	3.99E-10	7.36E-09
491461.48000	3625373.80000	1.88E-09	1.33E-09	1.28E-09	1.52E-09	1.69E-09	2.36E-09	4.94E-10	1.06E-08
491461.48000	3625569.66000	2.03E-09	1.69E-09	1.63E-09	1.96E-09	2.19E-09	3.03E-09	5.91E-10	1.31E-08
491461.48000	3625765.52000	1.79E-09	1.64E-09	1.60E-09	1.96E-09	2.17E-09	2.90E-09	5.74E-10	1.26E-08
491461.48000	3625961.38000	1.68E-09	1.81E-09	1.91E-09	2.39E-09	2.40E-09	3.02E-09	6.44E-10	1.38E-08
491461.48000	3626157.24000	1.74E-09	2.17E-09	2.47E-09	3.09E-09	2.78E-09	3.30E-09	6.59E-10	1.62E-08
491461.48000	3626353.10000	1.36E-09	1.51E-09	1.73E-09	2.18E-09	1.96E-09	2.39E-09	5.20E-10	1.16E-08
491461.48000	3626548.96000	1.25E-09	1.45E-09	1.68E-09	2.11E-09	1.84E-09	2.20E-09	4.42E-10	1.10E-08
491461.48000	3626744.82000	1.05E-09	1.11E-09	1.25E-09	1.55E-09	1.41E-09	1.72E-09	3.27E-10	8.42E-09
491461.48000	3626940.68000	9.58E-10	9.90E-10	1.08E-09	1.34E-09	1.28E-09	1.54E-09	2.69E-10	7.46E-09
491461.48000	3627136.54000	8.68E-10	9.01E-10	9.80E-10	1.21E-09	1.14E-09	1.37E-09	2.29E-10	6.70E-09
491461.48000	3627332.40000	7.81E-10	8.03E-10	8.74E-10	1.07E-09	9.97E-10	1.21E-09	1.85E-10	5.91E-09
491461.48000	3627528.26000	7.04E-10	7.14E-10	7.69E-10	9.33E-10	8.73E-10	1.07E-09	1.64E-10	5.23E-09
491461.48000	3627724.12000	6.33E-10	6.41E-10	6.89E-10	8.33E-10	7.88E-10	9.65E-10	1.58E-10	4.71E-09
491461.48000	3627919.98000	5.68E-10	5.75E-10	6.15E-10	7.37E-10	6.95E-10	8.66E-10	1.48E-10	4.20E-09
491461.48000	3628115.84000	5.08E-10	5.10E-10	5.44E-10	6.46E-10	6.06E-10	7.60E-10	1.25E-10	3.70E-09
491461.48000	3628311.70000	4.54E-10	4.49E-10	4.77E-10	5.63E-10	5.30E-10	6.68E-10	1.15E-10	3.26E-09
491461.48000	3628507.56000	4.07E-10	3.98E-10	4.21E-10	4.97E-10	4.72E-10	5.96E-10	1.10E-10	2.90E-09
491655.58000	3624590.36000	1.15E-09	5.92E-10	5.92E-10	6.98E-10	7.39E-10	9.92E-10	2.55E-10	5.01E-09
491655.58000	3624786.22000	1.46E-09	7.14E-10	7.04E-10	8.27E-10	8.88E-10	1.20E-09	2.97E-10	6.09E-09
491655.58000	3624982.08000	1.78E-09	8.61E-10	8.45E-10	9.91E-10	1.07E-09	1.45E-09	3.47E-10	7.34E-09
491655.58000	3625177.94000	2.02E-09	1.07E-09	1.03E-09	1.22E-09	1.33E-09	1.84E-09	4.14E-10	8.93E-09
491655.58000	3625373.80000	2.18E-09	1.34E-09	1.27E-09	1.52E-09	1.69E-09	2.39E-09	4.88E-10	1.09E-08
491655.58000	3625569.66000	2.06E-09	1.44E-09	1.40E-09	1.68E-09	1.85E-09	2.62E-09	5.47E-10	1.16E-08
491655.58000	3625765.52000	2.19E-09	1.77E-09	1.66E-09	2.03E-09	2.35E-09	3.30E-09	6.06E-10	1.39E-08
491655.58000	3625961.38000	2.56E-09	2.90E-09	2.89E-09	3.60E-09	3.81E-09	4.88E-09	8.32E-10	2.15E-08
491655.58000	3626157.24000	2.31E-09	2.97E-09	3.29E-09	4.18E-09	3.87E-09	4.59E-09	8.39E-10	2.21E-08
491655.58000	3626353.10000	2.01E-09	2.57E-09	3.01E-09	3.84E-09	3.28E-09	3.85E-09	6.92E-10	1.93E-08
491655.58000	3626548.96000	1.48E-09	1.73E-09	1.96E-09	2.49E-09	2.24E-09	2.64E-09	5.03E-10	1.30E-08
491655.58000	3626744.82000	1.29E-09	1.41E-09	1.60E-09	2.00E-09	1.80E-09	2.17E-09	3.58E-10	1.06E-08
491655.58000	3626940.68000	1.16E-09	1.25E-09	1.38E-09	1.73E-09	1.61E-09	1.92E-09	3.10E-10	9.35E-09
491655.58000	3627136.54000	1.03E-09	1.11E-09	1.22E-09	1.51E-09	1.39E-09	1.65E-09	2.43E-10	8.15E-09
491655.58000	3627332.40000	9.05E-10	9.62E-10	1.05E-09	1.29E-09	1.18E-09	1.43E-09	1.93E-10	7.01E-09
491655.58000	3627528.26000	8.04E-10	8.49E-10	9.25E-10	1.13E-09	1.04E-09	1.27E-09	1.94E-10	6.21E-09
491655.58000	3627724.12000	7.11E-10	7.52E-10	8.14E-10	9.81E-10	9.08E-10	1.12E-09	1.87E-10	5.47E-09
491655.58000	3627919.98000	6.25E-10	6.53E-10	7.03E-10	8.37E-10	7.73E-10	9.63E-10	1.55E-10	4.71E-09
491655.58000	3628115.84000	5.49E-10	5.63E-10	6.03E-10	7.12E-10	6.62E-10	8.30E-10	1.43E-10	4.06E-09

Cancer Risk-Onsite

491655.58000	3628311.70000	4.85E-10	4.89E-10	5.22E-10	6.15E-10	5.78E-10	7.25E-10	1.30E-10	3.54E-09
491655.58000	3628507.56000	4.33E-10	4.28E-10	4.54E-10	5.34E-10	5.05E-10	6.38E-10	1.18E-10	3.11E-09
491849.68000	3624590.36000	1.15E-09	6.00E-10	6.03E-10	7.16E-10	7.54E-10	1.01E-09	2.53E-10	5.08E-09
491849.68000	3624786.22000	1.49E-09	7.13E-10	7.04E-10	8.34E-10	8.90E-10	1.21E-09	2.95E-10	6.13E-09
491849.68000	3624982.08000	1.93E-09	8.65E-10	8.40E-10	9.91E-10	1.07E-09	1.46E-09	3.46E-10	7.51E-09
491849.68000	3625177.94000	2.32E-09	1.06E-09	1.02E-09	1.21E-09	1.32E-09	1.82E-09	4.00E-10	9.16E-09
491849.68000	3625373.80000	2.52E-09	1.33E-09	1.27E-09	1.51E-09	1.66E-09	2.32E-09	4.67E-10	1.11E-08
491849.68000	3625569.66000	2.41E-09	1.48E-09	1.45E-09	1.73E-09	1.87E-09	2.66E-09	5.33E-10	1.21E-08
491849.68000	3625765.52000	2.60E-09	1.81E-09	1.66E-09	2.00E-09	2.36E-09	3.45E-09	5.93E-10	1.45E-08
491849.68000	3625961.38000	3.24E-09	3.24E-09	3.07E-09	3.74E-09	4.26E-09	5.88E-09	8.98E-10	2.43E-08
491849.68000	3626157.24000	2.92E-09	3.74E-09	4.04E-09	5.11E-09	4.92E-09	5.95E-09	1.01E-09	2.77E-08
491849.68000	3626353.10000	2.26E-09	2.85E-09	3.32E-09	4.32E-09	3.75E-09	4.36E-09	7.74E-10	2.16E-08
491849.68000	3626548.96000	1.90E-09	2.35E-09	2.72E-09	3.53E-09	3.06E-09	3.55E-09	6.04E-10	1.77E-08
491849.68000	3626744.82000	1.65E-09	1.96E-09	2.32E-09	2.95E-09	2.50E-09	2.98E-09	5.11E-10	1.49E-08
491849.68000	3626940.68000	1.43E-09	1.64E-09	1.84E-09	2.33E-09	2.10E-09	2.45E-09	3.58E-10	1.21E-08
491849.68000	3627136.54000	1.22E-09	1.40E-09	1.56E-09	1.94E-09	1.73E-09	2.04E-09	2.52E-10	1.01E-08
491849.68000	3627332.40000	1.06E-09	1.18E-09	1.31E-09	1.61E-09	1.45E-09	1.73E-09	2.25E-10	8.56E-09
491849.68000	3627528.26000	9.18E-10	1.02E-09	1.12E-09	1.36E-09	1.23E-09	1.50E-09	2.30E-10	7.39E-09
491849.68000	3627724.12000	7.91E-10	8.69E-10	9.49E-10	1.13E-09	1.02E-09	1.26E-09	1.97E-10	6.22E-09
491849.68000	3627919.98000	6.84E-10	7.36E-10	8.00E-10	9.47E-10	8.65E-10	1.07E-09	1.80E-10	5.28E-09
491849.68000	3628115.84000	5.95E-10	6.25E-10	6.77E-10	7.97E-10	7.34E-10	9.16E-10	1.63E-10	4.51E-09
491849.68000	3628311.70000	5.20E-10	5.34E-10	5.73E-10	6.73E-10	6.28E-10	7.87E-10	1.45E-10	3.86E-09
491849.68000	3628507.56000	4.56E-10	4.58E-10	4.87E-10	5.71E-10	5.39E-10	6.78E-10	1.25E-10	3.31E-09
492043.78000	3624590.36000	1.14E-09	6.18E-10	6.19E-10	7.37E-10	7.80E-10	1.05E-09	2.53E-10	5.20E-09
492043.78000	3624786.22000	1.47E-09	7.24E-10	7.20E-10	8.57E-10	9.11E-10	1.22E-09	2.88E-10	6.19E-09
492043.78000	3624982.08000	1.97E-09	8.64E-10	8.52E-10	1.01E-09	1.08E-09	1.46E-09	3.39E-10	7.59E-09
492043.78000	3625177.94000	2.62E-09	1.05E-09	1.03E-09	1.22E-09	1.31E-09	1.78E-09	4.11E-10	9.42E-09
492043.78000	3625373.80000	2.81E-09	1.10E-09	1.08E-09	1.29E-09	1.37E-09	1.89E-09	4.41E-10	9.99E-09
492043.78000	3625569.66000	2.78E-09	1.29E-09	1.21E-09	1.45E-09	1.64E-09	2.35E-09	4.44E-10	1.12E-08
492043.78000	3625765.52000	3.03E-09	1.77E-09	1.63E-09	1.96E-09	2.29E-09	3.39E-09	5.77E-10	1.47E-08
492043.78000	3625961.38000	3.55E-09	2.68E-09	2.41E-09	2.95E-09	3.56E-09	5.38E-09	8.24E-10	2.13E-08
492043.78000	3626157.24000	4.08E-09	4.70E-09	4.55E-09	5.68E-09	6.31E-09	8.34E-09	1.22E-09	3.49E-08
492043.78000	3626353.10000	3.82E-09	5.79E-09	6.56E-09	8.62E-09	7.72E-09	8.54E-09	1.24E-09	4.23E-08
492043.78000	3626548.96000	3.23E-09	4.56E-09	5.14E-09	6.35E-09	6.01E-09	6.80E-09	9.85E-10	3.31E-08
492043.78000	3626744.82000	2.20E-09	2.86E-09	3.56E-09	4.65E-09	3.69E-09	4.29E-09	7.04E-10	2.20E-08
492043.78000	3626940.68000	1.79E-09	2.25E-09	2.59E-09	3.33E-09	2.85E-09	3.26E-09	4.08E-10	1.65E-08
492043.78000	3627136.54000	1.49E-09	1.82E-09	2.08E-09	2.60E-09	2.24E-09	2.61E-09	2.96E-10	1.31E-08
492043.78000	3627332.40000	1.25E-09	1.50E-09	1.68E-09	2.06E-09	1.79E-09	2.13E-09	2.82E-10	1.07E-08
492043.78000	3627528.26000	1.03E-09	1.21E-09	1.35E-09	1.61E-09	1.41E-09	1.71E-09	2.41E-10	8.56E-09
492043.78000	3627724.12000	8.64E-10	9.80E-10	1.08E-09	1.27E-09	1.14E-09	1.39E-09	2.12E-10	6.93E-09
492043.78000	3627919.98000	7.33E-10	8.06E-10	8.75E-10	1.03E-09	9.35E-10	1.15E-09	1.92E-10	5.72E-09
492043.78000	3628115.84000	6.31E-10	6.77E-10	7.31E-10	8.54E-10	7.87E-10	9.75E-10	1.68E-10	4.82E-09
492043.78000	3628311.70000	5.48E-10	5.74E-10	6.17E-10	7.19E-10	6.66E-10	8.28E-10	1.45E-10	4.10E-09
492043.78000	3628507.56000	4.81E-10	4.92E-10	5.26E-10	6.14E-10	5.68E-10	7.13E-10	1.25E-10	3.52E-09
492237.88000	3624590.36000	1.16E-09	6.41E-10	6.35E-10	7.56E-10	8.05E-10	1.09E-09	2.48E-10	5.33E-09
492237.88000	3624786.22000	1.38E-09	6.73E-10	6.85E-10	8.20E-10	8.43E-10	1.13E-09	2.68E-10	5.80E-09
492237.88000	3624982.08000	1.83E-09	7.66E-10	7.79E-10	9.33E-10	9.63E-10	1.29E-09	3.14E-10	6.88E-09
492237.88000	3625177.94000	2.61E-09	8.63E-10	8.58E-10	1.03E-09	1.09E-09	1.48E-09	3.68E-10	8.30E-09
492237.88000	3625373.80000	3.63E-09	1.17E-09	1.19E-09	1.42E-09	1.47E-09	1.99E-09	4.75E-10	1.13E-08
492237.88000	3625569.66000	3.68E-09	1.31E-09	1.25E-09	1.51E-09	1.67E-09	2.36E-09	4.85E-10	1.22E-08
492237.88000	3625765.52000	3.65E-09	1.76E-09	1.63E-09	1.97E-09	2.26E-09	3.31E-09	5.61E-10	1.51E-08
492237.88000	3625961.38000	4.22E-09	2.62E-09	2.37E-09	2.89E-09	3.43E-09	5.29E-09	7.77E-10	2.16E-08

Cancer Risk-Onsite

492237.88000	3626157.24000	6.75E-09	5.71E-09	4.35E-09	5.16E-09	7.82E-09	1.25E-08	1.33E-09	4.36E-08
492237.88000	3626353.10000	5.87E-09	6.99E-09	4.92E-09	6.42E-09	1.04E-08	1.32E-08	1.87E-09	4.97E-08
492237.88000	3626548.96000	4.42E-09	7.69E-09	1.03E-08	1.41E-08	1.02E-08	1.06E-08	1.60E-09	5.89E-08
492237.88000	3626744.82000	3.07E-09	4.50E-09	6.02E-09	8.26E-09	5.96E-09	6.61E-09	1.03E-09	3.54E-08
492237.88000	3626940.68000	2.34E-09	3.28E-09	3.97E-09	5.19E-09	4.13E-09	4.60E-09	4.97E-10	2.40E-08
492237.88000	3627136.54000	1.85E-09	2.50E-09	2.94E-09	3.69E-09	2.99E-09	3.42E-09	4.07E-10	1.78E-08
492237.88000	3627332.40000	1.45E-09	1.89E-09	2.17E-09	2.61E-09	2.18E-09	2.57E-09	3.53E-10	1.32E-08
492237.88000	3627528.26000	1.15E-09	1.42E-09	1.59E-09	1.87E-09	1.61E-09	1.94E-09	2.75E-10	9.87E-09
492237.88000	3627724.12000	9.53E-10	1.13E-09	1.25E-09	1.46E-09	1.28E-09	1.56E-09	2.45E-10	7.87E-09
492237.88000	3627919.98000	7.87E-10	8.90E-10	9.73E-10	1.13E-09	1.01E-09	1.24E-09	1.96E-10	6.22E-09
492237.88000	3628115.84000	6.60E-10	7.16E-10	7.71E-10	8.93E-10	8.10E-10	1.00E-09	1.56E-10	5.01E-09
492237.88000	3628311.70000	5.68E-10	5.99E-10	6.42E-10	7.45E-10	6.78E-10	8.45E-10	1.30E-10	4.21E-09
492237.88000	3628507.56000	4.99E-10	5.15E-10	5.51E-10	6.42E-10	5.85E-10	7.33E-10	1.12E-10	3.64E-09
492431.98000	3624590.36000	1.15E-09	6.48E-10	6.49E-10	7.71E-10	8.14E-10	1.10E-09	2.58E-10	5.38E-09
492431.98000	3624786.22000	1.39E-09	7.05E-10	7.18E-10	8.56E-10	8.86E-10	1.20E-09	2.83E-10	6.03E-09
492431.98000	3624982.08000	1.98E-09	9.27E-10	8.92E-10	1.06E-09	1.17E-09	1.60E-09	3.40E-10	7.97E-09
492431.98000	3625177.94000	2.92E-09	1.11E-09	1.01E-09	1.19E-09	1.42E-09	1.96E-09	4.03E-10	1.00E-08
492431.98000	3625373.80000	4.60E-09	1.43E-09	1.30E-09	1.55E-09	1.81E-09	2.51E-09	5.25E-10	1.37E-08
492431.98000	3625569.66000	5.52E-09	1.44E-09	1.41E-09	1.70E-09	1.84E-09	2.55E-09	5.79E-10	1.50E-08
492431.98000	3625765.52000	5.28E-09	2.33E-09	2.20E-09	2.66E-09	2.99E-09	4.20E-09	6.69E-10	2.03E-08
492431.98000	3625961.38000	5.11E-09	2.83E-09	2.75E-09	3.42E-09	3.66E-09	5.38E-09	7.69E-10	2.39E-08
492431.98000	3626157.24000	8.59E-09	5.44E-09	4.04E-09	4.92E-09	7.42E-09	1.26E-08	1.27E-09	4.42E-08
492431.98000	3626353.10000	9.75E-09	7.45E-09	3.97E-09	5.11E-09	1.15E-08	2.20E-08	2.60E-09	6.24E-08
492431.98000	3626548.96000	6.50E-09	1.33E-08	1.70E-08	2.49E-08	2.00E-08	1.86E-08	2.86E-09	1.03E-07
492431.98000	3626744.82000	4.51E-09	7.91E-09	1.13E-08	1.70E-08	1.10E-08	1.10E-08	1.30E-09	6.41E-08
492431.98000	3626940.68000	3.19E-09	5.29E-09	6.93E-09	9.27E-09	6.42E-09	6.79E-09	7.50E-10	3.86E-08
492431.98000	3627136.54000	2.25E-09	3.43E-09	4.20E-09	5.05E-09	3.84E-09	4.30E-09	5.22E-10	2.36E-08
492431.98000	3627332.40000	1.79E-09	2.60E-09	3.21E-09	3.72E-09	2.83E-09	3.25E-09	4.48E-10	1.78E-08
492431.98000	3627528.26000	1.26E-09	1.60E-09	1.80E-09	2.05E-09	1.76E-09	2.08E-09	2.83E-10	1.08E-08
492431.98000	3627724.12000	9.84E-10	1.17E-09	1.28E-09	1.46E-09	1.28E-09	1.55E-09	1.98E-10	7.92E-09
492431.98000	3627919.98000	8.09E-10	9.16E-10	9.90E-10	1.14E-09	1.02E-09	1.25E-09	1.78E-10	6.29E-09
492431.98000	3628115.84000	6.82E-10	7.44E-10	8.02E-10	9.26E-10	8.35E-10	1.04E-09	1.57E-10	5.18E-09
492431.98000	3628311.70000	5.84E-10	6.20E-10	6.67E-10	7.70E-10	6.99E-10	8.74E-10	1.39E-10	4.35E-09
492431.98000	3628507.56000	5.20E-10	5.48E-10	5.92E-10	6.86E-10	6.21E-10	7.77E-10	1.30E-10	3.87E-09
492626.08000	3624590.36000	1.29E-09	6.59E-10	6.19E-10	7.23E-10	8.39E-10	1.15E-09	2.64E-10	5.55E-09
492626.08000	3624786.22000	1.43E-09	7.26E-10	7.30E-10	8.65E-10	9.06E-10	1.22E-09	2.86E-10	6.17E-09
492626.08000	3624982.08000	2.06E-09	9.14E-10	8.34E-10	9.73E-10	1.16E-09	1.63E-09	3.39E-10	7.91E-09
492626.08000	3625177.94000	2.67E-09	1.07E-09	1.07E-09	1.26E-09	1.33E-09	1.82E-09	3.90E-10	9.61E-09
492626.08000	3625373.80000	4.44E-09	1.38E-09	1.36E-09	1.61E-09	1.71E-09	2.35E-09	5.00E-10	1.34E-08
492626.08000	3625569.66000	8.64E-09	1.64E-09	1.62E-09	1.91E-09	2.05E-09	2.83E-09	7.00E-10	1.94E-08
492626.08000	3625765.52000	8.53E-09	2.39E-09	2.34E-09	2.78E-09	3.01E-09	4.21E-09	7.99E-10	2.41E-08
492626.08000	3625961.38000	7.70E-09	3.29E-09	2.58E-09	3.12E-09	4.62E-09	7.05E-09	8.89E-10	2.92E-08
492626.08000	3626157.24000	9.09E-09	4.42E-09	3.11E-09	3.95E-09	6.41E-09	1.07E-08	1.28E-09	3.90E-08
492626.08000	3626353.10000	1.56E-08	5.78E-09	3.69E-09	4.96E-09	9.11E-09	1.87E-08	2.67E-09	6.05E-08
492626.08000	3626548.96000	1.61E-08	3.50E-08	2.06E-08	3.15E-08	8.27E-08	7.31E-08	5.34E-09	2.64E-07
492626.08000	3626744.82000	8.09E-09	2.18E-08	5.00E-08	1.76E-07	2.87E-08	2.30E-08	2.80E-09	3.10E-07
492626.08000	3626940.68000	4.22E-09	8.80E-09	1.28E-08	1.41E-08	8.77E-09	8.87E-09	9.62E-10	5.85E-08
492626.08000	3627136.54000	2.56E-09	4.24E-09	5.20E-09	5.65E-09	4.26E-09	4.72E-09	5.15E-10	2.71E-08
492626.08000	3627332.40000	1.79E-09	2.56E-09	2.98E-09	3.32E-09	2.67E-09	3.10E-09	3.98E-10	1.68E-08
492626.08000	3627528.26000	1.39E-09	1.86E-09	2.17E-09	2.43E-09	1.96E-09	2.33E-09	3.08E-10	1.24E-08
492626.08000	3627724.12000	1.01E-09	1.21E-09	1.32E-09	1.47E-09	1.30E-09	1.59E-09	2.10E-10	8.12E-09
492626.08000	3627919.98000	8.19E-10	9.28E-10	9.95E-10	1.12E-09	1.01E-09	1.25E-09	1.76E-10	6.29E-09

Cancer Risk-Onsite

492626.08000	3628115.84000	6.96E-10	7.67E-10	8.28E-10	9.39E-10	8.44E-10	1.05E-09	1.61E-10	5.29E-09
492626.08000	3628311.70000	6.00E-10	6.44E-10	6.96E-10	7.93E-10	7.14E-10	8.96E-10	1.42E-10	4.48E-09
492626.08000	3628507.56000	5.32E-10	5.63E-10	6.09E-10	6.95E-10	6.26E-10	7.88E-10	1.28E-10	3.94E-09
492626.09000	3626426.56000	1.91E-08	4.89E-09	4.72E-09	2.85E-08	6.16E-08	1.39E-07	7.79E-09	2.65E-07
492652.38000	3626742.71000	9.04E-09	8.81E-09	5.01E-09	6.79E-09	1.39E-08	3.61E-08	3.67E-09	8.33E-08
492660.72000	3626713.21000	1.05E-08	1.42E-08	2.53E-08	4.25E-08	2.05E-08	1.93E-08	3.17E-09	1.35E-07
492676.75000	3626651.01000	1.69E-08	2.25E-08	3.07E-08	4.52E-08	3.42E-08	2.79E-08	4.14E-09	1.82E-07
492678.68000	3626411.81000	2.57E-08	4.08E-08	2.17E-08	3.86E-08	8.39E-08	1.38E-07	7.41E-09	3.56E-07
492679.32000	3626674.09000	1.52E-08	1.67E-08	2.94E-08	4.75E-08	2.49E-08	2.24E-08	3.62E-09	1.60E-07
492688.30000	3626714.50000	1.23E-08	1.48E-08	7.94E-09	1.08E-08	2.55E-08	6.67E-08	4.42E-09	1.43E-07
492689.58000	3626622.15000	2.16E-08	2.12E-08	1.77E-08	2.34E-08	3.47E-08	3.42E-08	3.86E-09	1.57E-07
492692.79000	3626668.96000	1.70E-08	2.05E-08	3.26E-08	4.91E-08	3.05E-08	2.58E-08	4.02E-09	1.79E-07
492697.92000	3626391.93000	2.56E-08	6.31E-08	2.92E-08	5.79E-08	9.87E-08	1.01E-07	6.40E-09	3.82E-07
492699.20000	3626422.71000	3.16E-08	1.27E-08	8.30E-09	1.13E-08	2.03E-08	2.22E-08	2.90E-09	1.09E-07
492703.69000	3626740.79000	1.11E-08	9.03E-09	5.15E-09	7.12E-09	1.47E-08	4.06E-08	4.19E-09	9.19E-08
492704.33000	3626600.99000	2.78E-08	2.04E-08	1.55E-08	2.03E-08	3.36E-08	3.63E-08	3.69E-09	1.58E-07
492708.82000	3626624.72000	2.49E-08	2.12E-08	1.92E-08	2.61E-08	3.51E-08	3.22E-08	3.98E-09	1.63E-07
492716.51000	3626577.26000	3.78E-08	1.85E-08	1.21E-08	1.58E-08	3.10E-08	3.78E-08	3.48E-09	1.56E-07
492720.36000	3626707.44000	1.47E-08	8.78E-09	5.30E-09	7.18E-09	1.47E-08	3.10E-08	3.33E-09	8.50E-08
492726.13000	3626643.31000	2.50E-08	2.29E-08	2.61E-08	3.73E-08	3.61E-08	2.93E-08	4.10E-09	1.81E-07
492726.77000	3626607.40000	3.29E-08	2.28E-08	2.25E-08	3.17E-08	3.76E-08	3.16E-08	4.17E-09	1.83E-07
492739.60000	3626591.37000	4.54E-08	1.26E-08	6.70E-09	8.85E-09	2.06E-08	3.01E-08	3.16E-09	1.27E-07
492740.24000	3626567.00000	5.59E-08	1.32E-08	7.39E-09	9.85E-09	2.16E-08	2.79E-08	3.10E-09	1.39E-07
492742.16000	3626418.22000	3.90E-08	1.77E-08	1.43E-08	1.89E-08	2.86E-08	2.88E-08	3.17E-09	1.50E-07
492747.94000	3626386.16000	2.94E-08	1.92E-08	1.82E-08	2.45E-08	2.99E-08	2.75E-08	3.39E-09	1.52E-07
492750.50000	3626550.33000	6.57E-08	1.70E-08	2.72E-08	4.03E-08	2.45E-08	2.17E-08	3.45E-09	2.00E-07
492754.35000	3626706.16000	1.63E-08	1.24E-08	7.53E-09	1.02E-08	2.13E-08	5.55E-08	4.03E-09	1.27E-07
492754.99000	3626574.05000	6.73E-08	1.50E-08	2.60E-08	4.10E-08	2.15E-08	1.99E-08	3.26E-09	1.94E-07
492755.63000	3626685.00000	2.04E-08	1.25E-08	7.50E-09	1.04E-08	2.12E-08	5.60E-08	4.00E-09	1.32E-07
492758.84000	3626739.51000	1.23E-08	1.00E-08	5.94E-09	8.13E-09	1.70E-08	3.84E-08	3.76E-09	9.56E-08
492759.48000	3626659.99000	2.74E-08	8.89E-09	5.31E-09	7.42E-09	1.48E-08	3.13E-08	3.26E-09	9.84E-08
492771.66000	3626525.32000	7.46E-08	1.94E-08	2.38E-08	3.36E-08	2.90E-08	2.49E-08	3.60E-09	2.09E-07
492777.44000	3626545.20000	8.78E-08	1.82E-08	2.62E-08	3.77E-08	2.65E-08	2.30E-08	3.52E-09	2.23E-07
492778.72000	3626388.08000	3.16E-08	1.91E-08	1.95E-08	2.66E-08	2.95E-08	2.65E-08	3.52E-09	1.56E-07
492780.00000	3626415.01000	4.89E-08	1.89E-08	2.09E-08	2.89E-08	2.89E-08	2.54E-08	3.52E-09	1.75E-07
492783.85000	3626648.44000	3.59E-08	1.30E-08	7.74E-09	1.09E-08	2.37E-08	5.71E-08	4.10E-09	1.52E-07
492788.98000	3626677.30000	2.51E-08	9.15E-09	5.51E-09	7.84E-09	1.56E-08	3.31E-08	3.41E-09	9.97E-08
492820.18000	3624590.36000	1.30E-09	6.70E-10	6.32E-10	7.40E-10	8.42E-10	1.15E-09	2.63E-10	5.60E-09
492820.18000	3624786.22000	1.68E-09	7.35E-10	6.58E-10	7.67E-10	9.25E-10	1.29E-09	3.00E-10	6.35E-09
492820.18000	3624982.08000	2.21E-09	8.29E-10	7.15E-10	8.36E-10	1.05E-09	1.49E-09	3.43E-10	7.47E-09
492820.18000	3625177.94000	2.98E-09	1.07E-09	9.31E-10	1.09E-09	1.35E-09	1.97E-09	4.06E-10	9.80E-09
492820.18000	3625373.80000	4.80E-09	1.04E-09	8.37E-10	9.99E-10	1.36E-09	1.97E-09	5.14E-10	1.15E-08
492820.18000	3625569.66000	9.24E-09	1.74E-09	1.71E-09	2.03E-09	2.16E-09	2.96E-09	6.87E-10	2.05E-08
492820.18000	3625765.52000	2.91E-08	1.64E-09	1.44E-09	1.64E-09	2.11E-09	2.85E-09	1.51E-09	4.02E-08
492820.18000	3625961.38000	1.34E-08	1.55E-09	1.23E-09	1.59E-09	2.29E-09	3.43E-09	1.07E-09	2.46E-08
492820.18000	3626157.24000	9.00E-09	2.73E-09	1.99E-09	2.68E-09	4.27E-09	7.01E-09	1.46E-09	2.91E-08
492820.18000	3626353.10000	1.40E-08	5.12E-09	3.51E-09	4.96E-09	8.97E-09	1.73E-08	2.97E-09	5.69E-08
492820.18000	3626548.96000	1.47E-07	5.10E-08	2.53E-08	3.44E-08	7.99E-08	1.70E-07	7.96E-09	5.16E-07
492820.18000	3626744.82000	1.19E-08	5.18E-08	6.87E-08	2.89E-08	2.41E-08	2.33E-08	2.56E-09	2.11E-07
492820.18000	3626940.68000	4.57E-09	9.60E-09	1.20E-08	1.04E-08	7.80E-09	8.48E-09	8.33E-10	5.38E-08
492820.18000	3627136.54000	2.63E-09	4.26E-09	4.92E-09	4.95E-09	3.97E-09	4.57E-09	4.90E-10	2.58E-08
492820.18000	3627332.40000	1.79E-09	2.50E-09	2.79E-09	2.96E-09	2.50E-09	2.97E-09	3.73E-10	1.59E-08

Cancer Risk-Onsite

492820.18000	3627528.26000	1.32E-09	1.67E-09	1.81E-09	1.98E-09	1.72E-09	2.09E-09	2.75E-10	1.09E-08
492820.18000	3627724.12000	1.24E-09	1.57E-09	1.62E-09	1.67E-09	1.65E-09	2.01E-09	2.57E-10	1.00E-08
492820.18000	3627919.98000	8.21E-10	9.16E-10	9.71E-10	1.08E-09	9.85E-10	1.23E-09	1.73E-10	6.18E-09
492820.18000	3628115.84000	6.79E-10	7.27E-10	7.65E-10	8.60E-10	7.91E-10	9.93E-10	1.45E-10	4.96E-09
492820.18000	3628311.70000	6.10E-10	6.54E-10	7.06E-10	8.01E-10	7.16E-10	8.99E-10	1.38E-10	4.52E-09
492820.18000	3628507.56000	5.32E-10	5.58E-10	6.00E-10	6.83E-10	6.16E-10	7.76E-10	1.20E-10	3.89E-09
492874.27000	3625788.48000	4.34E-08	1.91E-09	1.73E-09	1.94E-09	2.46E-09	3.27E-09	1.87E-09	5.65E-08
492881.32000	3625908.40000	2.47E-08	1.36E-09	1.19E-09	1.45E-09	2.01E-09	2.92E-09	1.16E-09	3.48E-08
492883.25000	3625830.80000	3.84E-08	1.67E-09	1.51E-09	1.73E-09	2.24E-09	3.05E-09	1.62E-09	5.03E-08
492894.15000	3625789.12000	5.47E-08	2.04E-09	1.88E-09	2.07E-09	2.59E-09	3.40E-09	2.08E-09	6.88E-08
492901.84000	3625911.60000	2.85E-08	1.40E-09	1.23E-09	1.47E-09	2.04E-09	2.98E-09	1.20E-09	3.88E-08
492906.98000	3625898.14000	3.21E-08	1.36E-09	1.21E-09	1.43E-09	1.96E-09	2.84E-09	1.22E-09	4.21E-08
492910.18000	3625790.40000	6.58E-08	2.15E-09	1.99E-09	2.16E-09	2.70E-09	3.53E-09	2.23E-09	8.06E-08
492919.80000	3625834.65000	5.82E-08	1.78E-09	1.64E-09	1.82E-09	2.34E-09	3.17E-09	1.79E-09	7.08E-08
492928.14000	3625914.81000	3.41E-08	1.47E-09	1.29E-09	1.51E-09	2.09E-09	3.07E-09	1.25E-09	4.48E-08
492930.70000	3625786.55000	8.06E-08	2.23E-09	2.07E-09	2.22E-09	2.76E-09	3.61E-09	2.32E-09	9.58E-08
492933.91000	3625898.14000	4.11E-08	1.42E-09	1.26E-09	1.47E-09	2.01E-09	2.91E-09	1.26E-09	5.14E-08
492947.38000	3625791.04000	9.75E-08	2.33E-09	2.17E-09	2.30E-09	2.85E-09	3.71E-09	2.44E-09	1.13E-07
492951.87000	3625908.40000	4.41E-08	1.49E-09	1.31E-09	1.53E-09	2.10E-09	3.06E-09	1.28E-09	5.48E-08
492955.07000	3625845.55000	9.36E-08	1.61E-09	1.45E-09	1.63E-09	2.15E-09	3.00E-09	1.50E-09	1.05E-07
492963.41000	3625787.84000	1.02E-07	2.22E-09	2.06E-09	2.20E-09	2.73E-09	3.59E-09	2.29E-09	1.17E-07
492973.67000	3625907.11000	5.10E-08	1.58E-09	1.37E-09	1.60E-09	2.20E-09	3.20E-09	1.31E-09	6.22E-08
492982.65000	3625787.84000	1.07E-07	2.25E-09	2.08E-09	2.22E-09	2.76E-09	3.61E-09	2.33E-09	1.23E-07
492993.55000	3625914.17000	4.92E-08	1.65E-09	1.43E-09	1.67E-09	2.31E-09	3.36E-09	1.36E-09	6.10E-08
492996.11000	3625897.50000	6.50E-08	1.64E-09	1.42E-09	1.66E-09	2.28E-09	3.30E-09	1.35E-09	7.66E-08
492999.96000	3625787.84000	1.11E-07	2.43E-09	2.26E-09	2.39E-09	2.93E-09	3.79E-09	2.56E-09	1.28E-07
493014.28000	3624590.36000	1.35E-09	4.54E-10	3.95E-10	4.87E-10	6.26E-10	8.75E-10	2.66E-10	4.46E-09
493014.28000	3624786.22000	1.71E-09	4.90E-10	4.26E-10	5.28E-10	6.90E-10	9.68E-10	3.07E-10	5.12E-09
493014.28000	3624982.08000	2.29E-09	5.77E-10	5.00E-10	6.19E-10	8.19E-10	1.16E-09	3.59E-10	6.32E-09
493014.28000	3625177.94000	3.15E-09	9.34E-10	8.10E-10	9.80E-10	1.26E-09	1.78E-09	4.31E-10	9.34E-09
493014.28000	3625373.80000	4.57E-09	1.22E-09	1.21E-09	1.44E-09	1.53E-09	2.12E-09	5.05E-10	1.26E-08
493014.28000	3625569.66000	1.12E-08	1.21E-09	1.03E-09	1.20E-09	1.64E-09	2.36E-09	8.36E-10	1.95E-08
493014.28000	3625765.52000	7.01E-08	2.11E-09	1.94E-09	2.08E-09	2.59E-09	3.40E-09	2.16E-09	8.44E-08
493014.28000	3625961.38000	2.83E-08	1.61E-09	1.38E-09	1.67E-09	2.35E-09	3.52E-09	1.31E-09	4.01E-08
493014.28000	3626157.24000	1.10E-08	3.96E-09	2.86E-09	3.67E-09	5.84E-09	9.87E-09	1.67E-09	3.89E-08
493014.28000	3626353.10000	1.73E-08	9.92E-09	8.53E-09	1.02E-08	1.29E-08	2.18E-08	2.86E-09	8.34E-08
493014.28000	3626548.96000	1.63E-08	1.98E-08	1.47E-08	1.44E-08	1.59E-08	2.11E-08	3.46E-09	1.06E-07
493014.28000	3626744.82000	7.60E-09	1.25E-08	1.15E-08	9.45E-09	9.34E-09	1.18E-08	1.47E-09	6.37E-08
493014.28000	3626940.68000	3.91E-09	6.44E-09	6.61E-09	5.92E-09	5.36E-09	6.39E-09	6.27E-10	3.52E-08
493014.28000	3627136.54000	2.42E-09	3.52E-09	3.78E-09	3.72E-09	3.24E-09	3.88E-09	3.71E-10	2.09E-08
493014.28000	3627332.40000	1.91E-09	2.73E-09	3.07E-09	3.15E-09	2.63E-09	3.13E-09	3.32E-10	1.70E-08
493014.28000	3627528.26000	1.46E-09	1.93E-09	2.12E-09	2.24E-09	1.94E-09	2.35E-09	2.66E-10	1.23E-08
493014.28000	3627724.12000	1.23E-09	1.47E-09	1.32E-09	1.37E-09	1.54E-09	1.92E-09	2.25E-10	9.07E-09
493014.28000	3627919.98000	7.95E-10	8.69E-10	9.13E-10	1.01E-09	9.27E-10	1.17E-09	1.58E-10	5.84E-09
493014.28000	3628115.84000	6.67E-10	7.05E-10	7.42E-10	8.31E-10	7.65E-10	9.69E-10	1.43E-10	4.82E-09
493014.28000	3628311.70000	5.61E-10	5.72E-10	5.96E-10	6.70E-10	6.26E-10	7.99E-10	1.19E-10	3.94E-09
493014.28000	3628507.56000	4.90E-10	4.90E-10	5.13E-10	5.81E-10	5.41E-10	6.92E-10	1.08E-10	3.41E-09
493015.99000	3625896.85000	7.32E-08	1.66E-09	1.48E-09	1.70E-09	2.28E-09	3.25E-09	1.50E-09	8.51E-08
493021.12000	3625791.04000	1.27E-07	2.93E-09	2.76E-09	2.87E-09	3.44E-09	4.32E-09	3.24E-09	1.47E-07
493023.05000	3625912.24000	5.39E-08	1.65E-09	1.46E-09	1.70E-09	2.30E-09	3.32E-09	1.46E-09	6.58E-08
493036.52000	3625789.12000	1.21E-07	2.97E-09	2.80E-09	2.91E-09	3.48E-09	4.36E-09	3.30E-09	1.41E-07
493044.21000	3625907.11000	5.42E-08	1.69E-09	1.49E-09	1.74E-09	2.35E-09	3.38E-09	1.52E-09	6.64E-08

Cancer Risk-Onsite

493055.75000	3625789.76000	1.16E-07	3.09E-09	2.93E-09	3.04E-09	3.62E-09	4.52E-09	3.47E-09	1.37E-07
493066.66000	3625907.76000	4.41E-08	1.78E-09	1.56E-09	1.83E-09	2.48E-09	3.61E-09	1.55E-09	5.69E-08
493069.86000	3625832.73000	1.40E-07	3.59E-09	3.43E-09	3.54E-09	4.16E-09	5.14E-09	4.16E-09	1.64E-07
493076.28000	3625787.84000	9.63E-08	3.12E-09	2.95E-09	3.07E-09	3.65E-09	4.56E-09	3.51E-09	1.17E-07
493085.25000	3625912.24000	3.74E-08	1.67E-09	1.46E-09	1.75E-09	2.38E-09	3.49E-09	1.45E-09	4.96E-08
493087.18000	3625895.57000	4.36E-08	1.79E-09	1.59E-09	1.85E-09	2.48E-09	3.57E-09	1.61E-09	5.65E-08
493094.87000	3625832.73000	7.88E-08	2.72E-09	2.56E-09	2.72E-09	3.30E-09	4.25E-09	2.99E-09	9.73E-08
493094.87000	3625787.84000	7.95E-08	2.89E-09	2.73E-09	2.87E-09	3.44E-09	4.34E-09	3.22E-09	9.90E-08
493108.98000	3625911.60000	3.15E-08	1.65E-09	1.45E-09	1.74E-09	2.37E-09	3.49E-09	1.43E-09	4.36E-08
493110.90000	3625837.21000	5.77E-08	2.11E-09	1.95E-09	2.15E-09	2.71E-09	3.65E-09	2.17E-09	7.24E-08
493112.19000	3625897.50000	3.40E-08	1.69E-09	1.49E-09	1.77E-09	2.39E-09	3.50E-09	1.49E-09	4.63E-08
493112.83000	3625788.48000	6.47E-08	2.44E-09	2.27E-09	2.44E-09	2.99E-09	3.89E-09	2.60E-09	8.13E-08
493129.50000	3625787.19000	5.29E-08	2.25E-09	2.09E-09	2.27E-09	2.81E-09	3.73E-09	2.35E-09	6.84E-08
493133.99000	3625901.98000	2.66E-08	1.69E-09	1.47E-09	1.78E-09	2.43E-09	3.60E-09	1.40E-09	3.90E-08
493148.74000	3625787.19000	4.26E-08	2.06E-09	1.89E-09	2.09E-09	2.64E-09	3.57E-09	2.07E-09	5.69E-08
493151.95000	3625834.01000	3.49E-08	1.77E-09	1.60E-09	1.84E-09	2.39E-09	3.36E-09	1.69E-09	4.75E-08
493164.77000	3625790.40000	3.58E-08	1.93E-09	1.76E-09	1.97E-09	2.52E-09	3.47E-09	1.89E-09	4.93E-08
493166.70000	3625837.86000	2.94E-08	1.66E-09	1.49E-09	1.74E-09	2.30E-09	3.28E-09	1.52E-09	4.14E-08
493184.65000	3625789.12000	2.94E-08	1.81E-09	1.63E-09	1.86E-09	2.42E-09	3.38E-09	1.69E-09	4.22E-08
493187.86000	3625836.57000	2.44E-08	1.60E-09	1.42E-09	1.68E-09	2.24E-09	3.22E-09	1.40E-09	3.60E-08
493201.33000	3625836.57000	2.19E-08	1.57E-09	1.39E-09	1.64E-09	2.20E-09	3.19E-09	1.34E-09	3.32E-08
493201.97000	3625791.04000	2.51E-08	1.73E-09	1.54E-09	1.78E-09	2.34E-09	3.31E-09	1.56E-09	3.74E-08
493208.38000	3624590.36000	1.22E-09	3.38E-10	3.07E-10	3.79E-10	4.98E-10	6.99E-10	2.98E-10	3.74E-09
493208.38000	3624786.22000	1.71E-09	5.21E-10	4.56E-10	5.46E-10	7.19E-10	1.02E-09	3.44E-10	5.32E-09
493208.38000	3624982.08000	2.17E-09	9.03E-10	8.28E-10	9.76E-10	1.15E-09	1.61E-09	3.87E-10	8.03E-09
493208.38000	3625177.94000	2.97E-09	1.13E-09	1.06E-09	1.25E-09	1.43E-09	1.99E-09	4.60E-10	1.03E-08
493208.38000	3625373.80000	4.49E-09	1.33E-09	1.31E-09	1.55E-09	1.66E-09	2.28E-09	5.63E-10	1.32E-08
493208.38000	3625569.66000	9.43E-09	1.85E-09	1.62E-09	1.91E-09	2.38E-09	3.38E-09	8.76E-10	2.14E-08
493208.38000	3625765.52000	2.45E-08	1.75E-09	1.56E-09	1.81E-09	2.36E-09	3.32E-09	1.55E-09	3.69E-08
493208.38000	3625961.38000	1.33E-08	1.71E-09	1.44E-09	1.70E-09	2.38E-09	3.60E-09	1.22E-09	2.53E-08
493208.38000	3626157.24000	8.18E-09	2.49E-09	1.94E-09	2.48E-09	3.78E-09	6.06E-09	1.49E-09	2.64E-08
493208.38000	3626353.10000	9.04E-09	5.78E-09	4.01E-09	4.93E-09	7.45E-09	1.11E-08	2.37E-09	4.47E-08
493208.38000	3626548.96000	6.35E-09	6.43E-09	5.00E-09	4.76E-09	5.97E-09	8.09E-09	1.78E-09	3.84E-08
493208.38000	3626744.82000	4.46E-09	5.51E-09	5.20E-09	4.93E-09	4.84E-09	6.33E-09	8.26E-10	3.21E-08
493208.38000	3626940.68000	2.99E-09	3.86E-09	3.70E-09	3.57E-09	3.48E-09	4.40E-09	4.32E-10	2.24E-08
493208.38000	3627136.54000	2.07E-09	2.64E-09	2.67E-09	2.67E-09	2.49E-09	3.09E-09	2.93E-10	1.59E-08
493208.38000	3627332.40000	1.82E-09	2.41E-09	2.42E-09	2.34E-09	2.34E-09	2.87E-09	2.83E-10	1.45E-08
493208.38000	3627528.26000	1.37E-09	1.16E-09	9.29E-10	1.02E-09	1.30E-09	2.04E-09	2.21E-10	8.04E-09
493208.38000	3627724.12000	1.09E-09	1.30E-09	1.39E-09	1.49E-09	1.34E-09	1.65E-09	1.84E-10	8.44E-09
493208.38000	3627919.98000	9.19E-10	1.05E-09	1.07E-09	1.13E-09	1.10E-09	1.38E-09	1.60E-10	6.81E-09
493208.38000	3628115.84000	7.70E-10	8.54E-10	8.78E-10	9.26E-10	9.07E-10	1.14E-09	1.40E-10	5.62E-09
493208.38000	3628311.70000	5.47E-10	5.51E-10	5.73E-10	6.43E-10	6.02E-10	7.65E-10	1.07E-10	3.79E-09
493208.38000	3628507.56000	5.07E-10	5.22E-10	5.56E-10	6.28E-10	5.71E-10	7.26E-10	1.08E-10	3.62E-09
493221.21000	3625790.40000	2.15E-08	1.66E-09	1.47E-09	1.71E-09	2.27E-09	3.24E-09	1.43E-09	3.33E-08
493238.52000	3625791.04000	1.88E-08	1.62E-09	1.42E-09	1.67E-09	2.23E-09	3.21E-09	1.32E-09	3.03E-08
493240.44000	3625836.57000	1.65E-08	1.56E-09	1.36E-09	1.60E-09	2.17E-09	3.17E-09	1.21E-09	2.75E-08
493402.48000	3624590.36000	1.33E-09	4.68E-10	4.03E-10	4.93E-10	6.41E-10	9.00E-10	2.90E-10	4.53E-09
493402.48000	3624786.22000	1.61E-09	4.50E-10	3.95E-10	4.90E-10	6.43E-10	9.07E-10	3.43E-10	4.84E-09
493402.48000	3624982.08000	2.19E-09	5.62E-10	4.90E-10	6.03E-10	7.96E-10	1.13E-09	4.04E-10	6.17E-09
493402.48000	3625177.94000	3.12E-09	8.41E-10	7.24E-10	8.75E-10	1.15E-09	1.64E-09	4.88E-10	8.84E-09
493402.48000	3625373.80000	4.10E-09	1.29E-09	1.28E-09	1.52E-09	1.62E-09	2.25E-09	5.89E-10	1.26E-08
493402.48000	3625569.66000	6.88E-09	1.80E-09	1.76E-09	2.04E-09	2.23E-09	3.08E-09	8.31E-10	1.86E-08

Cancer Risk-Onsite

493402.48000	3625765.52000	8.17E-09	1.72E-09	1.42E-09	1.63E-09	2.24E-09	3.32E-09	9.52E-10	1.94E-08
493402.48000	3625961.38000	6.70E-09	1.63E-09	1.32E-09	1.67E-09	2.41E-09	3.65E-09	1.00E-09	1.84E-08
493402.48000	3626157.24000	5.98E-09	2.33E-09	1.80E-09	2.21E-09	3.33E-09	5.20E-09	1.32E-09	2.22E-08
493402.48000	3626353.10000	5.14E-09	3.82E-09	2.87E-09	3.19E-09	4.27E-09	5.81E-09	1.53E-09	2.66E-08
493402.48000	3626548.96000	4.02E-09	3.44E-09	2.81E-09	2.80E-09	3.52E-09	4.83E-09	9.80E-10	2.24E-08
493402.48000	3626744.82000	3.09E-09	3.50E-09	3.57E-09	3.56E-09	3.30E-09	4.25E-09	5.53E-10	2.18E-08
493402.48000	3626940.68000	2.27E-09	2.49E-09	2.38E-09	2.41E-09	2.39E-09	3.12E-09	3.47E-10	1.54E-08
493402.48000	3627136.54000	1.73E-09	1.95E-09	1.91E-09	1.97E-09	1.90E-09	2.42E-09	2.45E-10	1.21E-08
493402.48000	3627332.40000	1.41E-09	1.05E-09	7.88E-10	8.78E-10	1.19E-09	1.67E-09	2.31E-10	7.22E-09
493402.48000	3627528.26000	1.22E-09	9.79E-10	7.51E-10	8.26E-10	1.09E-09	1.50E-09	2.00E-10	6.58E-09
493402.48000	3627724.12000	9.07E-10	9.97E-10	1.06E-09	1.16E-09	1.04E-09	1.31E-09	1.59E-10	6.63E-09
493402.48000	3627919.98000	8.10E-10	6.19E-10	5.06E-10	5.71E-10	7.15E-10	9.70E-10	1.39E-10	4.33E-09
493402.48000	3628115.84000	7.32E-10	7.92E-10	8.18E-10	8.76E-10	8.39E-10	1.06E-09	1.24E-10	5.24E-09
493402.48000	3628311.70000	5.82E-10	6.09E-10	6.47E-10	7.23E-10	6.53E-10	8.26E-10	1.07E-10	4.15E-09
493402.48000	3628507.56000	5.03E-10	5.15E-10	5.46E-10	6.13E-10	5.59E-10	7.09E-10	9.44E-11	3.54E-09
493596.58000	3624590.36000	1.32E-09	5.63E-10	5.03E-10	6.10E-10	7.51E-10	1.05E-09	2.98E-10	5.10E-09
493596.58000	3624786.22000	1.55E-09	4.37E-10	3.90E-10	4.80E-10	6.25E-10	8.87E-10	3.54E-10	4.73E-09
493596.58000	3624982.08000	2.05E-09	5.14E-10	4.60E-10	5.73E-10	7.56E-10	1.08E-09	4.22E-10	5.85E-09
493596.58000	3625177.94000	2.90E-09	9.49E-10	8.34E-10	9.99E-10	1.28E-09	1.82E-09	5.09E-10	9.29E-09
493596.58000	3625373.80000	3.65E-09	1.36E-09	1.32E-09	1.54E-09	1.70E-09	2.35E-09	6.09E-10	1.25E-08
493596.58000	3625569.66000	5.15E-09	9.80E-10	8.51E-10	9.97E-10	1.34E-09	1.93E-09	7.49E-10	1.20E-08
493596.58000	3625765.52000	4.82E-09	1.18E-09	9.91E-10	1.23E-09	1.71E-09	2.51E-09	7.91E-10	1.32E-08
493596.58000	3625961.38000	4.42E-09	1.54E-09	1.24E-09	1.49E-09	2.13E-09	3.25E-09	9.06E-10	1.50E-08
493596.58000	3626157.24000	4.60E-09	3.18E-09	2.53E-09	2.92E-09	3.76E-09	5.31E-09	1.13E-09	2.34E-08
493596.58000	3626353.10000	3.64E-09	2.90E-09	2.38E-09	2.51E-09	3.09E-09	4.11E-09	9.80E-10	1.96E-08
493596.58000	3626548.96000	2.76E-09	2.68E-09	2.71E-09	2.80E-09	2.70E-09	3.58E-09	6.18E-10	1.78E-08
493596.58000	3626744.82000	2.15E-09	2.06E-09	1.97E-09	2.04E-09	2.05E-09	2.72E-09	3.64E-10	1.34E-08
493596.58000	3626940.68000	1.86E-09	1.95E-09	2.00E-09	2.08E-09	1.92E-09	2.49E-09	2.81E-10	1.26E-08
493596.58000	3627136.54000	1.77E-09	1.81E-09	1.19E-09	1.39E-09	1.87E-09	2.45E-09	2.38E-10	1.07E-08
493596.58000	3627332.40000	9.80E-10	5.52E-10	4.27E-10	4.96E-10	6.79E-10	9.54E-10	1.97E-10	4.28E-09
493596.58000	3627528.26000	1.17E-09	1.28E-09	1.11E-09	1.14E-09	1.31E-09	1.68E-09	1.66E-10	7.85E-09
493596.58000	3627724.12000	8.45E-10	5.86E-10	4.54E-10	5.10E-10	6.77E-10	9.48E-10	1.51E-10	4.17E-09
493596.58000	3627919.98000	8.00E-10	6.11E-10	4.97E-10	5.52E-10	6.97E-10	1.10E-09	1.37E-10	4.39E-09
493596.58000	3628115.84000	7.10E-10	7.36E-10	6.79E-10	7.13E-10	7.86E-10	1.00E-09	1.16E-10	4.74E-09
493596.58000	3628311.70000	6.05E-10	6.23E-10	6.24E-10	6.68E-10	6.68E-10	8.47E-10	9.76E-11	4.13E-09
493596.58000	3628507.56000	5.15E-10	5.25E-10	5.45E-10	6.08E-10	5.66E-10	7.17E-10	8.85E-11	3.56E-09
493790.68000	3624590.36000	1.31E-09	5.72E-10	5.18E-10	6.35E-10	7.77E-10	1.09E-09	3.16E-10	5.21E-09
493790.68000	3624786.22000	1.55E-09	5.06E-10	4.55E-10	5.62E-10	7.33E-10	1.04E-09	3.75E-10	5.22E-09
493790.68000	3624982.08000	1.93E-09	5.61E-10	5.09E-10	6.01E-10	7.88E-10	1.11E-09	4.34E-10	5.93E-09
493790.68000	3625177.94000	2.51E-09	6.49E-10	5.78E-10	6.73E-10	8.79E-10	1.24E-09	4.89E-10	7.01E-09
493790.68000	3625373.80000	3.24E-09	1.14E-09	9.99E-10	1.16E-09	1.48E-09	2.10E-09	5.83E-10	1.07E-08
493790.68000	3625569.66000	3.40E-09	8.41E-10	7.36E-10	9.05E-10	1.23E-09	1.75E-09	6.43E-10	9.51E-09
493790.68000	3625765.52000	3.17E-09	9.83E-10	8.37E-10	1.00E-09	1.37E-09	2.00E-09	7.14E-10	1.01E-08
493790.68000	3625961.38000	3.47E-09	2.05E-09	1.67E-09	1.99E-09	2.62E-09	3.77E-09	8.18E-10	1.64E-08
493790.68000	3626157.24000	3.22E-09	2.57E-09	2.26E-09	2.44E-09	2.86E-09	3.88E-09	9.07E-10	1.81E-08
493790.68000	3626353.10000	2.63E-09	2.03E-09	1.75E-09	1.84E-09	2.19E-09	2.95E-09	6.82E-10	1.41E-08
493790.68000	3626548.96000	2.32E-09	2.20E-09	2.04E-09	2.08E-09	2.28E-09	3.05E-09	4.83E-10	1.45E-08
493790.68000	3626744.82000	1.66E-09	1.49E-09	1.46E-09	1.55E-09	1.54E-09	2.04E-09	2.89E-10	1.00E-08
493790.68000	3626940.68000	1.70E-09	1.65E-09	1.37E-09	1.42E-09	1.69E-09	2.24E-09	2.36E-10	1.03E-08
493790.68000	3627136.54000	9.16E-10	3.82E-10	3.14E-10	3.69E-10	4.93E-10	7.04E-10	2.03E-10	3.38E-09
493790.68000	3627332.40000	7.13E-10	2.71E-10	2.36E-10	2.80E-10	3.65E-10	5.06E-10	1.77E-10	2.55E-09
493790.68000	3627528.26000	6.93E-10	3.31E-10	2.67E-10	3.15E-10	4.21E-10	5.93E-10	1.48E-10	2.77E-09

Cancer Risk-Onsite

493790.68000	3627724.12000	5.19E-10	1.88E-10	1.65E-10	1.99E-10	2.57E-10	3.64E-10	1.37E-10	1.83E-09
493790.68000	3627919.98000	5.06E-10	2.24E-10	1.80E-10	2.14E-10	2.89E-10	4.17E-10	1.22E-10	1.95E-09
493790.68000	3628115.84000	4.84E-10	2.62E-10	2.09E-10	2.43E-10	3.27E-10	4.63E-10	1.15E-10	2.10E-09
493790.68000	3628311.70000	5.09E-10	3.47E-10	2.89E-10	3.28E-10	4.11E-10	5.64E-10	9.95E-11	2.55E-09
493790.68000	3628507.56000	5.25E-10	3.85E-10	3.28E-10	3.73E-10	5.00E-10	6.98E-10	8.40E-11	2.89E-09
493984.78000	3624590.36000	1.20E-09	4.53E-10	4.12E-10	4.97E-10	6.42E-10	8.96E-10	3.24E-10	4.43E-09
493984.78000	3624786.22000	1.44E-09	5.03E-10	4.55E-10	5.33E-10	6.88E-10	9.59E-10	3.68E-10	4.95E-09
493984.78000	3624982.08000	1.73E-09	5.14E-10	4.63E-10	5.41E-10	7.02E-10	9.83E-10	4.00E-10	5.33E-09
493984.78000	3625177.94000	2.11E-09	5.55E-10	5.04E-10	6.04E-10	7.98E-10	1.13E-09	4.72E-10	6.18E-09
493984.78000	3625373.80000	2.48E-09	7.09E-10	6.28E-10	7.65E-10	1.02E-09	1.44E-09	5.37E-10	7.58E-09
493984.78000	3625569.66000	2.49E-09	8.40E-10	7.20E-10	8.56E-10	1.14E-09	1.64E-09	5.81E-10	8.28E-09
493984.78000	3625765.52000	2.44E-09	9.40E-10	7.95E-10	9.74E-10	1.35E-09	1.99E-09	6.52E-10	9.14E-09
493984.78000	3625961.38000	2.45E-09	1.33E-09	1.10E-09	1.31E-09	1.71E-09	2.39E-09	7.29E-10	1.10E-08
493984.78000	3626157.24000	2.22E-09	1.49E-09	1.27E-09	1.41E-09	1.75E-09	2.35E-09	6.81E-10	1.12E-08
493984.78000	3626353.10000	1.99E-09	1.49E-09	1.32E-09	1.40E-09	1.64E-09	2.25E-09	5.05E-10	1.06E-08
493984.78000	3626548.96000	1.72E-09	1.59E-09	1.57E-09	1.67E-09	1.68E-09	2.22E-09	3.82E-10	1.08E-08
493984.78000	3626744.82000	1.33E-09	1.15E-09	1.14E-09	1.23E-09	1.21E-09	1.61E-09	2.45E-10	7.92E-09
493984.78000	3626940.68000	1.21E-09	1.13E-09	1.16E-09	1.25E-09	1.17E-09	1.53E-09	1.90E-10	7.65E-09
493984.78000	3627136.54000	8.07E-10	3.27E-10	2.72E-10	3.19E-10	4.22E-10	5.99E-10	1.72E-10	2.92E-09
493984.78000	3627332.40000	4.29E-10	1.66E-10	1.60E-10	1.90E-10	2.37E-10	3.24E-10	1.64E-10	1.67E-09
493984.78000	3627528.26000	3.31E-10	1.33E-10	1.33E-10	1.60E-10	1.96E-10	2.63E-10	1.44E-10	1.36E-09
493984.78000	3627724.12000	1.18E-10	7.12E-11	8.01E-11	9.65E-11	1.13E-10	1.50E-10	1.12E-10	7.41E-10
493984.78000	3627919.98000	7.69E-11	5.33E-11	6.07E-11	7.35E-11	8.62E-11	1.16E-10	9.02E-11	5.57E-10
493984.78000	3628115.84000	1.65E-10	7.36E-11	7.59E-11	9.13E-11	1.13E-10	1.57E-10	1.03E-10	7.79E-10
493984.78000	3628311.70000	1.68E-10	7.65E-11	7.69E-11	9.19E-11	1.16E-10	1.60E-10	1.03E-10	7.93E-10
493984.78000	3628507.56000	3.04E-10	1.21E-10	1.06E-10	1.27E-10	1.67E-10	2.34E-10	9.42E-11	1.15E-09
494178.88000	3624590.36000	1.10E-09	4.18E-10	3.79E-10	4.47E-10	5.71E-10	7.91E-10	3.09E-10	4.02E-09
494178.88000	3624786.22000	1.30E-09	4.43E-10	4.01E-10	4.71E-10	6.07E-10	8.46E-10	3.40E-10	4.41E-09
494178.88000	3624982.08000	1.58E-09	5.02E-10	4.53E-10	5.47E-10	7.19E-10	1.02E-09	3.87E-10	5.20E-09
494178.88000	3625177.94000	1.83E-09	5.85E-10	5.24E-10	6.36E-10	8.35E-10	1.17E-09	4.52E-10	6.04E-09
494178.88000	3625373.80000	1.97E-09	7.09E-10	6.19E-10	7.33E-10	9.61E-10	1.35E-09	5.00E-10	6.84E-09
494178.88000	3625569.66000	1.96E-09	7.78E-10	6.68E-10	8.05E-10	1.09E-09	1.59E-09	5.26E-10	7.41E-09
494178.88000	3625765.52000	2.04E-09	1.05E-09	8.79E-10	1.07E-09	1.42E-09	2.01E-09	6.07E-10	9.06E-09
494178.88000	3625961.38000	1.87E-09	1.10E-09	9.56E-10	1.09E-09	1.38E-09	1.90E-09	6.31E-10	8.94E-09
494178.88000	3626157.24000	1.64E-09	1.04E-09	9.12E-10	1.01E-09	1.25E-09	1.66E-09	5.26E-10	8.04E-09
494178.88000	3626353.10000	1.45E-09	1.26E-09	1.29E-09	1.40E-09	1.38E-09	1.82E-09	3.85E-10	8.98E-09
494178.88000	3626548.96000	1.24E-09	1.03E-09	1.04E-09	1.14E-09	1.13E-09	1.50E-09	2.94E-10	7.38E-09
494178.88000	3626744.82000	1.11E-09	9.54E-10	9.67E-10	1.06E-09	1.02E-09	1.35E-09	2.15E-10	6.67E-09
494178.88000	3626940.68000	1.17E-09	7.92E-10	6.62E-10	7.28E-10	8.89E-10	1.41E-09	1.72E-10	5.82E-09
494178.88000	3627136.54000	8.54E-10	5.03E-10	4.05E-10	4.58E-10	5.92E-10	8.31E-10	1.43E-10	3.79E-09
494178.88000	3627332.40000	5.15E-10	1.70E-10	1.55E-10	1.85E-10	2.35E-10	3.29E-10	1.37E-10	1.73E-09
494178.88000	3627528.26000	1.12E-10	7.40E-11	8.17E-11	9.78E-11	1.17E-10	1.55E-10	1.13E-10	7.50E-10
494178.88000	3627724.12000	4.00E-11	4.04E-11	4.66E-11	5.76E-11	6.76E-11	8.84E-11	6.88E-11	4.09E-10
494178.88000	3627919.98000	2.64E-11	2.98E-11	3.54E-11	4.37E-11	5.03E-11	6.55E-11	5.30E-11	3.04E-10
494178.88000	3628115.84000	2.52E-11	2.61E-11	3.14E-11	3.92E-11	4.48E-11	5.99E-11	4.81E-11	2.75E-10
494178.88000	3628311.70000	2.32E-11	2.31E-11	2.76E-11	3.45E-11	4.00E-11	5.25E-11	4.28E-11	2.44E-10
494178.88000	3628507.56000	3.12E-11	2.70E-11	3.07E-11	3.78E-11	4.49E-11	5.96E-11	4.81E-11	2.79E-10
494372.98000	3624590.36000	1.07E-09	4.41E-10	4.00E-10	4.71E-10	5.94E-10	8.24E-10	2.91E-10	4.09E-09
494372.98000	3624786.22000	1.22E-09	4.35E-10	3.96E-10	4.80E-10	6.25E-10	8.81E-10	3.32E-10	4.36E-09
494372.98000	3624982.08000	1.48E-09	5.95E-10	5.32E-10	6.40E-10	8.19E-10	1.14E-09	3.86E-10	5.59E-09
494372.98000	3625177.94000	1.57E-09	6.10E-10	5.41E-10	6.39E-10	8.26E-10	1.15E-09	4.27E-10	5.76E-09
494372.98000	3625373.80000	1.61E-09	6.67E-10	5.84E-10	6.92E-10	9.12E-10	1.31E-09	4.52E-10	6.22E-09

Cancer Risk-Onsite

494372.98000	3625569.66000	1.66E-09	8.05E-10	6.89E-10	8.38E-10	1.12E-09	1.60E-09	5.00E-10	7.22E-09
494372.98000	3625765.52000	1.68E-09	1.07E-09	9.27E-10	1.07E-09	1.32E-09	1.82E-09	5.42E-10	8.42E-09
494372.98000	3625961.38000	1.56E-09	1.26E-09	1.23E-09	1.35E-09	1.46E-09	1.94E-09	5.20E-10	9.31E-09
494372.98000	3626157.24000	1.38E-09	9.88E-10	8.88E-10	9.75E-10	1.15E-09	1.53E-09	4.12E-10	7.31E-09
494372.98000	3626353.10000	1.22E-09	8.39E-10	7.53E-10	8.22E-10	9.76E-10	1.35E-09	3.27E-10	6.29E-09
494372.98000	3626548.96000	1.02E-09	8.55E-10	8.71E-10	9.65E-10	9.51E-10	1.25E-09	2.51E-10	6.17E-09
494372.98000	3626744.82000	9.64E-10	8.42E-10	8.58E-10	9.43E-10	9.11E-10	1.20E-09	1.95E-10	5.91E-09
494372.98000	3626940.68000	9.00E-10	5.70E-10	4.82E-10	5.36E-10	6.53E-10	9.02E-10	1.52E-10	4.19E-09
494372.98000	3627136.54000	6.55E-10	2.94E-10	2.45E-10	2.85E-10	3.70E-10	5.19E-10	1.33E-10	2.50E-09
494372.98000	3627332.40000	5.11E-10	1.73E-10	1.53E-10	1.82E-10	2.35E-10	3.29E-10	1.19E-10	1.70E-09
494372.98000	3627528.26000	1.03E-10	6.70E-11	7.31E-11	8.72E-11	1.04E-10	1.40E-10	1.00E-10	6.74E-10
494372.98000	3627724.12000	3.12E-11	3.27E-11	3.85E-11	4.77E-11	5.61E-11	7.37E-11	5.91E-11	3.39E-10
494372.98000	3627919.98000	2.48E-11	2.72E-11	3.16E-11	3.90E-11	4.57E-11	6.03E-11	4.81E-11	2.77E-10
494372.98000	3628115.84000	2.09E-11	2.30E-11	2.74E-11	3.39E-11	3.89E-11	5.10E-11	4.20E-11	2.37E-10
494372.98000	3628311.70000	1.90E-11	2.02E-11	2.43E-11	3.03E-11	3.46E-11	4.61E-11	3.81E-11	2.13E-10
494372.98000	3628507.56000	1.88E-11	1.87E-11	2.22E-11	2.80E-11	3.23E-11	4.26E-11	3.44E-11	1.97E-10
494567.08000	3624590.36000	9.96E-10	5.50E-10	5.46E-10	6.40E-10	6.99E-10	9.50E-10	2.86E-10	4.67E-09
494567.08000	3624786.22000	1.20E-09	6.03E-10	5.59E-10	6.63E-10	7.98E-10	1.09E-09	3.31E-10	5.25E-09
494567.08000	3624982.08000	1.28E-09	5.52E-10	4.93E-10	5.80E-10	7.37E-10	1.02E-09	3.69E-10	5.04E-09
494567.08000	3625177.94000	1.34E-09	5.92E-10	5.24E-10	6.15E-10	7.92E-10	1.12E-09	3.94E-10	5.37E-09
494567.08000	3625373.80000	1.39E-09	6.73E-10	5.86E-10	7.08E-10	9.28E-10	1.33E-09	4.25E-10	6.04E-09
494567.08000	3625569.66000	1.46E-09	9.64E-10	8.60E-10	1.01E-09	1.21E-09	1.66E-09	4.65E-10	7.63E-09
494567.08000	3625765.52000	1.34E-09	8.57E-10	7.65E-10	8.72E-10	1.07E-09	1.46E-09	4.84E-10	6.85E-09
494567.08000	3625961.38000	1.19E-09	7.54E-10	6.75E-10	7.65E-10	9.32E-10	1.25E-09	4.24E-10	5.99E-09
494567.08000	3626157.24000	1.06E-09	6.65E-10	5.98E-10	6.69E-10	8.00E-10	1.08E-09	3.34E-10	5.21E-09
494567.08000	3626353.10000	1.08E-09	8.94E-10	8.29E-10	9.11E-10	1.01E-09	1.36E-09	2.81E-10	6.36E-09
494567.08000	3626548.96000	8.67E-10	7.31E-10	7.47E-10	8.33E-10	8.20E-10	1.08E-09	2.23E-10	5.30E-09
494567.08000	3626744.82000	9.03E-10	7.81E-10	7.48E-10	8.01E-10	8.54E-10	1.13E-09	1.83E-10	5.40E-09
494567.08000	3626940.68000	7.52E-10	4.65E-10	3.98E-10	4.46E-10	5.40E-10	7.43E-10	1.38E-10	3.48E-09
494567.08000	3627136.54000	5.53E-10	2.25E-10	1.93E-10	2.27E-10	2.92E-10	4.06E-10	1.23E-10	2.02E-09
494567.08000	3627332.40000	2.95E-10	1.15E-10	1.11E-10	1.33E-10	1.66E-10	2.29E-10	1.13E-10	1.16E-09
494567.08000	3627528.26000	1.22E-10	6.71E-11	7.23E-11	8.66E-11	1.03E-10	1.39E-10	9.38E-11	6.85E-10
494567.08000	3627724.12000	4.23E-11	3.74E-11	4.33E-11	5.27E-11	6.17E-11	8.07E-11	6.38E-11	3.82E-10
494567.08000	3627919.98000	2.43E-11	2.53E-11	2.94E-11	3.68E-11	4.36E-11	5.78E-11	4.55E-11	2.63E-10
494567.08000	3628115.84000	2.05E-11	2.20E-11	2.58E-11	3.18E-11	3.69E-11	4.89E-11	3.89E-11	2.25E-10
494567.08000	3628311.70000	1.90E-11	2.00E-11	2.36E-11	2.93E-11	3.36E-11	4.46E-11	3.61E-11	2.06E-10
494567.08000	3628507.56000	1.81E-11	1.83E-11	2.19E-11	2.73E-11	3.14E-11	4.15E-11	3.37E-11	1.92E-10
494761.18000	3624590.36000	9.74E-10	4.83E-10	4.43E-10	5.30E-10	6.50E-10	8.91E-10	2.87E-10	4.26E-09
494761.18000	3624786.22000	1.09E-09	5.95E-10	5.55E-10	6.43E-10	7.60E-10	1.04E-09	3.24E-10	5.01E-09
494761.18000	3624982.08000	1.16E-09	6.35E-10	5.84E-10	6.72E-10	8.06E-10	1.12E-09	3.39E-10	5.32E-09
494761.18000	3625177.94000	1.17E-09	5.76E-10	5.11E-10	6.11E-10	7.85E-10	1.11E-09	3.69E-10	5.14E-09
494761.18000	3625373.80000	1.20E-09	6.61E-10	5.82E-10	7.02E-10	9.02E-10	1.26E-09	4.12E-10	5.72E-09
494761.18000	3625569.66000	1.21E-09	8.96E-10	8.43E-10	9.53E-10	1.08E-09	1.46E-09	4.23E-10	6.86E-09
494761.18000	3625765.52000	1.14E-09	8.23E-10	7.61E-10	8.58E-10	1.00E-09	1.34E-09	4.08E-10	6.33E-09
494761.18000	3625961.38000	1.03E-09	8.63E-10	8.59E-10	9.57E-10	1.01E-09	1.33E-09	3.62E-10	6.41E-09
494761.18000	3626157.24000	9.21E-10	7.86E-10	7.95E-10	8.84E-10	8.97E-10	1.19E-09	2.78E-10	5.75E-09
494761.18000	3626353.10000	9.00E-10	6.52E-10	6.00E-10	6.65E-10	7.64E-10	1.05E-09	2.42E-10	4.87E-09
494761.18000	3626548.96000	7.46E-10	6.31E-10	6.47E-10	7.24E-10	7.14E-10	9.38E-10	1.98E-10	4.60E-09
494761.18000	3626744.82000	8.02E-10	6.13E-10	5.16E-10	5.84E-10	7.23E-10	9.78E-10	1.63E-10	4.38E-09
494761.18000	3626940.68000	6.04E-10	3.28E-10	2.82E-10	3.21E-10	3.96E-10	5.44E-10	1.28E-10	2.60E-09
494761.18000	3627136.54000	2.50E-10	1.02E-10	1.02E-10	1.23E-10	1.54E-10	2.11E-10	1.18E-10	1.06E-09
494761.18000	3627332.40000	4.71E-11	4.08E-11	4.56E-11	5.59E-11	6.76E-11	8.96E-11	6.74E-11	4.14E-10

Cancer Risk-Onsite

494761.18000	3627528.26000	3.34E-11	3.23E-11	3.71E-11	4.59E-11	5.35E-11	6.93E-11	5.21E-11	3.24E-10
494761.18000	3627724.12000	2.52E-11	2.61E-11	3.04E-11	3.73E-11	4.29E-11	5.59E-11	4.51E-11	2.63E-10
494761.18000	3627919.98000	2.24E-11	2.26E-11	2.72E-11	3.38E-11	3.96E-11	5.21E-11	4.30E-11	2.41E-10
494761.18000	3628115.84000	2.07E-11	2.11E-11	2.44E-11	3.05E-11	3.60E-11	4.85E-11	3.76E-11	2.19E-10
494761.18000	3628311.70000	2.04E-11	2.04E-11	2.37E-11	2.94E-11	3.41E-11	4.52E-11	3.53E-11	2.09E-10
494761.18000	3628507.56000	1.94E-11	1.87E-11	2.22E-11	2.75E-11	3.15E-11	4.16E-11	3.33E-11	1.94E-10
492402.89000	3626460.63000	8.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-09
492427.42000	3626474.80000	9.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-09
492431.78000	3626430.65000	9.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-09
492447.59000	3626418.66000	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-08
492450.86000	3626492.79000	8.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-09
492463.94000	3626507.51000	8.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-09
492466.12000	3626447.00000	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-08
492467.76000	3626523.32000	8.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-09
492477.02000	3626546.76000	8.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-09
492479.21000	3626464.45000	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-08
492479.21000	3626572.92000	7.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-09
492481.93000	3626620.35000	6.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-09
492482.48000	3626594.18000	7.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-09
492490.65000	3626485.70000	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-08
492491.20000	3626644.88000	6.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-09
492501.01000	3626506.42000	9.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-09
492512.46000	3626553.84000	9.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-09
492513.55000	3626533.13000	9.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-09
492517.36000	3626636.70000	7.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-09
492521.18000	3626603.45000	8.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-09
492521.72000	3626582.19000	8.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-09
492599.16000	3626405.39000	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-08
492606.85000	3626435.54000	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-08
492774.75000	3626728.05000	0.00E+00	9.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-08
493013.27000	3625844.49000	0.00E+00	3.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-09
492723.78000	3626582.16000	0.00E+00	7.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-08
492761.18000	3626553.82000	0.00E+00	5.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-08
492674.05000	3626738.96000	0.00E+00	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-08
492708.49000	3626698.47000	0.00E+00	7.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-08
492703.25000	3626652.75000	0.00E+00	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-07
492731.11000	3626741.92000	0.00E+00	5.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-08
492743.19000	3626628.92000	0.00E+00	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-07
492723.78000	3626582.16000	0.00E+00	0.00E+00	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-08
492794.41000	3626665.12000	0.00E+00	0.00E+00	9.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-08
492761.18000	3626553.82000	0.00E+00	0.00E+00	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-08
493013.27000	3625844.49000	0.00E+00	0.00E+00	3.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-09
492798.96000	3626618.56000	0.00E+00	0.00E+00	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-08
492703.25000	3626652.75000	0.00E+00	0.00E+00	8.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-08
492743.19000	3626628.92000	0.00E+00	0.00E+00	5.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-08
492731.11000	3626741.92000	0.00E+00	0.00E+00	0.00E+00	8.28E-08	0.00E+00	0.00E+00	0.00E+00	8.28E-08
492774.75000	3626728.05000	0.00E+00	0.00E+00	0.00E+00	5.66E-08	0.00E+00	0.00E+00	0.00E+00	5.66E-08
493013.27000	3625844.49000	0.00E+00	0.00E+00	0.00E+00	3.63E-09	0.00E+00	0.00E+00	0.00E+00	3.63E-09
492791.92000	3626663.04000	0.00E+00	0.00E+00	0.00E+00	6.72E-08	0.00E+00	0.00E+00	0.00E+00	6.72E-08
493039.78000	3625834.45000	0.00E+00	0.00E+00	0.00E+00	4.75E-09	0.00E+00	0.00E+00	0.00E+00	4.75E-09
492731.11000	3626741.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-08	0.00E+00	0.00E+00	3.64E-08
493013.27000	3625844.49000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-09	0.00E+00	0.00E+00	4.28E-09

Cancer Risk-Onsite

492774.75000	3626728.05000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-08	0.00E+00	0.00E+00	3.77E-08
492674.05000	3626738.96000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-08	0.00E+00	0.00E+00	3.79E-08
492708.49000	3626698.47000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-08	0.00E+00	0.00E+00	7.18E-08
492791.92000	3626663.04000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-08	0.00E+00	0.00E+00	7.54E-08
493039.78000	3625834.45000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-09	0.00E+00	0.00E+00	5.45E-09
492791.92000	3626663.04000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-08	0.00E+00	6.05E-08
493013.27000	3625844.49000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-09	0.00E+00	5.28E-09
492708.49000	3626698.47000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-08	0.00E+00	4.43E-08
492703.25000	3626652.75000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-08	0.00E+00	7.69E-08
492731.11000	3626741.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-08	0.00E+00	2.87E-08
492774.75000	3626728.05000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-08	0.00E+00	3.10E-08
492674.05000	3626738.96000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-08	0.00E+00	2.88E-08
492743.19000	3626628.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-07	0.00E+00	1.21E-07
493039.78000	3625834.45000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-09	0.00E+00	6.50E-09
493013.27000	3625844.49000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-09	4.26E-09
492761.18000	3626553.82000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-08	1.13E-08
492791.92000	3626663.04000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-09	4.66E-09
492723.78000	3626582.16000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-08	1.06E-08
492708.49000	3626698.47000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-09	4.74E-09
492703.25000	3626652.75000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-09	5.53E-09
492731.11000	3626741.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-09	3.09E-09
492774.75000	3626728.05000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-09	2.83E-09
492674.05000	3626738.96000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-09	3.36E-09
492743.19000	3626628.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-09	6.96E-09
493039.78000	3625834.45000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-09	5.86E-09

Chronic Non-Cancer Health Risk-Offsite

X	Y	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Operation	Max HI
490879.18000	3624590.36000	2.56E-05	1.95E-05	1.97E-05	2.46E-05	2.48E-05	3.18E-05	7.29E-06	1.53E-04
490879.18000	3624786.22000	2.78E-05	2.31E-05	2.34E-05	2.93E-05	2.97E-05	3.79E-05	8.32E-06	1.80E-04
490879.18000	3624982.08000	2.72E-05	2.31E-05	2.28E-05	2.88E-05	3.02E-05	3.90E-05	8.32E-06	1.79E-04
490879.18000	3625177.94000	2.83E-05	2.72E-05	2.69E-05	3.42E-05	3.58E-05	4.62E-05	9.47E-06	2.08E-04
490879.18000	3625373.80000	2.85E-05	3.17E-05	3.17E-05	4.08E-05	4.20E-05	5.29E-05	1.08E-05	2.39E-04
490879.18000	3625569.66000	2.82E-05	3.41E-05	3.57E-05	4.64E-05	4.52E-05	5.50E-05	1.11E-05	2.56E-04
490879.18000	3625765.52000	2.64E-05	3.37E-05	3.60E-05	4.71E-05	4.44E-05	5.30E-05	1.04E-05	2.51E-04
490879.18000	3625961.38000	2.38E-05	3.17E-05	3.47E-05	4.55E-05	4.15E-05	4.84E-05	9.44E-06	2.35E-04
490879.18000	3626157.24000	2.18E-05	2.84E-05	3.12E-05	4.08E-05	3.66E-05	4.30E-05	7.92E-06	2.10E-04
490879.18000	3626353.10000	2.06E-05	2.63E-05	2.85E-05	3.72E-05	3.43E-05	4.05E-05	7.57E-06	1.95E-04
490879.18000	3626548.96000	1.89E-05	2.47E-05	2.71E-05	3.53E-05	3.18E-05	3.69E-05	7.03E-06	1.82E-04
490879.18000	3626744.82000	1.73E-05	2.14E-05	2.35E-05	3.04E-05	2.73E-05	3.20E-05	5.64E-06	1.57E-04
490879.18000	3626940.68000	1.60E-05	1.94E-05	2.08E-05	2.68E-05	2.49E-05	2.92E-05	4.56E-06	1.42E-04
490879.18000	3627136.54000	1.50E-05	1.83E-05	1.96E-05	2.53E-05	2.36E-05	2.75E-05	4.52E-06	1.34E-04
490879.18000	3627332.40000	1.40E-05	1.71E-05	1.82E-05	2.34E-05	2.17E-05	2.52E-05	3.89E-06	1.23E-04
490879.18000	3627528.26000	1.29E-05	1.58E-05	1.69E-05	2.15E-05	1.99E-05	2.30E-05	3.39E-06	1.13E-04
490879.18000	3627724.12000	1.20E-05	1.44E-05	1.53E-05	1.95E-05	1.78E-05	2.09E-05	2.76E-06	1.03E-04
490879.18000	3627919.98000	1.12E-05	1.33E-05	1.40E-05	1.77E-05	1.62E-05	1.92E-05	2.50E-06	9.41E-05
490879.18000	3628115.84000	1.04E-05	1.24E-05	1.31E-05	1.66E-05	1.53E-05	1.80E-05	2.60E-06	8.83E-05
490879.18000	3628311.70000	9.67E-06	1.15E-05	1.21E-05	1.54E-05	1.42E-05	1.69E-05	2.56E-06	8.24E-05
490879.18000	3628507.56000	8.95E-06	1.07E-05	1.12E-05	1.42E-05	1.30E-05	1.57E-05	2.40E-06	7.61E-05
491073.28000	3624590.36000	2.74E-05	1.95E-05	1.98E-05	2.47E-05	2.47E-05	3.15E-05	7.24E-06	1.55E-04
491073.28000	3624786.22000	2.86E-05	2.06E-05	2.07E-05	2.58E-05	2.64E-05	3.40E-05	7.88E-06	1.64E-04
491073.28000	3624982.08000	3.35E-05	2.84E-05	2.84E-05	3.56E-05	3.62E-05	4.66E-05	9.45E-06	2.18E-04
491073.28000	3625177.94000	3.60E-05	3.48E-05	3.47E-05	4.37E-05	4.48E-05	5.77E-05	1.10E-05	2.63E-04
491073.28000	3625373.80000	3.33E-05	3.44E-05	3.41E-05	4.36E-05	4.54E-05	5.87E-05	1.19E-05	2.61E-04
491073.28000	3625569.66000	3.37E-05	4.02E-05	4.11E-05	5.32E-05	5.33E-05	6.59E-05	1.30E-05	3.00E-04
491073.28000	3625765.52000	3.27E-05	4.32E-05	4.68E-05	6.13E-05	5.69E-05	6.79E-05	1.34E-05	3.22E-04
491073.28000	3625961.38000	2.86E-05	3.90E-05	4.23E-05	5.56E-05	5.09E-05	5.96E-05	1.08E-05	2.87E-04
491073.28000	3626157.24000	2.60E-05	3.51E-05	3.90E-05	5.13E-05	4.56E-05	5.30E-05	9.58E-06	2.60E-04
491073.28000	3626353.10000	2.56E-05	3.50E-05	3.97E-05	5.21E-05	4.52E-05	5.29E-05	9.92E-06	2.60E-04
491073.28000	3626548.96000	2.23E-05	3.01E-05	3.36E-05	4.39E-05	3.87E-05	4.46E-05	8.12E-06	2.21E-04
491073.28000	3626744.82000	2.03E-05	2.63E-05	2.95E-05	3.82E-05	3.33E-05	3.89E-05	6.70E-06	1.93E-04
491073.28000	3626940.68000	1.84E-05	2.28E-05	2.46E-05	3.18E-05	2.93E-05	3.43E-05	5.12E-06	1.66E-04
491073.28000	3627136.54000	1.71E-05	2.13E-05	2.29E-05	2.97E-05	2.75E-05	3.16E-05	4.95E-06	1.55E-04
491073.28000	3627332.40000	1.58E-05	1.98E-05	2.11E-05	2.72E-05	2.49E-05	2.88E-05	4.21E-06	1.42E-04
491073.28000	3627528.26000	1.45E-05	1.80E-05	1.93E-05	2.46E-05	2.24E-05	2.60E-05	3.46E-06	1.28E-04
491073.28000	3627724.12000	1.34E-05	1.63E-05	1.73E-05	2.20E-05	1.99E-05	2.33E-05	2.87E-06	1.15E-04
491073.28000	3627919.98000	1.23E-05	1.50E-05	1.59E-05	2.02E-05	1.84E-05	2.16E-05	2.91E-06	1.06E-04
491073.28000	3628115.84000	1.14E-05	1.38E-05	1.47E-05	1.86E-05	1.71E-05	2.01E-05	2.92E-06	9.86E-05
491073.28000	3628311.70000	1.05E-05	1.28E-05	1.35E-05	1.70E-05	1.55E-05	1.86E-05	2.75E-06	9.05E-05
491073.28000	3628507.56000	9.56E-06	1.16E-05	1.23E-05	1.54E-05	1.40E-05	1.68E-05	2.36E-06	8.19E-05
491267.38000	3624590.36000	2.80E-05	1.85E-05	1.87E-05	2.34E-05	2.31E-05	2.94E-05	6.68E-06	1.48E-04
491267.38000	3624786.22000	3.41E-05	2.38E-05	2.38E-05	2.97E-05	2.99E-05	3.85E-05	8.17E-06	1.88E-04
491267.38000	3624982.08000	3.60E-05	2.72E-05	2.72E-05	3.40E-05	3.44E-05	4.45E-05	9.24E-06	2.12E-04
491267.38000	3625177.94000	3.94E-05	3.42E-05	3.39E-05	4.25E-05	4.34E-05	5.65E-05	1.08E-05	2.61E-04
491267.38000	3625373.80000	3.77E-05	3.47E-05	3.37E-05	4.29E-05	4.57E-05	5.97E-05	1.09E-05	2.65E-04
491267.38000	3625569.66000	4.46E-05	5.26E-05	5.27E-05	6.75E-05	6.85E-05	8.70E-05	1.48E-05	3.88E-04
491267.38000	3625765.52000	3.87E-05	4.89E-05	5.04E-05	6.58E-05	6.49E-05	7.92E-05	1.42E-05	3.62E-04
491267.38000	3625961.38000	3.52E-05	4.84E-05	5.21E-05	6.89E-05	6.36E-05	7.50E-05	1.29E-05	3.56E-04
491267.38000	3626157.24000	3.57E-05	5.47E-05	6.31E-05	8.32E-05	6.99E-05	7.91E-05	1.35E-05	3.99E-04
491267.38000	3626353.10000	3.07E-05	4.33E-05	5.00E-05	6.60E-05	5.57E-05	6.47E-05	1.15E-05	3.22E-04

Chronic Non-Cancer Health Risk-Offsite

491267.38000	3626548.96000	2.60E-05	3.55E-05	3.91E-05	5.14E-05	4.56E-05	5.22E-05	8.57E-06	2.58E-04
491267.38000	3626744.82000	2.34E-05	3.05E-05	3.38E-05	4.40E-05	3.87E-05	4.50E-05	7.20E-06	2.23E-04
491267.38000	3626940.68000	2.14E-05	2.73E-05	2.96E-05	3.86E-05	3.52E-05	4.08E-05	5.88E-06	1.99E-04
491267.38000	3627136.54000	1.97E-05	2.53E-05	2.74E-05	3.55E-05	3.24E-05	3.70E-05	5.32E-06	1.83E-04
491267.38000	3627332.40000	1.80E-05	2.31E-05	2.49E-05	3.21E-05	2.89E-05	3.32E-05	4.52E-06	1.65E-04
491267.38000	3627528.26000	1.64E-05	2.06E-05	2.21E-05	2.83E-05	2.54E-05	2.95E-05	3.54E-06	1.46E-04
491267.38000	3627724.12000	1.49E-05	1.87E-05	1.99E-05	2.54E-05	2.28E-05	2.67E-05	3.36E-06	1.32E-04
491267.38000	3627919.98000	1.36E-05	1.71E-05	1.82E-05	2.32E-05	2.10E-05	2.46E-05	3.36E-06	1.21E-04
491267.38000	3628115.84000	1.24E-05	1.55E-05	1.65E-05	2.09E-05	1.89E-05	2.25E-05	3.20E-06	1.10E-04
491267.38000	3628311.70000	1.12E-05	1.40E-05	1.49E-05	1.86E-05	1.67E-05	2.00E-05	2.69E-06	9.82E-05
491267.38000	3628507.56000	1.02E-05	1.25E-05	1.32E-05	1.65E-05	1.48E-05	1.78E-05	2.45E-06	8.75E-05
491461.48000	3624590.36000	2.97E-05	1.97E-05	1.99E-05	2.47E-05	2.46E-05	3.12E-05	6.48E-06	1.56E-04
491461.48000	3624786.22000	3.70E-05	2.43E-05	2.42E-05	3.00E-05	3.03E-05	3.86E-05	7.78E-06	1.92E-04
491461.48000	3624982.08000	4.21E-05	2.88E-05	2.85E-05	3.55E-05	3.61E-05	4.66E-05	9.03E-06	2.27E-04
491461.48000	3625177.94000	4.14E-05	2.95E-05	2.91E-05	3.66E-05	3.76E-05	4.94E-05	1.01E-05	2.34E-04
491461.48000	3625373.80000	4.97E-05	4.51E-05	4.34E-05	5.45E-05	5.74E-05	7.59E-05	1.26E-05	3.39E-04
491461.48000	3625569.66000	5.38E-05	5.74E-05	5.54E-05	7.02E-05	7.43E-05	9.73E-05	1.50E-05	4.23E-04
491461.48000	3625765.52000	4.74E-05	5.56E-05	5.41E-05	7.02E-05	7.36E-05	9.32E-05	1.46E-05	4.09E-04
491461.48000	3625961.38000	4.44E-05	6.12E-05	6.47E-05	8.57E-05	8.14E-05	9.70E-05	1.64E-05	4.51E-04
491461.48000	3626157.24000	4.60E-05	7.36E-05	8.36E-05	1.11E-04	9.43E-05	1.06E-04	1.68E-05	5.31E-04
491461.48000	3626353.10000	3.60E-05	5.11E-05	5.86E-05	7.81E-05	6.65E-05	7.68E-05	1.32E-05	3.80E-04
491461.48000	3626548.96000	3.31E-05	4.92E-05	5.69E-05	7.54E-05	6.25E-05	7.05E-05	1.12E-05	3.59E-04
491461.48000	3626744.82000	2.79E-05	3.77E-05	4.23E-05	5.53E-05	4.79E-05	5.53E-05	8.32E-06	2.75E-04
491461.48000	3626940.68000	2.54E-05	3.36E-05	3.66E-05	4.80E-05	4.32E-05	4.96E-05	6.85E-06	2.43E-04
491461.48000	3627136.54000	2.30E-05	3.05E-05	3.32E-05	4.33E-05	3.86E-05	4.40E-05	5.83E-06	2.19E-04
491461.48000	3627332.40000	2.07E-05	2.72E-05	2.96E-05	3.81E-05	3.38E-05	3.88E-05	4.70E-06	1.93E-04
491461.48000	3627528.26000	1.86E-05	2.42E-05	2.61E-05	3.34E-05	2.96E-05	3.44E-05	4.17E-06	1.70E-04
491461.48000	3627724.12000	1.68E-05	2.17E-05	2.33E-05	2.98E-05	2.67E-05	3.10E-05	4.02E-06	1.53E-04
491461.48000	3627919.98000	1.50E-05	1.95E-05	2.08E-05	2.64E-05	2.36E-05	2.78E-05	3.76E-06	1.37E-04
491461.48000	3628115.84000	1.34E-05	1.73E-05	1.84E-05	2.31E-05	2.05E-05	2.44E-05	3.19E-06	1.20E-04
491461.48000	3628311.70000	1.20E-05	1.52E-05	1.62E-05	2.01E-05	1.80E-05	2.15E-05	2.93E-06	1.06E-04
491461.48000	3628507.56000	1.08E-05	1.35E-05	1.43E-05	1.78E-05	1.60E-05	1.91E-05	2.78E-06	9.43E-05
491655.58000	3624590.36000	3.04E-05	2.01E-05	2.01E-05	2.50E-05	2.50E-05	3.19E-05	6.49E-06	1.59E-04
491655.58000	3624786.22000	3.87E-05	2.42E-05	2.39E-05	2.96E-05	3.01E-05	3.85E-05	7.54E-06	1.93E-04
491655.58000	3624982.08000	4.71E-05	2.92E-05	2.87E-05	3.55E-05	3.62E-05	4.66E-05	8.82E-06	2.32E-04
491655.58000	3625177.94000	5.36E-05	3.61E-05	3.49E-05	4.38E-05	4.51E-05	5.92E-05	1.05E-05	2.83E-04
491655.58000	3625373.80000	5.78E-05	4.54E-05	4.31E-05	5.45E-05	5.74E-05	7.69E-05	1.24E-05	3.47E-04
491655.58000	3625569.66000	5.47E-05	4.88E-05	4.75E-05	6.02E-05	6.28E-05	8.42E-05	1.39E-05	3.72E-04
491655.58000	3625765.52000	5.79E-05	6.01E-05	5.64E-05	7.27E-05	7.95E-05	1.06E-04	1.54E-05	4.48E-04
491655.58000	3625961.38000	6.79E-05	9.82E-05	9.81E-05	1.29E-04	1.29E-04	1.57E-04	2.12E-05	7.00E-04
491655.58000	3626157.24000	6.12E-05	1.01E-04	1.11E-04	1.50E-04	1.31E-04	1.48E-04	2.13E-05	7.23E-04
491655.58000	3626353.10000	5.33E-05	8.72E-05	1.02E-04	1.37E-04	1.11E-04	1.24E-04	1.76E-05	6.33E-04
491655.58000	3626548.96000	3.92E-05	5.85E-05	6.65E-05	8.93E-05	7.58E-05	8.49E-05	1.28E-05	4.27E-04
491655.58000	3626744.82000	3.40E-05	4.79E-05	5.44E-05	7.18E-05	6.09E-05	6.96E-05	9.09E-06	3.48E-04
491655.58000	3626940.68000	3.06E-05	4.24E-05	4.68E-05	6.19E-05	5.45E-05	6.16E-05	7.87E-06	3.06E-04
491655.58000	3627136.54000	2.71E-05	3.77E-05	4.14E-05	5.41E-05	4.71E-05	5.30E-05	6.17E-06	2.67E-04
491655.58000	3627332.40000	2.40E-05	3.26E-05	3.57E-05	4.61E-05	4.00E-05	4.58E-05	4.91E-06	2.29E-04
491655.58000	3627528.26000	2.13E-05	2.88E-05	3.13E-05	4.03E-05	3.54E-05	4.07E-05	4.94E-06	2.03E-04
491655.58000	3627724.12000	1.88E-05	2.55E-05	2.76E-05	3.51E-05	3.08E-05	3.60E-05	4.74E-06	1.79E-04
491655.58000	3627919.98000	1.65E-05	2.21E-05	2.38E-05	3.00E-05	2.62E-05	3.09E-05	3.94E-06	1.54E-04
491655.58000	3628115.84000	1.45E-05	1.91E-05	2.04E-05	2.55E-05	2.25E-05	2.67E-05	3.64E-06	1.32E-04
491655.58000	3628311.70000	1.29E-05	1.66E-05	1.77E-05	2.20E-05	1.96E-05	2.33E-05	3.31E-06	1.15E-04
491655.58000	3628507.56000	1.15E-05	1.45E-05	1.54E-05	1.91E-05	1.71E-05	2.05E-05	3.00E-06	1.01E-04

Chronic Non-Cancer Health Risk-Offsite

491849.68000	3624590.36000	3.04E-05	2.03E-05	2.04E-05	2.56E-05	2.55E-05	3.24E-05	6.43E-06	1.61E-04
491849.68000	3624786.22000	3.94E-05	2.42E-05	2.39E-05	2.99E-05	3.02E-05	3.87E-05	7.51E-06	1.94E-04
491849.68000	3624982.08000	5.12E-05	2.93E-05	2.85E-05	3.55E-05	3.64E-05	4.70E-05	8.79E-06	2.37E-04
491849.68000	3625177.94000	6.15E-05	3.61E-05	3.47E-05	4.32E-05	4.48E-05	5.83E-05	1.02E-05	2.89E-04
491849.68000	3625373.80000	6.67E-05	4.51E-05	4.29E-05	5.40E-05	5.63E-05	7.45E-05	1.19E-05	3.51E-04
491849.68000	3625569.66000	6.39E-05	5.02E-05	4.90E-05	6.19E-05	6.33E-05	8.55E-05	1.36E-05	3.87E-04
491849.68000	3625765.52000	6.88E-05	6.12E-05	5.61E-05	7.18E-05	8.00E-05	1.11E-04	1.51E-05	4.64E-04
491849.68000	3625961.38000	8.57E-05	1.10E-04	1.04E-04	1.34E-04	1.45E-04	1.89E-04	2.28E-05	7.90E-04
491849.68000	3626157.24000	7.74E-05	1.27E-04	1.37E-04	1.83E-04	1.67E-04	1.91E-04	2.56E-05	9.08E-04
491849.68000	3626353.10000	5.99E-05	9.67E-05	1.12E-04	1.55E-04	1.27E-04	1.40E-04	1.97E-05	7.11E-04
491849.68000	3626548.96000	5.02E-05	7.97E-05	9.23E-05	1.26E-04	1.04E-04	1.14E-04	1.54E-05	5.82E-04
491849.68000	3626744.82000	4.38E-05	6.63E-05	7.86E-05	1.05E-04	8.49E-05	9.58E-05	1.30E-05	4.88E-04
491849.68000	3626940.68000	3.78E-05	5.55E-05	6.23E-05	8.33E-05	7.11E-05	7.87E-05	9.11E-06	3.98E-04
491849.68000	3627136.54000	3.24E-05	4.73E-05	5.29E-05	6.93E-05	5.85E-05	6.55E-05	6.40E-06	3.32E-04
491849.68000	3627332.40000	2.80E-05	4.02E-05	4.44E-05	5.76E-05	4.91E-05	5.56E-05	5.73E-06	2.81E-04
491849.68000	3627528.26000	2.43E-05	3.47E-05	3.81E-05	4.89E-05	4.18E-05	4.82E-05	5.84E-06	2.42E-04
491849.68000	3627724.12000	2.10E-05	2.95E-05	3.22E-05	4.05E-05	3.47E-05	4.05E-05	5.01E-06	2.03E-04
491849.68000	3627919.98000	1.81E-05	2.50E-05	2.71E-05	3.39E-05	2.93E-05	3.44E-05	4.58E-06	1.72E-04
491849.68000	3628115.84000	1.58E-05	2.12E-05	2.29E-05	2.85E-05	2.49E-05	2.94E-05	4.14E-06	1.47E-04
491849.68000	3628311.70000	1.38E-05	1.81E-05	1.94E-05	2.41E-05	2.13E-05	2.53E-05	3.68E-06	1.26E-04
491849.68000	3628507.56000	1.21E-05	1.55E-05	1.65E-05	2.05E-05	1.83E-05	2.18E-05	3.18E-06	1.08E-04
492043.78000	3624590.36000	3.03E-05	2.10E-05	2.10E-05	2.64E-05	2.64E-05	3.36E-05	6.44E-06	1.65E-04
492043.78000	3624786.22000	3.89E-05	2.46E-05	2.44E-05	3.07E-05	3.09E-05	3.93E-05	7.32E-06	1.96E-04
492043.78000	3624982.08000	5.22E-05	2.93E-05	2.89E-05	3.63E-05	3.67E-05	4.70E-05	8.61E-06	2.39E-04
492043.78000	3625177.94000	6.94E-05	3.57E-05	3.49E-05	4.36E-05	4.43E-05	5.73E-05	1.05E-05	2.96E-04
492043.78000	3625373.80000	7.44E-05	3.72E-05	3.68E-05	4.62E-05	4.65E-05	6.09E-05	1.12E-05	3.13E-04
492043.78000	3625569.66000	7.37E-05	4.39E-05	4.10E-05	5.18E-05	5.58E-05	7.56E-05	1.13E-05	3.53E-04
492043.78000	3625765.52000	8.02E-05	6.01E-05	5.51E-05	7.04E-05	7.77E-05	1.09E-04	1.47E-05	4.67E-04
492043.78000	3625961.38000	9.40E-05	9.09E-05	8.17E-05	1.06E-04	1.21E-04	1.73E-04	2.10E-05	6.87E-04
492043.78000	3626157.24000	1.08E-04	1.59E-04	1.54E-04	2.03E-04	2.14E-04	2.68E-04	3.10E-05	1.14E-03
492043.78000	3626353.10000	1.01E-04	1.96E-04	2.22E-04	3.09E-04	2.62E-04	2.74E-04	3.15E-05	1.40E-03
492043.78000	3626548.96000	8.54E-05	1.55E-04	1.74E-04	2.27E-04	2.04E-04	2.18E-04	2.50E-05	1.09E-03
492043.78000	3626744.82000	5.84E-05	9.68E-05	1.21E-04	1.67E-04	1.25E-04	1.38E-04	1.79E-05	7.23E-04
492043.78000	3626940.68000	4.75E-05	7.61E-05	8.77E-05	1.19E-04	9.67E-05	1.05E-04	1.04E-05	5.42E-04
492043.78000	3627136.54000	3.95E-05	6.18E-05	7.04E-05	9.31E-05	7.59E-05	8.37E-05	7.53E-06	4.32E-04
492043.78000	3627332.40000	3.30E-05	5.09E-05	5.71E-05	7.39E-05	6.08E-05	6.84E-05	7.17E-06	3.51E-04
492043.78000	3627528.26000	2.74E-05	4.12E-05	4.56E-05	5.75E-05	4.78E-05	5.49E-05	6.12E-06	2.80E-04
492043.78000	3627724.12000	2.29E-05	3.32E-05	3.65E-05	4.55E-05	3.85E-05	4.46E-05	5.40E-06	2.27E-04
492043.78000	3627919.98000	1.94E-05	2.73E-05	2.97E-05	3.68E-05	3.17E-05	3.71E-05	4.89E-06	1.87E-04
492043.78000	3628115.84000	1.67E-05	2.29E-05	2.48E-05	3.06E-05	2.67E-05	3.13E-05	4.28E-06	1.57E-04
492043.78000	3628311.70000	1.45E-05	1.95E-05	2.09E-05	2.58E-05	2.26E-05	2.66E-05	3.69E-06	1.34E-04
492043.78000	3628507.56000	1.28E-05	1.67E-05	1.78E-05	2.20E-05	1.93E-05	2.29E-05	3.18E-06	1.15E-04
492237.88000	3624590.36000	3.07E-05	2.17E-05	2.15E-05	2.71E-05	2.73E-05	3.50E-05	6.31E-06	1.70E-04
492237.88000	3624786.22000	3.64E-05	2.28E-05	2.32E-05	2.94E-05	2.86E-05	3.64E-05	6.81E-06	1.84E-04
492237.88000	3624982.08000	4.85E-05	2.60E-05	2.64E-05	3.34E-05	3.26E-05	4.15E-05	7.98E-06	2.16E-04
492237.88000	3625177.94000	6.91E-05	2.93E-05	2.91E-05	3.69E-05	3.71E-05	4.77E-05	9.36E-06	2.58E-04
492237.88000	3625373.80000	9.60E-05	3.98E-05	4.02E-05	5.08E-05	4.98E-05	6.38E-05	1.21E-05	3.53E-04
492237.88000	3625569.66000	9.73E-05	4.45E-05	4.22E-05	5.39E-05	5.66E-05	7.57E-05	1.23E-05	3.83E-04
492237.88000	3625765.52000	9.65E-05	5.96E-05	5.51E-05	7.07E-05	7.65E-05	1.06E-04	1.43E-05	4.79E-04
492237.88000	3625961.38000	1.12E-04	8.87E-05	8.02E-05	1.04E-04	1.16E-04	1.70E-04	1.98E-05	6.90E-04
492237.88000	3626157.24000	1.79E-04	1.94E-04	1.47E-04	1.85E-04	2.65E-04	4.03E-04	3.37E-05	1.41E-03
492237.88000	3626353.10000	1.55E-04	2.37E-04	1.67E-04	2.30E-04	3.54E-04	4.24E-04	4.77E-05	1.61E-03
492237.88000	3626548.96000	1.17E-04	2.61E-04	3.50E-04	5.05E-04	3.46E-04	3.40E-04	4.07E-05	1.96E-03

Chronic Non-Cancer Health Risk-Offsite

492237.88000	3626744.82000	8.13E-05	1.53E-04	2.04E-04	2.96E-04	2.02E-04	2.12E-04	2.62E-05	1.17E-03
492237.88000	3626940.68000	6.19E-05	1.11E-04	1.34E-04	1.86E-04	1.40E-04	1.48E-04	1.26E-05	7.94E-04
492237.88000	3627136.54000	4.89E-05	8.47E-05	9.96E-05	1.32E-04	1.01E-04	1.10E-04	1.04E-05	5.87E-04
492237.88000	3627332.40000	3.85E-05	6.41E-05	7.36E-05	9.33E-05	7.39E-05	8.25E-05	8.98E-06	4.35E-04
492237.88000	3627528.26000	3.06E-05	4.81E-05	5.40E-05	6.70E-05	5.47E-05	6.22E-05	7.00E-06	3.24E-04
492237.88000	3627724.12000	2.52E-05	3.81E-05	4.24E-05	5.22E-05	4.35E-05	5.00E-05	6.22E-06	2.58E-04
492237.88000	3627919.98000	2.09E-05	3.02E-05	3.30E-05	4.03E-05	3.43E-05	3.97E-05	4.99E-06	2.03E-04
492237.88000	3628115.84000	1.75E-05	2.43E-05	2.62E-05	3.20E-05	2.75E-05	3.22E-05	3.97E-06	1.64E-04
492237.88000	3628311.70000	1.51E-05	2.03E-05	2.18E-05	2.67E-05	2.30E-05	2.71E-05	3.30E-06	1.37E-04
492237.88000	3628507.56000	1.32E-05	1.75E-05	1.87E-05	2.30E-05	1.98E-05	2.35E-05	2.85E-06	1.19E-04
492431.98000	3624590.36000	3.04E-05	2.20E-05	2.20E-05	2.76E-05	2.76E-05	3.53E-05	6.55E-06	1.71E-04
492431.98000	3624786.22000	3.68E-05	2.39E-05	2.43E-05	3.07E-05	3.00E-05	3.84E-05	7.21E-06	1.91E-04
492431.98000	3624982.08000	5.24E-05	3.14E-05	3.02E-05	3.79E-05	3.97E-05	5.15E-05	8.66E-06	2.52E-04
492431.98000	3625177.94000	7.73E-05	3.76E-05	3.43E-05	4.28E-05	4.80E-05	6.31E-05	1.03E-05	3.13E-04
492431.98000	3625373.80000	1.22E-04	4.86E-05	4.42E-05	5.54E-05	6.13E-05	8.05E-05	1.34E-05	4.25E-04
492431.98000	3625569.66000	1.46E-04	4.90E-05	4.78E-05	6.08E-05	6.23E-05	8.18E-05	1.47E-05	4.63E-04
492431.98000	3625765.52000	1.40E-04	7.91E-05	7.46E-05	9.52E-05	1.01E-04	1.35E-04	1.70E-05	6.42E-04
492431.98000	3625961.38000	1.35E-04	9.60E-05	9.32E-05	1.22E-04	1.24E-04	1.73E-04	1.95E-05	7.64E-04
492431.98000	3626157.24000	2.28E-04	1.84E-04	1.37E-04	1.76E-04	2.52E-04	4.03E-04	3.23E-05	1.41E-03
492431.98000	3626353.10000	2.58E-04	2.53E-04	1.35E-04	1.83E-04	3.89E-04	7.07E-04	6.61E-05	1.99E-03
492431.98000	3626548.96000	1.72E-04	4.51E-04	5.78E-04	8.91E-04	6.78E-04	5.97E-04	7.27E-05	3.44E-03
492431.98000	3626744.82000	1.20E-04	2.68E-04	3.84E-04	6.10E-04	3.73E-04	3.54E-04	3.30E-05	2.14E-03
492431.98000	3626940.68000	8.46E-05	1.79E-04	2.35E-04	3.32E-04	2.18E-04	2.18E-04	1.91E-05	1.29E-03
492431.98000	3627136.54000	5.95E-05	1.16E-04	1.42E-04	1.81E-04	1.30E-04	1.38E-04	1.33E-05	7.80E-04
492431.98000	3627332.40000	4.73E-05	8.82E-05	1.09E-04	1.33E-04	9.59E-05	1.04E-04	1.14E-05	5.89E-04
492431.98000	3627528.26000	3.33E-05	5.44E-05	6.10E-05	7.34E-05	5.95E-05	6.70E-05	7.19E-06	3.56E-04
492431.98000	3627724.12000	2.61E-05	3.97E-05	4.34E-05	5.22E-05	4.34E-05	4.97E-05	5.04E-06	2.59E-04
492431.98000	3627919.98000	2.14E-05	3.10E-05	3.36E-05	4.07E-05	3.45E-05	4.01E-05	4.52E-06	2.06E-04
492431.98000	3628115.84000	1.81E-05	2.52E-05	2.72E-05	3.31E-05	2.83E-05	3.33E-05	3.99E-06	1.69E-04
492431.98000	3628311.70000	1.55E-05	2.10E-05	2.26E-05	2.76E-05	2.37E-05	2.81E-05	3.54E-06	1.42E-04
492431.98000	3628507.56000	1.38E-05	1.86E-05	2.01E-05	2.46E-05	2.10E-05	2.50E-05	3.30E-06	1.26E-04
492626.08000	3624590.36000	3.42E-05	2.23E-05	2.10E-05	2.59E-05	2.84E-05	3.70E-05	6.71E-06	1.76E-04
492626.08000	3624786.22000	3.80E-05	2.46E-05	2.47E-05	3.10E-05	3.07E-05	3.93E-05	7.26E-06	1.96E-04
492626.08000	3624982.08000	5.46E-05	3.10E-05	2.83E-05	3.49E-05	3.93E-05	5.23E-05	8.62E-06	2.49E-04
492626.08000	3625177.94000	7.08E-05	3.63E-05	3.61E-05	4.52E-05	4.52E-05	5.83E-05	9.91E-06	3.02E-04
492626.08000	3625373.80000	1.18E-04	4.68E-05	4.61E-05	5.76E-05	5.81E-05	7.54E-05	1.27E-05	4.14E-04
492626.08000	3625569.66000	2.29E-04	5.57E-05	5.48E-05	6.82E-05	6.96E-05	9.10E-05	1.78E-05	5.86E-04
492626.08000	3625765.52000	2.26E-04	8.12E-05	7.93E-05	9.97E-05	1.02E-04	1.35E-04	2.03E-05	7.44E-04
492626.08000	3625961.38000	2.04E-04	1.11E-04	8.75E-05	1.12E-04	1.57E-04	2.26E-04	2.26E-05	9.20E-04
492626.08000	3626157.24000	2.41E-04	1.50E-04	1.06E-04	1.41E-04	2.17E-04	3.43E-04	3.25E-05	1.23E-03
492626.08000	3626353.10000	4.12E-04	1.96E-04	1.25E-04	1.78E-04	3.09E-04	6.00E-04	6.80E-05	1.89E-03
492626.08000	3626548.96000	4.26E-04	1.19E-03	7.00E-04	1.13E-03	2.80E-03	2.35E-03	1.36E-04	8.73E-03
492626.08000	3626744.82000	2.14E-04	7.40E-04	1.69E-03	6.29E-03	9.71E-04	7.40E-04	7.13E-05	1.07E-02
492626.08000	3626940.68000	1.12E-04	2.98E-04	4.33E-04	5.06E-04	2.97E-04	2.85E-04	2.45E-05	1.96E-03
492626.08000	3627136.54000	6.79E-05	1.44E-04	1.76E-04	2.02E-04	1.44E-04	1.52E-04	1.31E-05	8.99E-04
492626.08000	3627332.40000	4.74E-05	8.68E-05	1.01E-04	1.19E-04	9.05E-05	9.97E-05	1.01E-05	5.55E-04
492626.08000	3627528.26000	3.68E-05	6.30E-05	7.35E-05	8.70E-05	6.64E-05	7.48E-05	7.83E-06	4.09E-04
492626.08000	3627724.12000	2.68E-05	4.11E-05	4.47E-05	5.27E-05	4.42E-05	5.10E-05	5.33E-06	2.66E-04
492626.08000	3627919.98000	2.17E-05	3.15E-05	3.37E-05	4.00E-05	3.42E-05	4.01E-05	4.47E-06	2.06E-04
492626.08000	3628115.84000	1.84E-05	2.60E-05	2.81E-05	3.36E-05	2.86E-05	3.38E-05	4.10E-06	1.73E-04
492626.08000	3628311.70000	1.59E-05	2.18E-05	2.36E-05	2.84E-05	2.42E-05	2.88E-05	3.61E-06	1.46E-04
492626.08000	3628507.56000	1.41E-05	1.91E-05	2.07E-05	2.49E-05	2.12E-05	2.53E-05	3.24E-06	1.29E-04
492626.09000	3626426.56000	5.05E-04	1.66E-04	1.60E-04	1.02E-03	2.09E-03	4.46E-03	1.98E-04	8.60E-03

Chronic Non-Cancer Health Risk-Offsite

492652.38000	3626742.71000	2.39E-04	2.99E-04	1.70E-04	2.43E-04	4.70E-04	1.16E-03	9.33E-05	2.67E-03
492660.72000	3626713.21000	2.77E-04	4.83E-04	8.59E-04	1.52E-03	6.94E-04	6.20E-04	8.06E-05	4.53E-03
492676.75000	3626651.01000	4.47E-04	7.64E-04	1.04E-03	1.62E-03	1.16E-03	8.96E-04	1.05E-04	6.03E-03
492678.68000	3626411.81000	6.81E-04	1.38E-03	7.36E-04	1.38E-03	2.84E-03	4.44E-03	1.88E-04	1.17E-02
492679.32000	3626674.09000	4.04E-04	5.67E-04	9.97E-04	1.70E-03	8.43E-04	7.21E-04	9.20E-05	5.33E-03
492688.30000	3626714.50000	3.27E-04	5.03E-04	2.69E-04	3.88E-04	8.66E-04	2.14E-03	1.12E-04	4.61E-03
492689.58000	3626622.15000	5.71E-04	7.18E-04	6.01E-04	8.39E-04	1.18E-03	1.10E-03	9.82E-05	5.10E-03
492692.79000	3626668.96000	4.50E-04	6.94E-04	1.10E-03	1.76E-03	1.03E-03	8.28E-04	1.02E-04	5.97E-03
492697.92000	3626391.93000	6.78E-04	2.14E-03	9.89E-04	2.07E-03	3.35E-03	3.24E-03	1.63E-04	1.26E-02
492699.20000	3626422.71000	8.37E-04	4.31E-04	2.81E-04	4.06E-04	6.89E-04	7.15E-04	7.38E-05	3.43E-03
492703.69000	3626740.79000	2.94E-04	3.06E-04	1.75E-04	2.55E-04	4.99E-04	1.30E-03	1.07E-04	2.94E-03
492704.33000	3626600.99000	7.36E-04	6.92E-04	5.25E-04	7.27E-04	1.14E-03	1.17E-03	9.39E-05	5.08E-03
492708.82000	3626624.72000	6.59E-04	7.17E-04	6.49E-04	9.34E-04	1.19E-03	1.04E-03	1.01E-04	5.29E-03
492716.51000	3626577.26000	1.00E-03	6.26E-04	4.11E-04	5.67E-04	1.05E-03	1.22E-03	8.86E-05	4.96E-03
492720.36000	3626707.44000	3.89E-04	2.98E-04	1.80E-04	2.57E-04	4.98E-04	9.97E-04	8.47E-05	2.70E-03
492726.13000	3626643.31000	6.63E-04	7.78E-04	8.84E-04	1.34E-03	1.22E-03	9.42E-04	1.04E-04	5.93E-03
492726.77000	3626607.40000	8.72E-04	7.72E-04	7.63E-04	1.13E-03	1.28E-03	1.01E-03	1.06E-04	5.94E-03
492739.60000	3626591.37000	1.20E-03	4.27E-04	2.27E-04	3.17E-04	6.99E-04	9.66E-04	8.05E-05	3.92E-03
492740.24000	3626567.00000	1.48E-03	4.46E-04	2.51E-04	3.53E-04	7.33E-04	8.95E-04	7.89E-05	4.24E-03
492742.16000	3626418.22000	1.03E-03	6.01E-04	4.86E-04	6.76E-04	9.70E-04	9.25E-04	8.05E-05	4.77E-03
492747.94000	3626386.16000	7.79E-04	6.50E-04	6.18E-04	8.78E-04	1.01E-03	8.83E-04	8.63E-05	4.91E-03
492750.50000	3626550.33000	1.74E-03	5.77E-04	9.23E-04	1.44E-03	8.30E-04	6.97E-04	8.78E-05	6.30E-03
492754.35000	3626706.16000	4.33E-04	4.22E-04	2.55E-04	3.67E-04	7.22E-04	1.78E-03	1.02E-04	4.08E-03
492754.99000	3626574.05000	1.78E-03	5.09E-04	8.81E-04	1.47E-03	7.29E-04	6.38E-04	8.28E-05	6.09E-03
492755.63000	3626685.00000	5.40E-04	4.23E-04	2.54E-04	3.73E-04	7.19E-04	1.80E-03	1.02E-04	4.21E-03
492758.84000	3626739.51000	3.27E-04	3.39E-04	2.01E-04	2.91E-04	5.76E-04	1.23E-03	9.55E-05	3.06E-03
492759.48000	3626659.99000	7.26E-04	3.01E-04	1.80E-04	2.66E-04	5.02E-04	1.01E-03	8.30E-05	3.06E-03
492771.66000	3626525.32000	1.98E-03	6.58E-04	8.08E-04	1.20E-03	9.83E-04	7.99E-04	9.15E-05	6.52E-03
492777.44000	3626545.20000	2.33E-03	6.18E-04	8.88E-04	1.35E-03	8.97E-04	7.38E-04	8.96E-05	6.91E-03
492778.72000	3626388.08000	8.37E-04	6.46E-04	6.60E-04	9.51E-04	1.00E-03	8.52E-04	8.95E-05	5.04E-03
492780.00000	3626415.01000	1.30E-03	6.41E-04	7.08E-04	1.04E-03	9.80E-04	8.16E-04	8.95E-05	5.57E-03
492783.85000	3626648.44000	9.51E-04	4.40E-04	2.62E-04	3.91E-04	8.03E-04	1.84E-03	1.04E-04	4.79E-03
492788.98000	3626677.30000	6.64E-04	3.10E-04	1.87E-04	2.81E-04	5.30E-04	1.06E-03	8.68E-05	3.12E-03
492820.18000	3624590.36000	3.45E-05	2.27E-05	2.14E-05	2.65E-05	2.85E-05	3.70E-05	6.69E-06	1.77E-04
492820.18000	3624786.22000	4.45E-05	2.49E-05	2.23E-05	2.75E-05	3.14E-05	4.14E-05	7.62E-06	2.00E-04
492820.18000	3624982.08000	5.84E-05	2.81E-05	2.42E-05	3.00E-05	3.56E-05	4.78E-05	8.71E-06	2.33E-04
492820.18000	3625177.94000	7.89E-05	3.63E-05	3.16E-05	3.91E-05	4.59E-05	6.31E-05	1.03E-05	3.05E-04
492820.18000	3625373.80000	1.27E-04	3.52E-05	2.84E-05	3.58E-05	4.62E-05	6.33E-05	1.31E-05	3.49E-04
492820.18000	3625569.66000	2.45E-04	5.90E-05	5.79E-05	7.26E-05	7.31E-05	9.50E-05	1.75E-05	6.20E-04
492820.18000	3625765.52000	7.70E-04	5.55E-05	4.87E-05	5.86E-05	7.15E-05	9.16E-05	3.84E-05	1.13E-03
492820.18000	3625961.38000	3.55E-04	5.25E-05	4.18E-05	5.69E-05	7.75E-05	1.10E-04	2.72E-05	7.21E-04
492820.18000	3626157.24000	2.38E-04	9.25E-05	6.75E-05	9.61E-05	1.45E-04	2.25E-04	3.72E-05	9.02E-04
492820.18000	3626353.10000	3.71E-04	1.73E-04	1.19E-04	1.78E-04	3.04E-04	5.57E-04	7.54E-05	1.78E-03
492820.18000	3626548.96000	3.89E-03	1.73E-03	8.58E-04	1.23E-03	2.71E-03	5.47E-03	2.02E-04	1.61E-02
492820.18000	3626744.82000	3.16E-04	1.76E-03	2.33E-03	1.03E-03	8.17E-04	7.50E-04	6.50E-05	7.07E-03
492820.18000	3626940.68000	1.21E-04	3.25E-04	4.08E-04	3.74E-04	2.64E-04	2.72E-04	2.12E-05	1.79E-03
492820.18000	3627136.54000	6.97E-05	1.44E-04	1.67E-04	1.77E-04	1.35E-04	1.47E-04	1.25E-05	8.52E-04
492820.18000	3627332.40000	4.74E-05	8.49E-05	9.46E-05	1.06E-04	8.47E-05	9.55E-05	9.49E-06	5.23E-04
492820.18000	3627528.26000	3.48E-05	5.65E-05	6.15E-05	7.08E-05	5.84E-05	6.72E-05	7.00E-06	3.56E-04
492820.18000	3627724.12000	3.29E-05	5.33E-05	5.48E-05	5.99E-05	5.58E-05	6.45E-05	6.53E-06	3.28E-04
492820.18000	3627919.98000	2.17E-05	3.11E-05	3.29E-05	3.88E-05	3.34E-05	3.94E-05	4.40E-06	2.02E-04
492820.18000	3628115.84000	1.80E-05	2.46E-05	2.59E-05	3.08E-05	2.68E-05	3.19E-05	3.68E-06	1.62E-04
492820.18000	3628311.70000	1.61E-05	2.22E-05	2.39E-05	2.87E-05	2.43E-05	2.89E-05	3.50E-06	1.48E-04

Chronic Non-Cancer Health Risk-Offsite

492820.18000	3628507.56000	1.41E-05	1.89E-05	2.04E-05	2.45E-05	2.09E-05	2.49E-05	3.06E-06	1.27E-04
492874.27000	3625788.48000	1.15E-03	6.48E-05	5.87E-05	6.96E-05	8.35E-05	1.05E-04	4.76E-05	1.58E-03
492881.32000	3625908.40000	6.54E-04	4.61E-05	4.03E-05	5.20E-05	6.82E-05	9.39E-05	2.95E-05	9.84E-04
492883.25000	3625830.80000	1.02E-03	5.66E-05	5.13E-05	6.21E-05	7.61E-05	9.80E-05	4.12E-05	1.40E-03
492894.15000	3625789.12000	1.45E-03	6.91E-05	6.37E-05	7.40E-05	8.78E-05	1.09E-04	5.29E-05	1.91E-03
492901.84000	3625911.60000	7.54E-04	4.74E-05	4.17E-05	5.26E-05	6.90E-05	9.56E-05	3.06E-05	1.09E-03
492906.98000	3625898.14000	8.50E-04	4.60E-05	4.10E-05	5.12E-05	6.65E-05	9.12E-05	3.09E-05	1.18E-03
492910.18000	3625790.40000	1.74E-03	7.29E-05	6.76E-05	7.75E-05	9.14E-05	1.13E-04	5.67E-05	2.22E-03
492919.80000	3625834.65000	1.54E-03	6.05E-05	5.56E-05	6.51E-05	7.92E-05	1.02E-04	4.54E-05	1.95E-03
492928.14000	3625914.81000	9.04E-04	4.99E-05	4.37E-05	5.41E-05	7.10E-05	9.87E-05	3.17E-05	1.25E-03
492930.70000	3625786.55000	2.13E-03	7.56E-05	7.02E-05	7.96E-05	9.36E-05	1.16E-04	5.90E-05	2.63E-03
492933.91000	3625898.14000	1.09E-03	4.81E-05	4.28E-05	5.25E-05	6.80E-05	9.34E-05	3.20E-05	1.43E-03
492947.38000	3625791.04000	2.58E-03	7.88E-05	7.34E-05	8.25E-05	9.66E-05	1.19E-04	6.20E-05	3.09E-03
492951.87000	3625908.40000	1.17E-03	5.07E-05	4.44E-05	5.46E-05	7.11E-05	9.83E-05	3.25E-05	1.52E-03
492955.07000	3625845.55000	2.48E-03	5.45E-05	4.93E-05	5.83E-05	7.29E-05	9.65E-05	3.83E-05	2.85E-03
492963.41000	3625787.84000	2.70E-03	7.54E-05	6.98E-05	7.87E-05	9.27E-05	1.15E-04	5.83E-05	3.19E-03
492973.67000	3625907.11000	1.35E-03	5.34E-05	4.65E-05	5.71E-05	7.44E-05	1.03E-04	3.34E-05	1.72E-03
492982.65000	3625787.84000	2.85E-03	7.64E-05	7.07E-05	7.95E-05	9.35E-05	1.16E-04	5.92E-05	3.34E-03
492993.55000	3625914.17000	1.30E-03	5.61E-05	4.85E-05	5.99E-05	7.82E-05	1.08E-04	3.45E-05	1.69E-03
492996.11000	3625897.50000	1.72E-03	5.57E-05	4.82E-05	5.94E-05	7.72E-05	1.06E-04	3.44E-05	2.10E-03
492999.96000	3625787.84000	2.95E-03	8.23E-05	7.67E-05	8.55E-05	9.93E-05	1.22E-04	6.52E-05	3.48E-03
493014.28000	3624590.36000	3.58E-05	1.54E-05	1.34E-05	1.74E-05	2.12E-05	2.81E-05	6.77E-06	1.38E-04
493014.28000	3624786.22000	4.53E-05	1.66E-05	1.44E-05	1.89E-05	2.34E-05	3.11E-05	7.80E-06	1.58E-04
493014.28000	3624982.08000	6.07E-05	1.96E-05	1.69E-05	2.22E-05	2.78E-05	3.71E-05	9.12E-06	1.93E-04
493014.28000	3625177.94000	8.33E-05	3.17E-05	2.75E-05	3.51E-05	4.27E-05	5.73E-05	1.10E-05	2.88E-04
493014.28000	3625373.80000	1.21E-04	4.15E-05	4.10E-05	5.16E-05	5.19E-05	6.81E-05	1.28E-05	3.88E-04
493014.28000	3625569.66000	2.97E-04	4.11E-05	3.50E-05	4.31E-05	5.56E-05	7.57E-05	2.13E-05	5.69E-04
493014.28000	3625765.52000	1.86E-03	7.14E-05	6.59E-05	7.45E-05	8.78E-05	1.09E-04	5.48E-05	2.32E-03
493014.28000	3625961.38000	7.48E-04	5.47E-05	4.68E-05	5.99E-05	7.96E-05	1.13E-04	3.33E-05	1.14E-03
493014.28000	3626157.24000	2.91E-04	1.34E-04	9.70E-05	1.31E-04	1.98E-04	3.17E-04	4.24E-05	1.21E-03
493014.28000	3626353.10000	4.58E-04	3.36E-04	2.89E-04	3.64E-04	4.36E-04	6.99E-04	7.28E-05	2.66E-03
493014.28000	3626548.96000	4.32E-04	6.73E-04	5.00E-04	5.17E-04	5.38E-04	6.79E-04	8.79E-05	3.43E-03
493014.28000	3626744.82000	2.01E-04	4.25E-04	3.91E-04	3.39E-04	3.16E-04	3.78E-04	3.75E-05	2.09E-03
493014.28000	3626940.68000	1.04E-04	2.18E-04	2.24E-04	2.12E-04	1.82E-04	2.05E-04	1.59E-05	1.16E-03
493014.28000	3627136.54000	6.40E-05	1.19E-04	1.28E-04	1.33E-04	1.10E-04	1.25E-04	9.42E-06	6.88E-04
493014.28000	3627332.40000	5.07E-05	9.25E-05	1.04E-04	1.13E-04	8.93E-05	1.01E-04	8.45E-06	5.59E-04
493014.28000	3627528.26000	3.88E-05	6.56E-05	7.18E-05	8.02E-05	6.57E-05	7.55E-05	6.76E-06	4.04E-04
493014.28000	3627724.12000	3.25E-05	5.00E-05	4.47E-05	4.90E-05	5.22E-05	6.16E-05	5.73E-06	2.96E-04
493014.28000	3627919.98000	2.11E-05	2.95E-05	3.09E-05	3.61E-05	3.14E-05	3.74E-05	4.03E-06	1.90E-04
493014.28000	3628115.84000	1.77E-05	2.39E-05	2.52E-05	2.98E-05	2.59E-05	3.11E-05	3.63E-06	1.57E-04
493014.28000	3628311.70000	1.49E-05	1.94E-05	2.02E-05	2.40E-05	2.12E-05	2.57E-05	3.03E-06	1.28E-04
493014.28000	3628507.56000	1.30E-05	1.66E-05	1.74E-05	2.08E-05	1.83E-05	2.22E-05	2.73E-06	1.11E-04
493015.99000	3625896.85000	1.94E-03	5.64E-05	5.01E-05	6.10E-05	7.74E-05	1.04E-04	3.82E-05	2.33E-03
493021.12000	3625791.04000	3.36E-03	9.93E-05	9.36E-05	1.03E-04	1.16E-04	1.39E-04	8.23E-05	4.00E-03
493023.05000	3625912.24000	1.43E-03	5.60E-05	4.94E-05	6.09E-05	7.81E-05	1.07E-04	3.71E-05	1.82E-03
493036.52000	3625789.12000	3.20E-03	1.01E-04	9.49E-05	1.04E-04	1.18E-04	1.40E-04	8.38E-05	3.84E-03
493044.21000	3625907.11000	1.44E-03	5.72E-05	5.06E-05	6.25E-05	7.96E-05	1.09E-04	3.86E-05	1.83E-03
493055.75000	3625789.76000	3.07E-03	1.05E-04	9.93E-05	1.09E-04	1.23E-04	1.45E-04	8.83E-05	3.74E-03
493066.66000	3625907.76000	1.17E-03	6.04E-05	5.30E-05	6.57E-05	8.42E-05	1.16E-04	3.94E-05	1.59E-03
493069.86000	3625832.73000	3.70E-03	1.22E-04	1.16E-04	1.27E-04	1.41E-04	1.65E-04	1.06E-04	4.47E-03
493076.28000	3625787.84000	2.55E-03	1.06E-04	1.00E-04	1.10E-04	1.24E-04	1.47E-04	8.93E-05	3.23E-03
493085.25000	3625912.24000	9.90E-04	5.65E-05	4.96E-05	6.25E-05	8.06E-05	1.12E-04	3.68E-05	1.39E-03
493087.18000	3625895.57000	1.15E-03	6.06E-05	5.37E-05	6.63E-05	8.40E-05	1.15E-04	4.11E-05	1.58E-03

Chronic Non-Cancer Health Risk-Offsite

493094.87000	3625832.73000	2.09E-03	9.21E-05	8.67E-05	9.73E-05	1.12E-04	1.37E-04	7.61E-05	2.69E-03
493094.87000	3625787.84000	2.11E-03	9.81E-05	9.25E-05	1.03E-04	1.16E-04	1.40E-04	8.18E-05	2.74E-03
493108.98000	3625911.60000	8.33E-04	5.58E-05	4.91E-05	6.22E-05	8.03E-05	1.12E-04	3.64E-05	1.23E-03
493110.90000	3625837.21000	1.53E-03	7.15E-05	6.60E-05	7.69E-05	9.18E-05	1.17E-04	5.51E-05	2.01E-03
493112.19000	3625897.50000	9.00E-04	5.72E-05	5.05E-05	6.33E-05	8.11E-05	1.12E-04	3.78E-05	1.30E-03
493112.83000	3625788.48000	1.71E-03	8.26E-05	7.71E-05	8.72E-05	1.01E-04	1.25E-04	6.61E-05	2.25E-03
493129.50000	3625787.19000	1.40E-03	7.64E-05	7.07E-05	8.12E-05	9.54E-05	1.20E-04	5.97E-05	1.90E-03
493133.99000	3625901.98000	7.05E-04	5.74E-05	4.99E-05	6.36E-05	8.25E-05	1.16E-04	3.57E-05	1.11E-03
493148.74000	3625787.19000	1.13E-03	6.98E-05	6.41E-05	7.48E-05	8.94E-05	1.15E-04	5.27E-05	1.59E-03
493151.95000	3625834.01000	9.25E-04	5.99E-05	5.42E-05	6.57E-05	8.11E-05	1.08E-04	4.29E-05	1.34E-03
493164.77000	3625790.40000	9.47E-04	6.54E-05	5.96E-05	7.07E-05	8.56E-05	1.11E-04	4.80E-05	1.39E-03
493166.70000	3625837.86000	7.80E-04	5.63E-05	5.05E-05	6.23E-05	7.79E-05	1.05E-04	3.87E-05	1.17E-03
493184.65000	3625789.12000	7.79E-04	6.13E-05	5.53E-05	6.67E-05	8.20E-05	1.09E-04	4.30E-05	1.20E-03
493187.86000	3625836.57000	6.47E-04	5.42E-05	4.81E-05	6.00E-05	7.59E-05	1.04E-04	3.57E-05	1.02E-03
493201.33000	3625836.57000	5.79E-04	5.32E-05	4.70E-05	5.87E-05	7.47E-05	1.02E-04	3.41E-05	9.50E-04
493201.97000	3625791.04000	6.65E-04	5.85E-05	5.23E-05	6.39E-05	7.94E-05	1.06E-04	3.96E-05	1.06E-03
493208.38000	3624590.36000	3.22E-05	1.14E-05	1.04E-05	1.36E-05	1.69E-05	2.25E-05	7.59E-06	1.15E-04
493208.38000	3624786.22000	4.53E-05	1.77E-05	1.54E-05	1.96E-05	2.44E-05	3.28E-05	8.75E-06	1.64E-04
493208.38000	3624982.08000	5.76E-05	3.06E-05	2.81E-05	3.50E-05	3.91E-05	5.18E-05	9.84E-06	2.52E-04
493208.38000	3625177.94000	7.85E-05	3.84E-05	3.60E-05	4.47E-05	4.84E-05	6.38E-05	1.17E-05	3.22E-04
493208.38000	3625373.80000	1.19E-04	4.51E-05	4.43E-05	5.54E-05	5.61E-05	7.32E-05	1.43E-05	4.07E-04
493208.38000	3625569.66000	2.50E-04	6.28E-05	5.51E-05	6.83E-05	8.07E-05	1.08E-04	2.23E-05	6.47E-04
493208.38000	3625765.52000	6.50E-04	5.95E-05	5.29E-05	6.47E-05	8.01E-05	1.07E-04	3.95E-05	1.05E-03
493208.38000	3625961.38000	3.52E-04	5.78E-05	4.90E-05	6.07E-05	8.07E-05	1.16E-04	3.10E-05	7.47E-04
493208.38000	3626157.24000	2.17E-04	8.46E-05	6.57E-05	8.89E-05	1.28E-04	1.95E-04	3.79E-05	8.16E-04
493208.38000	3626353.10000	2.39E-04	1.96E-04	1.36E-04	1.77E-04	2.53E-04	3.57E-04	6.03E-05	1.42E-03
493208.38000	3626548.96000	1.68E-04	2.18E-04	1.70E-04	1.71E-04	2.02E-04	2.60E-04	4.53E-05	1.23E-03
493208.38000	3626744.82000	1.18E-04	1.87E-04	1.76E-04	1.76E-04	1.64E-04	2.03E-04	2.10E-05	1.05E-03
493208.38000	3626940.68000	7.91E-05	1.31E-04	1.26E-04	1.28E-04	1.18E-04	1.41E-04	1.10E-05	7.34E-04
493208.38000	3627136.54000	5.49E-05	8.95E-05	9.05E-05	9.57E-05	8.43E-05	9.94E-05	7.44E-06	5.22E-04
493208.38000	3627332.40000	4.82E-05	8.19E-05	8.21E-05	8.40E-05	7.93E-05	9.20E-05	7.20E-06	4.75E-04
493208.38000	3627528.26000	3.63E-05	3.95E-05	3.15E-05	3.66E-05	4.40E-05	6.56E-05	5.63E-06	2.59E-04
493208.38000	3627724.12000	2.88E-05	4.42E-05	4.71E-05	5.35E-05	4.53E-05	5.30E-05	4.68E-06	2.77E-04
493208.38000	3627919.98000	2.44E-05	3.57E-05	3.64E-05	4.04E-05	3.74E-05	4.42E-05	4.07E-06	2.23E-04
493208.38000	3628115.84000	2.04E-05	2.89E-05	2.98E-05	3.32E-05	3.08E-05	3.66E-05	3.57E-06	1.83E-04
493208.38000	3628311.70000	1.45E-05	1.87E-05	1.94E-05	2.30E-05	2.04E-05	2.46E-05	2.72E-06	1.23E-04
493208.38000	3628507.56000	1.34E-05	1.77E-05	1.89E-05	2.25E-05	1.94E-05	2.33E-05	2.74E-06	1.18E-04
493221.21000	3625790.40000	5.70E-04	5.62E-05	4.98E-05	6.14E-05	7.70E-05	1.04E-04	3.63E-05	9.55E-04
493238.52000	3625791.04000	4.98E-04	5.50E-05	4.83E-05	5.98E-05	7.57E-05	1.03E-04	3.36E-05	8.74E-04
493240.44000	3625836.57000	4.36E-04	5.30E-05	4.60E-05	5.71E-05	7.35E-05	1.02E-04	3.07E-05	7.98E-04
493402.48000	3624590.36000	3.53E-05	1.59E-05	1.37E-05	1.77E-05	2.17E-05	2.89E-05	7.38E-06	1.40E-04
493402.48000	3624786.22000	4.27E-05	1.53E-05	1.34E-05	1.75E-05	2.18E-05	2.91E-05	8.71E-06	1.49E-04
493402.48000	3624982.08000	5.79E-05	1.91E-05	1.66E-05	2.16E-05	2.70E-05	3.63E-05	1.03E-05	1.89E-04
493402.48000	3625177.94000	8.27E-05	2.85E-05	2.45E-05	3.14E-05	3.89E-05	5.28E-05	1.24E-05	2.71E-04
493402.48000	3625373.80000	1.09E-04	4.37E-05	4.33E-05	5.44E-05	5.50E-05	7.21E-05	1.50E-05	3.92E-04
493402.48000	3625569.66000	1.82E-04	6.10E-05	5.96E-05	7.29E-05	7.57E-05	9.91E-05	2.11E-05	5.72E-04
493402.48000	3625765.52000	2.16E-04	5.83E-05	4.80E-05	5.82E-05	7.60E-05	1.07E-04	2.42E-05	5.88E-04
493402.48000	3625961.38000	1.77E-04	5.53E-05	4.48E-05	5.97E-05	8.16E-05	1.17E-04	2.55E-05	5.62E-04
493402.48000	3626157.24000	1.58E-04	7.91E-05	6.11E-05	7.92E-05	1.13E-04	1.67E-04	3.36E-05	6.91E-04
493402.48000	3626353.10000	1.36E-04	1.30E-04	9.73E-05	1.14E-04	1.45E-04	1.87E-04	3.88E-05	8.47E-04
493402.48000	3626548.96000	1.07E-04	1.17E-04	9.53E-05	1.00E-04	1.19E-04	1.55E-04	2.49E-05	7.19E-04
493402.48000	3626744.82000	8.18E-05	1.19E-04	1.21E-04	1.27E-04	1.12E-04	1.37E-04	1.41E-05	7.11E-04
493402.48000	3626940.68000	6.01E-05	8.43E-05	8.07E-05	8.62E-05	8.10E-05	1.00E-04	8.81E-06	5.01E-04

Chronic Non-Cancer Health Risk-Offsite

493402.48000	3627136.54000	4.58E-05	6.60E-05	6.49E-05	7.05E-05	6.45E-05	7.77E-05	6.23E-06	3.96E-04
493402.48000	3627332.40000	3.74E-05	3.57E-05	2.67E-05	3.14E-05	4.04E-05	5.35E-05	5.88E-06	2.31E-04
493402.48000	3627528.26000	3.24E-05	3.32E-05	2.55E-05	2.96E-05	3.71E-05	4.83E-05	5.09E-06	2.11E-04
493402.48000	3627724.12000	2.40E-05	3.38E-05	3.59E-05	4.16E-05	3.51E-05	4.20E-05	4.05E-06	2.16E-04
493402.48000	3627919.98000	2.15E-05	2.10E-05	1.72E-05	2.04E-05	2.43E-05	3.12E-05	3.55E-06	1.39E-04
493402.48000	3628115.84000	1.94E-05	2.69E-05	2.77E-05	3.14E-05	2.84E-05	3.39E-05	3.15E-06	1.71E-04
493402.48000	3628311.70000	1.54E-05	2.07E-05	2.20E-05	2.59E-05	2.21E-05	2.65E-05	2.72E-06	1.35E-04
493402.48000	3628507.56000	1.33E-05	1.75E-05	1.85E-05	2.20E-05	1.89E-05	2.28E-05	2.40E-06	1.15E-04
493596.58000	3624590.36000	3.49E-05	1.91E-05	1.71E-05	2.19E-05	2.55E-05	3.38E-05	7.58E-06	1.60E-04
493596.58000	3624786.22000	4.11E-05	1.48E-05	1.32E-05	1.72E-05	2.12E-05	2.85E-05	9.00E-06	1.45E-04
493596.58000	3624982.08000	5.42E-05	1.74E-05	1.56E-05	2.05E-05	2.56E-05	3.47E-05	1.07E-05	1.79E-04
493596.58000	3625177.94000	7.67E-05	3.22E-05	2.83E-05	3.58E-05	4.35E-05	5.84E-05	1.29E-05	2.88E-04
493596.58000	3625373.80000	9.68E-05	4.60E-05	4.49E-05	5.51E-05	5.77E-05	7.55E-05	1.55E-05	3.91E-04
493596.58000	3625569.66000	1.36E-04	3.32E-05	2.89E-05	3.57E-05	4.55E-05	6.20E-05	1.90E-05	3.61E-04
493596.58000	3625765.52000	1.28E-04	3.99E-05	3.36E-05	4.40E-05	5.80E-05	8.05E-05	2.01E-05	4.04E-04
493596.58000	3625961.38000	1.17E-04	5.21E-05	4.19E-05	5.33E-05	7.22E-05	1.04E-04	2.30E-05	4.64E-04
493596.58000	3626157.24000	1.22E-04	1.08E-04	8.58E-05	1.05E-04	1.27E-04	1.71E-04	2.87E-05	7.47E-04
493596.58000	3626353.10000	9.63E-05	9.83E-05	8.08E-05	9.00E-05	1.05E-04	1.32E-04	2.49E-05	6.27E-04
493596.58000	3626548.96000	7.31E-05	9.07E-05	9.17E-05	1.00E-04	9.15E-05	1.15E-04	1.57E-05	5.78E-04
493596.58000	3626744.82000	5.71E-05	6.99E-05	6.69E-05	7.32E-05	6.96E-05	8.73E-05	9.25E-06	4.33E-04
493596.58000	3626940.68000	4.93E-05	6.59E-05	6.77E-05	7.43E-05	6.52E-05	8.01E-05	7.13E-06	4.10E-04
493596.58000	3627136.54000	4.68E-05	6.12E-05	4.03E-05	4.97E-05	6.34E-05	7.87E-05	6.05E-06	3.46E-04
493596.58000	3627332.40000	2.59E-05	1.87E-05	1.45E-05	1.78E-05	2.30E-05	3.06E-05	5.01E-06	1.36E-04
493596.58000	3627528.26000	3.11E-05	4.33E-05	3.77E-05	4.08E-05	4.44E-05	5.39E-05	4.22E-06	2.55E-04
493596.58000	3627724.12000	2.24E-05	1.99E-05	1.54E-05	1.83E-05	2.30E-05	3.04E-05	3.85E-06	1.33E-04
493596.58000	3627919.98000	2.12E-05	2.07E-05	1.69E-05	1.98E-05	2.36E-05	3.53E-05	3.49E-06	1.41E-04
493596.58000	3628115.84000	1.88E-05	2.49E-05	2.30E-05	2.56E-05	2.66E-05	3.22E-05	2.96E-06	1.54E-04
493596.58000	3628311.70000	1.60E-05	2.11E-05	2.12E-05	2.39E-05	2.26E-05	2.72E-05	2.48E-06	1.35E-04
493596.58000	3628507.56000	1.37E-05	1.78E-05	1.85E-05	2.18E-05	1.92E-05	2.30E-05	2.25E-06	1.16E-04
493790.68000	3624590.36000	3.46E-05	1.94E-05	1.76E-05	2.27E-05	2.63E-05	3.49E-05	8.05E-06	1.64E-04
493790.68000	3624786.22000	4.10E-05	1.71E-05	1.54E-05	2.01E-05	2.48E-05	3.33E-05	9.54E-06	1.61E-04
493790.68000	3624982.08000	5.10E-05	1.90E-05	1.73E-05	2.15E-05	2.67E-05	3.55E-05	1.10E-05	1.82E-04
493790.68000	3625177.94000	6.65E-05	2.20E-05	1.96E-05	2.41E-05	2.98E-05	3.98E-05	1.24E-05	2.14E-04
493790.68000	3625373.80000	8.58E-05	3.85E-05	3.39E-05	4.17E-05	5.00E-05	6.74E-05	1.48E-05	3.32E-04
493790.68000	3625569.66000	9.02E-05	2.85E-05	2.49E-05	3.24E-05	4.15E-05	5.63E-05	1.63E-05	2.90E-04
493790.68000	3625765.52000	8.38E-05	3.33E-05	2.84E-05	3.59E-05	4.63E-05	6.42E-05	1.82E-05	3.10E-04
493790.68000	3625961.38000	9.19E-05	6.94E-05	5.67E-05	7.14E-05	8.88E-05	1.21E-04	2.08E-05	5.20E-04
493790.68000	3626157.24000	8.52E-05	8.70E-05	7.65E-05	8.74E-05	9.69E-05	1.25E-04	2.31E-05	5.81E-04
493790.68000	3626353.10000	6.96E-05	6.89E-05	5.93E-05	6.58E-05	7.41E-05	9.49E-05	1.74E-05	4.50E-04
493790.68000	3626548.96000	6.15E-05	7.45E-05	6.91E-05	7.47E-05	7.72E-05	9.80E-05	1.23E-05	4.67E-04
493790.68000	3626744.82000	4.41E-05	5.06E-05	4.94E-05	5.56E-05	5.22E-05	6.56E-05	7.36E-06	3.25E-04
493790.68000	3626940.68000	4.51E-05	5.61E-05	4.65E-05	5.10E-05	5.72E-05	7.19E-05	6.01E-06	3.34E-04
493790.68000	3627136.54000	2.43E-05	1.30E-05	1.06E-05	1.32E-05	1.67E-05	2.26E-05	5.17E-06	1.06E-04
493790.68000	3627332.40000	1.89E-05	9.19E-06	8.00E-06	1.00E-05	1.24E-05	1.62E-05	4.50E-06	7.92E-05
493790.68000	3627528.26000	1.84E-05	1.12E-05	9.04E-06	1.13E-05	1.43E-05	1.90E-05	3.77E-06	8.70E-05
493790.68000	3627724.12000	1.38E-05	6.38E-06	5.60E-06	7.11E-06	8.73E-06	1.17E-05	3.49E-06	5.68E-05
493790.68000	3627919.98000	1.34E-05	7.59E-06	6.11E-06	7.67E-06	9.80E-06	1.34E-05	3.10E-06	6.11E-05
493790.68000	3628115.84000	1.28E-05	8.89E-06	7.08E-06	8.69E-06	1.11E-05	1.49E-05	2.92E-06	6.64E-05
493790.68000	3628311.70000	1.35E-05	1.17E-05	9.79E-06	1.18E-05	1.39E-05	1.81E-05	2.53E-06	8.14E-05
493790.68000	3628507.56000	1.39E-05	1.30E-05	1.11E-05	1.34E-05	1.70E-05	2.24E-05	2.14E-06	9.30E-05
493984.78000	3624590.36000	3.19E-05	1.53E-05	1.40E-05	1.78E-05	2.18E-05	2.88E-05	8.25E-06	1.38E-04
493984.78000	3624786.22000	3.81E-05	1.71E-05	1.54E-05	1.91E-05	2.33E-05	3.08E-05	9.36E-06	1.53E-04
493984.78000	3624982.08000	4.57E-05	1.74E-05	1.57E-05	1.94E-05	2.38E-05	3.16E-05	1.02E-05	1.64E-04

Chronic Non-Cancer Health Risk-Offsite

493984.78000	3625177.94000	5.60E-05	1.88E-05	1.71E-05	2.16E-05	2.71E-05	3.64E-05	1.20E-05	1.89E-04
493984.78000	3625373.80000	6.57E-05	2.40E-05	2.13E-05	2.74E-05	3.45E-05	4.62E-05	1.37E-05	2.33E-04
493984.78000	3625569.66000	6.61E-05	2.85E-05	2.44E-05	3.07E-05	3.88E-05	5.28E-05	1.48E-05	2.56E-04
493984.78000	3625765.52000	6.47E-05	3.19E-05	2.70E-05	3.49E-05	4.57E-05	6.39E-05	1.66E-05	2.85E-04
493984.78000	3625961.38000	6.50E-05	4.51E-05	3.74E-05	4.68E-05	5.79E-05	7.69E-05	1.85E-05	3.48E-04
493984.78000	3626157.24000	5.87E-05	5.06E-05	4.32E-05	5.06E-05	5.92E-05	7.54E-05	1.73E-05	3.55E-04
493984.78000	3626353.10000	5.28E-05	5.06E-05	4.46E-05	5.00E-05	5.55E-05	7.22E-05	1.29E-05	3.39E-04
493984.78000	3626548.96000	4.56E-05	5.38E-05	5.32E-05	5.99E-05	5.69E-05	7.14E-05	9.71E-06	3.51E-04
493984.78000	3626744.82000	3.53E-05	3.89E-05	3.86E-05	4.42E-05	4.12E-05	5.16E-05	6.24E-06	2.56E-04
493984.78000	3626940.68000	3.22E-05	3.84E-05	3.93E-05	4.47E-05	3.98E-05	4.90E-05	4.84E-06	2.48E-04
493984.78000	3627136.54000	2.14E-05	1.11E-05	9.21E-06	1.14E-05	1.43E-05	1.93E-05	4.36E-06	9.10E-05
493984.78000	3627332.40000	1.14E-05	5.62E-06	5.42E-06	6.80E-06	8.02E-06	1.04E-05	4.17E-06	5.18E-05
493984.78000	3627528.26000	8.76E-06	4.51E-06	4.52E-06	5.73E-06	6.64E-06	8.46E-06	3.65E-06	4.23E-05
493984.78000	3627724.12000	3.11E-06	2.41E-06	2.72E-06	3.46E-06	3.85E-06	4.83E-06	2.85E-06	2.32E-05
493984.78000	3627919.98000	2.04E-06	1.81E-06	2.06E-06	2.63E-06	2.92E-06	3.72E-06	2.29E-06	1.75E-05
493984.78000	3628115.84000	4.36E-06	2.50E-06	2.57E-06	3.27E-06	3.83E-06	5.04E-06	2.62E-06	2.42E-05
493984.78000	3628311.70000	4.46E-06	2.59E-06	2.61E-06	3.29E-06	3.92E-06	5.16E-06	2.61E-06	2.46E-05
493984.78000	3628507.56000	8.04E-06	4.10E-06	3.60E-06	4.56E-06	5.66E-06	7.53E-06	2.39E-06	3.59E-05
494178.88000	3624590.36000	2.93E-05	1.42E-05	1.29E-05	1.60E-05	1.94E-05	2.54E-05	7.87E-06	1.25E-04
494178.88000	3624786.22000	3.44E-05	1.50E-05	1.36E-05	1.69E-05	2.06E-05	2.72E-05	8.64E-06	1.36E-04
494178.88000	3624982.08000	4.17E-05	1.70E-05	1.54E-05	1.96E-05	2.44E-05	3.27E-05	9.85E-06	1.61E-04
494178.88000	3625177.94000	4.86E-05	1.98E-05	1.78E-05	2.28E-05	2.83E-05	3.76E-05	1.15E-05	1.86E-04
494178.88000	3625373.80000	5.21E-05	2.40E-05	2.10E-05	2.63E-05	3.26E-05	4.34E-05	1.27E-05	2.12E-04
494178.88000	3625569.66000	5.20E-05	2.64E-05	2.26E-05	2.88E-05	3.69E-05	5.09E-05	1.34E-05	2.31E-04
494178.88000	3625765.52000	5.40E-05	3.55E-05	2.98E-05	3.82E-05	4.80E-05	6.45E-05	1.54E-05	2.85E-04
494178.88000	3625961.38000	4.96E-05	3.74E-05	3.24E-05	3.91E-05	4.69E-05	6.11E-05	1.61E-05	2.83E-04
494178.88000	3626157.24000	4.35E-05	3.53E-05	3.09E-05	3.63E-05	4.22E-05	5.34E-05	1.34E-05	2.55E-04
494178.88000	3626353.10000	3.83E-05	4.27E-05	4.37E-05	5.01E-05	4.67E-05	5.85E-05	9.80E-06	2.90E-04
494178.88000	3626548.96000	3.27E-05	3.50E-05	3.53E-05	4.10E-05	3.85E-05	4.82E-05	7.49E-06	2.38E-04
494178.88000	3626744.82000	2.94E-05	3.23E-05	3.28E-05	3.79E-05	3.47E-05	4.33E-05	5.47E-06	2.16E-04
494178.88000	3626940.68000	3.09E-05	2.68E-05	2.25E-05	2.61E-05	3.01E-05	4.54E-05	4.37E-06	1.86E-04
494178.88000	3627136.54000	2.26E-05	1.71E-05	1.37E-05	1.64E-05	2.01E-05	2.67E-05	3.65E-06	1.20E-04
494178.88000	3627332.40000	1.36E-05	5.75E-06	5.25E-06	6.62E-06	7.97E-06	1.06E-05	3.49E-06	5.33E-05
494178.88000	3627528.26000	2.96E-06	2.51E-06	2.77E-06	3.50E-06	3.96E-06	4.97E-06	2.88E-06	2.36E-05
494178.88000	3627724.12000	1.06E-06	1.37E-06	1.58E-06	2.06E-06	2.29E-06	2.84E-06	1.75E-06	1.30E-05
494178.88000	3627919.98000	7.00E-07	1.01E-06	1.20E-06	1.57E-06	1.71E-06	2.10E-06	1.35E-06	9.63E-06
494178.88000	3628115.84000	6.68E-07	8.85E-07	1.06E-06	1.40E-06	1.52E-06	1.93E-06	1.22E-06	8.68E-06
494178.88000	3628311.70000	6.15E-07	7.82E-07	9.35E-07	1.24E-06	1.36E-06	1.69E-06	1.09E-06	7.70E-06
494178.88000	3628507.56000	8.26E-07	9.16E-07	1.04E-06	1.35E-06	1.52E-06	1.92E-06	1.22E-06	8.79E-06
494372.98000	3624590.36000	2.83E-05	1.50E-05	1.36E-05	1.69E-05	2.01E-05	2.65E-05	7.41E-06	1.28E-04
494372.98000	3624786.22000	3.22E-05	1.47E-05	1.34E-05	1.72E-05	2.12E-05	2.83E-05	8.43E-06	1.36E-04
494372.98000	3624982.08000	3.93E-05	2.02E-05	1.80E-05	2.29E-05	2.78E-05	3.65E-05	9.82E-06	1.75E-04
494372.98000	3625177.94000	4.15E-05	2.07E-05	1.83E-05	2.29E-05	2.80E-05	3.69E-05	1.09E-05	1.79E-04
494372.98000	3625373.80000	4.26E-05	2.26E-05	1.98E-05	2.48E-05	3.09E-05	4.19E-05	1.15E-05	1.94E-04
494372.98000	3625569.66000	4.40E-05	2.73E-05	2.34E-05	3.00E-05	3.79E-05	5.16E-05	1.27E-05	2.27E-04
494372.98000	3625765.52000	4.44E-05	3.61E-05	3.14E-05	3.83E-05	4.48E-05	5.84E-05	1.38E-05	2.67E-04
494372.98000	3625961.38000	4.12E-05	4.25E-05	4.17E-05	4.82E-05	4.94E-05	6.24E-05	1.32E-05	2.99E-04
494372.98000	3626157.24000	3.65E-05	3.35E-05	3.01E-05	3.49E-05	3.88E-05	4.91E-05	1.05E-05	2.33E-04
494372.98000	3626353.10000	3.24E-05	2.84E-05	2.55E-05	2.94E-05	3.31E-05	4.34E-05	8.32E-06	2.01E-04
494372.98000	3626548.96000	2.71E-05	2.90E-05	2.95E-05	3.45E-05	3.22E-05	4.03E-05	6.39E-06	1.99E-04
494372.98000	3626744.82000	2.55E-05	2.85E-05	2.91E-05	3.38E-05	3.09E-05	3.84E-05	4.96E-06	1.91E-04
494372.98000	3626940.68000	2.38E-05	1.93E-05	1.64E-05	1.92E-05	2.21E-05	2.90E-05	3.86E-06	1.34E-04
494372.98000	3627136.54000	1.74E-05	9.98E-06	8.31E-06	1.02E-05	1.26E-05	1.67E-05	3.38E-06	7.85E-05

Chronic Non-Cancer Health Risk-Offsite

494372.98000	3627332.40000	1.35E-05	5.86E-06	5.17E-06	6.53E-06	7.95E-06	1.06E-05	3.03E-06	5.26E-05
494372.98000	3627528.26000	2.74E-06	2.27E-06	2.48E-06	3.12E-06	3.52E-06	4.48E-06	2.55E-06	2.12E-05
494372.98000	3627724.12000	8.26E-07	1.11E-06	1.31E-06	1.71E-06	1.90E-06	2.37E-06	1.50E-06	1.07E-05
494372.98000	3627919.98000	6.58E-07	9.22E-07	1.07E-06	1.40E-06	1.55E-06	1.94E-06	1.22E-06	8.76E-06
494372.98000	3628115.84000	5.53E-07	7.81E-07	9.29E-07	1.21E-06	1.32E-06	1.64E-06	1.07E-06	7.50E-06
494372.98000	3628311.70000	5.02E-07	6.84E-07	8.24E-07	1.09E-06	1.17E-06	1.48E-06	9.69E-07	6.72E-06
494372.98000	3628507.56000	4.98E-07	6.34E-07	7.54E-07	1.00E-06	1.10E-06	1.37E-06	8.76E-07	6.23E-06
494567.08000	3624590.36000	2.64E-05	1.86E-05	1.85E-05	2.29E-05	2.37E-05	3.05E-05	7.28E-06	1.48E-04
494567.08000	3624786.22000	3.19E-05	2.04E-05	1.90E-05	2.38E-05	2.70E-05	3.50E-05	8.43E-06	1.65E-04
494567.08000	3624982.08000	3.39E-05	1.87E-05	1.67E-05	2.08E-05	2.50E-05	3.29E-05	9.38E-06	1.57E-04
494567.08000	3625177.94000	3.54E-05	2.01E-05	1.78E-05	2.20E-05	2.68E-05	3.59E-05	1.00E-05	1.68E-04
494567.08000	3625373.80000	3.69E-05	2.28E-05	1.99E-05	2.53E-05	3.15E-05	4.27E-05	1.08E-05	1.90E-04
494567.08000	3625569.66000	3.86E-05	3.27E-05	2.92E-05	3.61E-05	4.12E-05	5.33E-05	1.18E-05	2.43E-04
494567.08000	3625765.52000	3.55E-05	2.91E-05	2.59E-05	3.12E-05	3.64E-05	4.70E-05	1.23E-05	2.17E-04
494567.08000	3625961.38000	3.16E-05	2.56E-05	2.29E-05	2.74E-05	3.16E-05	4.02E-05	1.08E-05	1.90E-04
494567.08000	3626157.24000	2.81E-05	2.25E-05	2.03E-05	2.39E-05	2.71E-05	3.47E-05	8.48E-06	1.65E-04
494567.08000	3626353.10000	2.85E-05	3.03E-05	2.81E-05	3.26E-05	3.42E-05	4.37E-05	7.15E-06	2.05E-04
494567.08000	3626548.96000	2.30E-05	2.48E-05	2.53E-05	2.98E-05	2.78E-05	3.46E-05	5.67E-06	1.71E-04
494567.08000	3626744.82000	2.39E-05	2.65E-05	2.54E-05	2.87E-05	2.90E-05	3.65E-05	4.66E-06	1.74E-04
494567.08000	3626940.68000	1.99E-05	1.58E-05	1.35E-05	1.60E-05	1.83E-05	2.39E-05	3.50E-06	1.11E-04
494567.08000	3627136.54000	1.46E-05	7.63E-06	6.53E-06	8.12E-06	9.89E-06	1.30E-05	3.14E-06	6.30E-05
494567.08000	3627332.40000	7.81E-06	3.88E-06	3.76E-06	4.78E-06	5.64E-06	7.35E-06	2.87E-06	3.61E-05
494567.08000	3627528.26000	3.24E-06	2.27E-06	2.45E-06	3.10E-06	3.51E-06	4.47E-06	2.39E-06	2.14E-05
494567.08000	3627724.12000	1.12E-06	1.27E-06	1.47E-06	1.89E-06	2.09E-06	2.59E-06	1.62E-06	1.21E-05
494567.08000	3627919.98000	6.43E-07	8.57E-07	9.96E-07	1.32E-06	1.48E-06	1.86E-06	1.16E-06	8.31E-06
494567.08000	3628115.84000	5.42E-07	7.48E-07	8.75E-07	1.14E-06	1.25E-06	1.57E-06	9.90E-07	7.11E-06
494567.08000	3628311.70000	5.03E-07	6.77E-07	8.01E-07	1.05E-06	1.14E-06	1.43E-06	9.18E-07	6.52E-06
494567.08000	3628507.56000	4.80E-07	6.21E-07	7.41E-07	9.79E-07	1.07E-06	1.33E-06	8.58E-07	6.08E-06
494761.18000	3624590.36000	2.58E-05	1.64E-05	1.50E-05	1.90E-05	2.20E-05	2.86E-05	7.30E-06	1.34E-04
494761.18000	3624786.22000	2.90E-05	2.02E-05	1.88E-05	2.30E-05	2.58E-05	3.33E-05	8.25E-06	1.58E-04
494761.18000	3624982.08000	3.08E-05	2.15E-05	1.98E-05	2.41E-05	2.73E-05	3.59E-05	8.63E-06	1.68E-04
494761.18000	3625177.94000	3.11E-05	1.95E-05	1.73E-05	2.19E-05	2.66E-05	3.57E-05	9.37E-06	1.62E-04
494761.18000	3625373.80000	3.18E-05	2.24E-05	1.97E-05	2.51E-05	3.06E-05	4.05E-05	1.05E-05	1.81E-04
494761.18000	3625569.66000	3.20E-05	3.04E-05	2.86E-05	3.41E-05	3.66E-05	4.69E-05	1.08E-05	2.19E-04
494761.18000	3625765.52000	3.03E-05	2.79E-05	2.58E-05	3.07E-05	3.39E-05	4.29E-05	1.04E-05	2.02E-04
494761.18000	3625961.38000	2.74E-05	2.93E-05	2.91E-05	3.43E-05	3.42E-05	4.27E-05	9.20E-06	2.06E-04
494761.18000	3626157.24000	2.44E-05	2.66E-05	2.70E-05	3.16E-05	3.04E-05	3.82E-05	7.08E-06	1.85E-04
494761.18000	3626353.10000	2.38E-05	2.21E-05	2.03E-05	2.38E-05	2.59E-05	3.36E-05	6.16E-06	1.56E-04
494761.18000	3626548.96000	1.98E-05	2.14E-05	2.19E-05	2.59E-05	2.42E-05	3.01E-05	5.03E-06	1.48E-04
494761.18000	3626744.82000	2.12E-05	2.08E-05	1.75E-05	2.09E-05	2.45E-05	3.14E-05	4.15E-06	1.41E-04
494761.18000	3626940.68000	1.60E-05	1.11E-05	9.55E-06	1.15E-05	1.34E-05	1.75E-05	3.25E-06	8.23E-05
494761.18000	3627136.54000	6.62E-06	3.47E-06	3.47E-06	4.42E-06	5.21E-06	6.77E-06	3.01E-06	3.30E-05
494761.18000	3627332.40000	1.25E-06	1.38E-06	1.55E-06	2.00E-06	2.29E-06	2.88E-06	1.71E-06	1.31E-05
494761.18000	3627528.26000	8.84E-07	1.09E-06	1.26E-06	1.64E-06	1.81E-06	2.23E-06	1.33E-06	1.02E-05
494761.18000	3627724.12000	6.68E-07	8.83E-07	1.03E-06	1.34E-06	1.45E-06	1.80E-06	1.15E-06	8.31E-06
494761.18000	3627919.98000	5.93E-07	7.65E-07	9.21E-07	1.21E-06	1.34E-06	1.67E-06	1.09E-06	7.60E-06
494761.18000	3628115.84000	5.48E-07	7.14E-07	8.27E-07	1.09E-06	1.22E-06	1.56E-06	9.56E-07	6.92E-06
494761.18000	3628311.70000	5.41E-07	6.93E-07	8.04E-07	1.05E-06	1.16E-06	1.45E-06	8.98E-07	6.60E-06
494761.18000	3628507.56000	5.13E-07	6.35E-07	7.51E-07	9.86E-07	1.07E-06	1.34E-06	8.46E-07	6.13E-06
492402.89000	3626460.63000	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
492427.42000	3626474.80000	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
492431.78000	3626430.65000	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
492447.59000	3626418.66000	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04

Chronic Non-Cancer Health Risk-Offsite

492450.86000	3626492.79000	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
492463.94000	3626507.51000	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
492466.12000	3626447.00000	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
492467.76000	3626523.32000	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
492477.02000	3626546.76000	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
492479.21000	3626464.45000	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
492479.21000	3626572.92000	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
492481.93000	3626620.35000	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
492482.48000	3626594.18000	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
492490.65000	3626485.70000	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
492491.20000	3626644.88000	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
492501.01000	3626506.42000	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
492512.46000	3626553.84000	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
492513.55000	3626533.13000	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
492517.36000	3626636.70000	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
492521.18000	3626603.45000	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
492521.72000	3626582.19000	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
492599.16000	3626405.39000	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04
492606.85000	3626435.54000	5.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-04
492774.75000	3626728.05000	0.00E+00	3.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-03
493013.27000	3625844.49000	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
492723.78000	3626582.16000	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03
492761.18000	3626553.82000	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
492674.05000	3626738.96000	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
492708.49000	3626698.47000	0.00E+00	2.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03
492703.25000	3626652.75000	0.00E+00	4.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-03
492731.11000	3626741.92000	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
492743.19000	3626628.92000	0.00E+00	6.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-03
492723.78000	3626582.16000	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
492794.41000	3626665.12000	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03
492761.18000	3626553.82000	0.00E+00	0.00E+00	8.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-04
493013.27000	3625844.49000	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
492798.96000	3626618.56000	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
492703.25000	3626652.75000	0.00E+00	0.00E+00	2.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03
492743.19000	3626628.92000	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
492731.11000	3626741.92000	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	0.00E+00	0.00E+00	2.97E-03
492774.75000	3626728.05000	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	2.03E-03
493013.27000	3625844.49000	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	1.30E-04
492791.92000	3626663.04000	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	0.00E+00	0.00E+00	2.41E-03
493039.78000	3625834.45000	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	1.70E-04
492731.11000	3626741.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	1.23E-03
493013.27000	3625844.49000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	1.45E-04
492774.75000	3626728.05000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	1.28E-03
492674.05000	3626738.96000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	1.29E-03
492708.49000	3626698.47000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03	0.00E+00	0.00E+00	2.43E-03
492791.92000	3626663.04000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	2.56E-03
493039.78000	3625834.45000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	1.85E-04
492791.92000	3626663.04000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	1.94E-03
493013.27000	3625844.49000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	1.69E-04
492708.49000	3626698.47000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	1.42E-03
492703.25000	3626652.75000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	2.47E-03
492731.11000	3626741.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-04	0.00E+00	9.21E-04
492774.75000	3626728.05000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-04	0.00E+00	9.97E-04

Chronic Non-Cancer Health Risk-Offsite

[illegible]

Chronic Non-Cancer Health Risk-Onsite

X	Y	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Operation	Max HI
490879.18000	3624590.36000	2.56E-05	1.95E-05	1.97E-05	2.46E-05	2.48E-05	3.18E-05	7.29E-06	1.53E-04
490879.18000	3624786.22000	2.78E-05	2.31E-05	2.34E-05	2.93E-05	2.97E-05	3.79E-05	8.32E-06	1.80E-04
490879.18000	3624982.08000	2.72E-05	2.31E-05	2.28E-05	2.88E-05	3.02E-05	3.90E-05	8.32E-06	1.79E-04
490879.18000	3625177.94000	2.83E-05	2.72E-05	2.69E-05	3.42E-05	3.58E-05	4.62E-05	9.47E-06	2.08E-04
490879.18000	3625373.80000	2.85E-05	3.17E-05	3.17E-05	4.08E-05	4.20E-05	5.29E-05	1.08E-05	2.39E-04
490879.18000	3625569.66000	2.82E-05	3.41E-05	3.57E-05	4.64E-05	4.52E-05	5.50E-05	1.11E-05	2.56E-04
490879.18000	3625765.52000	2.64E-05	3.37E-05	3.60E-05	4.71E-05	4.44E-05	5.30E-05	1.04E-05	2.51E-04
490879.18000	3625961.38000	2.38E-05	3.17E-05	3.47E-05	4.55E-05	4.15E-05	4.84E-05	9.44E-06	2.35E-04
490879.18000	3626157.24000	2.18E-05	2.84E-05	3.12E-05	4.08E-05	3.66E-05	4.30E-05	7.92E-06	2.10E-04
490879.18000	3626353.10000	2.06E-05	2.63E-05	2.85E-05	3.72E-05	3.43E-05	4.05E-05	7.57E-06	1.95E-04
490879.18000	3626548.96000	1.89E-05	2.47E-05	2.71E-05	3.53E-05	3.18E-05	3.69E-05	7.03E-06	1.82E-04
490879.18000	3626744.82000	1.73E-05	2.14E-05	2.35E-05	3.04E-05	2.73E-05	3.20E-05	5.64E-06	1.57E-04
490879.18000	3626940.68000	1.60E-05	1.94E-05	2.08E-05	2.68E-05	2.49E-05	2.92E-05	4.56E-06	1.42E-04
490879.18000	3627136.54000	1.50E-05	1.83E-05	1.96E-05	2.53E-05	2.36E-05	2.75E-05	4.52E-06	1.34E-04
490879.18000	3627332.40000	1.40E-05	1.71E-05	1.82E-05	2.34E-05	2.17E-05	2.52E-05	3.89E-06	1.23E-04
490879.18000	3627528.26000	1.29E-05	1.58E-05	1.69E-05	2.15E-05	1.99E-05	2.30E-05	3.39E-06	1.13E-04
490879.18000	3627724.12000	1.20E-05	1.44E-05	1.53E-05	1.95E-05	1.78E-05	2.09E-05	2.76E-06	1.03E-04
490879.18000	3627919.98000	1.12E-05	1.33E-05	1.40E-05	1.77E-05	1.62E-05	1.92E-05	2.50E-06	9.41E-05
490879.18000	3628115.84000	1.04E-05	1.24E-05	1.31E-05	1.66E-05	1.53E-05	1.80E-05	2.60E-06	8.83E-05
490879.18000	3628311.70000	9.67E-06	1.15E-05	1.21E-05	1.54E-05	1.42E-05	1.69E-05	2.56E-06	8.24E-05
490879.18000	3628507.56000	8.95E-06	1.07E-05	1.12E-05	1.42E-05	1.30E-05	1.57E-05	2.40E-06	7.61E-05
491073.28000	3624590.36000	2.74E-05	1.95E-05	1.98E-05	2.47E-05	2.47E-05	3.15E-05	7.24E-06	1.55E-04
491073.28000	3624786.22000	2.86E-05	2.06E-05	2.07E-05	2.58E-05	2.64E-05	3.40E-05	7.88E-06	1.64E-04
491073.28000	3624982.08000	3.35E-05	2.84E-05	2.84E-05	3.56E-05	3.62E-05	4.66E-05	9.45E-06	2.18E-04
491073.28000	3625177.94000	3.60E-05	3.48E-05	3.47E-05	4.37E-05	4.48E-05	5.77E-05	1.10E-05	2.63E-04
491073.28000	3625373.80000	3.33E-05	3.44E-05	3.41E-05	4.36E-05	4.54E-05	5.87E-05	1.19E-05	2.61E-04
491073.28000	3625569.66000	3.37E-05	4.02E-05	4.11E-05	5.32E-05	5.33E-05	6.59E-05	1.30E-05	3.00E-04
491073.28000	3625765.52000	3.27E-05	4.32E-05	4.68E-05	6.13E-05	5.69E-05	6.79E-05	1.34E-05	3.22E-04
491073.28000	3625961.38000	2.86E-05	3.90E-05	4.23E-05	5.56E-05	5.09E-05	5.96E-05	1.08E-05	2.87E-04
491073.28000	3626157.24000	2.60E-05	3.51E-05	3.90E-05	5.13E-05	4.56E-05	5.30E-05	9.58E-06	2.60E-04
491073.28000	3626353.10000	2.56E-05	3.50E-05	3.97E-05	5.21E-05	4.52E-05	5.29E-05	9.92E-06	2.60E-04
491073.28000	3626548.96000	2.23E-05	3.01E-05	3.36E-05	4.39E-05	3.87E-05	4.46E-05	8.12E-06	2.21E-04
491073.28000	3626744.82000	2.03E-05	2.63E-05	2.95E-05	3.82E-05	3.33E-05	3.89E-05	6.70E-06	1.93E-04
491073.28000	3626940.68000	1.84E-05	2.28E-05	2.46E-05	3.18E-05	2.93E-05	3.43E-05	5.12E-06	1.66E-04
491073.28000	3627136.54000	1.71E-05	2.13E-05	2.29E-05	2.97E-05	2.75E-05	3.16E-05	4.95E-06	1.55E-04
491073.28000	3627332.40000	1.58E-05	1.98E-05	2.11E-05	2.72E-05	2.49E-05	2.88E-05	4.21E-06	1.42E-04
491073.28000	3627528.26000	1.45E-05	1.80E-05	1.93E-05	2.46E-05	2.24E-05	2.60E-05	3.46E-06	1.28E-04
491073.28000	3627724.12000	1.34E-05	1.63E-05	1.73E-05	2.20E-05	1.99E-05	2.33E-05	2.87E-06	1.15E-04
491073.28000	3627919.98000	1.23E-05	1.50E-05	1.59E-05	2.02E-05	1.84E-05	2.16E-05	2.91E-06	1.06E-04
491073.28000	3628115.84000	1.14E-05	1.38E-05	1.47E-05	1.86E-05	1.71E-05	2.01E-05	2.92E-06	9.86E-05
491073.28000	3628311.70000	1.05E-05	1.28E-05	1.35E-05	1.70E-05	1.55E-05	1.86E-05	2.75E-06	9.05E-05
491073.28000	3628507.56000	9.56E-06	1.16E-05	1.23E-05	1.54E-05	1.40E-05	1.68E-05	2.36E-06	8.19E-05
491267.38000	3624590.36000	2.80E-05	1.85E-05	1.87E-05	2.34E-05	2.31E-05	2.94E-05	6.68E-06	1.48E-04
491267.38000	3624786.22000	3.41E-05	2.38E-05	2.38E-05	2.97E-05	2.99E-05	3.85E-05	8.17E-06	1.88E-04
491267.38000	3624982.08000	3.60E-05	2.72E-05	2.72E-05	3.40E-05	3.44E-05	4.45E-05	9.24E-06	2.12E-04
491267.38000	3625177.94000	3.94E-05	3.42E-05	3.39E-05	4.25E-05	4.34E-05	5.65E-05	1.08E-05	2.61E-04
491267.38000	3625373.80000	3.77E-05	3.47E-05	3.37E-05	4.29E-05	4.57E-05	5.97E-05	1.09E-05	2.65E-04
491267.38000	3625569.66000	4.46E-05	5.26E-05	5.27E-05	6.75E-05	6.85E-05	8.70E-05	1.48E-05	3.88E-04
491267.38000	3625765.52000	3.87E-05	4.89E-05	5.04E-05	6.58E-05	6.49E-05	7.92E-05	1.42E-05	3.62E-04
491267.38000	3625961.38000	3.52E-05	4.84E-05	5.21E-05	6.89E-05	6.36E-05	7.50E-05	1.29E-05	3.56E-04
491267.38000	3626157.24000	3.57E-05	5.47E-05	6.31E-05	8.32E-05	6.99E-05	7.91E-05	1.35E-05	3.99E-04

Chronic Non-Cancer Health Risk-Onsite

491267.38000	3626353.10000	3.07E-05	4.33E-05	5.00E-05	6.60E-05	5.57E-05	6.47E-05	1.15E-05	3.22E-04
491267.38000	3626548.96000	2.60E-05	3.55E-05	3.91E-05	5.14E-05	4.56E-05	5.22E-05	8.57E-06	2.58E-04
491267.38000	3626744.82000	2.34E-05	3.05E-05	3.38E-05	4.40E-05	3.87E-05	4.50E-05	7.20E-06	2.23E-04
491267.38000	3626940.68000	2.14E-05	2.73E-05	2.96E-05	3.86E-05	3.52E-05	4.08E-05	5.88E-06	1.99E-04
491267.38000	3627136.54000	1.97E-05	2.53E-05	2.74E-05	3.55E-05	3.24E-05	3.70E-05	5.32E-06	1.83E-04
491267.38000	3627332.40000	1.80E-05	2.31E-05	2.49E-05	3.21E-05	2.89E-05	3.32E-05	4.52E-06	1.65E-04
491267.38000	3627528.26000	1.64E-05	2.06E-05	2.21E-05	2.83E-05	2.54E-05	2.95E-05	3.54E-06	1.46E-04
491267.38000	3627724.12000	1.49E-05	1.87E-05	1.99E-05	2.54E-05	2.28E-05	2.67E-05	3.36E-06	1.32E-04
491267.38000	3627919.98000	1.36E-05	1.71E-05	1.82E-05	2.32E-05	2.10E-05	2.46E-05	3.36E-06	1.21E-04
491267.38000	3628115.84000	1.24E-05	1.55E-05	1.65E-05	2.09E-05	1.89E-05	2.25E-05	3.20E-06	1.10E-04
491267.38000	3628311.70000	1.12E-05	1.40E-05	1.49E-05	1.86E-05	1.67E-05	2.00E-05	2.69E-06	9.82E-05
491267.38000	3628507.56000	1.02E-05	1.25E-05	1.32E-05	1.65E-05	1.48E-05	1.78E-05	2.45E-06	8.75E-05
491461.48000	3624590.36000	2.97E-05	1.97E-05	1.99E-05	2.47E-05	2.46E-05	3.12E-05	6.48E-06	1.56E-04
491461.48000	3624786.22000	3.70E-05	2.43E-05	2.42E-05	3.00E-05	3.03E-05	3.86E-05	7.78E-06	1.92E-04
491461.48000	3624982.08000	4.21E-05	2.88E-05	2.85E-05	3.55E-05	3.61E-05	4.66E-05	9.03E-06	2.27E-04
491461.48000	3625177.94000	4.14E-05	2.95E-05	2.91E-05	3.66E-05	3.76E-05	4.94E-05	1.01E-05	2.34E-04
491461.48000	3625373.80000	4.97E-05	4.51E-05	4.34E-05	5.45E-05	5.74E-05	7.59E-05	1.26E-05	3.39E-04
491461.48000	3625569.66000	5.38E-05	5.74E-05	5.54E-05	7.02E-05	7.43E-05	9.73E-05	1.50E-05	4.23E-04
491461.48000	3625765.52000	4.74E-05	5.56E-05	5.41E-05	7.02E-05	7.36E-05	9.32E-05	1.46E-05	4.09E-04
491461.48000	3625961.38000	4.44E-05	6.12E-05	6.47E-05	8.57E-05	8.14E-05	9.70E-05	1.64E-05	4.51E-04
491461.48000	3626157.24000	4.60E-05	7.36E-05	8.36E-05	1.11E-04	9.43E-05	1.06E-04	1.68E-05	5.31E-04
491461.48000	3626353.10000	3.60E-05	5.11E-05	5.86E-05	7.81E-05	6.65E-05	7.68E-05	1.32E-05	3.80E-04
491461.48000	3626548.96000	3.31E-05	4.92E-05	5.69E-05	7.54E-05	6.25E-05	7.05E-05	1.12E-05	3.59E-04
491461.48000	3626744.82000	2.79E-05	3.77E-05	4.23E-05	5.53E-05	4.79E-05	5.53E-05	8.32E-06	2.75E-04
491461.48000	3626940.68000	2.54E-05	3.36E-05	3.66E-05	4.80E-05	4.32E-05	4.96E-05	6.85E-06	2.43E-04
491461.48000	3627136.54000	2.30E-05	3.05E-05	3.32E-05	4.33E-05	3.86E-05	4.40E-05	5.83E-06	2.19E-04
491461.48000	3627332.40000	2.07E-05	2.72E-05	2.96E-05	3.81E-05	3.38E-05	3.88E-05	4.70E-06	1.93E-04
491461.48000	3627528.26000	1.86E-05	2.42E-05	2.61E-05	3.34E-05	2.96E-05	3.44E-05	4.17E-06	1.70E-04
491461.48000	3627724.12000	1.68E-05	2.17E-05	2.33E-05	2.98E-05	2.67E-05	3.10E-05	4.02E-06	1.53E-04
491461.48000	3627919.98000	1.50E-05	1.95E-05	2.08E-05	2.64E-05	2.36E-05	2.78E-05	3.76E-06	1.37E-04
491461.48000	3628115.84000	1.34E-05	1.73E-05	1.84E-05	2.31E-05	2.05E-05	2.44E-05	3.19E-06	1.20E-04
491461.48000	3628311.70000	1.20E-05	1.52E-05	1.62E-05	2.01E-05	1.80E-05	2.15E-05	2.93E-06	1.06E-04
491461.48000	3628507.56000	1.08E-05	1.35E-05	1.43E-05	1.78E-05	1.60E-05	1.91E-05	2.78E-06	9.43E-05
491655.58000	3624590.36000	3.04E-05	2.01E-05	2.01E-05	2.50E-05	2.50E-05	3.19E-05	6.49E-06	1.59E-04
491655.58000	3624786.22000	3.87E-05	2.42E-05	2.39E-05	2.96E-05	3.01E-05	3.85E-05	7.54E-06	1.93E-04
491655.58000	3624982.08000	4.71E-05	2.92E-05	2.87E-05	3.55E-05	3.62E-05	4.66E-05	8.82E-06	2.32E-04
491655.58000	3625177.94000	5.36E-05	3.61E-05	3.49E-05	4.38E-05	4.51E-05	5.92E-05	1.05E-05	2.83E-04
491655.58000	3625373.80000	5.78E-05	4.54E-05	4.31E-05	5.45E-05	5.74E-05	7.69E-05	1.24E-05	3.47E-04
491655.58000	3625569.66000	5.47E-05	4.88E-05	4.75E-05	6.02E-05	6.28E-05	8.42E-05	1.39E-05	3.72E-04
491655.58000	3625765.52000	5.79E-05	6.01E-05	5.64E-05	7.27E-05	7.95E-05	1.06E-04	1.54E-05	4.48E-04
491655.58000	3625961.38000	6.79E-05	9.82E-05	9.81E-05	1.29E-04	1.29E-04	1.57E-04	2.12E-05	7.00E-04
491655.58000	3626157.24000	6.12E-05	1.01E-04	1.11E-04	1.50E-04	1.31E-04	1.48E-04	2.13E-05	7.23E-04
491655.58000	3626353.10000	5.33E-05	8.72E-05	1.02E-04	1.37E-04	1.11E-04	1.24E-04	1.76E-05	6.33E-04
491655.58000	3626548.96000	3.92E-05	5.85E-05	6.65E-05	8.93E-05	7.58E-05	8.49E-05	1.28E-05	4.27E-04
491655.58000	3626744.82000	3.40E-05	4.79E-05	5.44E-05	7.18E-05	6.09E-05	6.96E-05	9.09E-06	3.48E-04
491655.58000	3626940.68000	3.06E-05	4.24E-05	4.68E-05	6.19E-05	5.45E-05	6.16E-05	7.87E-06	3.06E-04
491655.58000	3627136.54000	2.71E-05	3.77E-05	4.14E-05	5.41E-05	4.71E-05	5.30E-05	6.17E-06	2.67E-04
491655.58000	3627332.40000	2.40E-05	3.26E-05	3.57E-05	4.61E-05	4.00E-05	4.58E-05	4.91E-06	2.29E-04
491655.58000	3627528.26000	2.13E-05	2.88E-05	3.13E-05	4.03E-05	3.54E-05	4.07E-05	4.94E-06	2.03E-04
491655.58000	3627724.12000	1.88E-05	2.55E-05	2.76E-05	3.51E-05	3.08E-05	3.60E-05	4.74E-06	1.79E-04
491655.58000	3627919.98000	1.65E-05	2.21E-05	2.38E-05	3.00E-05	2.62E-05	3.09E-05	3.94E-06	1.54E-04
491655.58000	3628115.84000	1.45E-05	1.91E-05	2.04E-05	2.55E-05	2.25E-05	2.67E-05	3.64E-06	1.32E-04

Chronic Non-Cancer Health Risk-Onsite

491655.58000	3628311.70000	1.29E-05	1.66E-05	1.77E-05	2.20E-05	1.96E-05	2.33E-05	3.31E-06	1.15E-04
491655.58000	3628507.56000	1.15E-05	1.45E-05	1.54E-05	1.91E-05	1.71E-05	2.05E-05	3.00E-06	1.01E-04
491849.68000	3624590.36000	3.04E-05	2.03E-05	2.04E-05	2.56E-05	2.55E-05	3.24E-05	6.43E-06	1.61E-04
491849.68000	3624786.22000	3.94E-05	2.42E-05	2.39E-05	2.99E-05	3.02E-05	3.87E-05	7.51E-06	1.94E-04
491849.68000	3624982.08000	5.12E-05	2.93E-05	2.85E-05	3.55E-05	3.64E-05	4.70E-05	8.79E-06	2.37E-04
491849.68000	3625177.94000	6.15E-05	3.61E-05	3.47E-05	4.32E-05	4.48E-05	5.83E-05	1.02E-05	2.89E-04
491849.68000	3625373.80000	6.67E-05	4.51E-05	4.29E-05	5.40E-05	5.63E-05	7.45E-05	1.19E-05	3.51E-04
491849.68000	3625569.66000	6.39E-05	5.02E-05	4.90E-05	6.19E-05	6.33E-05	8.55E-05	1.36E-05	3.87E-04
491849.68000	3625765.52000	6.88E-05	6.12E-05	5.61E-05	7.18E-05	8.00E-05	1.11E-04	1.51E-05	4.64E-04
491849.68000	3625961.38000	8.57E-05	1.10E-04	1.04E-04	1.34E-04	1.45E-04	1.89E-04	2.28E-05	7.90E-04
491849.68000	3626157.24000	7.74E-05	1.27E-04	1.37E-04	1.83E-04	1.67E-04	1.91E-04	2.56E-05	9.08E-04
491849.68000	3626353.10000	5.99E-05	9.67E-05	1.12E-04	1.55E-04	1.27E-04	1.40E-04	1.97E-05	7.11E-04
491849.68000	3626548.96000	5.02E-05	7.97E-05	9.23E-05	1.26E-04	1.04E-04	1.14E-04	1.54E-05	5.82E-04
491849.68000	3626744.82000	4.38E-05	6.63E-05	7.86E-05	1.05E-04	8.49E-05	9.58E-05	1.30E-05	4.88E-04
491849.68000	3626940.68000	3.78E-05	5.55E-05	6.23E-05	8.33E-05	7.11E-05	7.87E-05	9.11E-06	3.98E-04
491849.68000	3627136.54000	3.24E-05	4.73E-05	5.29E-05	6.93E-05	5.85E-05	6.55E-05	6.40E-06	3.32E-04
491849.68000	3627332.40000	2.80E-05	4.02E-05	4.44E-05	5.76E-05	4.91E-05	5.56E-05	5.73E-06	2.81E-04
491849.68000	3627528.26000	2.43E-05	3.47E-05	3.81E-05	4.89E-05	4.18E-05	4.82E-05	5.84E-06	2.42E-04
491849.68000	3627724.12000	2.10E-05	2.95E-05	3.22E-05	4.05E-05	3.47E-05	4.05E-05	5.01E-06	2.03E-04
491849.68000	3627919.98000	1.81E-05	2.50E-05	2.71E-05	3.39E-05	2.93E-05	3.44E-05	4.58E-06	1.72E-04
491849.68000	3628115.84000	1.58E-05	2.12E-05	2.29E-05	2.85E-05	2.49E-05	2.94E-05	4.14E-06	1.47E-04
491849.68000	3628311.70000	1.38E-05	1.81E-05	1.94E-05	2.41E-05	2.13E-05	2.53E-05	3.68E-06	1.26E-04
491849.68000	3628507.56000	1.21E-05	1.55E-05	1.65E-05	2.05E-05	1.83E-05	2.18E-05	3.18E-06	1.08E-04
492043.78000	3624590.36000	3.03E-05	2.10E-05	2.10E-05	2.64E-05	2.64E-05	3.36E-05	6.44E-06	1.65E-04
492043.78000	3624786.22000	3.89E-05	2.46E-05	2.44E-05	3.07E-05	3.09E-05	3.93E-05	7.32E-06	1.96E-04
492043.78000	3624982.08000	5.22E-05	2.93E-05	2.89E-05	3.63E-05	3.67E-05	4.70E-05	8.61E-06	2.39E-04
492043.78000	3625177.94000	6.94E-05	3.57E-05	3.49E-05	4.36E-05	4.43E-05	5.73E-05	1.05E-05	2.96E-04
492043.78000	3625373.80000	7.44E-05	3.72E-05	3.68E-05	4.62E-05	4.65E-05	6.09E-05	1.12E-05	3.13E-04
492043.78000	3625569.66000	7.37E-05	4.39E-05	4.10E-05	5.18E-05	5.58E-05	7.56E-05	1.13E-05	3.53E-04
492043.78000	3625765.52000	8.02E-05	6.01E-05	5.51E-05	7.04E-05	7.77E-05	1.09E-04	1.47E-05	4.67E-04
492043.78000	3625961.38000	9.40E-05	9.09E-05	8.17E-05	1.06E-04	1.21E-04	1.73E-04	2.10E-05	6.87E-04
492043.78000	3626157.24000	1.08E-04	1.59E-04	1.54E-04	2.03E-04	2.14E-04	2.68E-04	3.10E-05	1.14E-03
492043.78000	3626353.10000	1.01E-04	1.96E-04	2.22E-04	3.09E-04	2.62E-04	2.74E-04	3.15E-05	1.40E-03
492043.78000	3626548.96000	8.54E-05	1.55E-04	1.74E-04	2.27E-04	2.04E-04	2.18E-04	2.50E-05	1.09E-03
492043.78000	3626744.82000	5.84E-05	9.68E-05	1.21E-04	1.67E-04	1.25E-04	1.38E-04	1.79E-05	7.23E-04
492043.78000	3626940.68000	4.75E-05	7.61E-05	8.77E-05	1.19E-04	9.67E-05	1.05E-04	1.04E-05	5.42E-04
492043.78000	3627136.54000	3.95E-05	6.18E-05	7.04E-05	9.31E-05	7.59E-05	8.37E-05	7.53E-06	4.32E-04
492043.78000	3627332.40000	3.30E-05	5.09E-05	5.71E-05	7.39E-05	6.08E-05	6.84E-05	7.17E-06	3.51E-04
492043.78000	3627528.26000	2.74E-05	4.12E-05	4.56E-05	5.75E-05	4.78E-05	5.49E-05	6.12E-06	2.80E-04
492043.78000	3627724.12000	2.29E-05	3.32E-05	3.65E-05	4.55E-05	3.85E-05	4.46E-05	5.40E-06	2.27E-04
492043.78000	3627919.98000	1.94E-05	2.73E-05	2.97E-05	3.68E-05	3.17E-05	3.71E-05	4.89E-06	1.87E-04
492043.78000	3628115.84000	1.67E-05	2.29E-05	2.48E-05	3.06E-05	2.67E-05	3.13E-05	4.28E-06	1.57E-04
492043.78000	3628311.70000	1.45E-05	1.95E-05	2.09E-05	2.58E-05	2.26E-05	2.66E-05	3.69E-06	1.34E-04
492043.78000	3628507.56000	1.28E-05	1.67E-05	1.78E-05	2.20E-05	1.93E-05	2.29E-05	3.18E-06	1.15E-04
492237.88000	3624590.36000	3.07E-05	2.17E-05	2.15E-05	2.71E-05	2.73E-05	3.50E-05	6.31E-06	1.70E-04
492237.88000	3624786.22000	3.64E-05	2.28E-05	2.32E-05	2.94E-05	2.86E-05	3.64E-05	6.81E-06	1.84E-04
492237.88000	3624982.08000	4.85E-05	2.60E-05	2.64E-05	3.34E-05	3.26E-05	4.15E-05	7.98E-06	2.16E-04
492237.88000	3625177.94000	6.91E-05	2.93E-05	2.91E-05	3.69E-05	3.71E-05	4.77E-05	9.36E-06	2.58E-04
492237.88000	3625373.80000	9.60E-05	3.98E-05	4.02E-05	5.08E-05	4.98E-05	6.38E-05	1.21E-05	3.53E-04
492237.88000	3625569.66000	9.73E-05	4.45E-05	4.22E-05	5.39E-05	5.66E-05	7.57E-05	1.23E-05	3.83E-04
492237.88000	3625765.52000	9.65E-05	5.96E-05	5.51E-05	7.07E-05	7.65E-05	1.06E-04	1.43E-05	4.79E-04
492237.88000	3625961.38000	1.12E-04	8.87E-05	8.02E-05	1.04E-04	1.16E-04	1.70E-04	1.98E-05	6.90E-04

Chronic Non-Cancer Health Risk-Onsite

492237.88000	3626157.24000	1.79E-04	1.94E-04	1.47E-04	1.85E-04	2.65E-04	4.03E-04	3.37E-05	1.41E-03
492237.88000	3626353.10000	1.55E-04	2.37E-04	1.67E-04	2.30E-04	3.54E-04	4.24E-04	4.77E-05	1.61E-03
492237.88000	3626548.96000	1.17E-04	2.61E-04	3.50E-04	5.05E-04	3.46E-04	3.40E-04	4.07E-05	1.96E-03
492237.88000	3626744.82000	8.13E-05	1.53E-04	2.04E-04	2.96E-04	2.02E-04	2.12E-04	2.62E-05	1.17E-03
492237.88000	3626940.68000	6.19E-05	1.11E-04	1.34E-04	1.86E-04	1.40E-04	1.48E-04	1.26E-05	7.94E-04
492237.88000	3627136.54000	4.89E-05	8.47E-05	9.96E-05	1.32E-04	1.01E-04	1.10E-04	1.04E-05	5.87E-04
492237.88000	3627332.40000	3.85E-05	6.41E-05	7.36E-05	9.33E-05	7.39E-05	8.25E-05	8.98E-06	4.35E-04
492237.88000	3627528.26000	3.06E-05	4.81E-05	5.40E-05	6.70E-05	5.47E-05	6.22E-05	7.00E-06	3.24E-04
492237.88000	3627724.12000	2.52E-05	3.81E-05	4.24E-05	5.22E-05	4.35E-05	5.00E-05	6.22E-06	2.58E-04
492237.88000	3627919.98000	2.09E-05	3.02E-05	3.30E-05	4.03E-05	3.43E-05	3.97E-05	4.99E-06	2.03E-04
492237.88000	3628115.84000	1.75E-05	2.43E-05	2.62E-05	3.20E-05	2.75E-05	3.22E-05	3.97E-06	1.64E-04
492237.88000	3628311.70000	1.51E-05	2.03E-05	2.18E-05	2.67E-05	2.30E-05	2.71E-05	3.30E-06	1.37E-04
492237.88000	3628507.56000	1.32E-05	1.75E-05	1.87E-05	2.30E-05	1.98E-05	2.35E-05	2.85E-06	1.19E-04
492431.98000	3624590.36000	3.04E-05	2.20E-05	2.20E-05	2.76E-05	2.76E-05	3.53E-05	6.55E-06	1.71E-04
492431.98000	3624786.22000	3.68E-05	2.39E-05	2.43E-05	3.07E-05	3.00E-05	3.84E-05	7.21E-06	1.91E-04
492431.98000	3624982.08000	5.24E-05	3.14E-05	3.02E-05	3.79E-05	3.97E-05	5.15E-05	8.66E-06	2.52E-04
492431.98000	3625177.94000	7.73E-05	3.76E-05	3.43E-05	4.28E-05	4.80E-05	6.31E-05	1.03E-05	3.13E-04
492431.98000	3625373.80000	1.22E-04	4.86E-05	4.42E-05	5.54E-05	6.13E-05	8.05E-05	1.34E-05	4.25E-04
492431.98000	3625569.66000	1.46E-04	4.90E-05	4.78E-05	6.08E-05	6.23E-05	8.18E-05	1.47E-05	4.63E-04
492431.98000	3625765.52000	1.40E-04	7.91E-05	7.46E-05	9.52E-05	1.01E-04	1.35E-04	1.70E-05	6.42E-04
492431.98000	3625961.38000	1.35E-04	9.60E-05	9.32E-05	1.22E-04	1.24E-04	1.73E-04	1.95E-05	7.64E-04
492431.98000	3626157.24000	2.28E-04	1.84E-04	1.37E-04	1.76E-04	2.52E-04	4.03E-04	3.23E-05	1.41E-03
492431.98000	3626353.10000	2.58E-04	2.53E-04	1.35E-04	1.83E-04	3.89E-04	7.07E-04	6.61E-05	1.99E-03
492431.98000	3626548.96000	1.72E-04	4.51E-04	5.78E-04	8.91E-04	6.78E-04	5.97E-04	7.27E-05	3.44E-03
492431.98000	3626744.82000	1.20E-04	2.68E-04	3.84E-04	6.10E-04	3.73E-04	3.54E-04	3.30E-05	2.14E-03
492431.98000	3626940.68000	8.46E-05	1.79E-04	2.35E-04	3.32E-04	2.18E-04	2.18E-04	1.91E-05	1.29E-03
492431.98000	3627136.54000	5.95E-05	1.16E-04	1.42E-04	1.81E-04	1.30E-04	1.38E-04	1.33E-05	7.80E-04
492431.98000	3627332.40000	4.73E-05	8.82E-05	1.09E-04	1.33E-04	9.59E-05	1.04E-04	1.14E-05	5.89E-04
492431.98000	3627528.26000	3.33E-05	5.44E-05	6.10E-05	7.34E-05	5.95E-05	6.70E-05	7.19E-06	3.56E-04
492431.98000	3627724.12000	2.61E-05	3.97E-05	4.34E-05	5.22E-05	4.34E-05	4.97E-05	5.04E-06	2.59E-04
492431.98000	3627919.98000	2.14E-05	3.10E-05	3.36E-05	4.07E-05	3.45E-05	4.01E-05	4.52E-06	2.06E-04
492431.98000	3628115.84000	1.81E-05	2.52E-05	2.72E-05	3.31E-05	2.83E-05	3.33E-05	3.99E-06	1.69E-04
492431.98000	3628311.70000	1.55E-05	2.10E-05	2.26E-05	2.76E-05	2.37E-05	2.81E-05	3.54E-06	1.42E-04
492431.98000	3628507.56000	1.38E-05	1.86E-05	2.01E-05	2.46E-05	2.10E-05	2.50E-05	3.30E-06	1.26E-04
492626.08000	3624590.36000	3.42E-05	2.23E-05	2.10E-05	2.59E-05	2.84E-05	3.70E-05	6.71E-06	1.76E-04
492626.08000	3624786.22000	3.80E-05	2.46E-05	2.47E-05	3.10E-05	3.07E-05	3.93E-05	7.26E-06	1.96E-04
492626.08000	3624982.08000	5.46E-05	3.10E-05	2.83E-05	3.49E-05	3.93E-05	5.23E-05	8.62E-06	2.49E-04
492626.08000	3625177.94000	7.08E-05	3.63E-05	3.61E-05	4.52E-05	4.52E-05	5.83E-05	9.91E-06	3.02E-04
492626.08000	3625373.80000	1.18E-04	4.68E-05	4.61E-05	5.76E-05	5.81E-05	7.54E-05	1.27E-05	4.14E-04
492626.08000	3625569.66000	2.29E-04	5.57E-05	5.48E-05	6.82E-05	6.96E-05	9.10E-05	1.78E-05	5.86E-04
492626.08000	3625765.52000	2.26E-04	8.12E-05	7.93E-05	9.97E-05	1.02E-04	1.35E-04	2.03E-05	7.44E-04
492626.08000	3625961.38000	2.04E-04	1.11E-04	8.75E-05	1.12E-04	1.57E-04	2.26E-04	2.26E-05	9.20E-04
492626.08000	3626157.24000	2.41E-04	1.50E-04	1.06E-04	1.41E-04	2.17E-04	3.43E-04	3.25E-05	1.23E-03
492626.08000	3626353.10000	4.12E-04	1.96E-04	1.25E-04	1.78E-04	3.09E-04	6.00E-04	6.80E-05	1.89E-03
492626.08000	3626548.96000	4.26E-04	1.19E-03	7.00E-04	1.13E-03	2.80E-03	2.35E-03	1.36E-04	8.73E-03
492626.08000	3626744.82000	2.14E-04	7.40E-04	1.69E-03	6.29E-03	9.71E-04	7.40E-04	7.13E-05	1.07E-02
492626.08000	3626940.68000	1.12E-04	2.98E-04	4.33E-04	5.06E-04	2.97E-04	2.85E-04	2.45E-05	1.96E-03
492626.08000	3627136.54000	6.79E-05	1.44E-04	1.76E-04	2.02E-04	1.44E-04	1.52E-04	1.31E-05	8.99E-04
492626.08000	3627332.40000	4.74E-05	8.68E-05	1.01E-04	1.19E-04	9.05E-05	9.97E-05	1.01E-05	5.55E-04
492626.08000	3627528.26000	3.68E-05	6.30E-05	7.35E-05	8.70E-05	6.64E-05	7.48E-05	7.83E-06	4.09E-04
492626.08000	3627724.12000	2.68E-05	4.11E-05	4.47E-05	5.27E-05	4.42E-05	5.10E-05	5.33E-06	2.66E-04
492626.08000	3627919.98000	2.17E-05	3.15E-05	3.37E-05	4.00E-05	3.42E-05	4.01E-05	4.47E-06	2.06E-04

Chronic Non-Cancer Health Risk-Onsite

492626.08000	3628115.84000	1.84E-05	2.60E-05	2.81E-05	3.36E-05	2.86E-05	3.38E-05	4.10E-06	1.73E-04
492626.08000	3628311.70000	1.59E-05	2.18E-05	2.36E-05	2.84E-05	2.42E-05	2.88E-05	3.61E-06	1.46E-04
492626.08000	3628507.56000	1.41E-05	1.91E-05	2.07E-05	2.49E-05	2.12E-05	2.53E-05	3.24E-06	1.29E-04
492626.09000	3626426.56000	5.05E-04	1.66E-04	1.60E-04	1.02E-03	2.09E-03	4.46E-03	1.98E-04	8.60E-03
492652.38000	3626742.71000	2.39E-04	2.99E-04	1.70E-04	2.43E-04	4.70E-04	1.16E-03	9.33E-05	2.67E-03
492660.72000	3626713.21000	2.77E-04	4.83E-04	8.59E-04	1.52E-03	6.94E-04	6.20E-04	8.06E-05	4.53E-03
492676.75000	3626651.01000	4.47E-04	7.64E-04	1.04E-03	1.62E-03	1.16E-03	8.96E-04	1.05E-04	6.03E-03
492678.68000	3626411.81000	6.81E-04	1.38E-03	7.36E-04	1.38E-03	2.84E-03	4.44E-03	1.88E-04	1.17E-02
492679.32000	3626674.09000	4.04E-04	5.67E-04	9.97E-04	1.70E-03	8.43E-04	7.21E-04	9.20E-05	5.33E-03
492688.30000	3626714.50000	3.27E-04	5.03E-04	2.69E-04	3.88E-04	8.66E-04	2.14E-03	1.12E-04	4.61E-03
492689.58000	3626622.15000	5.71E-04	7.18E-04	6.01E-04	8.39E-04	1.18E-03	1.10E-03	9.82E-05	5.10E-03
492692.79000	3626668.96000	4.50E-04	6.94E-04	1.10E-03	1.76E-03	1.03E-03	8.28E-04	1.02E-04	5.97E-03
492697.92000	3626391.93000	6.78E-04	2.14E-03	9.89E-04	2.07E-03	3.35E-03	3.24E-03	1.63E-04	1.26E-02
492699.20000	3626422.71000	8.37E-04	4.31E-04	2.81E-04	4.06E-04	6.89E-04	7.15E-04	7.38E-05	3.43E-03
492703.69000	3626740.79000	2.94E-04	3.06E-04	1.75E-04	2.55E-04	4.99E-04	1.30E-03	1.07E-04	2.94E-03
492704.33000	3626600.99000	7.36E-04	6.92E-04	5.25E-04	7.27E-04	1.14E-03	1.17E-03	9.39E-05	5.08E-03
492708.82000	3626624.72000	6.59E-04	7.17E-04	6.49E-04	9.34E-04	1.19E-03	1.04E-03	1.01E-04	5.29E-03
492716.51000	3626577.26000	1.00E-03	6.26E-04	4.11E-04	5.67E-04	1.05E-03	1.22E-03	8.86E-05	4.96E-03
492720.36000	3626707.44000	3.89E-04	2.98E-04	1.80E-04	2.57E-04	4.98E-04	9.97E-04	8.47E-05	2.70E-03
492726.13000	3626643.31000	6.63E-04	7.78E-04	8.84E-04	1.34E-03	1.22E-03	9.42E-04	1.04E-04	5.93E-03
492726.77000	3626607.40000	8.72E-04	7.72E-04	7.63E-04	1.13E-03	1.28E-03	1.01E-03	1.06E-04	5.94E-03
492739.60000	3626591.37000	1.20E-03	4.27E-04	2.27E-04	3.17E-04	6.99E-04	9.66E-04	8.05E-05	3.92E-03
492740.24000	3626567.00000	1.48E-03	4.46E-04	2.51E-04	3.53E-04	7.33E-04	8.95E-04	7.89E-05	4.24E-03
492742.16000	3626418.22000	1.03E-03	6.01E-04	4.86E-04	6.76E-04	9.70E-04	9.25E-04	8.05E-05	4.77E-03
492747.94000	3626386.16000	7.79E-04	6.50E-04	6.18E-04	8.78E-04	1.01E-03	8.83E-04	8.63E-05	4.91E-03
492750.50000	3626550.33000	1.74E-03	5.77E-04	9.23E-04	1.44E-03	8.30E-04	6.97E-04	8.78E-05	6.30E-03
492754.35000	3626706.16000	4.33E-04	4.22E-04	2.55E-04	3.67E-04	7.22E-04	1.78E-03	1.02E-04	4.08E-03
492754.99000	3626574.05000	1.78E-03	5.09E-04	8.81E-04	1.47E-03	7.29E-04	6.38E-04	8.28E-05	6.09E-03
492755.63000	3626685.00000	5.40E-04	4.23E-04	2.54E-04	3.73E-04	7.19E-04	1.80E-03	1.02E-04	4.21E-03
492758.84000	3626739.51000	3.27E-04	3.39E-04	2.01E-04	2.91E-04	5.76E-04	1.23E-03	9.55E-05	3.06E-03
492759.48000	3626659.99000	7.26E-04	3.01E-04	1.80E-04	2.66E-04	5.02E-04	1.01E-03	8.30E-05	3.06E-03
492771.66000	3626525.32000	1.98E-03	6.58E-04	8.08E-04	1.20E-03	9.83E-04	7.99E-04	9.15E-05	6.52E-03
492777.44000	3626545.20000	2.33E-03	6.18E-04	8.88E-04	1.35E-03	8.97E-04	7.38E-04	8.96E-05	6.91E-03
492778.72000	3626388.08000	8.37E-04	6.46E-04	6.60E-04	9.51E-04	1.00E-03	8.52E-04	8.95E-05	5.04E-03
492780.00000	3626415.01000	1.30E-03	6.41E-04	7.08E-04	1.04E-03	9.80E-04	8.16E-04	8.95E-05	5.57E-03
492783.85000	3626648.44000	9.51E-04	4.40E-04	2.62E-04	3.91E-04	8.03E-04	1.84E-03	1.04E-04	4.79E-03
492788.98000	3626677.30000	6.64E-04	3.10E-04	1.87E-04	2.81E-04	5.30E-04	1.06E-03	8.68E-05	3.12E-03
492820.18000	3624590.36000	3.45E-05	2.27E-05	2.14E-05	2.65E-05	2.85E-05	3.70E-05	6.69E-06	1.77E-04
492820.18000	3624786.22000	4.45E-05	2.49E-05	2.23E-05	2.75E-05	3.14E-05	4.14E-05	7.62E-06	2.00E-04
492820.18000	3624982.08000	5.84E-05	2.81E-05	2.42E-05	3.00E-05	3.56E-05	4.78E-05	8.71E-06	2.33E-04
492820.18000	3625177.94000	7.89E-05	3.63E-05	3.16E-05	3.91E-05	4.59E-05	6.31E-05	1.03E-05	3.05E-04
492820.18000	3625373.80000	1.27E-04	3.52E-05	2.84E-05	3.58E-05	4.62E-05	6.33E-05	1.31E-05	3.49E-04
492820.18000	3625569.66000	2.45E-04	5.90E-05	5.79E-05	7.26E-05	7.31E-05	9.50E-05	1.75E-05	6.20E-04
492820.18000	3625765.52000	7.70E-04	5.55E-05	4.87E-05	5.86E-05	7.15E-05	9.16E-05	3.84E-05	1.13E-03
492820.18000	3625961.38000	3.55E-04	5.25E-05	4.18E-05	5.69E-05	7.75E-05	1.10E-04	2.72E-05	7.21E-04
492820.18000	3626157.24000	2.38E-04	9.25E-05	6.75E-05	9.61E-05	1.45E-04	2.25E-04	3.72E-05	9.02E-04
492820.18000	3626353.10000	3.71E-04	1.73E-04	1.19E-04	1.78E-04	3.04E-04	5.57E-04	7.54E-05	1.78E-03
492820.18000	3626548.96000	3.89E-03	1.73E-03	8.58E-04	1.23E-03	2.71E-03	5.47E-03	2.02E-04	1.61E-02
492820.18000	3626744.82000	3.16E-04	1.76E-03	2.33E-03	1.03E-03	8.17E-04	7.50E-04	6.50E-05	7.07E-03
492820.18000	3626940.68000	1.21E-04	3.25E-04	4.08E-04	3.74E-04	2.64E-04	2.72E-04	2.12E-05	1.79E-03
492820.18000	3627136.54000	6.97E-05	1.44E-04	1.67E-04	1.77E-04	1.35E-04	1.47E-04	1.25E-05	8.52E-04
492820.18000	3627332.40000	4.74E-05	8.49E-05	9.46E-05	1.06E-04	8.47E-05	9.55E-05	9.49E-06	5.23E-04

Chronic Non-Cancer Health Risk-Onsite

492820.18000	3627528.26000	3.48E-05	5.65E-05	6.15E-05	7.08E-05	5.84E-05	6.72E-05	7.00E-06	3.56E-04
492820.18000	3627724.12000	3.29E-05	5.33E-05	5.48E-05	5.99E-05	5.58E-05	6.45E-05	6.53E-06	3.28E-04
492820.18000	3627919.98000	2.17E-05	3.11E-05	3.29E-05	3.88E-05	3.34E-05	3.94E-05	4.40E-06	2.02E-04
492820.18000	3628115.84000	1.80E-05	2.46E-05	2.59E-05	3.08E-05	2.68E-05	3.19E-05	3.68E-06	1.62E-04
492820.18000	3628311.70000	1.61E-05	2.22E-05	2.39E-05	2.87E-05	2.43E-05	2.89E-05	3.50E-06	1.48E-04
492820.18000	3628507.56000	1.41E-05	1.89E-05	2.04E-05	2.45E-05	2.09E-05	2.49E-05	3.06E-06	1.27E-04
492874.27000	3625788.48000	1.15E-03	6.48E-05	5.87E-05	6.96E-05	8.35E-05	1.05E-04	4.76E-05	1.58E-03
492881.32000	3625908.40000	6.54E-04	4.61E-05	4.03E-05	5.20E-05	6.82E-05	9.39E-05	2.95E-05	9.84E-04
492883.25000	3625830.80000	1.02E-03	5.66E-05	5.13E-05	6.21E-05	7.61E-05	9.80E-05	4.12E-05	1.40E-03
492894.15000	3625789.12000	1.45E-03	6.91E-05	6.37E-05	7.40E-05	8.78E-05	1.09E-04	5.29E-05	1.91E-03
492901.84000	3625911.60000	7.54E-04	4.74E-05	4.17E-05	5.26E-05	6.90E-05	9.56E-05	3.06E-05	1.09E-03
492906.98000	3625898.14000	8.50E-04	4.60E-05	4.10E-05	5.12E-05	6.65E-05	9.12E-05	3.09E-05	1.18E-03
492910.18000	3625790.40000	1.74E-03	7.29E-05	6.76E-05	7.75E-05	9.14E-05	1.13E-04	5.67E-05	2.22E-03
492919.80000	3625834.65000	1.54E-03	6.05E-05	5.56E-05	6.51E-05	7.92E-05	1.02E-04	4.54E-05	1.95E-03
492928.14000	3625914.81000	9.04E-04	4.99E-05	4.37E-05	5.41E-05	7.10E-05	9.87E-05	3.17E-05	1.25E-03
492930.70000	3625786.55000	2.13E-03	7.56E-05	7.02E-05	7.96E-05	9.36E-05	1.16E-04	5.90E-05	2.63E-03
492933.91000	3625898.14000	1.09E-03	4.81E-05	4.28E-05	5.25E-05	6.80E-05	9.34E-05	3.20E-05	1.43E-03
492947.38000	3625791.04000	2.58E-03	7.88E-05	7.34E-05	8.25E-05	9.66E-05	1.19E-04	6.20E-05	3.09E-03
492951.87000	3625908.40000	1.17E-03	5.07E-05	4.44E-05	5.46E-05	7.11E-05	9.83E-05	3.25E-05	1.52E-03
492955.07000	3625845.55000	2.48E-03	5.45E-05	4.93E-05	5.83E-05	7.29E-05	9.65E-05	3.83E-05	2.85E-03
492963.41000	3625787.84000	2.70E-03	7.54E-05	6.98E-05	7.87E-05	9.27E-05	1.15E-04	5.83E-05	3.19E-03
492973.67000	3625907.11000	1.35E-03	5.34E-05	4.65E-05	5.71E-05	7.44E-05	1.03E-04	3.34E-05	1.72E-03
492982.65000	3625787.84000	2.85E-03	7.64E-05	7.07E-05	7.95E-05	9.35E-05	1.16E-04	5.92E-05	3.34E-03
492993.55000	3625914.17000	1.30E-03	5.61E-05	4.85E-05	5.99E-05	7.82E-05	1.08E-04	3.45E-05	1.69E-03
492996.11000	3625897.50000	1.72E-03	5.57E-05	4.82E-05	5.94E-05	7.72E-05	1.06E-04	3.44E-05	2.10E-03
492999.96000	3625787.84000	2.95E-03	8.23E-05	7.67E-05	8.55E-05	9.93E-05	1.22E-04	6.52E-05	3.48E-03
493014.28000	3624590.36000	3.58E-05	1.54E-05	1.34E-05	1.74E-05	2.12E-05	2.81E-05	6.77E-06	1.38E-04
493014.28000	3624786.22000	4.53E-05	1.66E-05	1.44E-05	1.89E-05	2.34E-05	3.11E-05	7.80E-06	1.58E-04
493014.28000	3624982.08000	6.07E-05	1.96E-05	1.69E-05	2.22E-05	2.78E-05	3.71E-05	9.12E-06	1.93E-04
493014.28000	3625177.94000	8.33E-05	3.17E-05	2.75E-05	3.51E-05	4.27E-05	5.73E-05	1.10E-05	2.88E-04
493014.28000	3625373.80000	1.21E-04	4.15E-05	4.10E-05	5.16E-05	5.19E-05	6.81E-05	1.28E-05	3.88E-04
493014.28000	3625569.66000	2.97E-04	4.11E-05	3.50E-05	4.31E-05	5.56E-05	7.57E-05	2.13E-05	5.69E-04
493014.28000	3625765.52000	1.86E-03	7.14E-05	6.59E-05	7.45E-05	8.78E-05	1.09E-04	5.48E-05	2.32E-03
493014.28000	3625961.38000	7.48E-04	5.47E-05	4.68E-05	5.99E-05	7.96E-05	1.13E-04	3.33E-05	1.14E-03
493014.28000	3626157.24000	2.91E-04	1.34E-04	9.70E-05	1.31E-04	1.98E-04	3.17E-04	4.24E-05	1.21E-03
493014.28000	3626353.10000	4.58E-04	3.36E-04	2.89E-04	3.64E-04	4.36E-04	6.99E-04	7.28E-05	2.66E-03
493014.28000	3626548.96000	4.32E-04	6.73E-04	5.00E-04	5.17E-04	5.38E-04	6.79E-04	8.79E-05	3.43E-03
493014.28000	3626744.82000	2.01E-04	4.25E-04	3.91E-04	3.39E-04	3.16E-04	3.78E-04	3.75E-05	2.09E-03
493014.28000	3626940.68000	1.04E-04	2.18E-04	2.24E-04	2.12E-04	1.82E-04	2.05E-04	1.59E-05	1.16E-03
493014.28000	3627136.54000	6.40E-05	1.19E-04	1.28E-04	1.33E-04	1.10E-04	1.25E-04	9.42E-06	6.88E-04
493014.28000	3627332.40000	5.07E-05	9.25E-05	1.04E-04	1.13E-04	8.93E-05	1.01E-04	8.45E-06	5.59E-04
493014.28000	3627528.26000	3.88E-05	6.56E-05	7.18E-05	8.02E-05	6.57E-05	7.55E-05	6.76E-06	4.04E-04
493014.28000	3627724.12000	3.25E-05	5.00E-05	4.47E-05	4.90E-05	5.22E-05	6.16E-05	5.73E-06	2.96E-04
493014.28000	3627919.98000	2.11E-05	2.95E-05	3.09E-05	3.61E-05	3.14E-05	3.74E-05	4.03E-06	1.90E-04
493014.28000	3628115.84000	1.77E-05	2.39E-05	2.52E-05	2.98E-05	2.59E-05	3.11E-05	3.63E-06	1.57E-04
493014.28000	3628311.70000	1.49E-05	1.94E-05	2.02E-05	2.40E-05	2.12E-05	2.57E-05	3.03E-06	1.28E-04
493014.28000	3628507.56000	1.30E-05	1.66E-05	1.74E-05	2.08E-05	1.83E-05	2.22E-05	2.73E-06	1.11E-04
493015.99000	3625896.85000	1.94E-03	5.64E-05	5.01E-05	6.10E-05	7.74E-05	1.04E-04	3.82E-05	2.33E-03
493021.12000	3625791.04000	3.36E-03	9.93E-05	9.36E-05	1.03E-04	1.16E-04	1.39E-04	8.23E-05	4.00E-03
493023.05000	3625912.24000	1.43E-03	5.60E-05	4.94E-05	6.09E-05	7.81E-05	1.07E-04	3.71E-05	1.82E-03
493036.52000	3625789.12000	3.20E-03	1.01E-04	9.49E-05	1.04E-04	1.18E-04	1.40E-04	8.38E-05	3.84E-03
493044.21000	3625907.11000	1.44E-03	5.72E-05	5.06E-05	6.25E-05	7.96E-05	1.09E-04	3.86E-05	1.83E-03

Chronic Non-Cancer Health Risk-Onsite

493055.75000	3625789.76000	3.07E-03	1.05E-04	9.93E-05	1.09E-04	1.23E-04	1.45E-04	8.83E-05	3.74E-03
493066.66000	3625907.76000	1.17E-03	6.04E-05	5.30E-05	6.57E-05	8.42E-05	1.16E-04	3.94E-05	1.59E-03
493069.86000	3625832.73000	3.70E-03	1.22E-04	1.16E-04	1.27E-04	1.41E-04	1.65E-04	1.06E-04	4.47E-03
493076.28000	3625787.84000	2.55E-03	1.06E-04	1.00E-04	1.10E-04	1.24E-04	1.47E-04	8.93E-05	3.23E-03
493085.25000	3625912.24000	9.90E-04	5.65E-05	4.96E-05	6.25E-05	8.06E-05	1.12E-04	3.68E-05	1.39E-03
493087.18000	3625895.57000	1.15E-03	6.06E-05	5.37E-05	6.63E-05	8.40E-05	1.15E-04	4.11E-05	1.58E-03
493094.87000	3625832.73000	2.09E-03	9.21E-05	8.67E-05	9.73E-05	1.12E-04	1.37E-04	7.61E-05	2.69E-03
493094.87000	3625787.84000	2.11E-03	9.81E-05	9.25E-05	1.03E-04	1.16E-04	1.40E-04	8.18E-05	2.74E-03
493108.98000	3625911.60000	8.33E-04	5.58E-05	4.91E-05	6.22E-05	8.03E-05	1.12E-04	3.64E-05	1.23E-03
493110.90000	3625837.21000	1.53E-03	7.15E-05	6.60E-05	7.69E-05	9.18E-05	1.17E-04	5.51E-05	2.01E-03
493112.19000	3625897.50000	9.00E-04	5.72E-05	5.05E-05	6.33E-05	8.11E-05	1.12E-04	3.78E-05	1.30E-03
493112.83000	3625788.48000	1.71E-03	8.26E-05	7.71E-05	8.72E-05	1.01E-04	1.25E-04	6.61E-05	2.25E-03
493129.50000	3625787.19000	1.40E-03	7.64E-05	7.07E-05	8.12E-05	9.54E-05	1.20E-04	5.97E-05	1.90E-03
493133.99000	3625901.98000	7.05E-04	5.74E-05	4.99E-05	6.36E-05	8.25E-05	1.16E-04	3.57E-05	1.11E-03
493148.74000	3625787.19000	1.13E-03	6.98E-05	6.41E-05	7.48E-05	8.94E-05	1.15E-04	5.27E-05	1.59E-03
493151.95000	3625834.01000	9.25E-04	5.99E-05	5.42E-05	6.57E-05	8.11E-05	1.08E-04	4.29E-05	1.34E-03
493164.77000	3625790.40000	9.47E-04	6.54E-05	5.96E-05	7.07E-05	8.56E-05	1.11E-04	4.80E-05	1.39E-03
493166.70000	3625837.86000	7.80E-04	5.63E-05	5.05E-05	6.23E-05	7.79E-05	1.05E-04	3.87E-05	1.17E-03
493184.65000	3625789.12000	7.79E-04	6.13E-05	5.53E-05	6.67E-05	8.20E-05	1.09E-04	4.30E-05	1.20E-03
493187.86000	3625836.57000	6.47E-04	5.42E-05	4.81E-05	6.00E-05	7.59E-05	1.04E-04	3.57E-05	1.02E-03
493201.33000	3625836.57000	5.79E-04	5.32E-05	4.70E-05	5.87E-05	7.47E-05	1.02E-04	3.41E-05	9.50E-04
493201.97000	3625791.04000	6.65E-04	5.85E-05	5.23E-05	6.39E-05	7.94E-05	1.06E-04	3.96E-05	1.06E-03
493208.38000	3624590.36000	3.22E-05	1.14E-05	1.04E-05	1.36E-05	1.69E-05	2.25E-05	7.59E-06	1.15E-04
493208.38000	3624786.22000	4.53E-05	1.77E-05	1.54E-05	1.96E-05	2.44E-05	3.28E-05	8.75E-06	1.64E-04
493208.38000	3624982.08000	5.76E-05	3.06E-05	2.81E-05	3.50E-05	3.91E-05	5.18E-05	9.84E-06	2.52E-04
493208.38000	3625177.94000	7.85E-05	3.84E-05	3.60E-05	4.47E-05	4.84E-05	6.38E-05	1.17E-05	3.22E-04
493208.38000	3625373.80000	1.19E-04	4.51E-05	4.43E-05	5.54E-05	5.61E-05	7.32E-05	1.43E-05	4.07E-04
493208.38000	3625569.66000	2.50E-04	6.28E-05	5.51E-05	6.83E-05	8.07E-05	1.08E-04	2.23E-05	6.47E-04
493208.38000	3625765.52000	6.50E-04	5.95E-05	5.29E-05	6.47E-05	8.01E-05	1.07E-04	3.95E-05	1.05E-03
493208.38000	3625961.38000	3.52E-04	5.78E-05	4.90E-05	6.07E-05	8.07E-05	1.16E-04	3.10E-05	7.47E-04
493208.38000	3626157.24000	2.17E-04	8.46E-05	6.57E-05	8.89E-05	1.28E-04	1.95E-04	3.79E-05	8.16E-04
493208.38000	3626353.10000	2.39E-04	1.96E-04	1.36E-04	1.77E-04	2.53E-04	3.57E-04	6.03E-05	1.42E-03
493208.38000	3626548.96000	1.68E-04	2.18E-04	1.70E-04	1.71E-04	2.02E-04	2.60E-04	4.53E-05	1.23E-03
493208.38000	3626744.82000	1.18E-04	1.87E-04	1.76E-04	1.76E-04	1.64E-04	2.03E-04	2.10E-05	1.05E-03
493208.38000	3626940.68000	7.91E-05	1.31E-04	1.26E-04	1.28E-04	1.18E-04	1.41E-04	1.10E-05	7.34E-04
493208.38000	3627136.54000	5.49E-05	8.95E-05	9.05E-05	9.57E-05	8.43E-05	9.94E-05	7.44E-06	5.22E-04
493208.38000	3627332.40000	4.82E-05	8.19E-05	8.21E-05	8.40E-05	7.93E-05	9.20E-05	7.20E-06	4.75E-04
493208.38000	3627528.26000	3.63E-05	3.95E-05	3.15E-05	3.66E-05	4.40E-05	6.56E-05	5.63E-06	2.59E-04
493208.38000	3627724.12000	2.88E-05	4.42E-05	4.71E-05	5.35E-05	4.53E-05	5.30E-05	4.68E-06	2.77E-04
493208.38000	3627919.98000	2.44E-05	3.57E-05	3.64E-05	4.04E-05	3.74E-05	4.42E-05	4.07E-06	2.23E-04
493208.38000	3628115.84000	2.04E-05	2.89E-05	2.98E-05	3.32E-05	3.08E-05	3.66E-05	3.57E-06	1.83E-04
493208.38000	3628311.70000	1.45E-05	1.87E-05	1.94E-05	2.30E-05	2.04E-05	2.46E-05	2.72E-06	1.23E-04
493208.38000	3628507.56000	1.34E-05	1.77E-05	1.89E-05	2.25E-05	1.94E-05	2.33E-05	2.74E-06	1.18E-04
493221.21000	3625790.40000	5.70E-04	5.62E-05	4.98E-05	6.14E-05	7.70E-05	1.04E-04	3.63E-05	9.55E-04
493238.52000	3625791.04000	4.98E-04	5.50E-05	4.83E-05	5.98E-05	7.57E-05	1.03E-04	3.36E-05	8.74E-04
493240.44000	3625836.57000	4.36E-04	5.30E-05	4.60E-05	5.71E-05	7.35E-05	1.02E-04	3.07E-05	7.98E-04
493402.48000	3624590.36000	3.53E-05	1.59E-05	1.37E-05	1.77E-05	2.17E-05	2.89E-05	7.38E-06	1.40E-04
493402.48000	3624786.22000	4.27E-05	1.53E-05	1.34E-05	1.75E-05	2.18E-05	2.91E-05	8.71E-06	1.49E-04
493402.48000	3624982.08000	5.79E-05	1.91E-05	1.66E-05	2.16E-05	2.70E-05	3.63E-05	1.03E-05	1.89E-04
493402.48000	3625177.94000	8.27E-05	2.85E-05	2.45E-05	3.14E-05	3.89E-05	5.28E-05	1.24E-05	2.71E-04
493402.48000	3625373.80000	1.09E-04	4.37E-05	4.33E-05	5.44E-05	5.50E-05	7.21E-05	1.50E-05	3.92E-04
493402.48000	3625569.66000	1.82E-04	6.10E-05	5.96E-05	7.29E-05	7.57E-05	9.91E-05	2.11E-05	5.72E-04

Chronic Non-Cancer Health Risk-Onsite

493402.48000	3625765.52000	2.16E-04	5.83E-05	4.80E-05	5.82E-05	7.60E-05	1.07E-04	2.42E-05	5.88E-04
493402.48000	3625961.38000	1.77E-04	5.53E-05	4.48E-05	5.97E-05	8.16E-05	1.17E-04	2.55E-05	5.62E-04
493402.48000	3626157.24000	1.58E-04	7.91E-05	6.11E-05	7.92E-05	1.13E-04	1.67E-04	3.36E-05	6.91E-04
493402.48000	3626353.10000	1.36E-04	1.30E-04	9.73E-05	1.14E-04	1.45E-04	1.87E-04	3.88E-05	8.47E-04
493402.48000	3626548.96000	1.07E-04	1.17E-04	9.53E-05	1.00E-04	1.19E-04	1.55E-04	2.49E-05	7.19E-04
493402.48000	3626744.82000	8.18E-05	1.19E-04	1.21E-04	1.27E-04	1.12E-04	1.37E-04	1.41E-05	7.11E-04
493402.48000	3626940.68000	6.01E-05	8.43E-05	8.07E-05	8.62E-05	8.10E-05	1.00E-04	8.81E-06	5.01E-04
493402.48000	3627136.54000	4.58E-05	6.60E-05	6.49E-05	7.05E-05	6.45E-05	7.77E-05	6.23E-06	3.96E-04
493402.48000	3627332.40000	3.74E-05	3.57E-05	2.67E-05	3.14E-05	4.04E-05	5.35E-05	5.88E-06	2.31E-04
493402.48000	3627528.26000	3.24E-05	3.32E-05	2.55E-05	2.96E-05	3.71E-05	4.83E-05	5.09E-06	2.11E-04
493402.48000	3627724.12000	2.40E-05	3.38E-05	3.59E-05	4.16E-05	3.51E-05	4.20E-05	4.05E-06	2.16E-04
493402.48000	3627919.98000	2.15E-05	2.10E-05	1.72E-05	2.04E-05	2.43E-05	3.12E-05	3.55E-06	1.39E-04
493402.48000	3628115.84000	1.94E-05	2.69E-05	2.77E-05	3.14E-05	2.84E-05	3.39E-05	3.15E-06	1.71E-04
493402.48000	3628311.70000	1.54E-05	2.07E-05	2.20E-05	2.59E-05	2.21E-05	2.65E-05	2.72E-06	1.35E-04
493402.48000	3628507.56000	1.33E-05	1.75E-05	1.85E-05	2.20E-05	1.89E-05	2.28E-05	2.40E-06	1.15E-04
493596.58000	3624590.36000	3.49E-05	1.91E-05	1.71E-05	2.19E-05	2.55E-05	3.38E-05	7.58E-06	1.60E-04
493596.58000	3624786.22000	4.11E-05	1.48E-05	1.32E-05	1.72E-05	2.12E-05	2.85E-05	9.00E-06	1.45E-04
493596.58000	3624982.08000	5.42E-05	1.74E-05	1.56E-05	2.05E-05	2.56E-05	3.47E-05	1.07E-05	1.79E-04
493596.58000	3625177.94000	7.67E-05	3.22E-05	2.83E-05	3.58E-05	4.35E-05	5.84E-05	1.29E-05	2.88E-04
493596.58000	3625373.80000	9.68E-05	4.60E-05	4.49E-05	5.51E-05	5.77E-05	7.55E-05	1.55E-05	3.91E-04
493596.58000	3625569.66000	1.36E-04	3.32E-05	2.89E-05	3.57E-05	4.55E-05	6.20E-05	1.90E-05	3.61E-04
493596.58000	3625765.52000	1.28E-04	3.99E-05	3.36E-05	4.40E-05	5.80E-05	8.05E-05	2.01E-05	4.04E-04
493596.58000	3625961.38000	1.17E-04	5.21E-05	4.19E-05	5.33E-05	7.22E-05	1.04E-04	2.30E-05	4.64E-04
493596.58000	3626157.24000	1.22E-04	1.08E-04	8.58E-05	1.05E-04	1.27E-04	1.71E-04	2.87E-05	7.47E-04
493596.58000	3626353.10000	9.63E-05	9.83E-05	8.08E-05	9.00E-05	1.05E-04	1.32E-04	2.49E-05	6.27E-04
493596.58000	3626548.96000	7.31E-05	9.07E-05	9.17E-05	1.00E-04	9.15E-05	1.15E-04	1.57E-05	5.78E-04
493596.58000	3626744.82000	5.71E-05	6.99E-05	6.69E-05	7.32E-05	6.96E-05	8.73E-05	9.25E-06	4.33E-04
493596.58000	3626940.68000	4.93E-05	6.59E-05	6.77E-05	7.43E-05	6.52E-05	8.01E-05	7.13E-06	4.10E-04
493596.58000	3627136.54000	4.68E-05	6.12E-05	4.03E-05	4.97E-05	6.34E-05	7.87E-05	6.05E-06	3.46E-04
493596.58000	3627332.40000	2.59E-05	1.87E-05	1.45E-05	1.78E-05	2.30E-05	3.06E-05	5.01E-06	1.36E-04
493596.58000	3627528.26000	3.11E-05	4.33E-05	3.77E-05	4.08E-05	4.44E-05	5.39E-05	4.22E-06	2.55E-04
493596.58000	3627724.12000	2.24E-05	1.99E-05	1.54E-05	1.83E-05	2.30E-05	3.04E-05	3.85E-06	1.33E-04
493596.58000	3627919.98000	2.12E-05	2.07E-05	1.69E-05	1.98E-05	2.36E-05	3.53E-05	3.49E-06	1.41E-04
493596.58000	3628115.84000	1.88E-05	2.49E-05	2.30E-05	2.56E-05	2.66E-05	3.22E-05	2.96E-06	1.54E-04
493596.58000	3628311.70000	1.60E-05	2.11E-05	2.12E-05	2.39E-05	2.26E-05	2.72E-05	2.48E-06	1.35E-04
493596.58000	3628507.56000	1.37E-05	1.78E-05	1.85E-05	2.18E-05	1.92E-05	2.30E-05	2.25E-06	1.16E-04
493790.68000	3624590.36000	3.46E-05	1.94E-05	1.76E-05	2.27E-05	2.63E-05	3.49E-05	8.05E-06	1.64E-04
493790.68000	3624786.22000	4.10E-05	1.71E-05	1.54E-05	2.01E-05	2.48E-05	3.33E-05	9.54E-06	1.61E-04
493790.68000	3624982.08000	5.10E-05	1.90E-05	1.73E-05	2.15E-05	2.67E-05	3.55E-05	1.10E-05	1.82E-04
493790.68000	3625177.94000	6.65E-05	2.20E-05	1.96E-05	2.41E-05	2.98E-05	3.98E-05	1.24E-05	2.14E-04
493790.68000	3625373.80000	8.58E-05	3.85E-05	3.39E-05	4.17E-05	5.00E-05	6.74E-05	1.48E-05	3.32E-04
493790.68000	3625569.66000	9.02E-05	2.85E-05	2.49E-05	3.24E-05	4.15E-05	5.63E-05	1.63E-05	2.90E-04
493790.68000	3625765.52000	8.38E-05	3.33E-05	2.84E-05	3.59E-05	4.63E-05	6.42E-05	1.82E-05	3.10E-04
493790.68000	3625961.38000	9.19E-05	6.94E-05	5.67E-05	7.14E-05	8.88E-05	1.21E-04	2.08E-05	5.20E-04
493790.68000	3626157.24000	8.52E-05	8.70E-05	7.65E-05	8.74E-05	9.69E-05	1.25E-04	2.31E-05	5.81E-04
493790.68000	3626353.10000	6.96E-05	6.89E-05	5.93E-05	6.58E-05	7.41E-05	9.49E-05	1.74E-05	4.50E-04
493790.68000	3626548.96000	6.15E-05	7.45E-05	6.91E-05	7.47E-05	7.72E-05	9.80E-05	1.23E-05	4.67E-04
493790.68000	3626744.82000	4.41E-05	5.06E-05	4.94E-05	5.56E-05	5.22E-05	6.56E-05	7.36E-06	3.25E-04
493790.68000	3626940.68000	4.51E-05	5.61E-05	4.65E-05	5.10E-05	5.72E-05	7.19E-05	6.01E-06	3.34E-04
493790.68000	3627136.54000	2.43E-05	1.30E-05	1.06E-05	1.32E-05	1.67E-05	2.26E-05	5.17E-06	1.06E-04
493790.68000	3627332.40000	1.89E-05	9.19E-06	8.00E-06	1.00E-05	1.24E-05	1.62E-05	4.50E-06	7.92E-05
493790.68000	3627528.26000	1.84E-05	1.12E-05	9.04E-06	1.13E-05	1.43E-05	1.90E-05	3.77E-06	8.70E-05

Chronic Non-Cancer Health Risk-Onsite

493790.68000	3627724.12000	1.38E-05	6.38E-06	5.60E-06	7.11E-06	8.73E-06	1.17E-05	3.49E-06	5.68E-05
493790.68000	3627919.98000	1.34E-05	7.59E-06	6.11E-06	7.67E-06	9.80E-06	1.34E-05	3.10E-06	6.11E-05
493790.68000	3628115.84000	1.28E-05	8.89E-06	7.08E-06	8.69E-06	1.11E-05	1.49E-05	2.92E-06	6.64E-05
493790.68000	3628311.70000	1.35E-05	1.17E-05	9.79E-06	1.18E-05	1.39E-05	1.81E-05	2.53E-06	8.14E-05
493790.68000	3628507.56000	1.39E-05	1.30E-05	1.11E-05	1.34E-05	1.70E-05	2.24E-05	2.14E-06	9.30E-05
493984.78000	3624590.36000	3.19E-05	1.53E-05	1.40E-05	1.78E-05	2.18E-05	2.88E-05	8.25E-06	1.38E-04
493984.78000	3624786.22000	3.81E-05	1.71E-05	1.54E-05	1.91E-05	2.33E-05	3.08E-05	9.36E-06	1.53E-04
493984.78000	3624982.08000	4.57E-05	1.74E-05	1.57E-05	1.94E-05	2.38E-05	3.16E-05	1.02E-05	1.64E-04
493984.78000	3625177.94000	5.60E-05	1.88E-05	1.71E-05	2.16E-05	2.71E-05	3.64E-05	1.20E-05	1.89E-04
493984.78000	3625373.80000	6.57E-05	2.40E-05	2.13E-05	2.74E-05	3.45E-05	4.62E-05	1.37E-05	2.33E-04
493984.78000	3625569.66000	6.61E-05	2.85E-05	2.44E-05	3.07E-05	3.88E-05	5.28E-05	1.48E-05	2.56E-04
493984.78000	3625765.52000	6.47E-05	3.19E-05	2.70E-05	3.49E-05	4.57E-05	6.39E-05	1.66E-05	2.85E-04
493984.78000	3625961.38000	6.50E-05	4.51E-05	3.74E-05	4.68E-05	5.79E-05	7.69E-05	1.85E-05	3.48E-04
493984.78000	3626157.24000	5.87E-05	5.06E-05	4.32E-05	5.06E-05	5.92E-05	7.54E-05	1.73E-05	3.55E-04
493984.78000	3626353.10000	5.28E-05	5.06E-05	4.46E-05	5.00E-05	5.55E-05	7.22E-05	1.29E-05	3.39E-04
493984.78000	3626548.96000	4.56E-05	5.38E-05	5.32E-05	5.99E-05	5.69E-05	7.14E-05	9.71E-06	3.51E-04
493984.78000	3626744.82000	3.53E-05	3.89E-05	3.86E-05	4.42E-05	4.12E-05	5.16E-05	6.24E-06	2.56E-04
493984.78000	3626940.68000	3.22E-05	3.84E-05	3.93E-05	4.47E-05	3.98E-05	4.90E-05	4.84E-06	2.48E-04
493984.78000	3627136.54000	2.14E-05	1.11E-05	9.21E-06	1.14E-05	1.43E-05	1.93E-05	4.36E-06	9.10E-05
493984.78000	3627332.40000	1.14E-05	5.62E-06	5.42E-06	6.80E-06	8.02E-06	1.04E-05	4.17E-06	5.18E-05
493984.78000	3627528.26000	8.76E-06	4.51E-06	4.52E-06	5.73E-06	6.64E-06	8.46E-06	3.65E-06	4.23E-05
493984.78000	3627724.12000	3.11E-06	2.41E-06	2.72E-06	3.46E-06	3.85E-06	4.83E-06	2.85E-06	2.32E-05
493984.78000	3627919.98000	2.04E-06	1.81E-06	2.06E-06	2.63E-06	2.92E-06	3.72E-06	2.29E-06	1.75E-05
493984.78000	3628115.84000	4.36E-06	2.50E-06	2.57E-06	3.27E-06	3.83E-06	5.04E-06	2.62E-06	2.42E-05
493984.78000	3628311.70000	4.46E-06	2.59E-06	2.61E-06	3.29E-06	3.92E-06	5.16E-06	2.61E-06	2.46E-05
493984.78000	3628507.56000	8.04E-06	4.10E-06	3.60E-06	4.56E-06	5.66E-06	7.53E-06	2.39E-06	3.59E-05
494178.88000	3624590.36000	2.93E-05	1.42E-05	1.29E-05	1.60E-05	1.94E-05	2.54E-05	7.87E-06	1.25E-04
494178.88000	3624786.22000	3.44E-05	1.50E-05	1.36E-05	1.69E-05	2.06E-05	2.72E-05	8.64E-06	1.36E-04
494178.88000	3624982.08000	4.17E-05	1.70E-05	1.54E-05	1.96E-05	2.44E-05	3.27E-05	9.85E-06	1.61E-04
494178.88000	3625177.94000	4.86E-05	1.98E-05	1.78E-05	2.28E-05	2.83E-05	3.76E-05	1.15E-05	1.86E-04
494178.88000	3625373.80000	5.21E-05	2.40E-05	2.10E-05	2.63E-05	3.26E-05	4.34E-05	1.27E-05	2.12E-04
494178.88000	3625569.66000	5.20E-05	2.64E-05	2.26E-05	2.88E-05	3.69E-05	5.09E-05	1.34E-05	2.31E-04
494178.88000	3625765.52000	5.40E-05	3.55E-05	2.98E-05	3.82E-05	4.80E-05	6.45E-05	1.54E-05	2.85E-04
494178.88000	3625961.38000	4.96E-05	3.74E-05	3.24E-05	3.91E-05	4.69E-05	6.11E-05	1.61E-05	2.83E-04
494178.88000	3626157.24000	4.35E-05	3.53E-05	3.09E-05	3.63E-05	4.22E-05	5.34E-05	1.34E-05	2.55E-04
494178.88000	3626353.10000	3.83E-05	4.27E-05	4.37E-05	5.01E-05	4.67E-05	5.85E-05	9.80E-06	2.90E-04
494178.88000	3626548.96000	3.27E-05	3.50E-05	3.53E-05	4.10E-05	3.85E-05	4.82E-05	7.49E-06	2.38E-04
494178.88000	3626744.82000	2.94E-05	3.23E-05	3.28E-05	3.79E-05	3.47E-05	4.33E-05	5.47E-06	2.16E-04
494178.88000	3626940.68000	3.09E-05	2.68E-05	2.25E-05	2.61E-05	3.01E-05	4.54E-05	4.37E-06	1.86E-04
494178.88000	3627136.54000	2.26E-05	1.71E-05	1.37E-05	1.64E-05	2.01E-05	2.67E-05	3.65E-06	1.20E-04
494178.88000	3627332.40000	1.36E-05	5.75E-06	5.25E-06	6.62E-06	7.97E-06	1.06E-05	3.49E-06	5.33E-05
494178.88000	3627528.26000	2.96E-06	2.51E-06	2.77E-06	3.50E-06	3.96E-06	4.97E-06	2.88E-06	2.36E-05
494178.88000	3627724.12000	1.06E-06	1.37E-06	1.58E-06	2.06E-06	2.29E-06	2.84E-06	1.75E-06	1.30E-05
494178.88000	3627919.98000	7.00E-07	1.01E-06	1.20E-06	1.57E-06	1.71E-06	2.10E-06	1.35E-06	9.63E-06
494178.88000	3628115.84000	6.68E-07	8.85E-07	1.06E-06	1.40E-06	1.52E-06	1.93E-06	1.22E-06	8.68E-06
494178.88000	3628311.70000	6.15E-07	7.82E-07	9.35E-07	1.24E-06	1.36E-06	1.69E-06	1.09E-06	7.70E-06
494178.88000	3628507.56000	8.26E-07	9.16E-07	1.04E-06	1.35E-06	1.52E-06	1.92E-06	1.22E-06	8.79E-06
494372.98000	3624590.36000	2.83E-05	1.50E-05	1.36E-05	1.69E-05	2.01E-05	2.65E-05	7.41E-06	1.28E-04
494372.98000	3624786.22000	3.22E-05	1.47E-05	1.34E-05	1.72E-05	2.12E-05	2.83E-05	8.43E-06	1.36E-04
494372.98000	3624982.08000	3.93E-05	2.02E-05	1.80E-05	2.29E-05	2.78E-05	3.65E-05	9.82E-06	1.75E-04
494372.98000	3625177.94000	4.15E-05	2.07E-05	1.83E-05	2.29E-05	2.80E-05	3.69E-05	1.09E-05	1.79E-04
494372.98000	3625373.80000	4.26E-05	2.26E-05	1.98E-05	2.48E-05	3.09E-05	4.19E-05	1.15E-05	1.94E-04

Chronic Non-Cancer Health Risk-Onsite

494372.98000	3625569.66000	4.40E-05	2.73E-05	2.34E-05	3.00E-05	3.79E-05	5.16E-05	1.27E-05	2.27E-04
494372.98000	3625765.52000	4.44E-05	3.61E-05	3.14E-05	3.83E-05	4.48E-05	5.84E-05	1.38E-05	2.67E-04
494372.98000	3625961.38000	4.12E-05	4.25E-05	4.17E-05	4.82E-05	4.94E-05	6.24E-05	1.32E-05	2.99E-04
494372.98000	3626157.24000	3.65E-05	3.35E-05	3.01E-05	3.49E-05	3.88E-05	4.91E-05	1.05E-05	2.33E-04
494372.98000	3626353.10000	3.24E-05	2.84E-05	2.55E-05	2.94E-05	3.31E-05	4.34E-05	8.32E-06	2.01E-04
494372.98000	3626548.96000	2.71E-05	2.90E-05	2.95E-05	3.45E-05	3.22E-05	4.03E-05	6.39E-06	1.99E-04
494372.98000	3626744.82000	2.55E-05	2.85E-05	2.91E-05	3.38E-05	3.09E-05	3.84E-05	4.96E-06	1.91E-04
494372.98000	3626940.68000	2.38E-05	1.93E-05	1.64E-05	1.92E-05	2.21E-05	2.90E-05	3.86E-06	1.34E-04
494372.98000	3627136.54000	1.74E-05	9.98E-06	8.31E-06	1.02E-05	1.26E-05	1.67E-05	3.38E-06	7.85E-05
494372.98000	3627332.40000	1.35E-05	5.86E-06	5.17E-06	6.53E-06	7.95E-06	1.06E-05	3.03E-06	5.26E-05
494372.98000	3627528.26000	2.74E-06	2.27E-06	2.48E-06	3.12E-06	3.52E-06	4.48E-06	2.55E-06	2.12E-05
494372.98000	3627724.12000	8.26E-07	1.11E-06	1.31E-06	1.71E-06	1.90E-06	2.37E-06	1.50E-06	1.07E-05
494372.98000	3627919.98000	6.58E-07	9.22E-07	1.07E-06	1.40E-06	1.55E-06	1.94E-06	1.22E-06	8.76E-06
494372.98000	3628115.84000	5.53E-07	7.81E-07	9.29E-07	1.21E-06	1.32E-06	1.64E-06	1.07E-06	7.50E-06
494372.98000	3628311.70000	5.02E-07	6.84E-07	8.24E-07	1.09E-06	1.17E-06	1.48E-06	9.69E-07	6.72E-06
494372.98000	3628507.56000	4.98E-07	6.34E-07	7.54E-07	1.00E-06	1.10E-06	1.37E-06	8.76E-07	6.23E-06
494567.08000	3624590.36000	2.64E-05	1.86E-05	1.85E-05	2.29E-05	2.37E-05	3.05E-05	7.28E-06	1.48E-04
494567.08000	3624786.22000	3.19E-05	2.04E-05	1.90E-05	2.38E-05	2.70E-05	3.50E-05	8.43E-06	1.65E-04
494567.08000	3624982.08000	3.39E-05	1.87E-05	1.67E-05	2.08E-05	2.50E-05	3.29E-05	9.38E-06	1.57E-04
494567.08000	3625177.94000	3.54E-05	2.01E-05	1.78E-05	2.20E-05	2.68E-05	3.59E-05	1.00E-05	1.68E-04
494567.08000	3625373.80000	3.69E-05	2.28E-05	1.99E-05	2.53E-05	3.15E-05	4.27E-05	1.08E-05	1.90E-04
494567.08000	3625569.66000	3.86E-05	3.27E-05	2.92E-05	3.61E-05	4.12E-05	5.33E-05	1.18E-05	2.43E-04
494567.08000	3625765.52000	3.55E-05	2.91E-05	2.59E-05	3.12E-05	3.64E-05	4.70E-05	1.23E-05	2.17E-04
494567.08000	3625961.38000	3.16E-05	2.56E-05	2.29E-05	2.74E-05	3.16E-05	4.02E-05	1.08E-05	1.90E-04
494567.08000	3626157.24000	2.81E-05	2.25E-05	2.03E-05	2.39E-05	2.71E-05	3.47E-05	8.48E-06	1.65E-04
494567.08000	3626353.10000	2.85E-05	3.03E-05	2.81E-05	3.26E-05	3.42E-05	4.37E-05	7.15E-06	2.05E-04
494567.08000	3626548.96000	2.30E-05	2.48E-05	2.53E-05	2.98E-05	2.78E-05	3.46E-05	5.67E-06	1.71E-04
494567.08000	3626744.82000	2.39E-05	2.65E-05	2.54E-05	2.87E-05	2.90E-05	3.65E-05	4.66E-06	1.74E-04
494567.08000	3626940.68000	1.99E-05	1.58E-05	1.35E-05	1.60E-05	1.83E-05	2.39E-05	3.50E-06	1.11E-04
494567.08000	3627136.54000	1.46E-05	7.63E-06	6.53E-06	8.12E-06	9.89E-06	1.30E-05	3.14E-06	6.30E-05
494567.08000	3627332.40000	7.81E-06	3.88E-06	3.76E-06	4.78E-06	5.64E-06	7.35E-06	2.87E-06	3.61E-05
494567.08000	3627528.26000	3.24E-06	2.27E-06	2.45E-06	3.10E-06	3.51E-06	4.47E-06	2.39E-06	2.14E-05
494567.08000	3627724.12000	1.12E-06	1.27E-06	1.47E-06	1.89E-06	2.09E-06	2.59E-06	1.62E-06	1.21E-05
494567.08000	3627919.98000	6.43E-07	8.57E-07	9.96E-07	1.32E-06	1.48E-06	1.86E-06	1.16E-06	8.31E-06
494567.08000	3628115.84000	5.42E-07	7.48E-07	8.75E-07	1.14E-06	1.25E-06	1.57E-06	9.90E-07	7.11E-06
494567.08000	3628311.70000	5.03E-07	6.77E-07	8.01E-07	1.05E-06	1.14E-06	1.43E-06	9.18E-07	6.52E-06
494567.08000	3628507.56000	4.80E-07	6.21E-07	7.41E-07	9.79E-07	1.07E-06	1.33E-06	8.58E-07	6.08E-06
494761.18000	3624590.36000	2.58E-05	1.64E-05	1.50E-05	1.90E-05	2.20E-05	2.86E-05	7.30E-06	1.34E-04
494761.18000	3624786.22000	2.90E-05	2.02E-05	1.88E-05	2.30E-05	2.58E-05	3.33E-05	8.25E-06	1.58E-04
494761.18000	3624982.08000	3.08E-05	2.15E-05	1.98E-05	2.41E-05	2.73E-05	3.59E-05	8.63E-06	1.68E-04
494761.18000	3625177.94000	3.11E-05	1.95E-05	1.73E-05	2.19E-05	2.66E-05	3.57E-05	9.37E-06	1.62E-04
494761.18000	3625373.80000	3.18E-05	2.24E-05	1.97E-05	2.51E-05	3.06E-05	4.05E-05	1.05E-05	1.81E-04
494761.18000	3625569.66000	3.20E-05	3.04E-05	2.86E-05	3.41E-05	3.66E-05	4.69E-05	1.08E-05	2.19E-04
494761.18000	3625765.52000	3.03E-05	2.79E-05	2.58E-05	3.07E-05	3.39E-05	4.29E-05	1.04E-05	2.02E-04
494761.18000	3625961.38000	2.74E-05	2.93E-05	2.91E-05	3.43E-05	3.42E-05	4.27E-05	9.20E-06	2.06E-04
494761.18000	3626157.24000	2.44E-05	2.66E-05	2.70E-05	3.16E-05	3.04E-05	3.82E-05	7.08E-06	1.85E-04
494761.18000	3626353.10000	2.38E-05	2.21E-05	2.03E-05	2.38E-05	2.59E-05	3.36E-05	6.16E-06	1.56E-04
494761.18000	3626548.96000	1.98E-05	2.14E-05	2.19E-05	2.59E-05	2.42E-05	3.01E-05	5.03E-06	1.48E-04
494761.18000	3626744.82000	2.12E-05	2.08E-05	1.75E-05	2.09E-05	2.45E-05	3.14E-05	4.15E-06	1.41E-04
494761.18000	3626940.68000	1.60E-05	1.11E-05	9.55E-06	1.15E-05	1.34E-05	1.75E-05	3.25E-06	8.23E-05
494761.18000	3627136.54000	6.62E-06	3.47E-06	3.47E-06	4.42E-06	5.21E-06	6.77E-06	3.01E-06	3.30E-05
494761.18000	3627332.40000	1.25E-06	1.38E-06	1.55E-06	2.00E-06	2.29E-06	2.88E-06	1.71E-06	1.31E-05

Chronic Non-Cancer Health Risk-Onsite

494761.18000	3627528.26000	8.84E-07	1.09E-06	1.26E-06	1.64E-06	1.81E-06	2.23E-06	1.33E-06	1.02E-05
494761.18000	3627724.12000	6.68E-07	8.83E-07	1.03E-06	1.34E-06	1.45E-06	1.80E-06	1.15E-06	8.31E-06
494761.18000	3627919.98000	5.93E-07	7.65E-07	9.21E-07	1.21E-06	1.34E-06	1.67E-06	1.09E-06	7.60E-06
494761.18000	3628115.84000	5.48E-07	7.14E-07	8.27E-07	1.09E-06	1.22E-06	1.56E-06	9.56E-07	6.92E-06
494761.18000	3628311.70000	5.41E-07	6.93E-07	8.04E-07	1.05E-06	1.16E-06	1.45E-06	8.98E-07	6.60E-06
494761.18000	3628507.56000	5.13E-07	6.35E-07	7.51E-07	9.86E-07	1.07E-06	1.34E-06	8.46E-07	6.13E-06
492402.89000	3626460.63000	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
492427.42000	3626474.80000	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
492431.78000	3626430.65000	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
492447.59000	3626418.66000	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04
492450.86000	3626492.79000	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
492463.94000	3626507.51000	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
492466.12000	3626447.00000	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
492467.76000	3626523.32000	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
492477.02000	3626546.76000	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
492479.21000	3626464.45000	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
492479.21000	3626572.92000	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
492481.93000	3626620.35000	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
492482.48000	3626594.18000	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
492490.65000	3626485.70000	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
492491.20000	3626644.88000	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
492501.01000	3626506.42000	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
492512.46000	3626553.84000	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
492513.55000	3626533.13000	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
492517.36000	3626636.70000	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
492521.18000	3626603.45000	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
492521.72000	3626582.19000	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
492599.16000	3626405.39000	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04
492606.85000	3626435.54000	5.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-04
492774.75000	3626728.05000	0.00E+00	3.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-03
493013.27000	3625844.49000	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
492723.78000	3626582.16000	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03
492761.18000	3626553.82000	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
492674.05000	3626738.96000	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
492708.49000	3626698.47000	0.00E+00	2.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03
492703.25000	3626652.75000	0.00E+00	4.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-03
492731.11000	3626741.92000	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
492743.19000	3626628.92000	0.00E+00	6.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-03
492723.78000	3626582.16000	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
492794.41000	3626665.12000	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03
492761.18000	3626553.82000	0.00E+00	0.00E+00	8.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-04
493013.27000	3625844.49000	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
492798.96000	3626618.56000	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
492703.25000	3626652.75000	0.00E+00	0.00E+00	2.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03
492743.19000	3626628.92000	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
492731.11000	3626741.92000	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	0.00E+00	0.00E+00	2.97E-03
492774.75000	3626728.05000	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	2.03E-03
493013.27000	3625844.49000	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	1.30E-04
492791.92000	3626663.04000	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	0.00E+00	0.00E+00	2.41E-03
493039.78000	3625834.45000	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	1.70E-04
492731.11000	3626741.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	1.23E-03
493013.27000	3625844.49000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	1.45E-04

Chronic Non-Cancer Health Risk-Onsite

492774.75000	3626728.05000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	1.28E-03
492674.05000	3626738.96000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	1.29E-03
492708.49000	3626698.47000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03	0.00E+00	0.00E+00	2.43E-03
492791.92000	3626663.04000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	2.56E-03
493039.78000	3625834.45000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	1.85E-04
492791.92000	3626663.04000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	1.94E-03
493013.27000	3625844.49000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	1.69E-04
492708.49000	3626698.47000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	1.42E-03
492703.25000	3626652.75000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	2.47E-03
492731.11000	3626741.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-04	0.00E+00	9.21E-04
492774.75000	3626728.05000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-04	0.00E+00	9.97E-04
492674.05000	3626738.96000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04	0.00E+00	9.26E-04
492743.19000	3626628.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-03	0.00E+00	3.90E-03
493039.78000	3625834.45000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	2.09E-04
493013.27000	3625844.49000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	1.08E-04
492761.18000	3626553.82000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	2.89E-04
492791.92000	3626663.04000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	1.19E-04
492723.78000	3626582.16000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	2.70E-04
492708.49000	3626698.47000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	1.21E-04
492703.25000	3626652.75000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	1.41E-04
492731.11000	3626741.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-05	7.86E-05
492774.75000	3626728.05000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-05	7.19E-05
492674.05000	3626738.96000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05	8.54E-05
492743.19000	3626628.92000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	1.77E-04
493039.78000	3625834.45000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	1.49E-04

SDSU Evolve Phase 1 HRA 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
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
- 3. Construction Emissions Details
 - 3.1. Demolition (2025) - Unmitigated
 - 3.3. Site Preparation (2025) - Unmitigated
 - 3.5. Grading (2025) - Unmitigated
 - 3.7. Building Construction (2025) - Unmitigated
 - 3.9. Building Construction (2026) - Unmitigated

3.11. Building Construction (2027) - Unmitigated

3.13. Paving (2027) - Unmitigated

3.15. Architectural Coating (2026) - Unmitigated

3.17. Architectural Coating (2027) - Unmitigated

3.19. Trenching (2025) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

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

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	SDSU Evolve Phase 1 HRA
Construction Start Date	5/27/2025
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	1.80
Location	32.77754140411972, -117.07772216206095
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6514
EDFZ	12
Electric Utility	User Defined
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	1,370	Dwelling Unit	22.1	1,315,200	37,293	—	3,822	—

High Turnover (Sit Down Restaurant)	15.0	1000sqft	0.34	15,000	0.00	—	—	—
Parking Lot	15.0	Space	0.13	0.00	0.00	—	—	—
Other Asphalt Surfaces	0.91	Acre	0.91	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.41	0.32	5.53	13.0	0.02	0.04	2.80	2.84	0.04	1.35	1.39	—	2,755	2,755	0.16	0.09	0.33	2,786
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	124	124	5.60	10.1	0.01	0.02	0.03	0.06	0.02	0.01	0.03	—	1,926	1,926	0.10	0.05	0.01	1,943
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.5	16.5	2.97	5.77	0.01	0.01	0.49	0.50	0.01	0.19	0.20	—	1,061	1,061	0.06	0.04	0.09	1,074
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.02	3.02	0.54	1.05	< 0.005	< 0.005	0.09	0.09	< 0.005	0.03	0.04	—	176	176	0.01	0.01	0.01	178

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.41	0.32	5.53	13.0	0.02	0.04	2.80	2.84	0.04	1.35	1.39	—	2,755	2,755	0.16	0.09	0.33	2,786
2026	0.24	0.20	4.13	8.04	0.01	0.02	0.03	0.05	0.02	0.01	0.03	—	1,470	1,470	0.08	0.05	0.29	1,487
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.29	0.24	5.60	10.1	0.01	0.02	0.03	0.06	0.02	0.01	0.03	—	1,853	1,853	0.10	0.05	0.01	1,872
2026	124	124	4.24	8.14	0.01	0.02	0.03	0.05	0.02	0.01	0.03	—	1,480	1,480	0.08	0.05	0.01	1,497
2027	124	124	4.21	8.12	0.01	0.02	0.03	0.05	0.02	0.01	0.03	—	1,926	1,926	0.08	0.05	0.01	1,943
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.12	0.10	1.79	4.07	0.01	0.01	0.49	0.50	0.01	0.19	0.20	—	842	842	0.04	0.02	0.05	850
2026	6.24	6.21	2.97	5.77	0.01	0.01	0.02	0.04	0.01	0.01	0.02	—	1,061	1,061	0.06	0.04	0.09	1,074
2027	16.5	16.5	0.28	0.68	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	266	266	0.01	< 0.005	0.01	267
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.02	0.02	0.33	0.74	< 0.005	< 0.005	0.09	0.09	< 0.005	0.03	0.04	—	139	139	0.01	< 0.005	0.01	141
2026	1.14	1.13	0.54	1.05	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	176	176	0.01	0.01	0.01	178
2027	3.02	3.02	0.05	0.12	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	44.1	44.1	< 0.005	< 0.005	< 0.005	44.3

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	41.6	40.8	5.68	100	0.08	0.33	4.09	4.42	0.30	1.04	1.34	736	31,710	32,447	74.4	0.42	47.1	34,481

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	34.2	33.8	5.11	21.1	0.07	0.29	4.09	4.38	0.28	1.04	1.31	736	31,293	32,029	74.4	0.43	33.2	34,052
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	37.7	37.1	5.33	58.7	0.07	0.31	4.08	4.39	0.29	1.04	1.32	736	31,219	31,956	74.4	0.43	39.0	33,983
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.88	6.77	0.97	10.7	0.01	0.06	0.75	0.80	0.05	0.19	0.24	122	5,169	5,291	12.3	0.07	6.46	5,626

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.08	2.85	1.81	19.2	0.05	0.03	4.07	4.10	0.03	1.03	1.06	—	4,688	4,688	0.23	0.18	14.2	4,762
Area	38.1	37.7	0.75	78.4	< 0.005	0.04	—	0.04	0.03	—	0.03	0.00	210	210	0.01	< 0.005	—	211
Energy	0.34	0.17	2.90	1.42	0.02	0.23	—	0.23	0.23	—	0.23	—	24,874	24,874	0.32	0.01	—	24,884
Water	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Waste	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Stationary	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Vegetation	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Total	41.6	40.8	5.68	100	0.08	0.33	4.09	4.42	0.30	1.04	1.34	736	31,710	32,447	74.4	0.42	47.1	34,481
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	3.02	2.79	1.99	18.2	0.04	0.03	4.07	4.10	0.03	1.03	1.06	—	4,481	4,481	0.24	0.19	0.37	4,545
Area	30.7	30.7	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.34	0.17	2.90	1.42	0.02	0.23	—	0.23	0.23	—	0.23	—	24,874	24,874	0.32	0.01	—	24,884
Water	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Waste	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Stationary	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Vegetation	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Total	34.2	33.8	5.11	21.1	0.07	0.29	4.09	4.38	0.28	1.04	1.31	736	31,293	32,029	74.4	0.43	33.2	34,052
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.99	2.75	1.97	18.2	0.04	0.03	4.06	4.10	0.03	1.03	1.06	—	4,512	4,512	0.24	0.19	6.13	4,581
Area	34.4	34.2	0.37	38.7	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	104	104	< 0.005	< 0.005	—	104
Energy	0.34	0.17	2.90	1.42	0.02	0.23	—	0.23	0.23	—	0.23	—	24,874	24,874	0.32	0.01	—	24,884
Water	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Waste	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Stationary	0.02	0.02	0.05	0.41	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	83.1	83.1	< 0.005	< 0.005	0.00	83.4
Vegetation	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Total	37.7	37.1	5.33	58.7	0.07	0.31	4.08	4.39	0.29	1.04	1.32	736	31,219	31,956	74.4	0.43	39.0	33,983
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.55	0.50	0.36	3.32	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	747	747	0.04	0.03	1.02	758
Area	6.27	6.24	0.07	7.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	17.2	17.2	< 0.005	< 0.005	—	17.2
Energy	0.06	0.03	0.53	0.26	< 0.005	0.04	—	0.04	0.04	—	0.04	—	4,118	4,118	0.05	< 0.005	—	4,120
Water	—	—	—	—	—	—	—	—	—	—	—	15.6	237	253	1.60	0.04	—	304
Waste	—	—	—	—	—	—	—	—	—	—	—	106	0.00	106	10.6	0.00	—	372

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.44	5.44
Stationary	< 0.005	< 0.005	0.01	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	13.8	13.8	< 0.005	< 0.005	0.00	13.8
Vegetation	—	< 0.005	0.01	—	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	35.1	35.1	—	—	—	35.1
Total	6.88	6.77	0.97	10.7	0.01	0.06	0.75	0.80	0.05	0.19	0.24	122	5,169	5,291	12.3	0.07	6.46	5,626

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	2.13	5.00	0.01	0.01	—	0.01	0.01	—	0.01	—	715	715	0.03	0.01	—	718
Demolition	—	—	—	—	—	—	2.61	2.61	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.12	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.2	39.2	< 0.005	< 0.005	—	39.3

Demolition	—	—	—	—	—	—	0.14	0.14	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.49	6.49	< 0.005	< 0.005	—	6.51
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.52	7.52	< 0.005	< 0.005	0.01	7.89
Hauling	0.06	0.03	0.76	0.52	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	125	125	0.02	0.02	0.09	132
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.43
Hauling	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.87	6.87	< 0.005	< 0.005	< 0.005	7.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.14	1.14	< 0.005	< 0.005	< 0.005	1.20

3.3. Site Preparation (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,959	1,959	0.08	0.02	—	1,965
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.7	53.7	< 0.005	< 0.005	—	53.8
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.88	8.88	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.52	7.52	< 0.005	< 0.005	0.01	7.89
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.22
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.04
Hauling	0.00	0.00	0.00	0.00	0.00	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. Grading (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.20	1.58	11.2	0.02	0.04	—	0.04	0.04	—	0.04	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	1.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	193	193	0.01	< 0.005	—	194
Dust From Material Movement	—	—	—	—	—	—	0.26	0.26	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.0	32.0	< 0.005	< 0.005	—	32.1

Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.52	7.52	< 0.005	< 0.005	0.01	7.89
Hauling	0.21	0.12	2.64	1.80	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	432	432	0.08	0.07	0.32	455
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.76
Hauling	0.02	0.01	0.26	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	41.6	41.6	0.01	0.01	0.01	43.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13
Hauling	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.88	6.88	< 0.005	< 0.005	< 0.005	7.25

3.7. Building Construction (2025) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	986
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	986
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.62	1.69	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	240	240	0.01	< 0.005	—	241
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.8	39.8	< 0.005	< 0.005	—	39.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.12	0.08	1.63	1.13	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	278	278	0.04	0.04	0.31	292
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.12	0.07	1.70	1.20	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	280	280	0.04	0.04	0.01	294
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.03	0.02	0.41	0.28	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	68.2	68.2	0.01	0.01	0.03	71.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	0.01	11.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	987

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	987
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.09	0.09	1.81	4.94	0.01	0.01	—	0.01	0.01	—	0.01	—	702	702	0.03	0.01	—	705
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.02	0.33	0.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	116	116	< 0.005	< 0.005	—	117
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.12	0.08	1.60	1.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	273	273	0.04	0.04	0.29	287
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.11	0.07	1.67	1.18	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	276	276	0.04	0.04	0.01	289
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.08	0.05	1.17	0.82	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	196	196	0.03	0.03	0.09	206
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.02	0.01	0.21	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	32.5	32.5	0.01	0.01	0.01	34.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	986
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.01	0.01	0.14	0.39	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	55.8	55.8	< 0.005	< 0.005	—	56.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.24	9.24	< 0.005	< 0.005	—	9.27
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.11	0.07	1.64	1.17	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	271	271	0.04	0.04	0.01	285
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.09	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.3	15.3	< 0.005	< 0.005	0.01	16.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.53	2.53	< 0.005	< 0.005	< 0.005	2.66
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.72	3.98	0.01	0.01	—	0.01	0.01	—	0.01	—	567	567	0.02	< 0.005	—	569
Paving	0.14	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.1	31.1	< 0.005	< 0.005	—	31.2
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.14	5.14	< 0.005	< 0.005	—	5.16
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2026) - Unmitigated

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

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

Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	124	124	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	6.07	6.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	1.11	1.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.45	7.45	< 0.005	< 0.005	< 0.005	7.82
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.36	0.36	< 0.005	< 0.005	< 0.005	0.38
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Architectural Coating (2027) - Unmitigated

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

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

Architectural Coating	124	124	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	16.5	16.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	3.01	3.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.97	0.97	< 0.005	< 0.005	< 0.005	1.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Trenching (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.16	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.2	34.2	< 0.005	< 0.005	—	34.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.65	5.65	< 0.005	< 0.005	—	5.67
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.52	7.52	< 0.005	< 0.005	0.01	7.89
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.57	7.57	< 0.005	< 0.005	< 0.005	7.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.91	0.91	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	3.08	2.85	1.81	19.2	0.05	0.03	4.07	4.10	0.03	1.03	1.06	—	4,688	4,688	0.23	0.18	14.2	4,762
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.08	2.85	1.81	19.2	0.05	0.03	4.07	4.10	0.03	1.03	1.06	—	4,688	4,688	0.23	0.18	14.2	4,762
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	3.02	2.79	1.99	18.2	0.04	0.03	4.07	4.10	0.03	1.03	1.06	—	4,481	4,481	0.24	0.19	0.37	4,545
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.02	2.79	1.99	18.2	0.04	0.03	4.07	4.10	0.03	1.03	1.06	—	4,481	4,481	0.24	0.19	0.37	4,545
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.55	0.50	0.36	3.32	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	747	747	0.04	0.03	1.02	758
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.55	0.50	0.36	3.32	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	747	747	0.04	0.03	1.02	758

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	19,017	19,017	0.00	0.00	—	19,017
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	2,187	2,187	0.00	0.00	—	2,187
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1	0.00	0.00	—	21.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	21,226	21,226	0.00	0.00	—	21,226
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	19,017	19,017	0.00	0.00	—	19,017
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	2,187	2,187	0.00	0.00	—	2,187
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1	0.00	0.00	—	21.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	21,226	21,226	0.00	0.00	—	21,226

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,149	3,149	0.00	0.00	—	3,149
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	362	362	0.00	0.00	—	362
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3.49	3.49	0.00	0.00	—	3.49
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,514	3,514	0.00	0.00	—	3,514

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,108	3,108	0.28	0.01	—	3,117
High Turnover (Sit Down Restaurant)	0.05	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	540	540	0.05	< 0.005	—	542
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	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.34	0.17	2.90	1.42	0.02	0.23	—	0.23	0.23	—	0.23	—	3,648	3,648	0.32	0.01	—	3,658
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,108	3,108	0.28	0.01	—	3,117
High Turnover (Sit Down Restaurant)	0.05	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	540	540	0.05	< 0.005	—	542
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	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.34	0.17	2.90	1.42	0.02	0.23	—	0.23	0.23	—	0.23	—	3,648	3,648	0.32	0.01	—	3,658
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.05	0.03	0.45	0.19	< 0.005	0.04	—	0.04	0.04	—	0.04	—	515	515	0.05	< 0.005	—	516
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	89.5	89.5	0.01	< 0.005	—	89.7
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	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.06	0.03	0.53	0.26	< 0.005	0.04	—	0.04	0.04	—	0.04	—	604	604	0.05	< 0.005	—	606

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	28.5	28.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.32	6.93	0.75	78.4	< 0.005	0.04	—	0.04	0.03	—	0.03	—	210	210	0.01	< 0.005	—	211
Total	38.1	37.7	0.75	78.4	< 0.005	0.04	—	0.04	0.03	—	0.03	0.00	210	210	0.01	< 0.005	—	211
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	28.5	28.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	30.7	30.7	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	5.20	5.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.42	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.66	0.62	0.07	7.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.2	17.2	< 0.005	< 0.005	—	17.2
Total	6.27	6.24	0.07	7.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	17.2	17.2	< 0.005	< 0.005	—	17.2

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	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
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	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
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	15.6	237	253	1.60	0.04	—	304

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	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
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	15.6	237	253	1.60	0.04	—	304

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	546	0.00	546	54.6	0.00	—	1,910
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.2	0.00	96.2	9.61	0.00	—	337
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	546	0.00	546	54.6	0.00	—	1,910
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.2	0.00	96.2	9.61	0.00	—	337
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	90.4	0.00	90.4	9.03	0.00	—	316
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	15.9	0.00	15.9	1.59	0.00	—	55.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	106	0.00	106	10.6	0.00	—	372

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.42	9.42
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.4	23.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.42	9.42
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.4	23.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.56	1.56

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.88	3.88
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.44	5.44

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Total	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Total	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	< 0.005	0.01	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	13.8	13.8	< 0.005	< 0.005	0.00	13.8
Total	< 0.005	< 0.005	0.01	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	13.8	13.8	< 0.005	< 0.005	0.00	13.8

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	0.01	< 0.005	—	0.01	0.02	0.02	0.03	< 0.005	< 0.005	0.01	—	33.0	33.0	—	—	—	33.0
Mexican Fan Palm	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.18	1.18	—	—	—	1.18
Kentia Palm	—	> -0.005	> -0.005	—	> -0.005	-0.01	-0.01	-0.01	> -0.005	> -0.005	> -0.005	—	-8.77	-8.77	—	—	—	-8.77
Subtotal	—	0.01	< 0.005	—	0.01	0.01	0.01	0.03	< 0.005	< 0.005	0.01	—	25.4	25.4	—	—	—	25.4
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	—	—	—	—	—	—	—	—	—	—	198	198	—	—	—	198
Mexican Fan Palm	—	—	—	—	—	—	—	—	—	—	—	—	2.06	2.06	—	—	—	2.06
Kentia Palm	—	—	—	—	—	—	—	—	—	—	—	—	-13.6	-13.6	—	—	—	-13.6
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	187	187	—	—	—	187

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	0.06	—	< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Mexican Fan Palm	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Kentia Palm	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	0.05	—	< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	0.01	< 0.005	—	0.01	0.02	0.02	0.03	< 0.005	< 0.005	0.01	—	33.0	33.0	—	—	—	33.0
Mexican Fan Palm	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.18	1.18	—	—	—	1.18
Kentia Palm	—	> -0.005	> -0.005	—	> -0.005	-0.01	-0.01	-0.01	> -0.005	> -0.005	> -0.005	—	-8.77	-8.77	—	—	—	-8.77
Subtotal	—	0.01	< 0.005	—	0.01	0.01	0.01	0.03	< 0.005	< 0.005	0.01	—	25.4	25.4	—	—	—	25.4
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	—	—	—	—	—	—	—	—	—	—	198	198	—	—	—	198
Mexican Fan Palm	—	—	—	—	—	—	—	—	—	—	—	—	2.06	2.06	—	—	—	2.06
Kentia Palm	—	—	—	—	—	—	—	—	—	—	—	—	-13.6	-13.6	—	—	—	-13.6

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	187	187	—	—	—	187
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	0.06	—	< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Mexican Fan Palm	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Kentia Palm	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	0.05	—	< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	5.46	5.46	—	—	—	5.46
Mexican Fan Palm	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	—	—	—	0.20
Kentia Palm	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.45	-1.45	—	—	—	-1.45
Subtotal	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.20	4.20	—	—	—	4.20
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	—	—	—	—	—	—	—	—	—	—	32.8	32.8	—	—	—	32.8
Mexican Fan Palm	—	—	—	—	—	—	—	—	—	—	—	—	0.34	0.34	—	—	—	0.34
Kentia Palm	—	—	—	—	—	—	—	—	—	—	—	—	-2.26	-2.26	—	—	—	-2.26

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	30.9	30.9	—	—	—	30.9
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	0.01	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Mexican Fan Palm	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Kentia Palm	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	0.01	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	< 0.005	0.01	—	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	35.1	35.1	—	—	—	35.1

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	5/27/2025	6/24/2025	5.00	20.0	—
Site Preparation	Site Preparation	6/25/2025	7/9/2025	5.00	10.0	—
Grading	Grading	7/10/2025	8/28/2025	5.00	35.0	—
Building Construction	Building Construction	8/29/2025	1/29/2027	5.00	370	—
Paving	Paving	1/30/2027	2/27/2027	5.00	20.0	—
Architectural Coating	Architectural Coating	12/7/2026	3/9/2027	5.00	67.0	—
Trenching	Trenching	8/29/2025	10/29/2025	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	7.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	4.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Building Construction	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	1.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix

Demolition	—	—	—	—
Demolition	Worker	0.00	12.0	LDA,LDT1,LDT2
Demolition	Vendor	4.00	0.25	HHDT,MHDT
Demolition	Hauling	48.0	0.25	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	0.25	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	0.25	HHDT,MHDT
Grading	Hauling	166	0.25	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	148	0.25	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	0.25	HHDT,MHDT

Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	0.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	0.25	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	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	2,663,280	887,760	22,500	7,500	2,718

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	3,780	—
Site Preparation	—	—	5.00	0.00	—
Grading	17,820	28,200	140	0.00	—
Paving	0.00	0.00	0.00	0.00	1.04

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Parking Lot	0.13	100%
Other Asphalt Surfaces	0.91	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	39,724	1,494	0.00	0.00
2026	39,724	1,494	0.00	0.00
2027	39,724	1,494	0.00	0.00

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
Apartments High Rise	758	758	758	276,623	5,760	5,760	5,760	2,102,338
High Turnover (Sit Down Restaurant)	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

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1370
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
2663280	887,760	22,500	7,500	2,718

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments High Rise	4,645,492	1,494	0.0000	0.0000	9,697,458
High Turnover (Sit Down Restaurant)	534,342	1,494	0.0000	0.0000	1,686,087
Parking Lot	5,151	1,494	0.0000	0.0000	0.00
Other Asphalt Surfaces	0.00	1,494	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	49,233,547	2,866,005
High Turnover (Sit Down Restaurant)	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	1,013	—
High Turnover (Sit Down Restaurant)	178	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Served
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	52.0	306	0.73
Emergency Generator	Diesel	1.00	0.50	52.0	389	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
Kentia Palm	225	92,063	347
Blue Gum Eucalyptus	-190	307,926	1,508
Mexican Fan Palm	-29.0	12,094	48.3

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	9.08	annual days of extreme heat
Extreme Precipitation	2.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	4.89	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	46.0

AQ-DPM	78.3
Drinking Water	29.0
Lead Risk Housing	22.5
Pesticides	0.00
Toxic Releases	36.0
Traffic	83.2
Effect Indicators	—
CleanUp Sites	53.4
Groundwater	68.4
Haz Waste Facilities/Generators	37.7
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	38.4
Cardio-vascular	12.7
Low Birth Weights	9.08
Socioeconomic Factor Indicators	—
Education	—
Housing	96.5
Linguistic	—
Poverty	91.8
Unemployment	92.2

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	20.95470294

Employed	9.534197357
Median HI	17.43872706
Education	—
Bachelor's or higher	81.12408572
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	11.04837675
Active commuting	89.42640832
Social	—
2-parent households	99.56371102
Voting	22.66136276
Neighborhood	—
Alcohol availability	85.46131143
Park access	20.23610933
Retail density	97.62607468
Supermarket access	2.399589375
Tree canopy	71.71820865
Housing	—
Homeownership	27.87116643
Housing habitability	26.51097138
Low-inc homeowner severe housing cost burden	97.99820352
Low-inc renter severe housing cost burden	0.346464776
Uncrowded housing	50.16040036
Health Outcomes	—
Insured adults	68.95932247
Arthritis	97.1
Asthma ER Admissions	70.5

High Blood Pressure	98.1
Cancer (excluding skin)	89.7
Asthma	21.6
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	97.2
Life Expectancy at Birth	60.4
Cognitively Disabled	72.6
Physically Disabled	83.0
Heart Attack ER Admissions	96.5
Mental Health Not Good	34.8
Chronic Kidney Disease	95.6
Obesity	88.9
Pedestrian Injuries	19.6
Physical Health Not Good	81.0
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.6
Current Smoker	47.6
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	47.1
SLR Inundation Area	0.0
Children	96.5
Elderly	59.3
English Speaking	55.7
Foreign-born	45.8
Outdoor Workers	77.3

Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	96.7
Traffic Access	61.3
Other Indices	—
Hardship	53.0
Other Decision Support	—
2016 Voting	37.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	47.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Construction: Construction Phases	Based on proposal.
Characteristics: Utility Information	Phase 1 is within the on-campus grid getting electricity from the cogen.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	Based on LLG traffic study.
Operations: Hearths	No stoves or fireplaces.
Operations: Generators + Pumps EF	Tier 4 Final
Operations: Water and Waste Water	Based on applicant provided information.
Construction: Electricity	Based on campus grid cogen.
Construction: Dust From Material Movement	Based on applicant provided information.

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 10/8/2024
** File: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU Evolve
Phase 1\SDSU Evolve Phase 1.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL "SDSU Evolve Phase 1.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 Flex and Amenities
** PREFIX
** Length of Side = 8.60
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 30
** 492883.663, 3626449.846, 128.20, 3.40, 4.00
** 492861.140, 3626451.063, 128.32, 3.40, 4.00
** 492833.748, 3626446.802, 128.38, 3.40, 4.00

```

** 492834.357, 3626458.976, 128.20, 3.40, 4.00
 ** 492856.271, 3626461.411, 128.22, 3.40, 4.00
 ** 492873.315, 3626461.411, 128.22, 3.40, 4.00
 ** 492867.228, 3626474.194, 128.16, 3.40, 4.00
 ** 492838.009, 3626471.151, 127.74, 3.40, 4.00
 ** 492837.401, 3626485.151, 127.36, 3.40, 4.00
 ** 492858.097, 3626486.368, 128.07, 3.40, 4.00
 ** 492852.618, 3626498.543, 127.80, 3.40, 4.00
 ** 492838.009, 3626496.716, 127.42, 3.40, 4.00
 ** 492833.748, 3626511.326, 125.80, 3.40, 4.00
 ** 492847.749, 3626514.369, 125.48, 3.40, 4.00
 ** 492845.923, 3626525.935, 125.56, 3.40, 4.00
 ** 492828.879, 3626522.891, 125.75, 3.40, 4.00
 ** 492822.792, 3626534.457, 125.51, 3.40, 4.00
 ** 492844.705, 3626538.109, 124.46, 3.40, 4.00
 ** 492842.270, 3626550.283, 124.94, 3.40, 4.00
 ** 492817.922, 3626545.413, 125.28, 3.40, 4.00
 ** 492810.617, 3626557.588, 125.13, 3.40, 4.00
 ** 492839.227, 3626564.284, 123.87, 3.40, 4.00
 ** 492837.401, 3626577.675, 124.79, 3.40, 4.00
 ** 492803.313, 3626567.327, 124.56, 3.40, 4.00
 ** 492796.617, 3626580.110, 124.52, 3.40, 4.00
 ** 492834.357, 3626592.284, 123.49, 3.40, 4.00
 ** 492830.705, 3626604.459, 124.14, 3.40, 4.00
 ** 492793.573, 3626591.676, 124.56, 3.40, 4.00
 ** 492790.530, 3626597.763, 124.47, 3.40, 4.00
 ** 492825.226, 3626617.850, 124.48, 3.40, 4.00

** -----

LOCATION L0000001	VOLUME	492879.369	3626450.078	128.50
LOCATION L0000002	VOLUME	492870.782	3626450.542	128.55
LOCATION L0000003	VOLUME	492862.194	3626451.006	128.59
LOCATION L0000004	VOLUME	492853.685	3626449.903	128.66
LOCATION L0000005	VOLUME	492845.187	3626448.582	128.61
LOCATION L0000006	VOLUME	492836.690	3626447.260	128.48
LOCATION L0000007	VOLUME	492834.029	3626452.418	128.30
LOCATION L0000008	VOLUME	492836.379	3626459.201	128.12
LOCATION L0000009	VOLUME	492844.926	3626460.151	128.14
LOCATION L0000010	VOLUME	492853.473	3626461.100	128.17
LOCATION L0000011	VOLUME	492862.056	3626461.411	128.01
LOCATION L0000012	VOLUME	492870.656	3626461.411	127.46
LOCATION L0000013	VOLUME	492870.760	3626466.775	126.87
LOCATION L0000014	VOLUME	492866.846	3626474.154	126.77
LOCATION L0000015	VOLUME	492858.293	3626473.263	128.13
LOCATION L0000016	VOLUME	492849.739	3626472.372	127.99
LOCATION L0000017	VOLUME	492841.185	3626471.481	127.87
LOCATION L0000018	VOLUME	492837.774	3626476.552	127.69
LOCATION L0000019	VOLUME	492837.401	3626485.144	127.45
LOCATION L0000020	VOLUME	492845.979	3626485.656	127.66
LOCATION L0000021	VOLUME	492854.564	3626486.161	127.86
LOCATION L0000022	VOLUME	492856.020	3626490.984	127.46

LOCATION	L0000023	VOLUME	492852.310	3626498.504	126.74
LOCATION	L0000024	VOLUME	492843.776	3626497.437	126.78
LOCATION	L0000025	VOLUME	492837.229	3626499.393	126.62
LOCATION	L0000026	VOLUME	492834.821	3626507.649	126.17
LOCATION	L0000027	VOLUME	492838.410	3626512.339	125.85
LOCATION	L0000028	VOLUME	492846.814	3626514.166	125.53
LOCATION	L0000029	VOLUME	492846.557	3626521.919	125.10
LOCATION	L0000030	VOLUME	492841.459	3626525.138	125.27
LOCATION	L0000031	VOLUME	492832.993	3626523.626	125.81
LOCATION	L0000032	VOLUME	492826.820	3626526.803	125.70
LOCATION	L0000033	VOLUME	492822.814	3626534.414	125.58
LOCATION	L0000034	VOLUME	492831.227	3626535.862	125.81
LOCATION	L0000035	VOLUME	492839.710	3626537.276	125.10
LOCATION	L0000036	VOLUME	492844.012	3626541.576	124.42
LOCATION	L0000037	VOLUME	492842.325	3626550.009	124.23
LOCATION	L0000038	VOLUME	492834.112	3626548.651	125.70
LOCATION	L0000039	VOLUME	492825.679	3626546.965	125.62
LOCATION	L0000040	VOLUME	492817.567	3626546.005	125.33
LOCATION	L0000041	VOLUME	492813.143	3626553.379	125.04
LOCATION	L0000042	VOLUME	492814.212	3626558.429	124.99
LOCATION	L0000043	VOLUME	492822.586	3626560.389	125.21
LOCATION	L0000044	VOLUME	492830.960	3626562.349	125.42
LOCATION	L0000045	VOLUME	492839.212	3626564.392	123.95
LOCATION	L0000046	VOLUME	492838.050	3626572.913	123.80
LOCATION	L0000047	VOLUME	492833.770	3626576.573	124.92
LOCATION	L0000048	VOLUME	492825.541	3626574.075	124.99
LOCATION	L0000049	VOLUME	492817.312	3626571.577	124.83
LOCATION	L0000050	VOLUME	492809.083	3626569.079	124.66
LOCATION	L0000051	VOLUME	492802.120	3626569.603	124.60
LOCATION	L0000052	VOLUME	492798.130	3626577.222	124.45
LOCATION	L0000053	VOLUME	492801.698	3626581.749	124.54
LOCATION	L0000054	VOLUME	492809.883	3626584.389	124.70
LOCATION	L0000055	VOLUME	492818.068	3626587.030	124.79
LOCATION	L0000056	VOLUME	492826.253	3626589.670	124.80
LOCATION	L0000057	VOLUME	492834.333	3626592.365	124.29
LOCATION	L0000058	VOLUME	492831.862	3626600.602	124.56
LOCATION	L0000059	VOLUME	492826.380	3626602.970	124.65
LOCATION	L0000060	VOLUME	492818.248	3626600.170	124.85
LOCATION	L0000061	VOLUME	492810.117	3626597.371	124.96
LOCATION	L0000062	VOLUME	492801.985	3626594.571	124.78
LOCATION	L0000063	VOLUME	492793.854	3626591.772	124.53
LOCATION	L0000064	VOLUME	492791.826	3626598.513	124.50
LOCATION	L0000065	VOLUME	492799.269	3626602.822	124.82
LOCATION	L0000066	VOLUME	492806.712	3626607.131	125.24
LOCATION	L0000067	VOLUME	492814.154	3626611.440	124.79
LOCATION	L0000068	VOLUME	492821.597	3626615.749	124.13

** End of LINE VOLUME Source ID = SLINE1

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC University Towers East

** PREFIX

** Length of Side = 8.60

** Configuration = Adjacent

** Emission Rate = 1.0

** Vertical Dimension = 6.80

** SZINIT = 3.16

** Nodes = 9

** 492990.613, 3625849.838, 141.90, 3.40, 4.00

** 492991.130, 3625821.898, 141.86, 3.40, 4.00

** 493043.906, 3625821.898, 141.96, 3.40, 4.00

** 493042.871, 3625833.798, 141.94, 3.40, 4.00

** 492999.409, 3625833.798, 141.87, 3.40, 4.00

** 492999.409, 3625843.629, 141.87, 3.40, 4.00

** 493041.319, 3625844.664, 141.94, 3.40, 4.00

** 493041.319, 3625853.460, 141.96, 3.40, 4.00

** 492996.822, 3625852.425, 141.89, 3.40, 4.00

**

LOCATION	L0000069	VOLUME	492990.693	3625845.539	141.80
LOCATION	L0000070	VOLUME	492990.852	3625836.940	141.87
LOCATION	L0000071	VOLUME	492991.011	3625828.342	141.87
LOCATION	L0000072	VOLUME	492993.286	3625821.898	141.86
LOCATION	L0000073	VOLUME	493001.886	3625821.898	141.87
LOCATION	L0000074	VOLUME	493010.486	3625821.898	141.87
LOCATION	L0000075	VOLUME	493019.086	3625821.898	141.89
LOCATION	L0000076	VOLUME	493027.686	3625821.898	141.91
LOCATION	L0000077	VOLUME	493036.286	3625821.898	141.94
LOCATION	L0000078	VOLUME	493043.821	3625822.874	141.97
LOCATION	L0000079	VOLUME	493043.076	3625831.442	141.96
LOCATION	L0000080	VOLUME	493036.637	3625833.798	141.92
LOCATION	L0000081	VOLUME	493028.037	3625833.798	141.88
LOCATION	L0000082	VOLUME	493019.437	3625833.798	141.85
LOCATION	L0000083	VOLUME	493010.837	3625833.798	141.83
LOCATION	L0000084	VOLUME	493002.237	3625833.798	141.85
LOCATION	L0000085	VOLUME	492999.409	3625839.571	141.84
LOCATION	L0000086	VOLUME	493003.949	3625843.741	141.79
LOCATION	L0000087	VOLUME	493012.546	3625843.954	141.77
LOCATION	L0000088	VOLUME	493021.144	3625844.166	141.78
LOCATION	L0000089	VOLUME	493029.741	3625844.378	141.81
LOCATION	L0000090	VOLUME	493038.339	3625844.590	141.83
LOCATION	L0000091	VOLUME	493041.319	3625850.283	141.76
LOCATION	L0000092	VOLUME	493035.898	3625853.334	141.70
LOCATION	L0000093	VOLUME	493027.300	3625853.134	141.70
LOCATION	L0000094	VOLUME	493018.702	3625852.934	141.69
LOCATION	L0000095	VOLUME	493010.105	3625852.734	141.69
LOCATION	L0000096	VOLUME	493001.507	3625852.534	141.71

** End of LINE VOLUME Source ID = SLINE2

** Source Parameters **

** LINE VOLUME Source ID = SLINE1

SRCPARAM	L0000001	0.0147058824	3.40	4.00	3.16

[illegible]

SRCPARAM	L0000052	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000053	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000054	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000055	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000056	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000057	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000058	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000059	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000060	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000061	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000062	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000063	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000064	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000065	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000066	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000067	0.0147058824	3.40	4.00	3.16
SRCPARAM	L0000068	0.0147058824	3.40	4.00	3.16

**

** LINE VOLUME Source ID = SLINE2

SRCPARAM	L0000069	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000070	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000071	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000072	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000073	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000074	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000075	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000076	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000077	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000078	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000079	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000080	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000081	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000082	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000083	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000084	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000085	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000086	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000087	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000088	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000089	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000090	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000091	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000092	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000093	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000094	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000095	0.0357142857	3.40	4.00	3.16
SRCPARAM	L0000096	0.0357142857	3.40	4.00	3.16

**

SRCGROUP	SLINE1	L0000001	L0000002	L0000003	L0000004	L0000005	L0000006
SRCGROUP	SLINE1	L0000007	L0000008	L0000009	L0000010	L0000011	L0000012

```
SRCGROUP SLINE1 L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
SRCGROUP SLINE1 L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
SRCGROUP SLINE1 L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
SRCGROUP SLINE1 L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
SRCGROUP SLINE1 L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
SRCGROUP SLINE1 L0000043 L0000044 L0000045 L0000046 L0000047 L0000048
SRCGROUP SLINE1 L0000049 L0000050 L0000051 L0000052 L0000053 L0000054
SRCGROUP SLINE1 L0000055 L0000056 L0000057 L0000058 L0000059 L0000060
SRCGROUP SLINE1 L0000061 L0000062 L0000063 L0000064 L0000065 L0000066
SRCGROUP SLINE1 L0000067 L0000068
SRCGROUP SLINE2 L0000069 L0000070 L0000071 L0000072 L0000073 L0000074
SRCGROUP SLINE2 L0000075 L0000076 L0000077 L0000078 L0000079 L0000080
SRCGROUP SLINE2 L0000081 L0000082 L0000083 L0000084 L0000085 L0000086
SRCGROUP SLINE2 L0000087 L0000088 L0000089 L0000090 L0000091 L0000092
SRCGROUP SLINE2 L0000093 L0000094 L0000095 L0000096
SRCGROUP ALL
```

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "SDSU Evolve Phase 1.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE ..\KVR_2020_2022_v23132.SFC

PROFFILE ..\KVR_2020_2022_v23132.PFL

SURFDATA 93107 2020

UAIRDATA 3190 2020

SITEDATA 1016 2020

PROFBASE 132.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

** Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST "SDSU Evolve Phase 1.AD\01H1GALL.PLT" 31
PLOTFILE 1 SLINE1 1ST "SDSU Evolve Phase 1.AD\01H1G001.PLT" 32
PLOTFILE 1 SLINE2 1ST "SDSU Evolve Phase 1.AD\01H1G002.PLT" 33
PLOTFILE PERIOD ALL "SDSU Evolve Phase 1.AD\PE00GALL.PLT" 34
PLOTFILE PERIOD SLINE1 "SDSU Evolve Phase 1.AD\PE00G001.PLT" 35
PLOTFILE PERIOD SLINE2 "SDSU Evolve Phase 1.AD\PE00G002.PLT" 36
SUMMFILE "SDSU Evolve Phase 1.sum"

OU FINISHED

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

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

A Total of 0 Fatal Error Message(s)
A Total of 1 Warning Message(s)
A Total of 0 Informational Message(s)

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

***** WARNING MESSAGES *****
MX W403 338 PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

*** SETUP Finishes Successfully ***

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
*** AERMET - VERSION 23132 *** ***
*** 16:01:20

 PAGE 1
*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** MODEL SETUP OPTIONS SUMMARY

*** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F

- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses RURAL Dispersion Only.
- * CCVR_Sub - Meteorological data includes CCVR substitutions
- * TEMP_Sub - Meteorological data includes TEMP substitutions
- * Model Assumes No FLAGPOLE Receptor Heights.
- * The User Specified a Pollutant Type of: PM₁₀

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

**This Run Includes: 96 Source(s); 3 Source Group(s); and 548
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 96 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

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

**The AERMET Input Meteorological Data Version Date: 23132

**Output Options Selected:

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

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

Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 132.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;

Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.7 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: SDSU Evolve Phase 1.err

**File for Summary of Results: SDSU Evolve Phase 1.sum

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
*** AERMET - VERSION 23132 ***
*** 16:01:20

PAGE 2

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT		ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY			(METERS)	(METERS)	(METERS)
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						
L0000001		0	0.14706E-01	492879.4	3626450.1	128.5	3.40	4.00
3.16	NO							
L0000002		0	0.14706E-01	492870.8	3626450.5	128.6	3.40	4.00
3.16	NO							
L0000003		0	0.14706E-01	492862.2	3626451.0	128.6	3.40	4.00
3.16	NO							
L0000004		0	0.14706E-01	492853.7	3626449.9	128.7	3.40	4.00
3.16	NO							
L0000005		0	0.14706E-01	492845.2	3626448.6	128.6	3.40	4.00
3.16	NO							
L0000006		0	0.14706E-01	492836.7	3626447.3	128.5	3.40	4.00
3.16	NO							
L0000007		0	0.14706E-01	492834.0	3626452.4	128.3	3.40	4.00
3.16	NO							
L0000008		0	0.14706E-01	492836.4	3626459.2	128.1	3.40	4.00
3.16	NO							

L0000009	0	0.14706E-01	492844.9	3626460.2	128.1	3.40	4.00
3.16 NO		NO					
L0000010	0	0.14706E-01	492853.5	3626461.1	128.2	3.40	4.00
3.16 NO		NO					
L0000011	0	0.14706E-01	492862.1	3626461.4	128.0	3.40	4.00
3.16 NO		NO					
L0000012	0	0.14706E-01	492870.7	3626461.4	127.5	3.40	4.00
3.16 NO		NO					
L0000013	0	0.14706E-01	492870.8	3626466.8	126.9	3.40	4.00
3.16 NO		NO					
L0000014	0	0.14706E-01	492866.8	3626474.2	126.8	3.40	4.00
3.16 NO		NO					
L0000015	0	0.14706E-01	492858.3	3626473.3	128.1	3.40	4.00
3.16 NO		NO					
L0000016	0	0.14706E-01	492849.7	3626472.4	128.0	3.40	4.00
3.16 NO		NO					
L0000017	0	0.14706E-01	492841.2	3626471.5	127.9	3.40	4.00
3.16 NO		NO					
L0000018	0	0.14706E-01	492837.8	3626476.6	127.7	3.40	4.00
3.16 NO		NO					
L0000019	0	0.14706E-01	492837.4	3626485.1	127.5	3.40	4.00
3.16 NO		NO					
L0000020	0	0.14706E-01	492846.0	3626485.7	127.7	3.40	4.00
3.16 NO		NO					
L0000021	0	0.14706E-01	492854.6	3626486.2	127.9	3.40	4.00
3.16 NO		NO					
L0000022	0	0.14706E-01	492856.0	3626491.0	127.5	3.40	4.00
3.16 NO		NO					
L0000023	0	0.14706E-01	492852.3	3626498.5	126.7	3.40	4.00
3.16 NO		NO					
L0000024	0	0.14706E-01	492843.8	3626497.4	126.8	3.40	4.00
3.16 NO		NO					
L0000025	0	0.14706E-01	492837.2	3626499.4	126.6	3.40	4.00
3.16 NO		NO					
L0000026	0	0.14706E-01	492834.8	3626507.6	126.2	3.40	4.00
3.16 NO		NO					
L0000027	0	0.14706E-01	492838.4	3626512.3	125.8	3.40	4.00
3.16 NO		NO					
L0000028	0	0.14706E-01	492846.8	3626514.2	125.5	3.40	4.00
3.16 NO		NO					
L0000029	0	0.14706E-01	492846.6	3626521.9	125.1	3.40	4.00
3.16 NO		NO					
L0000030	0	0.14706E-01	492841.5	3626525.1	125.3	3.40	4.00
3.16 NO		NO					
L0000031	0	0.14706E-01	492833.0	3626523.6	125.8	3.40	4.00
3.16 NO		NO					
L0000032	0	0.14706E-01	492826.8	3626526.8	125.7	3.40	4.00
3.16 NO		NO					
L0000033	0	0.14706E-01	492822.8	3626534.4	125.6	3.40	4.00
3.16 NO		NO					

L0000034	0	0.14706E-01	492831.2	3626535.9	125.8	3.40	4.00
3.16 NO		NO					
L0000035	0	0.14706E-01	492839.7	3626537.3	125.1	3.40	4.00
3.16 NO		NO					
L0000036	0	0.14706E-01	492844.0	3626541.6	124.4	3.40	4.00
3.16 NO		NO					
L0000037	0	0.14706E-01	492842.3	3626550.0	124.2	3.40	4.00
3.16 NO		NO					
L0000038	0	0.14706E-01	492834.1	3626548.7	125.7	3.40	4.00
3.16 NO		NO					
L0000039	0	0.14706E-01	492825.7	3626547.0	125.6	3.40	4.00
3.16 NO		NO					
L0000040	0	0.14706E-01	492817.6	3626546.0	125.3	3.40	4.00
3.16 NO		NO					

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 3

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** VOLUME SOURCE DATA ***

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

L0000041	0	0.14706E-01	492813.1	3626553.4	125.0	3.40	4.00
3.16 NO		NO					
L0000042	0	0.14706E-01	492814.2	3626558.4	125.0	3.40	4.00
3.16 NO		NO					
L0000043	0	0.14706E-01	492822.6	3626560.4	125.2	3.40	4.00
3.16 NO		NO					
L0000044	0	0.14706E-01	492831.0	3626562.3	125.4	3.40	4.00
3.16 NO		NO					
L0000045	0	0.14706E-01	492839.2	3626564.4	124.0	3.40	4.00
3.16 NO		NO					
L0000046	0	0.14706E-01	492838.0	3626572.9	123.8	3.40	4.00
3.16 NO		NO					
L0000047	0	0.14706E-01	492833.8	3626576.6	124.9	3.40	4.00
3.16 NO		NO					
L0000048	0	0.14706E-01	492825.5	3626574.1	125.0	3.40	4.00
3.16 NO		NO					

L0000049	0	0.14706E-01	492817.3	3626571.6	124.8	3.40	4.00
3.16 NO		NO					
L0000050	0	0.14706E-01	492809.1	3626569.1	124.7	3.40	4.00
3.16 NO		NO					
L0000051	0	0.14706E-01	492802.1	3626569.6	124.6	3.40	4.00
3.16 NO		NO					
L0000052	0	0.14706E-01	492798.1	3626577.2	124.5	3.40	4.00
3.16 NO		NO					
L0000053	0	0.14706E-01	492801.7	3626581.7	124.5	3.40	4.00
3.16 NO		NO					
L0000054	0	0.14706E-01	492809.9	3626584.4	124.7	3.40	4.00
3.16 NO		NO					
L0000055	0	0.14706E-01	492818.1	3626587.0	124.8	3.40	4.00
3.16 NO		NO					
L0000056	0	0.14706E-01	492826.3	3626589.7	124.8	3.40	4.00
3.16 NO		NO					
L0000057	0	0.14706E-01	492834.3	3626592.4	124.3	3.40	4.00
3.16 NO		NO					
L0000058	0	0.14706E-01	492831.9	3626600.6	124.6	3.40	4.00
3.16 NO		NO					
L0000059	0	0.14706E-01	492826.4	3626603.0	124.6	3.40	4.00
3.16 NO		NO					
L0000060	0	0.14706E-01	492818.2	3626600.2	124.8	3.40	4.00
3.16 NO		NO					
L0000061	0	0.14706E-01	492810.1	3626597.4	125.0	3.40	4.00
3.16 NO		NO					
L0000062	0	0.14706E-01	492802.0	3626594.6	124.8	3.40	4.00
3.16 NO		NO					
L0000063	0	0.14706E-01	492793.9	3626591.8	124.5	3.40	4.00
3.16 NO		NO					
L0000064	0	0.14706E-01	492791.8	3626598.5	124.5	3.40	4.00
3.16 NO		NO					
L0000065	0	0.14706E-01	492799.3	3626602.8	124.8	3.40	4.00
3.16 NO		NO					
L0000066	0	0.14706E-01	492806.7	3626607.1	125.2	3.40	4.00
3.16 NO		NO					
L0000067	0	0.14706E-01	492814.2	3626611.4	124.8	3.40	4.00
3.16 NO		NO					
L0000068	0	0.14706E-01	492821.6	3626615.7	124.1	3.40	4.00
3.16 NO		NO					
L0000069	0	0.35714E-01	492990.7	3625845.5	141.8	3.40	4.00
3.16 NO		NO					
L0000070	0	0.35714E-01	492990.9	3625836.9	141.9	3.40	4.00
3.16 NO		NO					
L0000071	0	0.35714E-01	492991.0	3625828.3	141.9	3.40	4.00
3.16 NO		NO					
L0000072	0	0.35714E-01	492993.3	3625821.9	141.9	3.40	4.00
3.16 NO		NO					
L0000073	0	0.35714E-01	493001.9	3625821.9	141.9	3.40	4.00
3.16 NO		NO					

L0000074	0	0.35714E-01	493010.5	3625821.9	141.9	3.40	4.00
3.16 NO		NO					
L0000075	0	0.35714E-01	493019.1	3625821.9	141.9	3.40	4.00
3.16 NO		NO					
L0000076	0	0.35714E-01	493027.7	3625821.9	141.9	3.40	4.00
3.16 NO		NO					
L0000077	0	0.35714E-01	493036.3	3625821.9	141.9	3.40	4.00
3.16 NO		NO					
L0000078	0	0.35714E-01	493043.8	3625822.9	142.0	3.40	4.00
3.16 NO		NO					
L0000079	0	0.35714E-01	493043.1	3625831.4	142.0	3.40	4.00
3.16 NO		NO					
L0000080	0	0.35714E-01	493036.6	3625833.8	141.9	3.40	4.00
3.16 NO		NO					

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 4

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** VOLUME SOURCE DATA ***

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

L0000081	0	0.35714E-01	493028.0	3625833.8	141.9	3.40	4.00
3.16 NO		NO					
L0000082	0	0.35714E-01	493019.4	3625833.8	141.9	3.40	4.00
3.16 NO		NO					
L0000083	0	0.35714E-01	493010.8	3625833.8	141.8	3.40	4.00
3.16 NO		NO					
L0000084	0	0.35714E-01	493002.2	3625833.8	141.9	3.40	4.00
3.16 NO		NO					
L0000085	0	0.35714E-01	492999.4	3625839.6	141.8	3.40	4.00
3.16 NO		NO					
L0000086	0	0.35714E-01	493003.9	3625843.7	141.8	3.40	4.00
3.16 NO		NO					
L0000087	0	0.35714E-01	493012.5	3625844.0	141.8	3.40	4.00
3.16 NO		NO					
L0000088	0	0.35714E-01	493021.1	3625844.2	141.8	3.40	4.00
3.16 NO		NO					

L0000089	0	0.35714E-01	493029.7	3625844.4	141.8	3.40	4.00
3.16 NO		NO					
L0000090	0	0.35714E-01	493038.3	3625844.6	141.8	3.40	4.00
3.16 NO		NO					
L0000091	0	0.35714E-01	493041.3	3625850.3	141.8	3.40	4.00
3.16 NO		NO					
L0000092	0	0.35714E-01	493035.9	3625853.3	141.7	3.40	4.00
3.16 NO		NO					
L0000093	0	0.35714E-01	493027.3	3625853.1	141.7	3.40	4.00
3.16 NO		NO					
L0000094	0	0.35714E-01	493018.7	3625852.9	141.7	3.40	4.00
3.16 NO		NO					
L0000095	0	0.35714E-01	493010.1	3625852.7	141.7	3.40	4.00
3.16 NO		NO					
L0000096	0	0.35714E-01	493001.5	3625852.5	141.7	3.40	4.00
3.16 NO		NO					

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 *** ***
 *** 16:01:20

PAGE 5

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs					
-----	-----					
SLINE1	L0000001	, L0000002	, L0000003	, L0000004	, L0000005	,
L0000006	, L0000007	, L0000008	,			
	L0000009	, L0000010	, L0000011	, L0000012	, L0000013	,
L0000014	, L0000015	, L0000016	,			
	L0000017	, L0000018	, L0000019	, L0000020	, L0000021	,
L0000022	, L0000023	, L0000024	,			
	L0000025	, L0000026	, L0000027	, L0000028	, L0000029	,
L0000030	, L0000031	, L0000032	,			
	L0000033	, L0000034	, L0000035	, L0000036	, L0000037	,
L0000038	, L0000039	, L0000040	,			
	L0000041	, L0000042	, L0000043	, L0000044	, L0000045	,
L0000046	, L0000047	, L0000048	,			
	L0000049	, L0000050	, L0000051	, L0000052	, L0000053	,

L0000054	,	L0000055	,	L0000056	,	
		L0000057	,	L0000058	,	L0000059
L0000062	,	L0000063	,	L0000064	,	L0000060
						L0000061
		L0000065	,	L0000066	,	L0000067
						L0000068
SLINE2		L0000069	,	L0000070	,	L0000071
L0000074	,	L0000075	,	L0000076	,	L0000072
						L0000073
		L0000077	,	L0000078	,	L0000079
L0000082	,	L0000083	,	L0000084	,	L0000080
						L0000081
		L0000085	,	L0000086	,	L0000087
L0000090	,	L0000091	,	L0000092	,	L0000088
						L0000089
		L0000093	,	L0000094	,	L0000095
						L0000096
ALL		L0000001	,	L0000002	,	L0000003
L0000006	,	L0000007	,	L0000008	,	L0000004
						L0000005
		L0000009	,	L0000010	,	L0000011
L0000014	,	L0000015	,	L0000016	,	L0000012
						L0000013
		L0000017	,	L0000018	,	L0000019
L0000022	,	L0000023	,	L0000024	,	L0000020
						L0000021
		L0000025	,	L0000026	,	L0000027
L0000030	,	L0000031	,	L0000032	,	L0000028
						L0000029
		L0000033	,	L0000034	,	L0000035
L0000038	,	L0000039	,	L0000040	,	L0000036
						L0000037
		L0000041	,	L0000042	,	L0000043
L0000046	,	L0000047	,	L0000048	,	L0000044
						L0000045
		L0000049	,	L0000050	,	L0000051
L0000054	,	L0000055	,	L0000056	,	L0000052
						L0000053

*** AERMOD - VERSION 23132 ***
 C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 6

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

```

-----
L0000062      L0000057      , L0000058      , L0000059      , L0000060      , L0000061      ,
               , L0000063      , L0000064      ,
L0000070      L0000065      , L0000066      , L0000067      , L0000068      , L0000069      ,
               , L0000071      , L0000072      ,
L0000078      L0000073      , L0000074      , L0000075      , L0000076      , L0000077      ,
               , L0000079      , L0000080      ,
L0000086      L0000081      , L0000082      , L0000083      , L0000084      , L0000085      ,
               , L0000087      , L0000088      ,
L0000094      L0000089      , L0000090      , L0000091      , L0000092      , L0000093      ,
               , L0000095      , L0000096      ,

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
*** AERMET - VERSION 23132 *** ***
*** 16:01:20

```

PAGE 7

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

```

490879.2, 491073.3, 491267.4, 491461.5, 491655.6, 491849.7, 492043.8,
492237.9, 492432.0, 492626.1,
492820.2, 493014.3, 493208.4, 493402.5, 493596.6, 493790.7, 493984.8,
494178.9, 494373.0, 494567.1,
494761.2,

```

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

```

3624590.4, 3624786.2, 3624982.1, 3625177.9, 3625373.8, 3625569.7, 3625765.5,
3625961.4, 3626157.2, 3626353.1,
3626549.0, 3626744.8, 3626940.7, 3627136.5, 3627332.4, 3627528.3, 3627724.1,
3627920.0, 3628115.8, 3628311.7,
3628507.6,

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
*** AERMET - VERSION 23132 *** ***

```

*** 16:01:20

PAGE 8

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58	
491849.68	492043.78	492237.88	492431.98			

3628507.56		25.00	43.20	43.10	48.60	67.50
80.10	95.10	99.80	104.90			
3628311.70		34.20	42.30	48.30	58.60	67.70
87.00	93.50	96.80	99.40			
3628115.84		35.30	39.20	49.50	59.30	74.90
90.50	89.90	94.60	98.40			
3627919.98		34.40	39.40	51.20	57.10	81.40
91.30	79.50	97.40	94.00			
3627724.12		29.60	38.00	49.50	69.90	82.20
89.30	62.50	99.00	55.90			
3627528.26		26.30	38.20	56.90	78.80	82.40
81.00	60.00	55.50	92.00			
3627332.40		25.20	36.20	57.80	66.70	68.80
45.50	41.60	85.80	115.00			
3627136.54		23.70	25.40	27.40	29.00	34.00
34.90	34.80	34.80	40.30			
3626940.68		35.80	38.20	39.70	41.60	40.50
45.80	55.20	53.60	49.60			
3626744.82		84.80	99.10	84.90	86.90	68.40
105.30	110.40	113.00	74.40			
3626548.96		89.90	97.80	78.80	108.90	95.30
82.60	127.20	121.30	108.70			
3626353.10		66.40	106.30	107.60	97.70	120.40
84.80	122.30	133.50	133.80			
3626157.24		38.60	71.90	115.10	118.10	120.60
115.70	115.40	127.50	126.90			
3625961.38		53.40	50.50	63.30	86.80	120.70
119.20	100.10	103.40	114.00			
3625765.52		52.20	100.40	87.70	59.60	70.40
76.70	86.10	95.90	121.70			
3625569.66		80.60	94.20	115.10	119.50	106.20
110.80	76.20	86.10	100.00			
3625373.80		73.80	91.40	81.80	120.10	123.20
122.50	106.00	109.80	126.70			

3625177.94		64.10	115.10	113.40	99.90	122.20
121.80	120.30	97.10	128.30			
3624982.08		74.00	113.60	110.50	117.80	119.20
121.10	121.20	106.70	124.00			
3624786.22		109.50	96.90	115.30	117.60	118.70
120.30	120.60	109.90	111.30			
3624590.36		108.30	109.70	105.40	113.00	116.20
118.50	119.60	120.80	117.70			

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 9

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56		106.80	107.70	93.20	107.90	111.20
118.20	128.90	146.10	192.00			
3628311.70		103.20	106.80	82.70	90.50	112.70
121.70	133.00	155.40	216.90			
3628115.84		100.50	85.20	94.30	121.30	121.10
124.20	138.60	157.00	216.70			
3627919.98		76.70	87.30	82.50	121.70	131.00
130.00	141.30	170.80	228.80			
3627724.12		71.90	122.60	125.30	119.50	108.60
132.70	144.30	164.50	197.70			
3627528.26		112.50	95.30	119.80	130.00	130.40
124.60	139.30	151.20	167.00			
3627332.40		106.20	98.30	119.00	122.00	131.90
136.80	143.30	149.40	146.80			
3627136.54		42.50	42.90	43.20	48.90	81.30
127.20	140.70	140.90	134.10			
3626940.68		48.30	57.70	56.90	63.20	91.90
114.10	125.50	112.20	129.40			
3626744.82		112.00	108.40	100.30	105.10	115.20
91.80	98.50	100.30	105.90			
3626548.96		100.70	125.40	110.00	132.60	132.60
111.90	123.60	119.40	102.90			
3626353.10		133.90	135.30	116.80	134.20	135.40

133.50	133.00	132.60	112.90			
3626157.24	130.90	136.40	133.20	138.60	138.90	
131.70	130.10	137.20	139.30			
3625961.38	128.60	139.60	141.20	140.80	139.70	
140.00	133.40	140.10	140.40			
3625765.52	116.60	141.00	141.80	140.70	137.00	
141.00	143.30	142.70	140.40			
3625569.66	106.70	112.70	139.30	129.90	118.50	
142.10	143.30	142.80	142.50			
3625373.80	116.10	136.50	108.00	115.20	114.50	
122.80	134.00	143.50	143.10			
3625177.94	114.50	129.90	134.00	125.90	138.00	
136.00	143.70	144.90	144.30			
3624982.08	129.20	132.80	140.40	129.60	142.20	
144.40	144.30	144.80	143.80			
3624786.22	112.40	130.90	140.80	141.40	143.70	
144.90	143.10	143.90	144.70			
3624590.36	128.90	125.80	139.80	146.80	140.40	
135.80	136.30	143.60	144.90			

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 10

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	494372.98	494567.08	494761.18	X-COORD (METERS)
3628507.56	229.10	230.10	216.80	
3628311.70	243.40	239.50	220.40	
3628115.84	250.70	248.30	231.70	
3627919.98	236.60	228.70	231.60	
3627724.12	215.30	186.80	220.90	
3627528.26	166.80	162.70	199.80	
3627332.40	145.10	150.60	186.20	
3627136.54	139.60	142.00	153.50	
3626940.68	132.20	133.30	137.40	
3626744.82	111.80	122.70	128.10	
3626548.96	105.00	107.30	108.60	
3626353.10	134.50	126.00	130.90	
3626157.24	135.10	139.70	118.20	

3625961.38	127.30	140.60	124.00
3625765.52	138.10	139.50	135.60
3625569.66	141.30	135.60	133.10
3625373.80	142.50	141.20	141.10
3625177.94	143.10	142.00	141.10
3624982.08	141.00	142.30	135.30
3624786.22	143.90	135.50	135.10
3624590.36	141.60	127.80	138.60

^ *** AERMOD - VERSION 23132 *** C:\Users\apol1\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 11

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	126.10	43.20	43.10	88.30	67.50
93.50	95.10	99.80	104.90		
3628311.70	125.30	42.30	49.80	58.60	93.50
93.50	93.50	96.80	99.40		
3628115.84	35.30	45.00	50.40	85.00	90.10
90.50	89.90	94.60	98.40		
3627919.98	34.40	39.40	79.50	89.70	81.40
91.30	100.00	97.40	96.40		
3627724.12	29.60	78.80	80.10	79.70	82.20
89.30	126.80	99.00	251.60		
3627528.26	109.80	79.50	79.50	78.80	82.40
85.80	127.50	127.80	127.80		
3627332.40	111.30	111.30	57.80	66.70	83.00
130.40	134.50	126.80	126.20		
3627136.54	117.50	120.10	131.00	134.50	134.70
134.70	134.70	136.60	136.60		
3626940.68	117.50	120.10	131.00	134.20	134.70
134.70	134.70	136.20	137.40		
3626744.82	111.30	111.30	112.70	118.80	134.20
126.60	126.00	119.90	136.60		
3626548.96	111.30	111.30	119.70	116.10	130.40
134.70	127.20	134.70	134.70		
3626353.10	119.20	109.30	116.30	121.40	120.40

134.70	132.60	133.50	133.80			
3626157.24	121.80	119.20	117.60	118.10	120.60	
115.70	131.80	127.50	132.70			
3625961.38	119.80	123.20	123.30	122.50	120.70	
119.20	131.80	133.20	128.30			
3625765.52	122.30	112.00	121.80	123.60	123.60	
130.40	128.90	124.60	121.70			
3625569.66	115.20	116.40	115.10	121.50	123.60	
121.80	128.40	136.50	141.00			
3625373.80	116.50	116.40	123.60	120.10	123.20	
122.50	122.60	127.90	126.70			
3625177.94	116.50	115.10	115.20	123.10	122.20	
121.80	120.30	129.20	128.30			
3624982.08	116.60	113.60	114.90	117.80	119.20	
121.10	121.20	119.10	124.00			
3624786.22	109.50	114.70	115.30	117.60	118.70	
120.30	120.60	121.10	125.30			
3624590.36	108.30	109.70	105.40	113.00	116.20	
118.50	119.60	120.80	117.70			

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***

 16:01:20

PAGE 12

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD					X-COORD (METERS)	
(METERS)		492626.08	492820.18	493014.28	493208.38	493402.48
493596.58		493790.68	493984.78	494178.88		

3628507.56	106.80	107.70	252.50	252.50	252.50
252.50	252.50	252.50	252.50		
3628311.70	103.20	106.80	252.50	252.50	252.50
252.50	252.50	252.50	252.50		
3628115.84	100.50	252.50	252.50	252.50	252.50
252.50	252.50	252.50	252.50		
3627919.98	252.10	252.50	252.50	252.50	252.50
252.50	252.50	252.50	239.10		
3627724.12	252.50	122.60	125.30	252.50	252.50
252.50	252.50	252.50	252.50		
3627528.26	127.80	129.10	127.50	130.00	252.50
252.50	252.50	252.50	252.50		

3627332.40		127.80	127.80	121.40	122.00	239.10
252.50	252.50	252.50	258.90			
3627136.54		252.50	252.50	252.50	258.90	252.50
250.90	244.20	252.50	258.90			
3626940.68		138.70	250.90	252.50	252.50	252.50
244.20	244.20	258.90	258.90			
3626744.82		123.20	125.30	133.70	134.30	132.80
251.40	252.10	258.90	258.90			
3626548.96		136.60	125.40	136.20	132.60	132.60
137.70	133.90	135.10	258.90			
3626353.10		133.90	135.30	137.90	134.20	139.00
135.00	134.90	135.30	140.40			
3626157.24		130.90	136.40	139.20	138.60	138.90
140.50	130.10	137.20	139.30			
3625961.38		134.70	139.60	141.20	140.80	139.70
140.00	133.40	140.10	140.40			
3625765.52		141.20	141.00	141.80	140.70	137.00
141.00	143.30	142.70	140.40			
3625569.66		142.00	142.20	139.30	140.30	143.10
142.10	143.30	142.80	142.50			
3625373.80		136.60	136.50	141.60	140.10	142.70
143.80	134.00	143.50	143.10			
3625177.94		136.00	139.40	140.50	140.40	138.00
143.70	143.70	144.90	144.30			
3624982.08		129.20	132.80	140.40	143.30	142.20
144.40	144.30	144.80	143.80			
3624786.22		131.30	130.90	140.80	141.40	143.70
144.90	143.10	143.90	144.70			
3624590.36		128.90	131.00	139.80	146.80	145.70
137.70	136.30	143.60	144.90			

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 *** ***
 *** 16:01:20

PAGE 13

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	494372.98	494567.08	494761.18	X-COORD (METERS)
3628507.56	229.10	230.10	232.70	
3628311.70	251.90	241.80	250.40	

3628115.84	250.70	248.30	246.90
3627919.98	240.20	248.90	231.60
3627724.12	244.20	258.90	232.50
3627528.26	258.90	258.90	258.90
3627332.40	258.90	258.90	258.90
3627136.54	258.90	258.90	258.90
3626940.68	258.90	258.90	258.90
3626744.82	258.90	258.90	258.90
3626548.96	258.90	258.90	258.90
3626353.10	134.50	140.20	130.90
3626157.24	138.10	139.70	140.80
3625961.38	140.20	140.60	141.00
3625765.52	138.10	139.50	135.60
3625569.66	141.30	135.60	133.10
3625373.80	142.50	141.20	141.10
3625177.94	143.10	142.00	141.10
3624982.08	141.00	142.30	140.70
3624786.22	143.90	142.50	141.10
3624590.36	141.60	142.40	141.20

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 14

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

(492883.2, 3625830.8,	141.7,	141.7,	0.0);	(492919.8,
3625834.6,	142.1,	142.1,	0.0);	
(492955.1, 3625845.5,	142.1,	142.1,	0.0);	(493069.9,
3625832.7,	142.2,	142.2,	0.0);	
(493094.9, 3625832.7,	142.2,	142.2,	0.0);	(493110.9,
3625837.2,	142.1,	142.1,	0.0);	
(493152.0, 3625834.0,	141.9,	141.9,	0.0);	(493166.7,
3625837.9,	141.8,	141.8,	0.0);	
(493187.9, 3625836.6,	141.7,	141.7,	0.0);	(493201.3,
3625836.6,	141.6,	141.6,	0.0);	
(493240.4, 3625836.6,	141.0,	141.0,	0.0);	(492881.3,
3625908.4,	141.6,	141.6,	0.0);	
(492907.0, 3625898.1,	142.3,	142.3,	0.0);	(492901.8,
3625911.6,	141.8,	141.8,	0.0);	
(492928.1, 3625914.8,	141.7,	141.7,	0.0);	(492933.9,
3625898.1,	142.3,	142.3,	0.0);	
(492951.9, 3625908.4,	141.8,	141.8,	0.0);	(492973.7,
3625907.1,	141.3,	141.3,	0.0);	
(492993.5, 3625914.2,	141.0,	141.0,	0.0);	(492996.1,

3625897.5,	141.0,	141.0,	0.0);		
(493016.0,	3625896.8,	141.8,	141.8,	0.0);	(493023.0,
3625912.2,	141.7,	141.7,	0.0);		
(493044.2,	3625907.1,	141.7,	141.7,	0.0);	(493066.7,
3625907.8,	141.0,	141.0,	0.0);		
(493085.2,	3625912.2,	141.4,	141.4,	0.0);	(493087.2,
3625895.6,	141.3,	141.3,	0.0);		
(493109.0,	3625911.6,	141.5,	141.5,	0.0);	(493112.2,
3625897.5,	141.4,	141.4,	0.0);		
(493134.0,	3625902.0,	140.9,	140.9,	0.0);	(492874.3,
3625788.5,	140.9,	140.9,	0.0);		
(492894.1,	3625789.1,	141.3,	141.3,	0.0);	(492910.2,
3625790.4,	141.4,	141.4,	0.0);		
(492930.7,	3625786.5,	141.4,	141.4,	0.0);	(492947.4,
3625791.0,	141.6,	141.6,	0.0);		
(492963.4,	3625787.8,	141.6,	141.6,	0.0);	(492982.6,
3625787.8,	141.6,	141.6,	0.0);		
(493000.0,	3625787.8,	141.7,	141.7,	0.0);	(493021.1,
3625791.0,	141.8,	141.8,	0.0);		
(493036.5,	3625789.1,	141.9,	141.9,	0.0);	(493055.8,
3625789.8,	141.9,	141.9,	0.0);		
(493076.3,	3625787.8,	141.9,	141.9,	0.0);	(493094.9,
3625787.8,	141.9,	141.9,	0.0);		
(493112.8,	3625788.5,	141.8,	141.8,	0.0);	(493129.5,
3625787.2,	141.7,	141.7,	0.0);		
(493148.7,	3625787.2,	141.6,	141.6,	0.0);	(493164.8,
3625790.4,	141.5,	141.5,	0.0);		
(493184.6,	3625789.1,	141.2,	141.2,	0.0);	(493202.0,
3625791.0,	141.1,	141.1,	0.0);		
(493221.2,	3625790.4,	141.0,	141.0,	0.0);	(493238.5,
3625791.0,	140.7,	140.7,	0.0);		
(492783.8,	3626648.4,	123.5,	123.5,	0.0);	(492789.0,
3626677.3,	123.2,	123.2,	0.0);		
(492759.5,	3626660.0,	123.6,	123.6,	0.0);	(492755.6,
3626685.0,	122.5,	122.5,	0.0);		
(492754.3,	3626706.2,	121.1,	121.1,	0.0);	(492720.4,
3626707.4,	121.5,	121.5,	0.0);		
(492758.8,	3626739.5,	118.0,	121.2,	0.0);	(492703.7,
3626740.8,	119.8,	121.1,	0.0);		
(492688.3,	3626714.5,	120.9,	120.9,	0.0);	(492652.4,
3626742.7,	116.8,	121.1,	0.0);		
(492660.7,	3626713.2,	116.8,	123.2,	0.0);	(492679.3,
3626674.1,	122.8,	122.8,	0.0);		
(492692.8,	3626669.0,	123.1,	123.1,	0.0);	(492676.8,
3626651.0,	123.2,	123.2,	0.0);		
(492726.1,	3626643.3,	123.7,	123.7,	0.0);	(492726.8,
3626607.4,	124.2,	124.2,	0.0);		
(492708.8,	3626624.7,	124.0,	124.0,	0.0);	(492689.6,
3626622.1,	123.8,	123.8,	0.0);		
(492704.3,	3626601.0,	124.2,	124.2,	0.0);	(492716.5,

```

3626577.3,    124.6,    124.6,    0.0);
    ( 492739.6, 3626591.4,    124.8,    124.8,    0.0);    ( 492740.2,
3626567.0,    125.1,    125.1,    0.0);
    ( 492755.0, 3626574.0,    125.2,    125.2,    0.0);    ( 492750.5,
3626550.3,    125.2,    125.2,    0.0);
    ( 492777.4, 3626545.2,    125.2,    125.2,    0.0);    ( 492771.7,
3626525.3,    125.3,    125.3,    0.0);
    ( 492780.0, 3626415.0,    129.0,    135.1,    0.0);    ( 492778.7,
3626388.1,    131.1,    135.1,    0.0);
    ( 492747.9, 3626386.2,    131.2,    134.8,    0.0);    ( 492742.2,
3626418.2,    129.7,    129.7,    0.0);
    ( 492699.2, 3626422.7,    129.8,    129.8,    0.0);    ( 492697.9,
3626391.9,    131.4,    134.8,    0.0);
    ( 492678.7, 3626411.8,    131.0,    134.7,    0.0);    ( 492626.1,
3626426.6,    132.8,    133.6,    0.0);
    ( 492606.8, 3626435.5,    128.9,    134.1,    0.0);    ( 492599.2,
3626405.4,    132.5,    132.5,    0.0);
    ( 492491.2, 3626644.9,    115.1,    116.5,    0.0);    ( 492517.4,
3626636.7,    113.5,    133.7,    0.0);
    ( 492521.2, 3626603.4,    117.5,    117.5,    0.0);    ( 492521.7,
3626582.2,    118.3,    118.3,    0.0);

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24

```

```

*** AERMET - VERSION 23132 *** ***

```

```

*** 16:01:20

```

PAGE 15

```

*** MODELOPTs:   RegDFault  CONC  ELEV  RURAL  SigA Data

```

```

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

```

```

    ( 492512.5, 3626553.8,    118.7,    133.7,    0.0);    ( 492513.5,
3626533.1,    118.0,    133.7,    0.0);
    ( 492501.0, 3626506.4,    118.3,    133.7,    0.0);    ( 492490.6,
3626485.7,    120.5,    133.7,    0.0);
    ( 492479.2, 3626464.4,    122.4,    133.7,    0.0);    ( 492466.1,
3626447.0,    126.2,    133.2,    0.0);
    ( 492447.6, 3626418.7,    131.4,    131.4,    0.0);    ( 492431.8,
3626430.6,    131.2,    131.2,    0.0);
    ( 492481.9, 3626620.3,    116.3,    134.1,    0.0);    ( 492482.5,
3626594.2,    117.8,    133.7,    0.0);
    ( 492479.2, 3626572.9,    118.5,    134.1,    0.0);    ( 492477.0,
3626546.8,    118.9,    134.1,    0.0);
    ( 492467.8, 3626523.3,    118.7,    134.4,    0.0);    ( 492463.9,
3626507.5,    119.3,    134.6,    0.0);
    ( 492450.9, 3626492.8,    121.3,    134.6,    0.0);    ( 492427.4,
3626474.8,    126.0,    133.7,    0.0);
    ( 492402.9, 3626460.6,    131.3,    133.2,    0.0);

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 *** ***
 *** 16:01:20

PAGE 16

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT
 BE PERFORMED *
 LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR
 FASTAREA/FASTALL

DISTANCE	SOURCE	- - RECEPTOR LOCATION - -	
(METERS)	ID	XR (METERS)	YR (METERS)
- - -			
	L0000039	492820.2	3626549.0
-2.75			
	L0000040	492820.2	3626549.0
-4.66			
	L0000041	492820.2	3626549.0
-0.29			

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 *** ***
 *** 16:01:20

PAGE 17

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1		
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1		
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1		
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1		
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1		

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

10.80, 1.54, 3.09, 5.14, 8.23,

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

Surface file: ..\KVR_2020_2022_v23132.SFC
Met Version: 23132
Profile file: ..\KVR_2020_2022_v23132.PFL

Profile format: FREE

First 24 hours of scalar data														
YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	01	01	1	01	-18.2	0.163	-9.000	-9.000	-999.	158.	21.3	0.10	1.21	
1.00		2.82	57.		10.0	283.1	10.0							
20	01	01	1	02	-8.1	0.093	-9.000	-9.000	-999.	70.	8.9	0.12	1.21	
1.00		2.06	73.		10.0	282.6	10.0							

20	01	01	1	03	-10.2	0.104	-9.000	-9.000	-999.	80.	9.7	0.10	1.21
1.00		2.37		54.	10.0	283.5	10.0						
20	01	01	1	04	-8.0	0.092	-9.000	-9.000	-999.	67.	8.6	0.10	1.21
1.00		2.10		59.	10.0	283.0	10.0						
20	01	01	1	05	-11.2	0.109	-9.000	-9.000	-999.	86.	10.4	0.12	1.21
1.00		2.41		63.	10.0	282.4	10.0						
20	01	01	1	06	-7.4	0.089	-9.000	-9.000	-999.	64.	8.5	0.12	1.21
1.00		1.97		64.	10.0	282.6	10.0						
20	01	01	1	07	-7.1	0.087	-9.000	-9.000	-999.	61.	8.3	0.12	1.21
1.00		1.92		70.	10.0	282.5	10.0						
20	01	01	1	08	-2.1	0.053	-9.000	-9.000	-999.	29.	6.3	0.14	1.21
0.50		1.12		129.	10.0	282.4	10.0						
20	01	01	1	09	36.2	0.144	0.391	0.005	59.	131.	-7.4	0.17	1.21
0.30		1.03		112.	10.0	286.4	10.0						
20	01	01	1	10	90.0	0.280	0.921	0.005	310.	356.	-21.8	0.14	1.21
0.23		2.46		148.	10.0	289.0	10.0						
20	01	01	1	11	126.8	0.254	1.266	0.005	572.	308.	-11.6	0.16	1.21
0.21		2.01		225.	10.0	290.5	10.0						
20	01	01	1	12	144.1	0.324	1.461	0.005	774.	444.	-21.2	0.16	1.21
0.20		2.77		211.	10.0	291.3	10.0						
20	01	01	1	13	141.4	0.344	1.588	0.005	1011.	485.	-25.8	0.16	1.21
0.20		3.00		210.	10.0	291.2	10.0						
20	01	01	1	14	118.9	0.362	1.554	0.005	1126.	523.	-35.6	0.16	1.21
0.21		3.26		234.	10.0	290.8	10.0						
20	01	01	1	15	77.8	0.368	1.376	0.005	1195.	535.	-56.9	0.16	1.21
0.24		3.44		227.	10.0	290.3	10.0						
20	01	01	1	16	21.2	0.319	0.897	0.005	1212.	434.	-136.4	0.17	1.21
0.33		3.08		244.	10.0	289.4	10.0						
20	01	01	1	17	-7.3	0.092	-9.000	-9.000	-999.	146.	9.7	0.16	1.21
0.61		1.92		236.	10.0	288.2	10.0						
20	01	01	1	18	-8.4	0.098	-9.000	-9.000	-999.	74.	10.0	0.20	1.21
1.00		1.92		193.	10.0	287.3	10.0						
20	01	01	1	19	-6.6	0.086	-9.000	-9.000	-999.	61.	8.6	0.14	1.21
1.00		1.83		140.	10.0	286.6	10.0						
20	01	01	1	20	-2.9	0.057	-9.000	-9.000	-999.	33.	5.7	0.14	1.21
1.00		1.21		144.	10.0	286.2	10.0						
20	01	01	1	21	-3.2	0.060	-9.000	-9.000	-999.	35.	6.0	0.17	1.21
1.00		1.21		99.	10.0	285.3	10.0						
20	01	01	1	22	-5.1	0.075	-9.000	-9.000	-999.	49.	7.3	0.12	1.21
1.00		1.65		76.	10.0	284.8	10.0						
20	01	01	1	23	-2.1	0.048	-9.000	-9.000	-999.	26.	4.8	0.17	1.21
1.00		0.98		99.	10.0	284.5	10.0						
20	01	01	1	24	-4.4	0.069	-9.000	-9.000	-999.	43.	6.6	0.12	1.21
1.00		1.52		78.	10.0	283.8	10.0						

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
20	01	01	01	10.0	1	57.	2.82	283.2	6.0	-99.00	0.29

F indicates top of profile (=1) or below (=0)
 ^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 19

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

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

** CONC OF PM_10 IN MICROGRAMS/M**3
 **
 Y-COORD | X-COORD (METERS)
 (METERS) | 490879.18 491073.28 491267.38 491461.48 491655.58
 491849.68 492043.78 492237.88 492431.98

 3628507.56 | 0.72076 0.77891 0.83437 0.89189 0.95668
 1.01956 | 1.08837 1.13784 1.19644
 3628311.70 | 0.77783 0.85423 0.92949 1.00437 1.08307
 1.17673 | 1.25523 1.30963 1.35089
 3628115.84 | 0.83390 0.92851 1.03156 1.13440 1.23936
 1.36257 | 1.46349 1.54510 1.60440
 3627919.98 | 0.89436 1.00350 1.13358 1.27717 1.42913
 1.58649 | 1.72532 1.88163 1.94204
 3627724.12 | 0.96429 1.08625 1.23749 1.42483 1.64050
 1.86260 | 2.06597 2.32959 2.42222
 3627528.26 | 1.04975 1.18643 1.35739 1.57940 1.85807
 2.18680 | 2.52242 2.88082 3.19569
 3627332.40 | 1.13987 1.30403 1.50547 1.75760 2.08876
 2.53107 | 3.09604 3.72651 4.79734
 3627136.54 | 1.22320 1.41734 1.66217 1.97498 2.38226
 2.93583 | 3.73659 4.85765 6.15452
 3626940.68 | 1.29816 1.51964 1.80702 2.18918 2.71140
 3.44845 | 4.53135 6.24697 9.08216

3626744.82		1.39366	1.68476	1.95754	2.39779	3.01331
4.03538		5.64080	8.34795	13.18717		
3626548.96		1.55391	1.86962	2.20316	2.93694	3.51143
4.66962		8.76409	12.55491	19.40542		
3626353.10		1.72247	2.22381	2.71012	3.19604	5.12810
5.65981		10.61274	16.57505	29.17265		
3626157.24		1.84064	2.22949	3.27591	4.34982	6.00449
7.70059		11.06581	19.28214	23.94351		
3625961.38		2.02242	2.48766	3.13360	4.04796	6.68805
8.48931		8.66508	9.40435	9.53316		
3625765.52		2.23101	2.84888	3.36336	4.12820	4.98342
5.60452		5.78853	5.65898	6.82716		
3625569.66		2.33932	2.82918	3.90667	4.62930	4.15224
4.33385		3.90041	3.81977	3.87156		
3625373.80		2.30853	2.64801	2.82819	3.70371	3.82613
3.71863		2.95964	3.01413	3.83389		
3625177.94		2.10909	2.69477	2.68071	2.35580	2.88853
2.81896		2.73816	2.21463	3.03036		
3624982.08		1.79669	2.18142	2.08877	2.22539	2.21296
2.23856		2.22026	1.91837	2.44375		
3624786.22		1.73765	1.56086	1.79804	1.80509	1.80933
1.82605		1.83179	1.68015	1.77638		
3624590.36		1.44495	1.43853	1.35058	1.44002	1.48546
1.50816		1.55002	1.62896	1.63889		

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 *** ***
 *** 16:01:20

PAGE 20

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD |

X-COORD (METERS)

(METERS)	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -

3628507.56	1.22661	1.22455	1.09852	1.15602	1.14822
1.17965	1.16901	0.33311	0.05406		
3628311.70	1.39551	1.42075	1.27405	1.23538	1.34593
1.40379	0.99648	0.19034	0.04575		
3628115.84	1.64319	1.58521	1.54779	1.85748	1.74527
1.67044	0.75974	0.18342	0.05029		
3627919.98	1.96524	1.96144	1.88215	2.26355	1.79277
1.80971	0.68983	0.11146	0.05474		
3627724.12	2.50181	3.20200	3.12902	2.72748	2.16557
1.77275	0.56854	0.14667	0.07523		
3627528.26	3.60541	3.35388	3.82883	3.37524	2.90411
2.89560	1.00236	0.32535	0.14945		
3627332.40	4.78480	4.76933	5.16738	4.85236	3.25785
1.68499	0.78507	0.42821	0.48304		
3627136.54	7.21039	7.40860	6.63454	5.48307	4.33941
4.44101	1.18393	1.00471	1.49542		
3626940.68	12.65018	13.82654	11.41858	8.20611	5.79034
4.50859	4.06139	2.66701	2.50663		
3626744.82	25.77024	39.50960	23.81638	12.61283	7.95983
5.00460	3.63588	2.79219	2.28752		
3626548.96	53.43820	529.03266	53.69492	17.34468	9.64771
6.33602	5.34758	3.77300	2.49356		
3626353.10	48.37223	40.67782	53.52556	23.81197	11.21503
7.71260	5.34541	3.96147	2.98538		
3626157.24	21.69824	13.67696	19.66965	11.58216	9.61922
9.81816	6.89465	3.99072	2.71229		
3625961.38	11.97202	5.90672	5.37607	6.12162	6.34700
5.63946	6.56280	3.99818	3.08322		
3625765.52	6.51724	3.73723	3.66283	4.33104	5.53242
4.05730	3.18176	3.16155	3.24172		
3625569.66	4.22970	4.58250	3.45444	5.21249	4.67788
2.86658	2.65557	2.56921	2.46897		
3625373.80	3.57694	3.26703	3.26189	3.47644	3.36726
3.61660	3.26035	2.12775	2.05256		
3625177.94	2.77801	3.15285	2.75240	3.10280	2.47493
2.77933	1.83424	1.57976	1.69570		
3624982.08	2.55685	2.42264	1.70734	2.49613	1.64451
1.48675	1.60625	1.42095	1.44503		
3624786.22	1.85435	2.06387	1.43109	1.49997	1.30018
1.22982	1.46678	1.40859	1.21352		
3624590.36	1.78341	1.78081	1.30988	0.93505	1.35115
1.56874	1.57990	1.28957	1.14469		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***

*** 16:01:20

PAGE 21

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)

494372.98	494567.08	494761.18

3628507.56	0.03731	0.03512	0.03569
3628311.70	0.03825	0.03756	0.03908
3628115.84	0.04257	0.04162	0.04169
3627919.98	0.05131	0.04955	0.04550
3627724.12	0.06325	0.07416	0.05055
3627528.26	0.14154	0.15016	0.06340
3627332.40	0.50321	0.30145	0.08301
3627136.54	0.86537	0.64395	0.25496
3626940.68	1.69114	1.31806	0.89152
3626744.82	1.99687	1.90145	1.63971
3626548.96	2.05080	1.74251	1.50101
3626353.10	2.22359	2.23016	1.74518
3626157.24	2.51343	1.69006	1.87614
3625961.38	3.17360	1.96116	2.09751
3625765.52	2.93555	2.29823	2.10748
3625569.66	2.51217	2.63619	2.27401
3625373.80	1.97537	2.03454	1.92908
3625177.94	1.71785	1.67041	1.67162
3624982.08	1.68739	1.51765	1.68787
3624786.22	1.24649	1.62720	1.54880
3624590.36	1.20496	1.41234	1.31501

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24

*** AERMET - VERSION 23132 ***
*** 16:01:20

PAGE 22

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	3.75161	492919.80
3625834.65	3.62312		
492955.07	3625845.55	3.83308	493069.86
3625832.73	3.95152		
493094.87	3625832.73	3.98194	493110.90
3625837.21	4.07316		
493151.95	3625834.01	4.22845	493166.70
3625837.86	4.34456		
493187.86	3625836.57	4.47702	493201.33
3625836.57	4.55947		
493240.44	3625836.57	4.88044	492881.32
3625908.40	4.24493		
492906.98	3625898.14	3.90739	492901.84
3625911.60	4.22716		
492928.14	3625914.81	4.39338	492933.91
3625898.14	4.02446		
492951.87	3625908.40	4.38450	492973.67
3625907.11	4.70349		
492993.55	3625914.17	5.00118	492996.11
3625897.50	4.87013		
493015.99	3625896.85	4.48039	493023.05
3625912.24	4.69370		
493044.21	3625907.11	4.67120	493066.66

3625907.76	5.05088		
493085.25	3625912.24	4.95431	493087.18
3625895.57	4.83422		
493108.98	3625911.60	4.97197	493112.19
3625897.50	4.87942		
493133.99	3625901.98	5.27265	492874.27
3625788.48	3.84274		
492894.15	3625789.12	3.68762	492910.18
3625790.40	3.65370		
492930.70	3625786.55	3.65240	492947.38
3625791.04	3.68208		
492963.41	3625787.84	3.71449	492982.65
3625787.84	3.76274		
492999.96	3625787.84	3.78634	493021.12
3625791.04	3.80703		
493036.52	3625789.12	3.80200	493055.75
3625789.76	3.80825		
493076.28	3625787.84	3.80577	493094.87
3625787.84	3.81830		
493112.83	3625788.48	3.86767	493129.50
3625787.19	3.92206		
493148.74	3625787.19	4.00776	493164.77
3625790.40	4.10599		
493184.65	3625789.12	4.23941	493201.97
3625791.04	4.35054		
493221.21	3625790.40	4.45978	493238.52
3625791.04	4.62700		
492783.85	3626648.44	126.00981	492788.98
3626677.30	86.85297		
492759.48	3626659.99	95.27569	492755.63
3626685.00	69.86759		
492754.35	3626706.16	55.31384	492720.36
3626707.44	49.33420		
492758.84	3626739.51	41.01080	492703.69
3626740.79	36.61533		
492688.30	3626714.50	40.89331	492652.38
3626742.71	29.16036		
492660.72	3626713.21	34.09574	492679.32
3626674.09	51.17897		
492692.79	3626668.96	57.47556	492676.75
3626651.01	57.00155		
492726.13	3626643.31	86.43981	492726.77
3626607.40	114.89597		
492708.82	3626624.72	85.71719	492689.58
3626622.15	73.70105		
492704.33	3626600.99	96.14287	492716.51
3626577.26	132.18768		
492739.60	3626591.37	159.99339	492740.24
3626567.00	197.96402		
492754.99	3626574.05	239.51211	492750.50

3626550.33	233.60385			
	492777.44	3626545.20	313.94631	492771.66
3626525.32	265.67688			
	492780.00	3626415.01	170.18001	492778.72
3626388.08	106.42728			
	492747.94	3626386.16	98.65269	492742.16
3626418.22	134.21388			

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 *** ***
 *** 16:01:20

PAGE 23

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492699.20	3626422.71	107.70495	492697.92
3626391.93	85.21137		
492678.68	3626411.81	86.18276	492626.09
3626426.56	62.31171		
492606.85	3626435.54	74.61364	492599.16
3626405.39	57.07484		
492491.20	3626644.88	19.98530	492517.36
3626636.70	22.38489		
492521.18	3626603.45	25.41191	492521.72
3626582.19	27.29812		
492512.46	3626553.84	28.55735	492513.55
3626533.13	30.07625		
492501.01	3626506.42	30.75070	492490.65
3626485.70	32.86203		

492479.21	3626464.45	35.09312	492466.12
3626447.00	37.40146		
492447.59	3626418.66	33.19955	492431.78
3626430.65	30.63262		
492481.93	3626620.35	20.56117	492482.48
3626594.18	22.32881		
492479.21	3626572.92	23.53384	492477.02
3626546.76	25.15460		
492467.76	3626523.32	25.58113	492463.94
3626507.51	26.62460		
492450.86	3626492.79	27.71352	492427.42
3626474.80	29.52935		
492402.89	3626460.63	25.14016	

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 *** ***
 *** 16:01:20

PAGE 24

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE2 ***
 INCLUDING SOURCE(S): L0000069 , L0000070
 , L0000071 , L0000072 , L0000073 ,
 L0000074 , L0000075 , L0000076 , L0000077 , L0000078
 , L0000079 , L0000080 , L0000081 ,
 L0000082 , L0000083 , L0000084 , L0000085 , L0000086
 , L0000087 , L0000088 , L0000089 ,
 L0000090 , L0000091 , L0000092 , L0000093 , L0000094
 , L0000095 , L0000096 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	0.50877	0.53492	0.56140	0.59002	0.61796
0.64051	0.66350	0.67930	0.69656		
3628311.70	0.55113	0.58204	0.61355	0.64766	0.68287
0.71580	0.74071	0.75876	0.77293		
3628115.84	0.59615	0.63456	0.67320	0.71336	0.75774

0.80269	0.83269	0.85753	0.87607		
3627919.98		0.64151	0.69178	0.74101	0.78986 0.84463
0.90198	0.94303	0.98322	1.00248		
3627724.12		0.68507	0.74999	0.81541	0.88046 0.94622
1.01651	1.07730	1.13818	1.15830		
3627528.26		0.72924	0.80655	0.89283	0.98202 1.06690
1.15238	1.24089	1.31900	1.37851		
3627332.40		0.77758	0.86449	0.96797	1.08441 1.20321
1.31663	1.43786	1.56835	1.70245		
3627136.54		0.83332	0.92859	1.04448	1.18466 1.34783
1.51803	1.68680	1.86694	2.02507		
3626940.68		0.90177	1.00672	1.13496	1.29568 1.49681
1.73993	2.00084	2.26325	2.53626		
3626744.82		0.97811	1.10994	1.25080	1.43295 1.66297
1.98379	2.38323	2.82380	3.23625		
3626548.96		1.04658	1.19729	1.37023	1.61459 1.87435
2.23313	2.97299	3.51382	4.24761		
3626353.10		1.10292	1.29096	1.50163	1.75483 2.19715
2.56565	3.30688	4.77850	6.32738		
3626157.24		1.15769	1.34338	1.63531	1.96504 2.40667
2.92864	3.76763	5.28182	7.31517		
3625961.38		1.24391	1.44552	1.70705	2.05625 2.63746
3.28424	4.24723	5.94492	9.07782		
3625765.52		1.39537	1.65011	1.95805	2.37968 2.97749
3.85526	5.23321	7.60669	12.38577		
3625569.66		1.52961	1.80424	2.22401	2.76271 3.36173
4.45047	6.22681	9.55588	16.21714		
3625373.80		1.61335	1.92995	2.35500	3.12090 4.11216
5.44245	7.26065	10.17895	12.90796		
3625177.94		1.77485	2.25066	2.73089	3.32987 4.48007
5.63768	6.79392	7.27718	7.58426		
3624982.08		1.94262	2.42229	2.85983	3.55353 4.25295
4.79552	4.95828	4.74839	4.75608		
3624786.22		2.08046	2.36833	2.88604	3.28405 3.50515
3.58738	3.51923	3.32585	3.27688		
3624590.36		2.06608	2.33300	2.49308	2.63690 2.69014
2.67286	2.61313	2.59232	2.53290		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 25

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE2 ***
 INCLUDING SOURCE(S): L0000069 , L0000070
 , L0000071 , L0000072 , L0000073 ,
 L0000074 , L0000075 , L0000076 , L0000077 , L0000078

```

, L0000079      , L0000080      , L0000081      ,
                  L0000082      , L0000083      , L0000084      , L0000085      , L0000086
, L0000087      , L0000088      , L0000089      ,
                  L0000090      , L0000091      , L0000092      , L0000093      , L0000094
, L0000095      , L0000096      ,

```

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)					X-COORD (METERS)	
	492626.08	492820.18	493014.28		493208.38	493402.48
493596.58	493790.68	493984.78	494178.88			

3628507.56	0.70835	0.71176	0.68377	0.69016	0.68391
0.69591	0.74078	0.77194	0.05939		
3628311.70	0.78823	0.79808	0.76753	0.75346	0.77058
0.79639	0.85544	0.42269	0.03870		
3628115.84	0.89132	0.88649	0.88086	0.94466	0.91775
0.91383	1.00250	0.41563	0.04146		
3627919.98	1.01368	1.02463	1.01242	1.08212	1.15570
1.10011	1.15217	0.16835	0.04144		
3627724.12	1.18375	1.31179	1.33189	1.23093	1.13432
1.30131	1.32137	0.28131	0.07022		
3627528.26	1.44484	1.43429	1.49828	1.60580	1.54942
1.37467	1.52024	0.87781	0.25688		
3627332.40	1.72483	1.74755	1.79916	1.76775	1.88056
1.87984	1.81067	1.13410	1.39226		
3627136.54	2.11846	2.17135	2.15746	2.06679	1.94707
1.98810	2.15060	1.93141	1.61409		
3626940.68	2.72098	2.81743	2.80774	2.66609	2.46994
2.26086	2.13438	1.75386	1.73435		
3626744.82	3.66790	3.86004	3.85720	3.61656	3.27537
2.83561	2.42057	2.05303	1.75083		
3626548.96	5.08233	5.75844	5.69169	5.74892	4.99893
3.70296	3.10129	2.49385	2.00335		
3626353.10	8.27413	10.29777	9.46202	9.08817	7.47785
5.51779	4.22003	3.29256	2.27997		
3626157.24	11.40039	19.06085	20.37287	18.18646	12.13371
6.92740	4.80819	4.07276	3.26463		
3625961.38	16.06255	42.88322	97.43313	42.23864	18.02988
10.45507	6.06649	4.93319	3.73851		
3625765.52	24.50853	102.02448	251.36644	84.99314	24.19954
13.49566	8.33700	5.72962	4.18231		
3625569.66	27.22351	29.03476	37.35584	29.11583	20.35644
15.86510	9.73356	6.51020	4.67210		

3625373.80	12.59332	14.19701	13.38443	12.86335	11.54998
9.68064	8.53402	6.90374	5.10134		
3625177.94	6.95482	7.69057	8.69364	7.68770	8.89431
7.76244	7.29638	6.11164	4.98125		
3624982.08	4.94351	5.60323	6.63385	5.41609	6.31189
5.95877	5.40640	4.86162	4.29007		
3624786.22	3.36314	4.04407	4.79070	4.72628	4.57299
4.42275	4.17012	3.83262	3.51720		
3624590.36	2.91835	2.95577	3.60889	3.49471	3.49241
3.23185	3.17426	3.08947	2.87438		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24

*** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 26

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE2 ***
 INCLUDING SOURCE(S): L0000069 , L0000070
 , L0000071 , L0000072 , L0000073 ,
 L0000074 , L0000075 , L0000076 , L0000077 , L0000078
 , L0000079 , L0000080 , L0000081 ,
 L0000082 , L0000083 , L0000084 , L0000085 , L0000086
 , L0000087 , L0000088 , L0000089 ,
 L0000090 , L0000091 , L0000092 , L0000093 , L0000094
 , L0000095 , L0000096 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)		
	494372.98	494567.08	494761.18

3628507.56	0.03115	0.03089	0.03485
3628311.70	0.03074	0.03150	0.03522
3628115.84	0.03337	0.03281	0.03356
3627919.98	0.03907	0.03886	0.03603
3627724.12	0.05026	0.07963	0.04124
3627528.26	0.23432	0.29511	0.05813
3627332.40	1.35461	0.77121	0.08827
3627136.54	1.51871	1.36691	0.65483
3626940.68	1.58444	1.41727	1.30483
3626744.82	1.51245	1.38489	1.27962

3626548.96	1.66854	1.41208	1.21342
3626353.10	2.23412	1.68515	1.53035
3626157.24	2.49557	2.17048	1.47466
3625961.38	2.49365	2.38548	1.66597
3625765.52	3.17130	2.57593	2.05104
3625569.66	3.53352	2.66821	2.12752
3625373.80	3.88222	3.03534	2.44196
3625177.94	3.98198	3.19697	2.59875
3624982.08	3.70872	3.14704	2.54438
3624786.22	3.18139	2.75227	2.43286
3624590.36	2.68868	2.21113	2.23082

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 27

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE2 ***
 INCLUDING SOURCE(S): L0000069 , L0000070
 , L0000071 , L0000072 , L0000073 ,
 L0000074 , L0000075 , L0000076 , L0000077 , L0000078
 , L0000079 , L0000080 , L0000081 ,
 L0000082 , L0000083 , L0000084 , L0000085 , L0000086
 , L0000087 , L0000088 , L0000089 ,
 L0000090 , L0000091 , L0000092 , L0000093 , L0000094
 , L0000095 , L0000096 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

492883.25	3625830.80	136.08973	492919.80
3625834.65	208.27623		
492955.07	3625845.55	336.68187	493069.86
3625832.73	503.76820		
493094.87	3625832.73	282.82964	493110.90
3625837.21	205.88676		
493151.95	3625834.01	122.81965	493166.70
3625837.86	102.80803		
493187.86	3625836.57	84.42358	493201.33
3625836.57	75.05441		

493240.44	3625836.57	54.98492	492881.32
3625908.40	85.59888		
492906.98	3625898.14	112.84358	492901.84
3625911.60	99.37072		
492928.14	3625914.81	119.80085	492933.91
3625898.14	145.60377		
492951.87	3625908.40	156.00333	492973.67
3625907.11	180.88400		
492993.55	3625914.17	174.02754	492996.11
3625897.50	231.59566		
493015.99	3625896.85	261.99892	493023.05
3625912.24	191.60940		
493044.21	3625907.11	192.58252	493066.66
3625907.76	155.50597		
493085.25	3625912.24	131.13089	493087.18
3625895.57	153.85675		
493108.98	3625911.60	109.48386	493112.19
3625897.50	118.76308		
493133.99	3625901.98	91.59167	492874.27
3625788.48	153.91846		
492894.15	3625789.12	195.39200	492910.18
3625790.40	235.98747		
492930.70	3625786.55	289.59991	492947.38
3625791.04	350.98658		
492963.41	3625787.84	366.73008	492982.65
3625787.84	387.13989		
492999.96	3625787.84	401.85646	493021.12
3625791.04	458.24067		
493036.52	3625789.12	436.10868	493055.75
3625789.76	417.82188		
493076.28	3625787.84	346.78893	493094.87
3625787.84	285.66182		
493112.83	3625788.48	231.45847	493129.50
3625787.19	188.56354		
493148.74	3625787.19	150.86796	493164.77
3625790.40	126.05109		
493184.65	3625789.12	102.80471	493201.97
3625791.04	87.02019		
493221.21	3625790.40	73.84898	493238.52
3625791.04	63.84533		
492783.85	3626648.44	4.65737	492788.98
3626677.30	4.42025		
492759.48	3626659.99	4.53277	492755.63
3626685.00	4.31288		
492754.35	3626706.16	4.13649	492720.36
3626707.44	4.09435		
492758.84	3626739.51	3.88266	492703.69
3626740.79	3.83584		
492688.30	3626714.50	3.99966	492652.38
3626742.71	3.73812		

492660.72	3626713.21	3.93275	492679.32
3626674.09	4.29509		
492692.79	3626668.96	4.36036	492676.75
3626651.01	4.47056		
492726.13	3626643.31	4.62733	492726.77
3626607.40	4.95272		
492708.82	3626624.72	4.76160	492689.58
3626622.15	4.74137		
492704.33	3626600.99	4.96687	492716.51
3626577.26	5.22875		
492739.60	3626591.37	5.14460	492740.24
3626567.00	5.40160		
492754.99	3626574.05	5.35891	492750.50
3626550.33	5.60652		
492777.44	3626545.20	5.72236	492771.66
3626525.32	5.95352		
492780.00	3626415.01	7.82672	492778.72
3626388.08	8.52652		
492747.94	3626386.16	8.39712	492742.16
3626418.22	7.63710		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 28

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE2 ***
 INCLUDING SOURCE(S): L0000069 , L0000070
 , L0000071 , L0000072 , L0000073 ,
 L0000074 , L0000075 , L0000076 , L0000077 , L0000078
 , L0000079 , L0000080 , L0000081 ,
 L0000082 , L0000083 , L0000084 , L0000085 , L0000086
 , L0000087 , L0000088 , L0000089 ,
 L0000090 , L0000091 , L0000092 , L0000093 , L0000094
 , L0000095 , L0000096 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492699.20	3626422.71	7.31333	492697.92

3626391.93	7.94546			
492678.68	3626411.81	7.44400		492626.09
3626426.56	7.06270			
492606.85	3626435.54	6.45572		492599.16
3626405.39	7.09027			
492491.20	3626644.88	3.92646		492517.36
3626636.70	4.05291			
492521.18	3626603.45	4.29204		492521.72
3626582.19	4.43990			
492512.46	3626553.84	4.60012		492513.55
3626533.13	4.74928			
492501.01	3626506.42	4.89037		492490.65
3626485.70	5.01509			
492479.21	3626464.45	5.14070		492466.12
3626447.00	5.29262			
492447.59	3626418.66	5.70026		492431.78
3626430.65	5.48848			
492481.93	3626620.35	4.04124		492482.48
3626594.18	4.20818			
492479.21	3626572.92	4.33322		492477.02
3626546.76	4.49728			
492467.76	3626523.32	4.61061		492463.94
3626507.51	4.70567			
492450.86	3626492.79	4.76173		492427.42
3626474.80	4.86615			
492402.89	3626460.63	5.12087		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 *** ***
 *** 16:01:20

PAGE 29

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)	
	490879.18	491073.28	491267.38		491461.48	491655.58
491849.68	492043.78	492237.88	492431.98			

3628507.56	1.22953	1.31382	1.39577	1.48190	1.57464
1.66008	1.75186	1.81714	1.89300		
3628311.70	1.32896	1.43627	1.54304	1.65203	1.76594
1.89253	1.99594	2.06839	2.12381		
3628115.84	1.43006	1.56306	1.70476	1.84777	1.99710
2.16526	2.29618	2.40262	2.48047		
3627919.98	1.53588	1.69528	1.87459	2.06702	2.27377
2.48847	2.66835	2.86486	2.94452		
3627724.12	1.64936	1.83624	2.05290	2.30529	2.58673
2.87910	3.14327	3.46777	3.58052		
3627528.26	1.77899	1.99298	2.25022	2.56142	2.92497
3.33918	3.76330	4.19981	4.57420		
3627332.40	1.91746	2.16852	2.47344	2.84200	3.29197
3.84770	4.53390	5.29485	6.49980		
3627136.54	2.05652	2.34593	2.70666	3.15964	3.73009
4.45387	5.42339	6.72458	8.17959		
3626940.68	2.19994	2.52636	2.94198	3.48487	4.20821
5.18837	6.53219	8.51022	11.61841		
3626744.82	2.37177	2.79469	3.20834	3.83074	4.67628
6.01918	8.02403	11.17175	16.42342		
3626548.96	2.60049	3.06691	3.57339	4.55153	5.38578
6.90276	11.73709	16.06873	23.65303		
3626353.10	2.82539	3.51477	4.21175	4.95087	7.32525
8.22546	13.91962	21.35354	35.50003		
3626157.24	2.99833	3.57287	4.91122	6.31486	8.41116
10.62923	14.83344	24.56396	31.25868		
3625961.38	3.26633	3.93318	4.84065	6.10421	9.32551
11.77355	12.91231	15.34928	18.61098		
3625765.52	3.62638	4.49899	5.32140	6.50788	7.96091
9.45978	11.02173	13.26567	19.21293		
3625569.66	3.86893	4.63343	6.13068	7.39201	7.51398
8.78433	10.12722	13.37565	20.08871		
3625373.80	3.92188	4.57797	5.18319	6.82461	7.93829
9.16108	10.22030	13.19308	16.74185		
3625177.94	3.88394	4.94542	5.41160	5.68567	7.36861
8.45663	9.53208	9.49181	10.61462		
3624982.08	3.73931	4.60372	4.94861	5.77892	6.46590
7.03407	7.17854	6.66676	7.19983		
3624786.22	3.81811	3.92919	4.68407	5.08914	5.31448
5.41343	5.35102	5.00600	5.05326		
3624590.36	3.51103	3.77153	3.84366	4.07692	4.17560
4.18102	4.16315	4.22128	4.17179		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 *** ***
 *** 16:01:20

PAGE 30

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	1.93496	1.93631	1.78229	1.84618	1.83213
1.87556	1.90979	1.10504	0.11345		
3628311.70	2.18374	2.21883	2.04158	1.98884	2.11651
2.20018	1.85192	0.61303	0.08445		
3628115.84	2.53451	2.47171	2.42864	2.80214	2.66302
2.58427	1.76224	0.59905	0.09175		
3627919.98	2.97892	2.98607	2.89458	3.34567	2.94848
2.90983	1.84200	0.27981	0.09618		
3627724.12	3.68556	4.51380	4.46090	3.95841	3.29989
3.07406	1.88992	0.42798	0.14545		
3627528.26	5.05025	4.78816	5.32711	4.98105	4.45353
4.27026	2.52259	1.20315	0.40633		
3627332.40	6.50963	6.51688	6.96654	6.62011	5.13841
3.56483	2.59575	1.56230	1.87529		
3627136.54	9.32885	9.57995	8.79200	7.54986	6.28648
6.42911	3.33454	2.93612	3.10950		
3626940.68	15.37116	16.64397	14.22632	10.87221	8.26027
6.76945	6.19576	4.42088	4.24098		
3626744.82	29.43814	43.36964	27.67358	16.22939	11.23520

7.84020	6.05645	4.84522	4.03835		
3626548.96		58.52053	534.79110	59.38661	23.09359 14.64664
10.03897	8.44887	6.26685	4.49691		
3626353.10		56.64637	50.97558	62.98758	32.90014 18.69287
13.23039	9.56544	7.25403	5.26535		
3626157.24		33.09863	32.73781	40.04252	29.76862 21.75294
16.74555	11.70284	8.06348	5.97691		
3625961.38		28.03457	48.78994	102.80920	48.36026 24.37688
16.09453	12.62929	8.93137	6.82173		
3625765.52		31.02577	105.76171	255.02927	89.32418 29.73196
17.55296	11.51875	8.89118	7.42402		
3625569.66		31.45321	33.61726	40.81027	34.32832 25.03432
18.73168	12.38913	9.07940	7.14106		
3625373.80		16.17026	17.46403	16.64633	16.33978 14.91724
13.29724	11.79437	9.03150	7.15390		
3625177.94		9.73283	10.84343	11.44605	10.79049 11.36923
10.54176	9.13062	7.69140	6.67696		
3624982.08		7.50037	8.02587	8.34119	7.91222 7.95640
7.44552	7.01266	6.28257	5.73510		
3624786.22		5.21749	6.10794	6.22179	6.22625 5.87317
5.65257	5.63689	5.24122	4.73073		
3624590.36		4.70177	4.73658	4.91877	4.42975 4.84356
4.80060	4.75416	4.37903	4.01907		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 31

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD				X-COORD (METERS)
(METERS)		494372.98	494567.08	494761.18

- - - - -
- - - - -

3628507.56	0.06847	0.06601	0.07054
3628311.70	0.06899	0.06905	0.07430
3628115.84	0.07594	0.07443	0.07526
3627919.98	0.09039	0.08841	0.08153
3627724.12	0.11350	0.15380	0.09179
3627528.26	0.37585	0.44527	0.12153
3627332.40	1.85782	1.07267	0.17128
3627136.54	2.38408	2.01086	0.90978
3626940.68	3.27558	2.73533	2.19634
3626744.82	3.50932	3.28634	2.91933
3626548.96	3.71934	3.15460	2.71443
3626353.10	4.45771	3.91531	3.27553
3626157.24	5.00900	3.86054	3.35080
3625961.38	5.66725	4.34664	3.76348
3625765.52	6.10685	4.87416	4.15853
3625569.66	6.04569	5.30440	4.40153
3625373.80	5.85759	5.06989	4.37103
3625177.94	5.69983	4.86738	4.27037
3624982.08	5.39611	4.66468	4.23225
3624786.22	4.42788	4.37946	3.98166
3624590.36	3.89365	3.62347	3.54582

▲ *** AERMOD - VERSION 23132 *** C:\Users\apol1\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
*** AERMET - VERSION 23132 ***
*** 16:01:20

PAGE 32

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

Y-COORD (M)	CONC		
492883.25	3625830.80	139.84134	492919.80
3625834.65	211.89935		
492955.07	3625845.55	340.51494	493069.86
3625832.73	507.71972		
493094.87	3625832.73	286.81159	493110.90
3625837.21	209.95991		
493151.95	3625834.01	127.04809	493166.70
3625837.86	107.15259		
493187.86	3625836.57	88.90059	493201.33
3625836.57	79.61388		
493240.44	3625836.57	59.86537	492881.32
3625908.40	89.84380		
492906.98	3625898.14	116.75097	492901.84
3625911.60	103.59788		
492928.14	3625914.81	124.19424	492933.91
3625898.14	149.62823		
492951.87	3625908.40	160.38783	492973.67
3625907.11	185.58749		
492993.55	3625914.17	179.02872	492996.11
3625897.50	236.46579		
493015.99	3625896.85	266.47930	493023.05
3625912.24	196.30310		
493044.21	3625907.11	197.25373	493066.66
3625907.76	160.55685		
493085.25	3625912.24	136.08519	493087.18
3625895.57	158.69097		
493108.98	3625911.60	114.45583	493112.19
3625897.50	123.64250		
493133.99	3625901.98	96.86433	492874.27
3625788.48	157.76120		
492894.15	3625789.12	199.07962	492910.18
3625790.40	239.64117		
492930.70	3625786.55	293.25231	492947.38
3625791.04	354.66866		
492963.41	3625787.84	370.44457	492982.65
3625787.84	390.90263		
492999.96	3625787.84	405.64280	493021.12
3625791.04	462.04770		
493036.52	3625789.12	439.91068	493055.75
3625789.76	421.63012		
493076.28	3625787.84	350.59470	493094.87
3625787.84	289.48012		
493112.83	3625788.48	235.32614	493129.50
3625787.19	192.48560		
493148.74	3625787.19	154.87572	493164.77
3625790.40	130.15708		
493184.65	3625789.12	107.04412	493201.97

3625791.04	91.37072			
493221.21	3625790.40	78.30876		493238.52
3625791.04	68.47233			
492783.85	3626648.44	130.66718		492788.98
3626677.30	91.27322			
492759.48	3626659.99	99.80845		492755.63
3626685.00	74.18047			
492754.35	3626706.16	59.45033		492720.36
3626707.44	53.42855			
492758.84	3626739.51	44.89347		492703.69
3626740.79	40.45117			
492688.30	3626714.50	44.89297		492652.38
3626742.71	32.89847			
492660.72	3626713.21	38.02849		492679.32
3626674.09	55.47406			
492692.79	3626668.96	61.83593		492676.75
3626651.01	61.47211			
492726.13	3626643.31	91.06714		492726.77
3626607.40	119.84869			
492708.82	3626624.72	90.47879		492689.58
3626622.15	78.44242			
492704.33	3626600.99	101.10974		492716.51
3626577.26	137.41643			
492739.60	3626591.37	165.13799		492740.24
3626567.00	203.36562			
492754.99	3626574.05	244.87102		492750.50
3626550.33	239.21037			
492777.44	3626545.20	319.66867		492771.66
3626525.32	271.63040			
492780.00	3626415.01	178.00673		492778.72
3626388.08	114.95380			
492747.94	3626386.16	107.04981		492742.16
3626418.22	141.85098			

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 33

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026

, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492699.20	3626422.71	115.01827	492697.92
3626391.93	93.15683		
492678.68	3626411.81	93.62676	492626.09
3626426.56	69.37441		
492606.85	3626435.54	81.06936	492599.16
3626405.39	64.16511		
492491.20	3626644.88	23.91176	492517.36
3626636.70	26.43780		
492521.18	3626603.45	29.70396	492521.72
3626582.19	31.73802		
492512.46	3626553.84	33.15747	492513.55
3626533.13	34.82553		
492501.01	3626506.42	35.64107	492490.65
3626485.70	37.87713		
492479.21	3626464.45	40.23382	492466.12
3626447.00	42.69408		
492447.59	3626418.66	38.89981	492431.78
3626430.65	36.12109		
492481.93	3626620.35	24.60241	492482.48
3626594.18	26.53699		
492479.21	3626572.92	27.86706	492477.02
3626546.76	29.65187		
492467.76	3626523.32	30.19173	492463.94
3626507.51	31.33027		
492450.86	3626492.79	32.47525	492427.42
3626474.80	34.39549		
492402.89	3626460.63	30.26103	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24

*** AERMET - VERSION 23132 *** ***

*** 16:01:20

PAGE 34

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)			X-COORD (METERS)
491461.48	490879.18	491655.58	491073.28

3628507.6	49.02366 (21011618)	48.30555 (21102603)	52.45408 (22080803)
60.59721 (20042421)	67.91798 (20090706)		
3628311.7	54.91914 (22120523)	56.93568 (21011618)	57.73204 (21012124)
64.43882 (22011623)	70.49395 (22102521)		
3628115.8	54.02777 (22120701)	64.39141 (22120701)	67.18196 (21011618)
70.82955 (21012124)	82.38717 (22011623)		
3627920.0	61.80955 (22120522)	64.49839 (20101702)	77.80543 (22120701)
80.86341 (21011618)	87.79547 (21012124)		
3627724.1	65.23937 (22010221)	76.66724 (22120522)	76.21346 (20101702)
94.90235 (22120701)	99.85884 (21011618)		
3627528.3	60.79378 (21021307)	69.11655 (20040403)	87.06855 (22010221)
95.82590 (22120522)	116.44512 (22120701)		
3627332.4	65.52705 (21011623)	71.50004 (22011624)	81.88749 (21021307)
99.56865 (22010221)	130.82583 (22120522)		
3627136.5	67.16117 (20010821)	73.86164 (22011221)	87.32564 (21011623)
99.03178 (20010902)	118.89495 (21021307)		
3626940.7	67.94639 (22120623)	80.19388 (22120623)	91.52014 (21122422)
107.40107 (20121405)	124.71403 (22011221)		
3626744.8	69.15002 (22120624)	81.26621 (22031223)	91.19199 (21122421)
109.88626 (22120524)	135.55659 (22120524)		
3626549.0	84.20247 (21012919)	96.92697 (21012919)	111.33277 (21012919)
137.21084 (21012919)	157.21290 (21012919)		
3626353.1	115.41702 (20122123)	166.60168 (20122123)	236.40067 (20122123)
323.92968 (20122123)	439.75736 (20122123)		
3626157.2	260.34798 (20122123)	258.57708 (20122123)	231.82500 (20122123)
181.22319 (20122123)	196.42047 (20021601)		
3625961.4	86.77593 (20022501)	97.38457 (20021601)	105.67772 (22010222)
129.73636 (20021722)	187.45439 (22010507)		
3625765.5	83.52291 (20021722)	94.35877 (20120923)	106.39193 (22010507)

214.29578	(21030222)	374.58670	(21030222)		
3625569.7		79.90925	(22010507)	124.31137	(21030222)
306.31654	(22010619)	378.72045	(20011520)		269.17726 (21030222)
3625373.8		179.00048	(21030222)	248.83812	(21030222)
327.88523	(20011520)	248.48685	(21110104)		228.90996 (20011520)
3625177.9		205.77593	(22010619)	236.87164	(20011520)
164.10616	(21110104)	337.70474	(20100406)		245.15435 (21110104)
3624982.1		223.13674	(20011520)	213.10121	(21110104)
242.93538	(20100406)	296.83166	(20111623)		129.63808 (21110104)
3624786.2		181.66694	(21110104)	104.03277	(21110104)
235.68784	(20111623)	230.84731	(22012923)		191.33023 (20100406)
3624590.4		88.28879	(20102402)	152.22123	(20100406)
194.62768	(20111623)	241.45973	(22012923)		197.10334 (20100406)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
*** AERMET - VERSION 23132 ***
*** 16:01:20

PAGE 35

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD				X-COORD (METERS)
(METERS)		491849.68	492043.78	492237.88
		492431.98	492626.08	

3628507.6		75.24054	(21020820)	87.19357	(20022222)	77.77102	(20101705)
70.66789	(22011621)	61.50184	(22102623)				
3628311.7		88.04294	(21020820)	88.75771	(20022222)	90.68595	(20101705)
89.01253	(22011621)	75.82543	(22102623)				
3628115.8		85.42987	(20090706)	102.98917	(21020820)	114.42752	(22102624)
107.28993	(22011621)	94.85795	(22102623)				

3627920.0	101.30589 (22011623)	117.45582 (21020820)	133.94124 (20022222)
121.04046 (20101705)	117.43952 (22102623)		
3627724.1	109.50510 (21012124)	122.35829 (22102521)	153.02033 (21020820)
155.52014 (20101705)	142.24384 (22102623)		
3627528.3	127.60946 (21011618)	135.47645 (21012124)	173.27605 (20090706)
218.16977 (20022222)	191.54052 (22011621)		
3627332.4	142.22712 (22120701)	171.11159 (21011618)	206.31824 (22011623)
276.43853 (21020820)	263.57945 (22011621)		
3627136.5	160.69537 (22010221)	188.62498 (20101702)	246.64533 (21011618)
300.48283 (22102521)	391.77420 (22102624)		
3626940.7	158.20004 (21011623)	195.91438 (21021307)	304.31253 (22120522)
400.79368 (21011618)	611.85681 (21020820)		
3626744.8	167.04738 (22120623)	217.94486 (21122422)	286.53354 (22123104)
416.15515 (21021307)	816.51638 (21011618)		
3626549.0	193.20827 (21012919)	324.20223 (21012919)	388.43263 (21012919)
472.95189 (20122123)	937.26945 (20122123)		
3626353.1	489.08628 (20122123)	539.34220 (20122123)	509.19264 (22123102)
542.49363 (20011918)	644.36337 (22120407)		
3626157.2	208.98464 (20021722)	251.36316 (22010507)	779.64216 (21030222)
854.17067 (21110104)	934.27623 (22012923)		
3625961.4	388.29030 (21030222)	454.08847 (22010619)	511.66917 (21110104)
659.16063 (20111623)	426.16312 (22120820)		
3625765.5	435.94879 (20011520)	376.84410 (21110104)	529.51465 (20111623)
462.91195 (22012923)	269.49612 (21121921)		
3625569.7	279.82320 (21110104)	429.59572 (20100406)	490.70217 (22012923)
171.15314 (22021320)	176.54226 (21120123)		
3625373.8	413.32726 (20100406)	338.74805 (22012923)	231.04603 (22012923)
179.85001 (22120820)	163.44696 (20112124)		
3625177.9	360.50781 (20111623)	347.66305 (22012923)	108.10581 (22021320)
152.78506 (21121921)	131.40412 (22120222)		
3624982.1	336.75313 (22012923)	140.01595 (22012923)	95.85538 (22120820)
124.16605 (21121921)	132.29796 (20012222)		
3624786.2	228.69894 (22012923)	94.81393 (22021320)	87.29723 (22120820)
91.42578 (21120123)	100.95022 (20012222)		
3624590.4	82.26656 (22012923)	86.01072 (22021320)	89.16487 (21121921)
85.46802 (20021922)	102.55354 (20012222)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 36

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,

L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)			X-COORD (METERS)
493402.48	492820.18	493014.28	493208.38

3628507.6	55.95332 (22102201)	56.16734 (22102021)	42.49750 (22102202)
47.59542 (22102202)	31.03462 (20101418)		
3628311.7	63.45981 (22102201)	59.16583 (22102021)	48.07593 (22102202)
45.99562 (22102202)	37.40590 (20101418)		
3628115.8	66.04807 (22102201)	64.63383 (22102021)	76.56486 (22102202)
41.85181 (22102202)	47.76649 (21080821)		
3627920.0	79.40524 (22102201)	66.89968 (22102021)	89.14105 (22102202)
128.67715 (20101624)	88.85299 (21080821)		
3627724.1	128.76188 (22102021)	90.26634 (22102021)	89.94358 (22102202)
59.40674 (21080821)	129.99826 (22010702)		
3627528.3	127.37478 (22102021)	121.53777 (22102202)	117.10048 (20101624)
140.12576 (21080821)	71.31367 (20092419)		
3627332.4	172.61894 (22102021)	178.52386 (22102202)	119.45954 (21080821)
184.40050 (21122302)	199.91858 (20092420)		
3627136.5	252.57830 (22102021)	189.51296 (22102202)	148.08431 (20092419)
157.26938 (20092420)	122.48611 (20032305)		
3626940.7	422.83429 (22102021)	221.23400 (21080821)	244.16967 (20092420)
158.12914 (20032305)	138.98209 (22122819)		
3626744.8	937.44103 (22102021)	449.56061 (20092420)	259.08492 (22122819)
175.85800 (21052124)	162.31531 (22120120)		
3626549.0	2511.51720 (22090524)	588.44599 (22040302)	577.09832 (21070923)
458.58567 (21070923)	209.00964 (22040302)		
3626353.1	1200.40318 (20052503)	838.57829 (22010618)	644.67871 (21052723)
458.93221 (20041206)	397.84654 (21091323)		
3626157.2	829.84938 (21021004)	867.88965 (20082006)	565.94438 (21072106)
377.25299 (20092022)	334.08354 (21021920)		
3625961.4	464.59950 (21021004)	400.54054 (20100624)	392.42470 (21092804)
416.72458 (21072106)	306.17794 (20092022)		
3625765.5	329.51798 (21021004)	387.88112 (22052506)	350.02939 (21080802)
420.66892 (22100904)	319.47969 (21072106)		
3625569.7	189.46451 (21031805)	354.00181 (22052506)	232.20198 (21103122)
184.82021 (21013119)	248.04535 (21021008)		
3625373.8	362.09284 (21101320)	133.05133 (22011921)	138.29303 (20090822)

132.08404 (21031721)	139.03709 (21082624)		
3625177.9 164.31846 (20091123)	285.38545 (22052124)	128.13000 (20112120)	
279.75294 (22070601)	262.17382 (22080705)		
3624982.1 206.73914 (20091123)	234.62455 (22052124)	117.39475 (21052503)	
208.71980 (21120822)	165.34931 (21080802)		
3624786.2 148.97358 (20091123)	200.98149 (21103123)	200.29084 (22052506)	
162.21657 (20061224)	158.84589 (20102503)		
3624590.4 86.52507 (20113019)	199.03635 (21103123)	146.36680 (22052506)	
182.11368 (22052206)	195.42040 (21111722)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24

*** AERMET - VERSION 23132 ***
*** 16:01:20

PAGE 37

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	493790.68	493984.78	494178.88
494372.98	494567.08		

3628507.6	35.30068 (21080821)	77.16738 (20121022)	11.76263 (22070406)
8.56987 (22022101)	7.16417 (20041221)		
3628311.7	96.74241 (21080821)	39.15050 (20102521)	9.64917 (21021203)
7.61323 (20041221)	7.32473 (22122801)		
3628115.8	122.20557 (20121022)	31.73287 (22100421)	10.53179 (20041221)
7.29494 (22122801)	8.18947 (20031823)		
3627920.0	134.44906 (22011808)	17.59740 (22100421)	9.90735 (22122801)
9.30828 (20031823)	8.24785 (20060602)		
3627724.1	116.00637 (21122302)	20.26667 (21081802)	12.39470 (22042003)
10.16247 (20060602)	12.39054 (22100522)		

3627528.3	153.39211 (20092420)	60.77597 (22091021)	21.59790 (22102022)
22.52886 (21030804)	30.78476 (22122819)		
3627332.4	167.38485 (22091021)	58.84137 (20032305)	85.14493 (22122819)
72.19884 (22122819)	53.93350 (21090103)		
3627136.5	132.19839 (22122819)	118.07766 (22122819)	190.44546 (20081602)
180.04691 (20081602)	140.18477 (21072203)		
3626940.7	104.83265 (20040319)	79.75589 (21052124)	93.39960 (21052124)
124.01398 (21080324)	136.11779 (21080324)		
3626744.8	152.60982 (22120120)	129.19099 (22120120)	105.93465 (22120120)
93.32185 (21071321)	95.06952 (21071321)		
3626549.0	200.16674 (22040302)	152.92895 (21080723)	104.63859 (21080723)
90.65580 (21080723)	80.44583 (21080723)		
3626353.1	299.14590 (20070924)	244.63813 (20070924)	105.24591 (21021002)
206.83120 (21083001)	83.52559 (21021002)		
3626157.2	209.10069 (22120620)	284.33472 (21020719)	237.06785 (20041206)
221.15278 (20121024)	189.06853 (21040722)		
3625961.4	328.43010 (20082201)	243.81998 (21052723)	216.27062 (21072102)
93.35114 (21080901)	179.91292 (21020719)		
3625765.5	213.61441 (20071003)	194.29754 (20092022)	224.48640 (21091622)
219.78835 (21052723)	190.79235 (21081903)		
3625569.7	241.58141 (21072106)	204.26190 (20071003)	195.76546 (20092022)
185.16662 (22091005)	184.27594 (21063023)		
3625373.8	276.50311 (22080701)	210.46951 (21072106)	182.83766 (22040123)
163.47660 (22041522)	175.94622 (22082502)		
3625177.9	185.86519 (20041404)	174.08902 (21021008)	180.50727 (21072106)
167.49941 (22040123)	160.52764 (20071003)		
3624982.1	174.09772 (21092704)	155.64321 (20041404)	161.08262 (21021008)
177.10454 (21072106)	153.73407 (22040123)		
3624786.2	174.75256 (21072104)	162.04955 (22011904)	142.69264 (22082704)
136.81167 (21021008)	157.16175 (21081124)		
3624590.4	187.82964 (22081002)	147.95479 (22072201)	135.09788 (21092804)
142.18033 (22082704)	60.01528 (22091521)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***

*** 16:01:20

PAGE 38

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD | X-COORD (METERS)
(METERS) | 494761.18

3628507.6 | 7.72474 (22122801)
3628311.7 | 8.12158 (20031823)
3628115.8 | 7.30091 (20060602)
3627920.0 | 8.81334 (20041219)
3627724.1 | 9.47393 (20051006)
3627528.3 | 11.62007 (20060406)
3627332.4 | 13.83369 (21051806)
3627136.5 | 42.94871 (21091523)
3626940.7 | 140.27779 (21080324)
3626744.8 | 85.72475 (21071321)
3626549.0 | 71.63329 (21080723)
3626353.1 | 113.34858 (21080724)
3626157.2 | 69.35511 (21072101)
3625961.4 | 70.93212 (22121818)
3625765.5 | 178.01047 (21072102)
3625569.7 | 128.69926 (22111819)
3625373.8 | 168.76501 (22091005)
3625177.9 | 160.03506 (20092022)
3624982.1 | 151.35087 (20071003)
3624786.2 | 133.95707 (21081124)
3624590.4 | 142.96284 (21081124)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24

*** AERMET - VERSION 23132 ***
*** 16:01:20

PAGE 39

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026

, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	344.40223	(21081704)	492919.80
3625834.65	298.06797	(21061301)		
492955.07	3625845.55	388.06454	(22052506)	493069.86
3625832.73	333.00114	(21120822)		
493094.87	3625832.73	344.33885	(21120822)	493110.90
3625837.21	343.32765	(22100905)		
493151.95	3625834.01	343.63441	(22052123)	493166.70
3625837.86	336.23234	(21080802)		
493187.86	3625836.57	322.42224	(22081801)	493201.33
3625836.57	345.73217	(20050806)		
493240.44	3625836.57	351.76858	(20100623)	492881.32
3625908.40	361.23677	(21081704)		
492906.98	3625898.14	315.93145	(21061301)	492901.84
3625911.60	338.30154	(21061301)		
492928.14	3625914.81	358.65148	(22052506)	492933.91
3625898.14	352.28999	(22052506)		
492951.87	3625908.40	452.46733	(22052506)	492973.67
3625907.11	481.60535	(22052506)		
492993.55	3625914.17	422.85035	(22052506)	492996.11
3625897.50	422.27081	(22052506)		
493015.99	3625896.85	381.56517	(20100624)	493023.05
3625912.24	380.78141	(20100624)		
493044.21	3625907.11	372.46675	(21120822)	493066.66
3625907.76	413.52871	(21120822)		
493085.25	3625912.24	391.82705	(22100905)	493087.18
3625895.57	390.90604	(22100905)		
493108.98	3625911.60	388.24419	(22052123)	493112.19
3625897.50	387.13142	(22052123)		
493133.99	3625901.98	393.90544	(21080802)	492874.27
3625788.48	358.48537	(21081704)		
492894.15	3625789.12	351.95913	(21081704)	492910.18
3625790.40	324.47212	(22080423)		
492930.70	3625786.55	298.68920	(20042523)	492947.38
3625791.04	319.98756	(20042523)		
492963.41	3625787.84	369.78876	(22052506)	492982.65
3625787.84	415.90085	(22052506)		
492999.96	3625787.84	414.84946	(22052506)	493021.12
3625791.04	358.87659	(22052506)		

493036.52	3625789.12	346.13486	(20100624)	493055.75
3625789.76	344.42279	(20100624)		
493076.28	3625787.84	311.41069	(21120822)	493094.87
3625787.84	345.04433	(21120822)		
493112.83	3625788.48	344.43697	(21120822)	493129.50
3625787.19	345.79327	(22100905)		
493148.74	3625787.19	340.00172	(22052123)	493164.77
3625790.40	351.59829	(22052123)		
493184.65	3625789.12	351.90229	(21080802)	493201.97
3625791.04	330.21366	(21080802)		
493221.21	3625790.40	336.38864	(20050806)	493238.52
3625791.04	357.85535	(20050806)		
492783.85	3626648.44	2541.49297	(22102624)	492788.98
3626677.30	2128.96599	(22102624)		
492759.48	3626659.99	2096.99090	(20061502)	492755.63
3626685.00	1822.12128	(21020820)		
492754.35	3626706.16	1578.60216	(22032903)	492720.36
3626707.44	1374.62936	(22011623)		
492758.84	3626739.51	1420.46775	(22102624)	492703.69
3626740.79	1127.06701	(21021402)		
492688.30	3626714.50	1137.32989	(21012124)	492652.38
3626742.71	869.53537	(21032421)		
492660.72	3626713.21	959.23334	(21011618)	492679.32
3626674.09	1219.67853	(22120701)		
492692.79	3626668.96	1327.98267	(22120701)	492676.75
3626651.01	1189.81049	(22120522)		
492726.13	3626643.31	1618.79024	(22120701)	492726.77
3626607.40	1384.87556	(22011624)		
492708.82	3626624.72	1360.06993	(22120522)	492689.58
3626622.15	1155.27683	(22011624)		
492704.33	3626600.99	1213.23892	(21122422)	492716.51
3626577.26	1362.46365	(20122123)		
492739.60	3626591.37	1446.01495	(21122422)	492740.24
3626567.00	1451.91016	(20122123)		
492754.99	3626574.05	1504.50338	(20122123)	492750.50
3626550.33	1514.00260	(21030222)		
492777.44	3626545.20	1705.95938	(20111623)	492771.66
3626525.32	1623.47772	(20111623)		
492780.00	3626415.01	1440.68809	(21030222)	492778.72
3626388.08	1301.81572	(20100406)		
492747.94	3626386.16	1188.23783	(20011520)	492742.16
3626418.22	1184.27342	(22012923)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 40

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC	CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)
-----	-----	-----	-----	-----
492699.20	3626422.71	1168.67106	(20111623)	492697.92
3626391.93	946.84917	(21062101)		
492678.68	3626411.81	970.44916	(20102402)	492626.09
3626426.56	820.32225	(20122123)		
492606.85	3626435.54	1051.15779	(21030222)	492599.16
3626405.39	737.07841	(20071703)		
492491.20	3626644.88	488.86091	(21122422)	492517.36
3626636.70	519.21210	(21122422)		
492521.18	3626603.45	526.16080	(22120524)	492521.72
3626582.19	516.33430	(21012919)		
492512.46	3626553.84	607.16969	(20122123)	492513.55
3626533.13	782.62457	(20122123)		
492501.01	3626506.42	801.98666	(20122123)	492490.65
3626485.70	750.12361	(20122123)		
492479.21	3626464.45	719.11561	(20122123)	492466.12
3626447.00	840.07822	(20122123)		
492447.59	3626418.66	703.54491	(20122123)	492431.78
3626430.65	703.16174	(20122123)		
492481.93	3626620.35	474.95425	(22120524)	492482.48
3626594.18	475.94415	(22120524)		
492479.21	3626572.92	496.13040	(21012919)	492477.02
3626546.76	593.76279	(20122123)		
492467.76	3626523.32	745.56445	(20122123)	492463.94
3626507.51	778.49895	(20122123)		
492450.86	3626492.79	776.47909	(20122123)	492427.42
3626474.80	942.27994	(20122123)		
492402.89	3626460.63	715.81148	(20122123)	

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
*** AERMET - VERSION 23132 *** ***
*** 16:01:20

PAGE 41
*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE2 ***
INCLUDING SOURCE(S): L0000069 , L0000070
, L0000071 , L0000072 , L0000073 ,
L0000074 , L0000075 , L0000076 , L0000077 , L0000078
, L0000079 , L0000080 , L0000081 ,
L0000082 , L0000083 , L0000084 , L0000085 , L0000086
, L0000087 , L0000088 , L0000089 ,
L0000090 , L0000091 , L0000092 , L0000093 , L0000094
, L0000095 , L0000096 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD (METERS)			X-COORD (METERS)
491461.48	490879.18	491073.28	491267.38
491655.58			

3628507.6	34.43923 (20010901)	40.67629 (22011623)	40.37619 (21021402)
45.46865 (20090706)	50.81905 (21020820)		
3628311.7	38.19440 (21012124)	38.60173 (22080803)	45.09710 (22011623)
44.58918 (21021402)	55.85155 (21020820)		
3628115.8	41.12390 (21032421)	44.07868 (21012124)	45.79095 (22011623)
49.45605 (20042421)	55.30628 (20090706)		
3627920.0	46.82534 (21011618)	46.52512 (21032421)	50.88467 (21012124)
56.00515 (22011623)	57.34770 (21021402)		
3627724.1	51.34360 (22120701)	53.80751 (21011618)	53.32120 (21102603)
58.56844 (21012124)	66.54107 (22011623)		
3627528.3	49.62636 (20101702)	59.58190 (22120701)	62.63921 (21011618)
62.23595 (21102603)	66.81777 (21012124)		
3627332.4	57.19343 (22120522)	57.51098 (20101702)	69.26890 (22120701)
74.08080 (21011618)	73.69955 (21102603)		
3627136.5	58.78552 (22010221)	68.47181 (22120522)	68.80819 (20010719)
80.34940 (22120701)	89.34267 (21011618)		
3626940.7	53.92226 (21012201)	61.83884 (20040403)	77.69556 (22010221)
86.99635 (22120522)	92.20534 (22120701)		
3626744.8	57.83180 (21011623)	64.79986 (21021307)	71.06670 (21012201)
86.59005 (22010221)	112.03820 (22120522)		

3626549.0	59.53427 (22011221)	65.73214 (20042502)	79.27738 (21011623)
88.26331 (22011624)	99.84466 (21012201)		
3626353.1	63.89657 (22120623)	72.05016 (21122422)	83.33982 (20121405)
92.91311 (22011221)	114.51866 (21011623)		
3626157.2	63.47843 (21122421)	74.64724 (22120524)	89.10644 (22120524)
100.51650 (21032124)	125.01379 (22120623)		
3625961.4	65.25561 (22012506)	75.15776 (22012506)	87.10482 (22012506)
103.14102 (22120624)	128.79324 (22120624)		
3625765.5	83.46795 (20010720)	95.20002 (20010720)	109.70139 (20010720)
127.95324 (20010720)	152.19887 (22120706)		
3625569.7	179.46730 (20122123)	243.77374 (20122123)	319.43407 (20122123)
393.27280 (20122123)	434.89476 (20122123)		
3625373.8	207.24054 (20122123)	170.30579 (20122123)	117.04966 (20122123)
127.00894 (20022501)	150.62808 (20021601)		
3625177.9	80.38123 (22011222)	91.49043 (20021601)	100.58272 (20021722)
119.34605 (20120923)	142.84644 (22010507)		
3624982.1	78.62965 (20021722)	86.82207 (20120923)	99.21244 (22010507)
151.41191 (21030222)	369.49680 (21030222)		
3624786.2	75.35183 (22010507)	86.13814 (21030222)	234.58196 (21030222)
301.88479 (22010619)	352.53928 (20011520)		
3624590.4	147.55544 (21030222)	245.32611 (21030222)	231.47910 (22010619)
321.14090 (20011520)	278.17547 (21110104)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24

*** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 42

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE2 ***
 INCLUDING SOURCE(S): L0000069 , L0000070
 , L0000071 , L0000072 , L0000073 ,
 L0000074 , L0000075 , L0000076 , L0000077 , L0000078
 , L0000079 , L0000080 , L0000081 ,
 L0000082 , L0000083 , L0000084 , L0000085 , L0000086
 , L0000087 , L0000088 , L0000089 ,
 L0000090 , L0000091 , L0000092 , L0000093 , L0000094
 , L0000095 , L0000096 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	491849.68	492043.78	492237.88
492431.98	492626.08		

```

- - - - -
- - - - -
3628507.6 |      51.04895 (20022222)      53.96824 (22102624)      47.96021 (20101705)
      48.47307 (22011621)      48.50865 (22102623)
3628311.7 |      53.60827 (22032903)      63.07722 (20022222)      57.31154 (20101705)
      57.28045 (22011621)      53.92458 (22102623)
3628115.8 |      63.98357 (21020820)      67.38806 (20022222)      62.74097 (20101705)
      64.37954 (22011621)      58.86582 (22102623)
3627920.0 |      68.71227 (21020820)      67.46532 (22032903)      77.91778 (22102624)
      66.94240 (22011621)      62.03574 (22102623)
3627724.1 |      67.10532 (20090706)      83.70131 (21020820)      91.19304 (20022222)
      83.16901 (20101705)      74.18253 (22011621)
3627528.3 |      75.45388 (20042421)      86.85370 (20090706)      89.40395 (22090524)
      96.31487 (22102624)      96.16605 (22011621)
3627332.4 |      79.72289 (20112323)      90.84986 (21021402)      115.64828 (21020820)
      126.24519 (20022222)      113.55542 (22011621)
3627136.5 |      88.77975 (21102603)      107.54030 (22011623)      120.52991 (20090706)
      132.97305 (20022222)      136.47655 (20101705)
3626940.7 |      111.60469 (22120523)      113.05913 (21012124)      138.53442 (22011623)
      173.69378 (21020820)      179.24317 (22102624)
3626744.8 |      116.46312 (20101702)      144.66514 (22120523)      155.97725 (21012124)
      178.67985 (21021402)      233.65807 (20022222)
3626549.0 |      135.62066 (22010221)      168.07711 (20010719)      197.75939 (22120523)
      220.47884 (21012124)      300.36557 (21020820)
3626353.1 |      130.42449 (20010902)      161.51946 (21012201)      268.27170 (22120522)
      334.54632 (22120701)      399.04054 (22011623)
3626157.2 |      145.22919 (20121405)      176.34834 (22011221)      246.99845 (21011623)
      316.96202 (20040403)      507.59886 (22120701)
3625961.4 |      151.76074 (22120624)      186.45645 (22031223)      256.87246 (22120524)
      365.68742 (22120623)      584.12198 (20010821)
3625765.5 |      187.04495 (20011220)      245.82025 (20011220)      454.87984 (20122123)
      877.07305 (20122123)      1471.47580 (20122123)
3625569.7 |      398.66871 (20122123)      261.08315 (20122123)      304.45405 (20021601)
      419.83468 (20022324)      1231.39273 (21030222)
3625373.8 |      181.21451 (20021722)      218.04992 (22010507)      611.31831 (21030222)
      897.07297 (20011520)      1019.34257 (20100406)
3625177.9 |      289.72714 (21030222)      519.23300 (21030222)      638.81286 (20011520)
      670.17701 (20100406)      782.23032 (22012923)
3624982.1 |      337.20063 (22010619)      462.35648 (21110104)      450.67021 (20100406)
      513.63841 (22012923)      214.25850 (22021320)
3624786.2 |      357.41750 (21110104)      315.16875 (20100406)      474.54198 (20111623)
      394.13468 (22012923)      158.96402 (22120820)
3624590.4 |      228.44507 (20100406)      370.45068 (20111623)      424.83216 (22012923)
      119.63167 (22122304)      142.31488 (21121921)

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
*** AERMET - VERSION 23132 *** ***

```

```

*** 16:01:20

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE2 ***
 INCLUDING SOURCE(S): L0000069 , L0000070
 , L0000071 , L0000072 , L0000073 ,
 L0000074 , L0000075 , L0000076 , L0000077 , L0000078
 , L0000079 , L0000080 , L0000081 ,
 L0000082 , L0000083 , L0000084 , L0000085 , L0000086
 , L0000087 , L0000088 , L0000089 ,
 L0000090 , L0000091 , L0000092 , L0000093 , L0000094
 , L0000095 , L0000096 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	492820.18	493014.28	493208.38
493402.48		493596.58	

3628507.6	30.69561 (22071803)	32.29389 (22102201)	41.83351 (22102021)
20.81305 (20100318)	31.19189 (22102202)		
3628311.7	34.21764 (22071803)	35.64754 (22102201)	42.99153 (22102021)
23.79690 (20100318)	37.34247 (22102202)		
3628115.8	38.07629 (22071803)	40.49689 (22102201)	53.64936 (22102021)
28.67635 (20100318)	42.80484 (22102202)		
3627920.0	46.46465 (22102623)	45.75951 (22102201)	57.78431 (22102021)
40.77268 (22102202)	48.03154 (22102202)		
3627724.1	65.36537 (22102623)	62.15740 (22102201)	60.32739 (22102021)
43.75620 (22102202)	48.66232 (22102202)		
3627528.3	78.40276 (22102623)	67.76690 (22102201)	71.30960 (22102021)
65.95728 (22102202)	39.70472 (22102202)		
3627332.4	101.24695 (22102623)	79.34213 (22102021)	67.44525 (22102021)
79.61862 (22102202)	47.07375 (20101418)		
3627136.5	128.17016 (22102623)	91.61869 (22102021)	62.88906 (22102021)
70.09027 (22102202)	50.77357 (20101418)		
3626940.7	154.69889 (22102623)	116.06564 (22102021)	79.19909 (22102202)
64.87094 (22102202)	68.18017 (21080821)		
3626744.8	213.45408 (22011621)	153.14636 (22102021)	122.35719 (22102202)
73.91317 (20101418)	96.99436 (20092419)		
3626549.0	292.35820 (22011621)	214.76676 (22102021)	200.85974 (22102202)
142.66416 (21080821)	114.07284 (20092420)		
3626353.1	534.30519 (22102624)	331.08589 (22102021)	212.82203 (22102202)
197.58633 (20092419)	182.63707 (20092420)		

3626157.2	749.67995 (20090706)	630.66664 (22102021)	458.81052 (20092419)
306.58739 (20092420)	234.35607 (22122819)		
3625961.4	1430.35375 (22011706)	2024.99196 (22102021)	977.73524 (22122819)
496.01479 (21052124)	462.98087 (22120120)		
3625765.5	1851.57719 (22010222)	3100.61942 (20012222)	1394.65466 (21080901)
592.83130 (20101719)	398.05577 (21021002)		
3625569.7	1608.66643 (20111623)	1031.91533 (21031805)	700.07752 (21090504)
472.52223 (20021620)	371.01928 (20020619)		
3625373.8	531.99773 (22021320)	437.87805 (21031805)	380.62729 (22011906)
328.02664 (20022019)	256.25522 (22071923)		
3625177.9	319.20210 (21121921)	321.36284 (21031805)	258.74490 (20112120)
317.38852 (21013119)	246.01623 (22091521)		
3624982.1	241.29186 (21120123)	258.99155 (20113019)	201.28342 (21091105)
220.40889 (22011906)	214.53313 (21090504)		
3624786.2	183.50589 (20021922)	197.59449 (20113019)	191.93064 (22121919)
167.64806 (21103122)	172.74111 (21013119)		
3624590.4	137.29027 (20112124)	156.03953 (20113019)	178.69209 (21012805)
140.85410 (20090822)	127.33504 (21031721)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 44

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE2 ***
 INCLUDING SOURCE(S): L0000069 , L0000070
 , L0000071 , L0000072 , L0000073 ,
 L0000074 , L0000075 , L0000076 , L0000077 , L0000078
 , L0000079 , L0000080 , L0000081 ,
 L0000082 , L0000083 , L0000084 , L0000085 , L0000086
 , L0000087 , L0000088 , L0000089 ,
 L0000090 , L0000091 , L0000092 , L0000093 , L0000094
 , L0000095 , L0000096 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD			X-COORD (METERS)
(METERS)	493790.68	493984.78	494178.88
494372.98	494567.08		

- - - - -
 - - - - -

3628507.6	31.96236 (22102202)	19.21546 (20101418)	15.56192 (21050303)

7.58532 (20040205)	6.23607 (20080506)	
3628311.7 31.23916 (22102202)	76.43011 (20101624)	9.47464 (22061506)
6.60472 (20080506)	6.63700 (22031924)	
3628115.8 28.28005 (22102202)	123.49572 (20101624)	9.71687 (20041222)
6.48748 (22051924)	7.42191 (22070406)	
3627920.0 28.85135 (20101418)	31.08818 (21071424)	8.69675 (20080506)
8.37417 (22031924)	9.60970 (21021203)	
3627724.1 35.55905 (20101418)	60.40434 (21080821)	14.39731 (21050223)
12.00371 (21021203)	16.27320 (21050722)	
3627528.3 39.25154 (20101418)	123.19155 (21080821)	55.01752 (22011808)
59.90892 (21122302)	68.87638 (20092420)	
3627332.4 57.91594 (21080821)	129.73126 (22010702)	44.20976 (21050321)
66.54628 (20092420)	93.78999 (20092420)	
3627136.5 73.85192 (20092419)	56.28207 (20092419)	75.66583 (20092420)
70.93351 (20092420)	38.86451 (21122418)	
3626940.7 75.18646 (20092419)	73.66952 (20092420)	78.36518 (20092420)
44.78010 (21122418)	59.87863 (20032305)	
3626744.8 90.20316 (20092420)	83.60575 (20092420)	54.50430 (20032305)
62.10314 (20032305)	62.57454 (22122819)	
3626549.0 116.23952 (20092420)	88.11431 (20032305)	78.92745 (22122819)
63.74380 (22122819)	45.04291 (20042419)	
3626353.1 153.41906 (20032305)	124.64549 (22122819)	69.78202 (20040319)
67.26806 (20040319)	64.14968 (21052124)	
3626157.2 138.00130 (20040319)	139.78099 (21052124)	127.87293 (20010717)
130.32430 (22120120)	127.48599 (22120120)	
3625961.4 275.45329 (22120120)	225.04534 (21071321)	182.28769 (21071321)
125.40399 (21071321)	125.14688 (22120119)	
3625765.5 268.72795 (20070922)	203.54305 (20070922)	158.02143 (22041421)
127.06490 (22041421)	106.58066 (22041421)	
3625569.7 261.79718 (22121818)	194.05577 (20092521)	151.78081 (20051521)
123.46355 (21072101)	101.91767 (20101719)	
3625373.8 244.04115 (21020921)	179.42425 (20020619)	142.37986 (21080901)
122.77153 (22121818)	101.50185 (22121818)	
3625177.9 223.50080 (22011821)	187.03353 (22120419)	160.32223 (21021003)
109.73183 (21082723)	99.05827 (20020619)	
3624982.1 184.73264 (22091521)	167.10661 (22011821)	146.53765 (20021620)
122.88900 (22021419)	106.50105 (21021003)	
3624786.2 160.35587 (20112119)	138.93507 (21102120)	129.12546 (22011821)
108.58121 (20021620)	94.72519 (22120419)	
3624590.4 133.78794 (21013119)	122.98459 (20112119)	110.20298 (21102120)
102.68903 (22011821)	79.84224 (22071923)	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 45

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0000069 , L0000070
, L0000071 , L0000072 , L0000073 ,
L0000074 , L0000075 , L0000076 , L0000077 , L0000078
, L0000079 , L0000080 , L0000081 ,
L0000082 , L0000083 , L0000084 , L0000085 , L0000086
, L0000087 , L0000088 , L0000089 ,
L0000090 , L0000091 , L0000092 , L0000093 , L0000094
, L0000095 , L0000096 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)

494761.18

3628507.6	7.62560 (22031924)
3628311.7	8.85087 (22070406)
3628115.8	7.90637 (22022101)
3627920.0	8.70829 (20041221)
3627724.1	8.79258 (22022102)
3627528.3	11.65123 (22122801)
3627332.4	19.92066 (20062406)
3627136.5	108.36337 (22091021)
3626940.7	54.68484 (20032305)
3626744.8	52.13201 (22122819)
3626549.0	41.49619 (20040319)
3626353.1	66.77049 (21052124)
3626157.2	87.82009 (22120120)
3625961.4	90.59934 (22120119)
3625765.5	88.08705 (22041421)
3625569.7	86.57151 (20101719)
3625373.8	86.90998 (20092521)
3625177.9	82.73656 (21080901)
3624982.1	74.89536 (21081624)
3624786.2	87.00060 (21020921)
3624590.4	83.41021 (20021620)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24

*** AERMET - VERSION 23132 ***

*** 16:01:20

PAGE 46

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE2 ***
INCLUDING SOURCE(S): L0000069 , L0000070
, L0000071 , L0000072 , L0000073 ,
L0000074 , L0000075 , L0000076 , L0000077 , L0000078
, L0000079 , L0000080 , L0000081 ,
L0000082 , L0000083 , L0000084 , L0000085 , L0000086
, L0000087 , L0000088 , L0000089 ,
L0000090 , L0000091 , L0000092 , L0000093 , L0000094
, L0000095 , L0000096 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC	CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)
492883.25	3625830.80	2839.20992	(20011220)	492919.80
3625834.65	3591.29078	(21012919)		
492955.07	3625845.55	4299.55191	(22120524)	493069.86
3625832.73	4326.89603	(20070922)		
493094.87	3625832.73	3530.21924	(20081921)	493110.90
3625837.21	3245.42627	(22040302)		
493151.95	3625834.01	2345.62295	(22040302)	493166.70
3625837.86	2194.78236	(21080723)		
493187.86	3625836.57	1898.99687	(21080723)	493201.33
3625836.57	1750.88790	(21080723)		
493240.44	3625836.57	1397.10881	(21080723)	492881.32
3625908.40	2191.85745	(21021307)		
492906.98	3625898.14	2641.95600	(21031003)	492901.84
3625911.60	2576.45540	(22120522)		
492928.14	3625914.81	2818.27328	(22120701)	492933.91
3625898.14	3084.38887	(22120522)		
492951.87	3625908.40	3067.78324	(21032421)	492973.67
3625907.11	3090.30358	(20061502)		
492993.55	3625914.17	2928.28631	(22102624)	492996.11
3625897.50	3168.08102	(22102624)		
493015.99	3625896.85	3133.21588	(22102021)	493023.05
3625912.24	2908.03233	(22102021)		
493044.21	3625907.11	2475.16731	(22102202)	493066.66
3625907.76	2151.94516	(20092420)		
493085.25	3625912.24	2368.99886	(20092420)	493087.18
3625895.57	2410.08214	(20092420)		
493108.98	3625911.60	1916.41153	(20092420)	493112.19
3625897.50	2034.97662	(22122819)		
493133.99	3625901.98	1733.96666	(22122819)	492874.27

3625788.48	2459.33748	(20021601)		
492894.15	3625789.12	2779.62794	(22020120)	492910.18
3625790.40	3054.72332	(20022324)		
492930.70	3625786.55	3915.91568	(21030222)	492947.38
3625791.04	4201.34513	(21030222)		
492963.41	3625787.84	4076.36246	(21110104)	492982.65
3625787.84	3939.75316	(20111623)		
492999.96	3625787.84	3521.18831	(22120820)	493021.12
3625791.04	3437.40653	(20050502)		
493036.52	3625789.12	3479.39258	(21103122)	493055.75
3625789.76	3668.80596	(22073106)		
493076.28	3625787.84	3560.67870	(22011821)	493094.87
3625787.84	3260.17202	(21020921)		
493112.83	3625788.48	2915.87563	(21021003)	493129.50
3625787.19	2468.98313	(20020619)		
493148.74	3625787.19	2110.64771	(21080901)	493164.77
3625790.40	1964.70128	(22121818)		
493184.65	3625789.12	1705.78128	(22121818)	493201.97
3625791.04	1538.50944	(20051521)		
493221.21	3625790.40	1376.54121	(20051521)	493238.52
3625791.04	1253.68969	(21072101)		
492783.85	3626648.44	248.71938	(20101705)	492788.98
3626677.30	239.22048	(22011621)		
492759.48	3626659.99	253.91749	(20101705)	492755.63
3626685.00	243.32780	(20101705)		
492754.35	3626706.16	233.86421	(20101705)	492720.36
3626707.44	237.96029	(22102624)		
492758.84	3626739.51	214.93796	(20101705)	492703.69
3626740.79	230.14286	(22102624)		
492688.30	3626714.50	250.24529	(22102624)	492652.38
3626742.71	244.82577	(20022222)		
492660.72	3626713.21	254.91979	(20022222)	492679.32
3626674.09	271.27932	(20022222)		
492692.79	3626668.96	272.91265	(20022222)	492676.75
3626651.01	277.05233	(20022222)		
492726.13	3626643.31	276.49512	(22102624)	492726.77
3626607.40	296.78036	(22102624)		
492708.82	3626624.72	292.98484	(20022222)	492689.58
3626622.15	290.59197	(20022222)		
492704.33	3626600.99	303.59078	(20022222)	492716.51
3626577.26	316.66258	(20022222)		
492739.60	3626591.37	303.86164	(22102624)	492740.24
3626567.00	318.84245	(20022222)		
492754.99	3626574.05	308.23401	(22102624)	492750.50
3626550.33	327.15170	(22102624)		
492777.44	3626545.20	311.18057	(22102624)	492771.66
3626525.32	336.50997	(22102624)		
492780.00	3626415.01	430.33728	(20022222)	492778.72
3626388.08	445.38104	(20022222)		
492747.94	3626386.16	420.77405	(21020820)	492742.16

3626418.22 382.96497 (22032903)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24

*** AERMET - VERSION 23132 ***

*** 16:01:20

PAGE 47

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0000069 , L0000070
, L0000071 , L0000072 , L0000073 ,
L0000074 , L0000075 , L0000076 , L0000077 , L0000078
, L0000079 , L0000080 , L0000081 ,
L0000082 , L0000083 , L0000084 , L0000085 , L0000086
, L0000087 , L0000088 , L0000089 ,
L0000090 , L0000091 , L0000092 , L0000093 , L0000094
, L0000095 , L0000096 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492699.20	3626422.71	392.42854	(21020820)	492697.92
3626391.93	398.67059	(21020820)		
492678.68	3626411.81	368.90138	(20090706)	492626.09
3626426.56	342.86264	(21021402)		
492606.85	3626435.54	316.76694	(22011623)	492599.16
3626405.39	356.81528	(22011623)		
492491.20	3626644.88	208.12316	(21021402)	492517.36
3626636.70	217.12820	(20090706)		
492521.18	3626603.45	223.79572	(21021402)	492521.72
3626582.19	230.30342	(22102521)		
492512.46	3626553.84	246.43417	(22011623)	492513.55
3626533.13	255.75407	(22011623)		
492501.01	3626506.42	250.45703	(22011623)	492490.65
3626485.70	249.64121	(21012124)		
492479.21	3626464.45	256.42292	(21012124)	492466.12
3626447.00	254.75962	(21102603)		
492447.59	3626418.66	285.86956	(21032421)	492431.78
3626430.65	276.31455	(21032421)		
492481.93	3626620.35	214.51432	(22011623)	492482.48
3626594.18	229.54599	(22011623)		

492479.21	3626572.92	236.92471	(22011623)	492477.02
3626546.76	237.49616	(22011623)		
492467.76	3626523.32	229.59266	(21012124)	492463.94
3626507.51	239.45628	(21012124)		
492450.86	3626492.79	239.52365	(21012124)	492427.42
3626474.80	242.53021	(21032421)		
492402.89	3626460.63	261.82643	(21032421)	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
*** AERMET - VERSION 23132 *** ***
*** 16:01:20

PAGE 48

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	490879.18	491073.28	491267.38
491461.48	491655.58		

3628507.6		62.12335 (21032421)	68.26091 (21012124)	81.82986 (22011623)
85.55051		(22102521)	110.95243 (21020820)	
3628311.7		68.30056 (21011618)	69.44373 (21032421)	76.36140 (21012124)
93.51871		(22011623)	105.86041 (20090706)	
3628115.8		67.81894 (22120701)	76.07248 (21011618)	78.73287 (21032421)
87.12051		(22011623)	105.93778 (22011623)	
3627920.0		65.57848 (21122104)	73.46693 (22120701)	85.11739 (21011618)
90.99517		(21032421)	105.03158 (22011623)	
3627724.1		67.51490 (22010221)	79.95696 (22120522)	82.00668 (20101702)
99.66107		(22120701)	108.04564 (21121701)	
3627528.3		61.75343 (21021307)	72.22607 (22042905)	91.70553 (22120522)

99.63191 (21122104)	121.33823 (22120701)	
3627332.4 66.45358 (21011623)	73.62284 (22011624)	82.83652 (21021307)
101.17940 (22010221)	133.24482 (22120522)	
3627136.5 68.34862 (20010821)	75.90556 (22011221)	88.38316 (21011623)
100.37715 (22011624)	120.05902 (21021307)	
3626940.7 68.85033 (22120623)	81.10370 (22120623)	93.57419 (21122422)
108.54173 (20010821)	127.81003 (22011221)	
3626744.8 69.99307 (22120624)	82.50961 (22031223)	92.10167 (22031223)
111.46707 (22120524)	137.39095 (22120524)	
3626549.0 85.13010 (21012919)	97.98332 (21012919)	112.54828 (21012919)
138.62938 (21012919)	158.88469 (21012919)	
3626353.1 119.58827 (20122123)	171.32815 (20122123)	241.81192 (20122123)
330.19878 (20122123)	447.11968 (20122123)	
3626157.2 264.62107 (20122123)	263.44141 (20122123)	237.42791 (20122123)
187.76718 (20122123)	198.71168 (20021601)	
3625961.4 88.85819 (20022501)	98.73757 (20021601)	107.13427 (20021722)
133.12067 (20021722)	190.56697 (22010507)	
3625765.5 85.86118 (20010720)	97.98070 (20010720)	112.89617 (20010720)
220.54829 (21030222)	382.07720 (21030222)	
3625569.7 183.69684 (20122123)	248.51754 (20122123)	324.81897 (20122123)
399.66861 (20122123)	441.83796 (20122123)	
3625373.8 211.22736 (20122123)	253.26509 (21030222)	233.93262 (20011520)
333.70422 (20011520)	255.80467 (21110104)	
3625177.9 210.03847 (22010619)	241.10173 (20011520)	250.23679 (21110104)
169.96332 (21110104)	344.29942 (20100406)	
3624982.1 226.74676 (20011520)	217.34789 (21110104)	134.44241 (21110104)
248.22585 (20100406)	374.38739 (21030222)	
3624786.2 185.27423 (21110104)	108.10344 (21110104)	238.18443 (21030222)
306.33140 (22010619)	356.81675 (20011520)	
3624590.4 150.45590 (21030222)	248.35343 (21030222)	235.14039 (22010619)
324.60812 (20011520)	282.15064 (21110104)	

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 49

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
	491849.68		492043.78	492237.88
492431.98		492626.08		

3628507.6	112.85178 (22032903)	137.88754 (20022222)	125.73122 (20101705)
119.14097 (22011621)	110.01049 (22102623)		
3628311.7	134.57080 (21020820)	151.83493 (20022222)	147.99749 (20101705)
146.29298 (22011621)	129.75001 (22102623)		
3628115.8	132.84307 (21020820)	145.38170 (22032903)	175.57729 (22102624)
171.66947 (22011621)	153.72377 (22102623)		
3627920.0	126.02872 (22102521)	176.11650 (21020820)	210.28852 (20022222)
186.08419 (20101705)	179.47526 (22102623)		
3627724.1	129.11814 (22011623)	167.89405 (20090706)	202.39426 (22090524)
238.68915 (20101705)	204.34927 (22102623)		
3627528.3	133.21236 (21121701)	165.60935 (22011623)	239.76467 (21020820)
306.16779 (20022222)	287.70657 (22011621)		
3627332.4	147.17312 (22120701)	175.89431 (21011618)	224.78042 (22011623)
329.79479 (22032903)	377.13487 (22011621)		
3627136.5	161.83640 (22010221)	191.75671 (20101702)	251.45198 (21011618)
341.91481 (20090706)	511.04981 (20101705)		
3626940.7	159.67804 (21011623)	197.59582 (21021307)	307.82137 (22120522)
406.40127 (21011618)	659.13152 (21020820)		
3626744.8	168.74384 (22120623)	222.00385 (21122422)	292.05297 (22011221)
418.88494 (21021307)	824.25111 (21011618)		
3626549.0	195.21049 (21012919)	326.76769 (21012919)	391.44100 (21012919)
486.34466 (20122123)	952.95102 (20122123)		
3626353.1	497.86714 (20122123)	549.99587 (20122123)	526.68791 (22123102)
579.74493 (20011918)	676.65833 (20071603)		
3626157.2	214.01820 (20021722)	256.18325 (22010507)	793.68115 (21030222)
874.05700 (21110104)	960.74075 (22012923)		
3625961.4	397.43734 (21030222)	466.91553 (22010619)	527.81345 (21110104)
680.69287 (20111623)	597.22825 (20010821)		
3625765.5	444.90525 (20011520)	389.14038 (21110104)	545.05333 (20111623)
892.51054 (20122123)	1487.70369 (20122123)		
3625569.7	406.61691 (20122123)	440.90368 (20100406)	505.64806 (22012923)
423.38273 (20022324)	1242.96090 (21030222)		
3625373.8	421.80700 (20100406)	349.43314 (22012923)	619.30255 (21030222)
907.99849 (20011520)	1028.65151 (20100406)		
3625177.9	368.23501 (20111623)	525.88647 (21030222)	645.41389 (20011520)
679.60915 (20100406)	790.08675 (22012923)		
3624982.1	344.03071 (22012923)	468.66957 (21110104)	456.48515 (20100406)
521.41772 (22012923)	217.73755 (22021320)		

3624786.2 | 362.52149 (21110104) 320.43639 (20100406) 479.54201 (20111623)
399.60514 (22012923) 163.24849 (22120820)
3624590.4 | 232.73122 (20100406) 374.98541 (20111623) 429.90802 (22012923)
121.08858 (22122304) 153.86608 (21121921)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24

*** AERMET - VERSION 23132 ***
*** 16:01:20

PAGE 50

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)		
493402.48	492820.18	493014.28
	493596.58	493208.38

3628507.6 | 83.03039 (21102918) 87.43329 (22102021) 57.90434 (22102021)
62.56623 (22102202) 51.04698 (22102202)
3628311.7 | 92.26326 (21102918) 93.98555 (22102021) 54.57949 (22102021)
66.02620 (22102202) 50.83617 (22102202)
3628115.8 | 100.22080 (21102918) 104.40674 (22102021) 84.47875 (22102202)
70.19369 (22102202) 50.78649 (22102202)
3627920.0 | 116.46732 (21102918) 112.23829 (22102021) 100.32013 (22102202)
137.86494 (20101624) 92.44387 (21080821)
3627724.1 | 169.67785 (21102918) 151.91504 (22102021) 105.70154 (22102202)
61.71250 (21080821) 142.88343 (22010702)
3627528.3 | 168.47725 (21102918) 148.73126 (22102021) 129.56265 (20101624)
143.90525 (21080821) 72.43081 (20092419)
3627332.4 | 214.17454 (21102918) 183.29504 (22102202) 122.80822 (21080821)
194.22119 (21122302) 201.64451 (20092420)
3627136.5 | 291.01194 (21102918) 195.86431 (22102202) 148.78128 (20092419)

159.00639 (20092420)	124.51959 (20032305)		
3626940.7 474.45728 (22102623)	226.22637 (21080821)	246.51975 (20092420)	
160.58447 (20032305)	140.98944 (22122819)		
3626744.8 1070.02631 (22102623)	452.83855 (20092420)	262.25932 (22122819)	
177.12439 (21052124)	164.66179 (22120120)		
3626549.0 2702.13587 (21030806)	596.31607 (22040302)	593.07970 (21070923)	
472.53039 (21070923)	214.28102 (22040302)		
3626353.1 1233.90016 (20052503)	853.66701 (22010618)	701.91272 (21052723)	
496.62103 (20041206)	424.40150 (20121024)		
3626157.2 886.79033 (21021004)	942.90139 (22081002)	664.60369 (21072106)	
436.68887 (20092022)	347.33187 (21021920)		
3625961.4 1431.90734 (22011706)	2025.61919 (22102021)	978.60825 (22122819)	
507.58333 (21072106)	463.59049 (22120120)		
3625765.5 1852.17631 (22010222)	3101.25720 (20012222)	1395.14798 (21080901)	
593.58338 (20101719)	398.56853 (21021002)		
3625569.7 1620.69780 (20111623)	1033.25690 (21031805)	710.80107 (21090504)	
480.12035 (20021620)	371.33592 (20020619)		
3625373.8 533.05293 (22021320)	465.53132 (20122521)	488.95353 (21103122)	
337.58455 (20022019)	258.92326 (22071923)		
3625177.9 323.95810 (21121921)	409.93993 (20082203)	386.87490 (20112120)	
381.99693 (20082006)	297.39977 (20101621)		
3624982.1 250.06281 (20091123)	344.76368 (20082203)	317.80200 (21091105)	
353.71938 (21103122)	246.02586 (22081801)		
3624786.2 196.19482 (20091123)	298.01762 (20082203)	354.92948 (22121919)	
283.67116 (22021319)	241.77088 (20082006)		
3624590.4 175.56743 (20012222)	265.95488 (20082203)	282.75960 (22121919)	
289.01103 (21080102)	260.54962 (21103122)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 51

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)			X-COORD (METERS)
	493790.68	493984.78	494178.88
494372.98	494567.08		

3628507.6	39.34243 (20101418)	81.35163 (21080821)	15.57160 (21050303)
8.57470 (22022101)	7.17236 (21022309)		
3628311.7	101.04214 (20101624)	77.21567 (20101624)	9.65841 (21021203)
7.61709 (20041221)	8.22534 (21022309)		
3628115.8	126.30962 (20121022)	123.57502 (20101624)	10.53830 (20041221)
7.29902 (22122801)	8.19217 (20031823)		
3627920.0	142.97975 (22011808)	31.13667 (21071424)	9.91389 (22122801)
9.31175 (20031823)	9.61464 (21021203)		
3627724.1	123.01624 (21122302)	60.42176 (21080821)	14.41380 (21050223)
12.01415 (22070406)	16.28264 (21050722)		
3627528.3	154.80106 (20092420)	123.31394 (21080821)	55.04432 (22011808)
59.94278 (21122302)	68.89260 (20092420)		
3627332.4	176.66766 (22091021)	130.00294 (22010702)	86.30536 (22122819)
76.98244 (21090103)	93.86222 (20092420)		
3627136.5	134.13400 (22122819)	119.81552 (22122819)	203.71916 (20081602)
193.07410 (20081602)	149.64399 (21072203)		
3626940.7	105.30046 (20040319)	80.44433 (21052124)	94.10827 (21052124)
129.07952 (21080324)	140.62779 (21080324)		
3626744.8	154.60900 (22120120)	130.88281 (22120120)	107.37302 (22120120)
94.61837 (21071321)	96.29030 (21071321)		
3626549.0	204.60661 (22040302)	156.32644 (22040302)	107.12716 (22040302)
92.52945 (22040302)	81.91557 (22040302)		
3626353.1	318.46958 (20070924)	259.65459 (20070924)	107.29217 (21021002)
223.51352 (21083001)	85.10840 (21021002)		
3626157.2	218.11414 (22120620)	311.63323 (21020719)	252.35857 (20041206)
234.94241 (20121024)	202.12802 (21040722)		
3625961.4	349.36715 (20082201)	271.92120 (21052723)	239.67759 (21081903)
127.07851 (21071321)	196.23409 (21100704)		
3625765.5	269.05447 (20070922)	216.62986 (20092022)	248.13072 (21091622)
236.03775 (21052723)	207.06151 (21081903)		
3625569.7	273.12940 (21072106)	231.10360 (20071003)	211.84998 (20092022)
205.93774 (22091005)	195.38848 (22091005)		
3625373.8	308.40510 (22080701)	230.99011 (21072106)	198.21702 (22040123)
181.71336 (22082523)	191.06134 (22082502)		
3625177.9	223.81512 (22011821)	200.09048 (21021008)	195.10081 (21072106)
179.65191 (22040123)	172.18553 (20071003)		
3624982.1	195.50422 (21092704)	176.48128 (22082704)	179.92471 (21021008)
188.24825 (21072106)	164.61428 (22040123)		
3624786.2	212.56458 (21013119)	185.74060 (20102320)	158.60527 (22082704)
152.28739 (22081701)	167.52571 (21081124)		
3624590.4	220.48883 (22081801)	189.04989 (21013119)	151.16371 (21092804)
162.56562 (22081224)	85.75922 (22071923)		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
*** AERMET - VERSION 23132 *** ***
*** 16:01:20

PAGE 52

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)

3628507.6	7.87995 (21022309)
3628311.7	8.90174 (22070406)
3628115.8	7.94253 (21022309)
3627920.0	8.81734 (20041219)
3627724.1	9.48941 (20051006)
3627528.3	11.67052 (20060406)
3627332.4	19.98627 (20062406)
3627136.5	108.55034 (22091021)
3626940.7	144.42224 (21080324)
3626744.8	86.86494 (21071321)
3626549.0	72.84001 (22040302)
3626353.1	116.29498 (21080724)
3626157.2	88.98696 (22120120)
3625961.4	91.58156 (22120119)
3625765.5	188.53183 (21072102)
3625569.7	137.74607 (21052723)
3625373.8	182.33197 (22091005)
3625177.9	168.73390 (22082523)
3624982.1	160.15439 (20071003)
3624786.2	143.00668 (21081124)

3624590.4 | 151.63334 (21081124)
 ^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 ***
 *** 16:01:20

PAGE 53

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
-	-	-	-	-
-	-	-	-	-
492883.25	3625830.80	2839.88447	(20011220)	492919.80
3625834.65	3591.80583	(21012919)		
492955.07	3625845.55	4300.23345	(22120524)	493069.86
3625832.73	4327.49441	(20070922)		
493094.87	3625832.73	3530.74997	(20081921)	493110.90
3625837.21	3246.30249	(22040302)		
493151.95	3625834.01	2346.50539	(22040302)	493166.70
3625837.86	2195.27926	(21080723)		
493187.86	3625836.57	1899.50284	(21080723)	493201.33
3625836.57	1751.39834	(21080723)		
493240.44	3625836.57	1397.65818	(21080723)	492881.32
3625908.40	2192.51230	(21021307)		
492906.98	3625898.14	2642.64555	(21031003)	492901.84
3625911.60	2577.36000	(22120522)		
492928.14	3625914.81	2819.03225	(22120701)	492933.91
3625898.14	3085.18728	(22120522)		
492951.87	3625908.40	3068.52765	(21032421)	492973.67
3625907.11	3091.58477	(20061502)		
492993.55	3625914.17	2929.39556	(22102624)	492996.11
3625897.50	3169.17150	(22102624)		

493015.99	3625896.85	3133.72949	(22102021)	493023.05
3625912.24	2908.57142	(22102021)		
493044.21	3625907.11	2476.25736	(22102202)	493066.66
3625907.76	2152.64379	(20092420)		
493085.25	3625912.24	2369.64963	(20092420)	493087.18
3625895.57	2410.72715	(20092420)		
493108.98	3625911.60	1917.04031	(20092420)	493112.19
3625897.50	2035.76276	(22122819)		
493133.99	3625901.98	1734.81217	(22122819)	492874.27
3625788.48	2460.03481	(20021601)		
492894.15	3625789.12	2780.31363	(22020120)	492910.18
3625790.40	3055.36169	(20022324)		
492930.70	3625786.55	3917.40044	(21030222)	492947.38
3625791.04	4202.81652	(21030222)		
492963.41	3625787.84	4077.95347	(21110104)	492982.65
3625787.84	3941.20410	(20111623)		
492999.96	3625787.84	3521.94099	(22120820)	493021.12
3625791.04	3652.15159	(22071901)		
493036.52	3625789.12	3744.05539	(22052201)	493055.75
3625789.76	3669.48648	(22073106)		
493076.28	3625787.84	3561.46513	(22011821)	493094.87
3625787.84	3260.95305	(21020921)		
493112.83	3625788.48	2916.66049	(21021003)	493129.50
3625787.19	2469.47687	(20020619)		
493148.74	3625787.19	2111.09906	(21080901)	493164.77
3625790.40	1965.38141	(22121818)		
493184.65	3625789.12	1706.48259	(22121818)	493201.97
3625791.04	1539.15786	(20051521)		
493221.21	3625790.40	1377.19844	(20051521)	493238.52
3625791.04	1254.18817	(21072101)		
492783.85	3626648.44	2737.00081	(22102624)	492788.98
3626677.30	2290.09210	(22102624)		
492759.48	3626659.99	2123.30699	(20061502)	492755.63
3626685.00	1864.12651	(21020820)		
492754.35	3626706.16	1753.99932	(22102624)	492720.36
3626707.44	1380.40911	(22011623)		
492758.84	3626739.51	1583.78996	(22102624)	492703.69
3626740.79	1151.44812	(20090706)		
492688.30	3626714.50	1140.45662	(21012124)	492652.38
3626742.71	873.87241	(21032421)		
492660.72	3626713.21	967.50283	(21011618)	492679.32
3626674.09	1224.58543	(22120701)		
492692.79	3626668.96	1332.97521	(22120701)	492676.75
3626651.01	1196.64944	(22120522)		
492726.13	3626643.31	1624.11208	(22120701)	492726.77
3626607.40	1393.29999	(22011624)		
492708.82	3626624.72	1367.37743	(22120522)	492689.58
3626622.15	1163.27791	(22011624)		
492704.33	3626600.99	1221.94860	(21122422)	492716.51
3626577.26	1378.46858	(20122123)		

492739.60	3626591.37	1455.10973	(21122422)	492740.24
3626567.00	1468.37604	(20122123)		
492754.99	3626574.05	1520.92974	(20122123)	492750.50
3626550.33	1529.92512	(21030222)		
492777.44	3626545.20	1722.40035	(20111623)	492771.66
3626525.32	1640.38725	(20111623)		
492780.00	3626415.01	1460.93707	(21030222)	492778.72
3626388.08	1323.37075	(20100406)		
492747.94	3626386.16	1208.00940	(20011520)	492742.16
3626418.22	1204.36633	(22012923)		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apol1\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24

*** AERMET - VERSION 23132 *** ***
 *** 16:01:20

PAGE 54

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492699.20	3626422.71	1187.58978	(20111623)	492697.92
3626391.93	992.61040	(21040801)		
492678.68	3626411.81	999.59472	(20102402)	492626.09
3626426.56	838.88942	(20122123)		
492606.85	3626435.54	1068.05412	(21030222)	492599.16
3626405.39	776.60459	(20051324)		
492491.20	3626644.88	495.61502	(21122422)	492517.36
3626636.70	526.20120	(21122422)		
492521.18	3626603.45	530.76668	(22120524)	492521.72
3626582.19	522.39424	(20122207)		
492512.46	3626553.84	621.43092	(20122123)	492513.55

3626533.13	797.24979	(20122123)		
492501.01	3626506.42	816.91226	(20122123)	492490.65
3626485.70	765.26780	(20122123)		
492479.21	3626464.45	734.46458	(20122123)	492466.12
3626447.00	855.53033	(20122123)		
492447.59	3626418.66	719.18458	(20122123)	492431.78
3626430.65	718.34613	(20122123)		
492481.93	3626620.35	479.28770	(22120524)	492482.48
3626594.18	480.44364	(22120524)		
492479.21	3626572.92	499.88309	(21012919)	492477.02
3626546.76	607.71927	(20122123)		
492467.76	3626523.32	759.77601	(20122123)	492463.94
3626507.51	792.91266	(20122123)		
492450.86	3626492.79	790.95132	(20122123)	492427.42
3626474.80	956.70627	(20122123)		
492402.89	3626460.63	730.10078	(20122123)	

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
 *** AERMET - VERSION 23132 *** ***
 *** 16:01:20

PAGE 55

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID		NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE	GRID-ID		
- - - - -				
SLINE1	1ST HIGHEST VALUE IS		529.03266 AT (	492820.18, 3626548.96, 125.40,
	125.40, 0.00) GC UCART1			
	2ND HIGHEST VALUE IS		313.94631 AT (	492777.44, 3626545.20, 125.19,
	125.19, 0.00) DC			
	3RD HIGHEST VALUE IS		265.67688 AT (	492771.66, 3626525.32, 125.29,
	125.29, 0.00) DC			
	4TH HIGHEST VALUE IS		239.51211 AT (	492754.99, 3626574.05, 125.20,
	125.20, 0.00) DC			
	5TH HIGHEST VALUE IS		233.60385 AT (	492750.50, 3626550.33, 125.18,
	125.18, 0.00) DC			
	6TH HIGHEST VALUE IS		197.96402 AT (	492740.24, 3626567.00, 125.14,

125.14,	0.00) DC	170.18001 AT (	492780.00,	3626415.01,	128.98,
135.14,	0.00) DC				
	8TH HIGHEST VALUE IS	159.99339 AT (	492739.60,	3626591.37,	124.84,
124.84,	0.00) DC				
	9TH HIGHEST VALUE IS	134.21388 AT (	492742.16,	3626418.22,	129.71,
129.71,	0.00) DC				
	10TH HIGHEST VALUE IS	132.18768 AT (	492716.51,	3626577.26,	124.56,
124.56,	0.00) DC				
SLINE2	1ST HIGHEST VALUE IS	503.76820 AT (	493069.86,	3625832.73,	142.17,
142.17,	0.00) DC				
	2ND HIGHEST VALUE IS	458.24067 AT (	493021.12,	3625791.04,	141.82,
141.82,	0.00) DC				
	3RD HIGHEST VALUE IS	436.10868 AT (	493036.52,	3625789.12,	141.85,
141.85,	0.00) DC				
	4TH HIGHEST VALUE IS	417.82188 AT (	493055.75,	3625789.76,	141.87,
141.87,	0.00) DC				
	5TH HIGHEST VALUE IS	401.85646 AT (	492999.96,	3625787.84,	141.71,
141.71,	0.00) DC				
	6TH HIGHEST VALUE IS	387.13989 AT (	492982.65,	3625787.84,	141.63,
141.63,	0.00) DC				
	7TH HIGHEST VALUE IS	366.73008 AT (	492963.41,	3625787.84,	141.57,
141.57,	0.00) DC				
	8TH HIGHEST VALUE IS	350.98658 AT (	492947.38,	3625791.04,	141.55,
141.55,	0.00) DC				
	9TH HIGHEST VALUE IS	346.78893 AT (	493076.28,	3625787.84,	141.87,
141.87,	0.00) DC				
	10TH HIGHEST VALUE IS	336.68187 AT (	492955.07,	3625845.55,	142.09,
142.09,	0.00) DC				
ALL	1ST HIGHEST VALUE IS	534.79110 AT (	492820.18,	3626548.96,	125.40,
125.40,	0.00) GC UCART1				
	2ND HIGHEST VALUE IS	507.71972 AT (	493069.86,	3625832.73,	142.17,
142.17,	0.00) DC				
	3RD HIGHEST VALUE IS	462.04770 AT (	493021.12,	3625791.04,	141.82,
141.82,	0.00) DC				
	4TH HIGHEST VALUE IS	439.91068 AT (	493036.52,	3625789.12,	141.85,
141.85,	0.00) DC				
	5TH HIGHEST VALUE IS	421.63012 AT (	493055.75,	3625789.76,	141.87,
141.87,	0.00) DC				
	6TH HIGHEST VALUE IS	405.64280 AT (	492999.96,	3625787.84,	141.71,
141.71,	0.00) DC				
	7TH HIGHEST VALUE IS	390.90263 AT (	492982.65,	3625787.84,	141.63,
141.63,	0.00) DC				
	8TH HIGHEST VALUE IS	370.44457 AT (	492963.41,	3625787.84,	141.57,
141.57,	0.00) DC				
	9TH HIGHEST VALUE IS	354.66866 AT (	492947.38,	3625791.04,	141.55,
141.55,	0.00) DC				
	10TH HIGHEST VALUE IS	350.59470 AT (	493076.28,	3625787.84,	141.87,

141.87, 0.00) DC

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

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
*** AERMET - VERSION 23132 ***
*** 16:01:20

PAGE 56

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

SLINE1 HIGH 1ST HIGH VALUE IS 2541.49297 ON 22102624: AT (492783.85,
3626648.44, 123.55, 123.55, 0.00) DC

SLINE2 HIGH 1ST HIGH VALUE IS 4326.89603 ON 20070922: AT (493069.86,
3625832.73, 142.17, 142.17, 0.00) DC

ALL HIGH 1ST HIGH VALUE IS 4327.49441 ON 20070922: AT (493069.86,
3625832.73, 142.17, 142.17, 0.00) DC

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

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/08/24
*** AERMET - VERSION 23132 ***
*** 16:01:20

PAGE 57

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

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

A Total of 0 Fatal Error Message(s)
A Total of 1 Warning Message(s)
A Total of 1415 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 654 Calm Hours Identified

A Total of 761 Missing Hours Identified (2.89 Percent)

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

***** WARNING MESSAGES *****
MX W403 338 PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

*** AERMOD Finishes Successfully ***

HARP2 - HRACalc (dated 22118) 12/3/2024 3:09:31 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.92

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.92
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 1 HARP\hra\Phase 1 - OffsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 1 HARP\hra\Phase 1 - OffsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 1 HARP\hra\Phase 1 - OffsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 1 HARP\hra\Phase 1 - OffsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 1 HARP\hra\Phase 1 - OffsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 1 HARP\hra\Phase 1 - OffsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

[illegible]

94	ALL	UCART1	492626.1	3625374	1.94E-07	1.92YrCanc	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	UCART1	492820.2	3625374	2.09E-07	1.92YrCanc	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	UCART1	493014.3	3625374	1.99E-07	1.92YrCanc	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	UCART1	493208.4	3625374	1.96E-07	1.92YrCanc	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	UCART1	493402.5	3625374	1.79E-07	1.92YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	UCART1	493596.6	3625374	1.59E-07	1.92YrCanc	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	UCART1	493790.7	3625374	1.41E-07	1.92YrCanc	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	UCART1	493984.8	3625374	1.08E-07	1.92YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	UCART1	494178.9	3625374	8.56E-08	1.92YrCanc	8.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	UCART1	494373	3625374	7.01E-08	1.92YrCanc	7.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	UCART1	494567.1	3625374	6.07E-08	1.92YrCanc	6.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	UCART1	494761.2	3625374	5.23E-08	1.92YrCanc	5.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	UCART1	490879.2	3625570	4.63E-08	1.92YrCanc	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	UCART1	491073.3	3625570	5.55E-08	1.92YrCanc	5.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	UCART1	491267.4	3625570	7.34E-08	1.92YrCanc	7.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	UCART1	491461.5	3625570	8.85E-08	1.92YrCanc	8.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	UCART1	491655.6	3625570	8.99E-08	1.92YrCanc	8.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	UCART1	491849.7	3625570	1.05E-07	1.92YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	UCART1	492043.8	3625570	1.21E-07	1.92YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	UCART1	492237.9	3625570	1.60E-07	1.92YrCanc	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	UCART1	492432	3625570	2.40E-07	1.92YrCanc	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	UCART1	492626.1	3625570	3.77E-07	1.92YrCanc	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	UCART1	492820.2	3625570	4.02E-07	1.92YrCanc	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	UCART1	493014.3	3625570	4.89E-07	1.92YrCanc	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	UCART1	493208.4	3625570	4.11E-07	1.92YrCanc	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	UCART1	493402.5	3625570	3.00E-07	1.92YrCanc	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	UCART1	493596.6	3625570	2.24E-07	1.92YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	UCART1	493790.7	3625570	1.48E-07	1.92YrCanc	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	UCART1	493984.8	3625570	1.09E-07	1.92YrCanc	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	UCART1	494178.9	3625570	8.55E-08	1.92YrCanc	8.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	UCART1	494373	3625570	7.24E-08	1.92YrCanc	7.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	UCART1	494567.1	3625570	6.35E-08	1.92YrCanc	6.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	UCART1	494761.2	3625570	5.27E-08	1.92YrCanc	5.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	UCART1	490879.2	3625766	4.34E-08	1.92YrCanc	4.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	UCART1	491073.3	3625766	5.39E-08	1.92YrCanc	5.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	UCART1	491267.4	3625766	6.37E-08	1.92YrCanc	6.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	UCART1	491461.5	3625766	7.79E-08	1.92YrCanc	7.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	UCART1	491655.6	3625766	9.53E-08	1.92YrCanc	9.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	UCART1	491849.7	3625766	1.13E-07	1.92YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	UCART1	492043.8	3625766	1.32E-07	1.92YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	UCART1	492237.9	3625766	1.59E-07	1.92YrCanc	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	UCART1	492432	3625766	2.30E-07	1.92YrCanc	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	UCART1	492626.1	3625766	3.71E-07	1.92YrCanc	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	UCART1	492820.2	3625766	1.27E-06	1.92YrCanc	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	UCART1	493014.3	3625766	3.05E-06	1.92YrCanc	3.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	UCART1	493208.4	3625766	1.07E-06	1.92YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	UCART1	493402.5	3625766	3.56E-07	1.92YrCanc	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

141	ALL	UCART1	493596.6	3625766	2.10E-07	1.92YrCanc	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	UCART1	493790.7	3625766	1.38E-07	1.92YrCanc	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	UCART1	493984.8	3625766	1.06E-07	1.92YrCanc	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	UCART1	494178.9	3625766	8.89E-08	1.92YrCanc	8.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	UCART1	494373	3625766	7.31E-08	1.92YrCanc	7.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	UCART1	494567.1	3625766	5.83E-08	1.92YrCanc	5.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	UCART1	494761.2	3625766	4.98E-08	1.92YrCanc	4.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	UCART1	490879.2	3625961	3.91E-08	1.92YrCanc	3.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	UCART1	491073.3	3625961	4.71E-08	1.92YrCanc	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	UCART1	491267.4	3625961	5.79E-08	1.92YrCanc	5.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	UCART1	491461.5	3625961	7.31E-08	1.92YrCanc	7.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	UCART1	491655.6	3625961	1.12E-07	1.92YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	UCART1	491849.7	3625961	1.41E-07	1.92YrCanc	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	UCART1	492043.8	3625961	1.55E-07	1.92YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	UCART1	492237.9	3625961	1.84E-07	1.92YrCanc	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	UCART1	492432	3625961	2.23E-07	1.92YrCanc	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	UCART1	492626.1	3625961	3.36E-07	1.92YrCanc	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	UCART1	492820.2	3625961	5.84E-07	1.92YrCanc	5.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

188	ALL	UCART1	494567.1	3626157	4.62E-08	1.92YrCanc	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	UCART1	494761.2	3626157	4.01E-08	1.92YrCanc	4.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	UCART1	490879.2	3626353	3.38E-08	1.92YrCanc	3.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	UCART1	491073.3	3626353	4.21E-08	1.92YrCanc	4.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	UCART1	491267.4	3626353	5.04E-08	1.92YrCanc	5.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	UCART1	491461.5	3626353	5.93E-08	1.92YrCanc	5.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	UCART1	491655.6	3626353	8.77E-08	1.92YrCanc	8.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	UCART1	491849.7	3626353	9.85E-08	1.92YrCanc	9.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	UCART1	492043.8	3626353	1.67E-07	1.92YrCanc	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	UCART1	492237.9	3626353	2.56E-07	1.92YrCanc	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	UCART1	492432	3626353	4.25E-07	1.92YrCanc	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	UCART1	492626.1	3626353	6.78E-07	1.92YrCanc	6.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	UCART1	492820.2	3626353	6.10E-07	1.92YrCanc	6.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	UCART1	493014.3	3626353	7.54E-07	1.92YrCanc	7.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	UCART1	493208.4	3626353	3.94E-07	1.92YrCanc	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	UCART1	493402.5	3626353	2.24E-07	1.92YrCanc	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	UCART1	493596.6	3626353	1.58E-07	1.92YrCanc	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	UCART1	493790.7	3626353	1.15E-07	1.92YrCanc	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+							

235	ALL	UCART1	491461.5	3626745	4.59E-08	1.92YrCanc	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	UCART1	491655.6	3626745	5.60E-08	1.92YrCanc	5.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	UCART1	491849.7	3626745	7.21E-08	1.92YrCanc	7.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	UCART1	492043.8	3626745	9.61E-08	1.92YrCanc	9.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	UCART1	492237.9	3626745	1.34E-07	1.92YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	UCART1	492432	3626745	1.97E-07	1.92YrCanc	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	UCART1	492626.1	3626745	3.52E-07	1.92YrCanc	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	UCART1	492820.2	3626745	5.19E-07	1.92YrCanc	5.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	UCART1	493014.3	3626745	3.31E-07	1.92YrCanc	3.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	UCART1	493208.4	3626745	1.94E-07	1.92YrCanc	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	UCART1	493402.5	3626745	1.34E-07	1.92YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	UCART1	493596.6	3626745	9.39E-08	1.92YrCanc	9.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	UCART1	493790.7	3626745	7.25E-08	1.92YrCanc	7.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	UCART1	493984.8	3626745	5.80E-08	1.92YrCanc	5.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	UCART1	494178.9	3626745	4.83E-08	1.92YrCanc	4.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	UCART1	494373	3626745	4.20E-08	1.92YrCanc	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	UCART1	494567.1	3626745	3.93E-08	1.92YrCanc	3.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	UCART1	494761.2	3626745	3.49E-08	1.92YrCanc	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

282	ALL	UCART1	492432	3627137	9.79E-08	1.92YrCanc	9.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	UCART1	492626.1	3627137	1.12E-07	1.92YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	UCART1	492820.2	3627137	1.15E-07	1.92YrCanc	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	UCART1	493014.3	3627137	1.05E-07	1.92YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	UCART1	493208.4	3627137	9.04E-08	1.92YrCanc	9.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	UCART1	493402.5	3627137	7.53E-08	1.92YrCanc	7.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	UCART1	493596.6	3627137	7.70E-08	1.92YrCanc	7.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	UCART1	493790.7	3627137	3.99E-08	1.92YrCanc	3.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	UCART1	493984.8	3627137	3.51E-08	1.92YrCanc	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	UCART1	494178.9	3627137	3.72E-08	1.92YrCanc	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	UCART1	494373	3627137	2.85E-08	1.92YrCanc	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	UCART1	494567.1	3627137	2.41E-08	1.92YrCanc	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	UCART1	494761.2	3627137	1.09E-08	1.92YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	UCART1	490879.2	3627332	2.30E-08	1.92YrCanc	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	UCART1	491073.3	3627332	2.60E-08	1.92YrCanc	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	UCART1	491267.4	3627332	2.96E-08	1.92YrCanc	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	UCART1	491461.5	3627332	3.40E-08	1.92YrCanc	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	UCART1	491655.6	3627332	3.94E-08	1.92YrCanc	3.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

329	ALL	UCART1	493402.5	3627528	5.33E-08	1.92YrCanc	5.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	UCART1	493596.6	3627528	5.11E-08	1.92YrCanc	5.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	UCART1	493790.7	3627528	3.02E-08	1.92YrCanc	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	UCART1	493984.8	3627528	1.44E-08	1.92YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	UCART1	494178.9	3627528	4.86E-09	1.92YrCanc	4.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	UCART1	494373	3627528	4.50E-09	1.92YrCanc	4.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	UCART1	494567.1	3627528	5.33E-09	1.92YrCanc	5.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	UCART1	494761.2	3627528	1.45E-09	1.92YrCanc	1.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	UCART1	490879.2	3627724	1.97E-08	1.92YrCanc	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	UCART1	491073.3	3627724	2.20E-08	1.92YrCanc	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	UCART1	491267.4	3627724	2.46E-08	1.92YrCanc	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	UCART1	491461.5	3627724	2.76E-08	1.92YrCanc	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	UCART1	491655.6	3627724	3.10E-08	1.92YrCanc	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	UCART1	491849.7	3627724	3.45E-08	1.92YrCanc	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	UCART1	492043.8	3627724	3.76E-08	1.92YrCanc	3.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	UCART1	492237.9	3627724	4.15E-08	1.92YrCanc	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	UCART1	492432	3627724	4.29E-08	1.92YrCanc	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	UCART1	492626.1	3627724	4.41E-08	1.92YrCanc	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

376	ALL	UCART1	494373	3627920	1.08E-09	1.92YrCanc	1.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	UCART1	494567.1	3627920	1.06E-09	1.92YrCanc	1.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	UCART1	494761.2	3627920	9.76E-10	1.92YrCanc	9.76E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	UCART1	490879.2	3628116	1.71E-08	1.92YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	UCART1	491073.3	3628116	1.87E-08	1.92YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	UCART1	491267.4	3628116	2.04E-08	1.92YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	UCART1	491461.5	3628116	2.21E-08	1.92YrCanc	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	UCART1	491655.6	3628116	2.39E-08	1.92YrCanc	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	UCART1	491849.7	3628116	2.59E-08	1.92YrCanc	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	UCART1	492043.8	3628116	2.75E-08	1.92YrCanc	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	UCART1	492237.9	3628116	2.88E-08	1.92YrCanc	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	UCART1	492432	3628116	2.97E-08	1.92YrCanc	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	UCART1	492626.1	3628116	3.03E-08	1.92YrCanc	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	UCART1	492820.2	3628116	2.96E-08	1.92YrCanc	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	UCART1	493014.3	3628116	2.91E-08	1.92YrCanc	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	UCART1	493208.4	3628116	3.35E-08	1.92YrCanc	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	UCART1	493402.5	3628116	3.19E-08	1.92YrCanc	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	UCART1	493596.6	3628116	3.09E-08	1.92YrCanc	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

423	ALL	UCART1	491267.4	3628508	1.67E-08	1.92YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	UCART1	491461.5	3628508	1.77E-08	1.92YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	UCART1	491655.6	3628508	1.88E-08	1.92YrCanc	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	UCART1	491849.7	3628508	1.99E-08	1.92YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	UCART1	492043.8	3628508	2.10E-08	1.92YrCanc	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	UCART1	492237.9	3628508	2.18E-08	1.92YrCanc	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	UCART1	492432	3628508	2.27E-08	1.92YrCanc	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	UCART1	492626.1	3628508	2.32E-08	1.92YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	UCART1	492820.2	3628508	2.32E-08	1.92YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	UCART1	493014.3	3628508	2.13E-08	1.92YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	UCART1	493208.4	3628508	2.21E-08	1.92YrCanc	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	UCART1	493402.5	3628508	2.19E-08	1.92YrCanc	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	UCART1	493596.6	3628508	2.25E-08	1.92YrCanc	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	UCART1	493790.7	3628508	2.29E-08	1.92YrCanc	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	UCART1	493984.8	3628508	1.32E-08	1.92YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	UCART1	494178.9	3628508	1.36E-09	1.92YrCanc	1.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	UCART1	494373	3628508	8.20E-10	1.92YrCanc	8.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	UCART1	494567.1	3628508	7.90E-10	1.92YrCanc	7.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	UCART1	494761.2	3628508	8.44E-10	1.92YrCanc	8.44E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL		492883.3	3625831	1.67E-06	1.92YrCanc	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL		492919.8	3625835	2.54E-06	1.92YrCanc	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL		492955.1	3625846	4.08E-06	1.92YrCanc	4.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL		493069.9	3625833	6.08E-06	1.92YrCanc	6.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL		493094.9	3625833	3.43E-06	1.92YrCanc	3.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL		493110.9	3625837	2.51E-06	1.92YrCanc	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL		493152	3625834	1.52E-06	1.92YrCanc	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL		493166.7	3625838	1.28E-06	1.92YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL		493187.9	3625837	1.06E-06	1.92YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL		493201.3	3625837	9.53E-07	1.92YrCanc	9.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL		493240.4	3625837	7.17E-07	1.92YrCanc	7.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL		492881.3	3625908	1.08E-06	1.92YrCanc	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL		492907	3625898	1.40E-06	1.92YrCanc	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL		492901.8	3625912	1.24E-06	1.92YrCanc	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL		492928.1	3625915	1.49E-06	1.92YrCanc	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL		492933.9	3625898	1.79E-06	1.92YrCanc	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL		492951.9	3625908	1.92E-06	1.92YrCanc	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL		492973.7	3625907	2.22E-06	1.92YrCanc	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL		492993.6	3625914	2.14E-06	1.92YrCanc	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL		492996.1	3625898	2.83E-06	1.92YrCanc	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL		493016	3625897	3.19E-06	1.92YrCanc	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL		493023.1	3625912	2.35E-06	1.92YrCanc	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL		493044.2	3625907	2.36E-06	1.92YrCanc	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL		493066.7	3625908	1.92E-06	1.92YrCanc	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL		493085.3	3625912	1.63E-06	1.92YrCanc	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL		493087.2	3625896	1.90E-06	1.92YrCanc	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL		493109	3625912	1.37E-06	1.92YrCanc	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL		493112.2	3625898	1.48E-06	1.92YrCanc	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

470	ALL	493134	3625902	1.16E-06	1.92YrCanc	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	492874.3	3625788	1.89E-06	1.92YrCanc	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	492894.2	3625789	2.38E-06	1.92YrCanc	2.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	492910.2	3625790	2.87E-06	1.92YrCanc	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	492930.7	3625787	3.51E-06	1.92YrCanc	3.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	492947.4	3625791	4.25E-06	1.92YrCanc	4.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	492963.4	3625788	4.43E-06	1.92YrCanc	4.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	492982.7	3625788	4.68E-06	1.92YrCanc	4.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	493000	3625788	4.86E-06	1.92YrCanc	4.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	493021.1	3625791	5.53E-06	1.92YrCanc	5.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	493036.5	3625789	5.27E-06	1.92YrCanc	5.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	493055.8	3625790	5.05E-06	1.92YrCanc	5.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	493076.3	3625788	4.20E-06	1.92YrCanc	4.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	493094.9	3625788	3.47E-06	1.92YrCanc	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	493112.8	3625788	2.82E-06	1.92YrCanc	2.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	493129.5	3625787	2.30E-06	1.92YrCanc	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	493148.7	3625787	1.85E-06	1.92YrCanc	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	493164.8	3625790	1.56E-06</														

517	ALL	492771.7	3626525	3.25E-06	1.92YrCanc	3.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	492780	3626415	2.13E-06	1.92YrCanc	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	492778.7	3626388	1.38E-06	1.92YrCanc	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	492747.9	3626386	1.28E-06	1.92YrCanc	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	492742.2	3626418	1.70E-06	1.92YrCanc	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	492699.2	3626423	1.38E-06	1.92YrCanc	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	492697.9	3626392	1.12E-06	1.92YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	492678.7	3626412	1.12E-06	1.92YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	492626.1	3626427	8.30E-07	1.92YrCanc	8.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	492606.9	3626436	9.70E-07	1.92YrCanc	9.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	492599.2	3626405	7.68E-07	1.92YrCanc	7.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	492491.2	3626645	2.86E-07	1.92YrCanc	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	492517.4	3626637	3.16E-07	1.92YrCanc	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	492521.2	3626603	3.56E-07	1.92YrCanc	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	492521.7	3626582	3.80E-07	1.92YrCanc	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	492512.5	3626554	3.97E-07	1.92YrCanc	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	492513.6	3626533	4.17E-07	1.92YrCanc	4.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	492501	3626506	4.27E-07	1.92YrCanc	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	492490.7	3626486	4.53E													

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEI RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL	UCART1	490879.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
2	ALL	UCART1	491073.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
3	ALL	UCART1	491267.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
4	ALL	UCART1	491461.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
5	ALL	UCART1	491655.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
6	ALL	UCART1	491849.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
7	ALL	UCART1	492043.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
8	ALL	UCART1	492237.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
9	ALL	UCART1	492432	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
10	ALL	UCART1	492626.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
11	ALL	UCART1	492820.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
12	ALL	UCART1	493014.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
13	ALL	UCART1	493208.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
14	ALL	UCART1	493402.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
15	ALL	UCART1	493596.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
16	ALL	UCART1	493790.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
17	ALL	UCART1	493984.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
18	ALL	UCART1	494178.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
19	ALL	UCART1	494373	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
20	ALL	UCART1	494567.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
21	ALL	UCART1	494761.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
22	ALL	UCART1	490879.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
23	ALL	UCART1	491073.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
24	ALL	UCART1	491267.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
25	ALL	UCART1	491461.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
26	ALL	UCART1	491655.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
27	ALL	UCART1	491849.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
28	ALL	UCART1	492043.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
29	ALL	UCART1	492237.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
30	ALL	UCART1	492432	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
31	ALL	UCART1	492626.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
32	ALL	UCART1	492820.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
33	ALL	UCART1	493014.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
34	ALL	UCART1	493208.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
35	ALL	UCART1	493402.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
36	ALL	UCART1	493596.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05
37	ALL	UCART1	493790.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
38	ALL	UCART1	493984.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05
39	ALL	UCART1	494178.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
40	ALL	UCART1	494373	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
41	ALL	UCART1	494567.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
42	ALL	UCART1	494761.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
43	ALL	UCART1	490879.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
44	ALL	UCART1	491073.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
45	ALL	UCART1	491267.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
46	ALL	UCART1	491461.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
47	ALL	UCART1	491655.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05
48	ALL	UCART1	491849.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05
49	ALL	UCART1	492043.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
50	ALL	UCART1	492237.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05
51	ALL	UCART1	492432	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05

52		UCART1	492626.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-05
53	ALL	UCART1	492820.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
54	ALL	UCART1	493014.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
55	ALL	UCART1	493208.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
56	ALL	UCART1	493402.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05
57	ALL	UCART1	493596.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05
58	ALL	UCART1	493790.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05
59	ALL	UCART1	493984.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
60	ALL	UCART1	494178.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
61	ALL	UCART1	494373	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
62	ALL	UCART1	494567.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
63	ALL	UCART1	494761.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
64	ALL	UCART1	490879.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
65	ALL	UCART1	491073.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
66	ALL	UCART1	491267.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
67	ALL	UCART1	491461.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05
68	ALL	UCART1	491655.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-05
69	ALL	UCART1	491849.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05
70	ALL	UCART1	492043.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-05
71	ALL	UCART1	492237.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
72	ALL	UCART1	492432	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05
73	ALL	UCART1	492626.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-05
74	ALL	UCART1	492820.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05
75	ALL	UCART1	493014.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05
76	ALL	UCART1	493208.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05
77	ALL	UCART1	493402.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05
78	ALL	UCART1	493596.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
79	ALL	UCART1	493790.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05
80	ALL	UCART1	493984.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05
81	ALL	UCART1	494178.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
82	ALL	UCART1	494373	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
83	ALL	UCART1	494567.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
84	ALL	UCART1	494761.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
85	ALL	UCART1	490879.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
86	ALL	UCART1	491073.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
87	ALL	UCART1	491267.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
88	ALL	UCART1	491461.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05
89	ALL	UCART1	491655.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05
90	ALL	UCART1	491849.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05
91	ALL	UCART1	492043.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05
92	ALL	UCART1	492237.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-05
93	ALL	UCART1	492432	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
94	ALL	UCART1	492626.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
95	ALL	UCART1	492820.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
96	ALL	UCART1	493014.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
97	ALL	UCART1	493208.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
98	ALL	UCART1	493402.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
99	ALL	UCART1	493596.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05
100	ALL	UCART1	493790.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-0

104		UCART1	494567.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
105	ALL	UCART1	494761.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
106	ALL	UCART1	490879.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05
107	ALL	UCART1	491073.3	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
108	ALL	UCART1	491267.4	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
109	ALL	UCART1	491461.5	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05
110	ALL	UCART1	491655.6	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05
111	ALL	UCART1	491849.7	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05
112	ALL	UCART1	492043.8	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05
113	ALL	UCART1	492237.9	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05
114	ALL	UCART1	492432	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
115	ALL	UCART1	492626.1	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
116	ALL	UCART1	492820.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
117	ALL	UCART1	493014.3	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
118	ALL	UCART1	493208.4	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
119	ALL	UCART1	493402.5	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
120	ALL	UCART1	493596.6	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
121	ALL	UCART1	493790.7	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05
122	ALL	UCART1	493984.8	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05
123	ALL	UCART1	494178.9	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05
124	ALL	UCART1	494373	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
125	ALL	UCART1	494567.1	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05
126	ALL	UCART1	494761.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
127	ALL	UCART1	490879.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
128	ALL	UCART1	491073.3	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05
129	ALL	UCART1	491267.4	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
130	ALL	UCART1	491461.5	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05
131	ALL	UCART1	491655.6	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05
132	ALL	UCART1	491849.7	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05
133	ALL	UCART1	492043.8	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05
134	ALL	UCART1	492237.9	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05
135	ALL	UCART1	492432	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
136	ALL	UCART1	492626.1	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
137	ALL	UCART1	492820.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-04
138	ALL	UCART1	493014.3	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
139	ALL	UCART1	493208.4	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04
140	ALL	UCART1	493402.5	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
141	ALL	UCART1	493596.6	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
142	ALL	UCART1	493790.7	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05
143	ALL	UCART1	493984.8	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-05
144	ALL	UCART1	494178.9	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05
145	ALL	UCART1	494373	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05
146	ALL	UCART1	494567.1	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
147	ALL	UCART1	494761.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
148	ALL	UCART1	490879.2	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
149	ALL	UCART1	491073.3	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
150	ALL	UCART1	491267.4	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00												

[illegible]

208		UCART1	494373	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
209	ALL	UCART1	494567.1	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
210	ALL	UCART1	494761.2	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
211	ALL	UCART1	490879.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
212	ALL	UCART1	491073.3	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
213	ALL	UCART1	491267.4	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
214	ALL	UCART1	491461.5	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
215	ALL	UCART1	491655.6	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
216	ALL	UCART1	491849.7	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-05
217	ALL	UCART1	492043.8	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05
218	ALL	UCART1	492237.9	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
219	ALL	UCART1	492432	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
220	ALL	UCART1	492626.1	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-04
221	ALL	UCART1	492820.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-03
222	ALL	UCART1	493014.3	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04
223	ALL	UCART1	493208.4	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
224	ALL	UCART1	493402.5	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
225	ALL	UCART1	493596.6	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05
226	ALL	UCART1	493790.7	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05
227	ALL	UCART1	493984.8	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
228	ALL	UCART1	494178.9	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05
229	ALL	UCART1	494373	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
230	ALL	UCART1	494567.1	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
231	ALL	UCART1	494761.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
232	ALL	UCART1	490879.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
233	ALL	UCART1	491073.3	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
234	ALL	UCART1	491267.4	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
235	ALL	UCART1	491461.5	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
236	ALL	UCART1	491655.6	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
237	ALL	UCART1	491849.7	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
238	ALL	UCART1	492043.8	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
239	ALL	UCART1	492237.9	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-05
240	ALL	UCART1	492432	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
241	ALL	UCART1	492626.1	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
242	ALL	UCART1	492820.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
243	ALL	UCART1	493014.3	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
244	ALL	UCART1	493208.4	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
245	ALL	UCART1	493402.5	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05
246	ALL	UCART1	493596.6	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-05
247	ALL	UCART1	493790.7	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
248	ALL	UCART1	493984.8	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
249	ALL	UCART1	494178.9	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
250	ALL	UCART1	494373	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
251	ALL	UCART1	494567.1	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
252	ALL	UCART1	494761.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
253	ALL	UCART1	490879.2	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
254	ALL	UCART1	491073.3	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

[illegible]

[illegible]

416		UCART1	493984.8	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-06
417	ALL	UCART1	494178.9	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-07
418	ALL	UCART1	494373	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-07
419	ALL	UCART1	494567.1	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-07
420	ALL	UCART1	494761.2	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-07
421	ALL	UCART1	490879.2	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-06
422	ALL	UCART1	491073.3	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-06
423	ALL	UCART1	491267.4	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
424	ALL	UCART1	491461.5	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
425	ALL	UCART1	491655.6	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
426	ALL	UCART1	491849.7	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
427	ALL	UCART1	492043.8	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
428	ALL	UCART1	492237.9	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
429	ALL	UCART1	492432	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
430	ALL	UCART1	492626.1	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
431	ALL	UCART1	492820.2	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
432	ALL	UCART1	493014.3	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
433	ALL	UCART1	493208.4	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
434	ALL	UCART1	493402.5	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
435	ALL	UCART1	493596.6	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
436	ALL	UCART1	493790.7	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
437	ALL	UCART1	493984.8	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-06
438	ALL	UCART1	494178.9	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-07
439	ALL	UCART1	494373	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-07
440	ALL	UCART1	494567.1	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-07
441	ALL	UCART1	494761.2	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-07
442	ALL		492883.3	3625831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
443	ALL		492919.8	3625835	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
444	ALL		492955.1	3625846	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03
445	ALL		493069.9	3625833	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-03
446	ALL		493094.9	3625833	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03
447	ALL		493110.9	3625837	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
448	ALL		493152	3625834	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-04
449	ALL		493166.7	3625838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04
450	ALL		493187.9	3625837	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04
451	ALL		493201.3	3625837	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04
452	ALL		493240.4	3625837	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
453	ALL		492881.3	3625908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04
454	ALL		492907	3625898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04
455	ALL		492901.8	3625912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04
456	ALL		492928.1	3625915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-04
457	ALL		492933.9	3625898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
458	ALL		492951.9	3625908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
459	ALL		492973.7	3625907	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
460	ALL		492993.6	3625914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
461	ALL		492996.1	3625898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
462	ALL		493016	3625897	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00</					

HARP2 - HRACalc (dated 22118) 12/3/2024 3:09:12 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 1.92

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 1.92
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 1 HARP\hra\Phase 1 -

OnsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 1 HARP\hra\Phase 1 -

OnsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 1 HARP\hra\Phase 1 -

OnsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 1 HARP\hra\Phase 1 -

OnsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 1 HARP\hra\Phase 1 -

OnsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 1 HARP\hra\Phase 1 -

OnsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

[illegible]

[illegible]

94	ALL	UCART1	492626.1	3625374	4.44E-09	1.92YrCanc	4.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	UCART1	492820.2	3625374	4.80E-09	1.92YrCanc	4.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	UCART1	493014.3	3625374	4.57E-09	1.92YrCanc	4.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	UCART1	493208.4	3625374	4.49E-09	1.92YrCanc	4.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	UCART1	493402.5	3625374	4.10E-09	1.92YrCanc	4.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	UCART1	493596.6	3625374	3.65E-09	1.92YrCanc	3.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	UCART1	493790.7	3625374	3.24E-09	1.92YrCanc	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	UCART1	493984.8	3625374	2.48E-09	1.92YrCanc	2.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	UCART1	494178.9	3625374	1.97E-09	1.92YrCanc	1.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	UCART1	494373	3625374	1.61E-09	1.92YrCanc	1.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	UCART1	494567.1	3625374	1.39E-09	1.92YrCanc	1.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	UCART1	494761.2	3625374	1.20E-09	1.92YrCanc	1.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	UCART1	490879.2	3625570	1.06E-09	1.92YrCanc	1.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	UCART1	491073.3	3625570	1.27E-09	1.92YrCanc	1.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	UCART1	491267.4	3625570	1.68E-09	1.92YrCanc	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	UCART1	491461.5	3625570	2.03E-09	1.92YrCanc	2.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	UCART1	491655.6	3625570	2.06E-09	1.92YrCanc	2.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	UCART1	491849.7	3625570	2.41E-09	1.92YrCanc	2.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	UCART1	492043.8	3625570	2.78E-09	1.92YrCanc	2.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	UCART1	492237.9	3625570	3.68E-09	1.92YrCanc	3.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	UCART1	492432	3625570	5.52E-09	1.92YrCanc	5.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	UCART1	492626.1	3625570	8.64E-09	1.92YrCanc	8.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	UCART1	492820.2	3625570	9.24E-09	1.92YrCanc	9.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	UCART1	493014.3	3625570	1.12E-08	1.92YrCanc	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	UCART1	493208.4	3625570	9.43E-09	1.92YrCanc	9.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	UCART1	493402.5	3625570	6.88E-09	1.92YrCanc	6.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	UCART1	493596.6	3625570	5.15E-09	1.92YrCanc	5.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	UCART1	493790.7	3625570	3.40E-09	1.92YrCanc	3.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	UCART1	493984.8	3625570	2.49E-09	1.92YrCanc	2.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	UCART1	494178.9	3625570	1.96E-09	1.92YrCanc	1.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	UCART1	494373	3625570	1.66E-09	1.92YrCanc	1.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	UCART1	494567.1	3625570	1.46E-09	1.92YrCanc	1.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	UCART1	494761.2	3625570	1.21E-09	1.92YrCanc	1.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	UCART1	490879.2	3625766	9.96E-10	1.92YrCanc	9.96E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	UCART1	491073.3	3625766	1.24E-09	1.92YrCanc	1.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	UCART1	491267.4	3625766	1.46E-09	1.92YrCanc	1.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	UCART1	491461.5	3625766	1.79E-09	1.92YrCanc	1.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	UCART1	491655.6	3625766	2.19E-09	1.92YrCanc	2.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	UCART1	491849.7	3625766	2.60E-09	1.92YrCanc	2.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	UCART1	492043.8	3625766	3.03E-09	1.92YrCanc	3.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	UCART1	492237.9	3625766	3.65E-09	1.92YrCanc	3.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	UCART1	492432	3625766	5.28E-09	1.92YrCanc	5.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	UCART1	492626.1	3625766	8.53E-09	1.92YrCanc	8.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	UCART1	492820.2	3625766	2.91E-08	1.92YrCanc	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	UCART1	493014.3	3625766	7.01E-08	1.92YrCanc	7.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	UCART1	493208.4	3625766	2.45E-08	1.92YrCanc	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	UCART1	493402.5	3625766	8.17E-09	1.92YrCanc	8.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

141	ALL	UCART1	493596.6	3625766	4.82E-09	1.92YrCanc	4.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	UCART1	493790.7	3625766	3.17E-09	1.92YrCanc	3.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	UCART1	493984.8	3625766	2.44E-09	1.92YrCanc	2.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	UCART1	494178.9	3625766	2.04E-09	1.92YrCanc	2.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	UCART1	494373	3625766	1.68E-09	1.92YrCanc	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	UCART1	494567.1	3625766	1.34E-09	1.92YrCanc	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	UCART1	494761.2	3625766	1.14E-09	1.92YrCanc	1.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	UCART1	490879.2	3625961	8.98E-10	1.92YrCanc	8.98E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	UCART1	491073.3	3625961	1.08E-09	1.92YrCanc	1.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	UCART1	491267.4	3625961	1.33E-09	1.92YrCanc	1.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	UCART1	491461.5	3625961	1.68E-09	1.92YrCanc	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	UCART1	491655.6	3625961	2.56E-09	1.92YrCanc	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	UCART1	491849.7	3625961	3.24E-09	1.92YrCanc	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	UCART1	492043.8	3625961	3.55E-09	1.92YrCanc	3.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	UCART1	492237.9	3625961	4.22E-09	1.92YrCanc	4.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	UCART1	492432	3625961	5.11E-09	1.92YrCanc	5.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	UCART1	492626.1	3625961	7.70E-09	1.92YrCanc	7.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	UCART1	492820.2	3625961	1.34E-08	1.92YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

188	ALL	UCART1	494567.1	3626157	1.06E-09	1.92YrCanc	1.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	UCART1	494761.2	3626157	9.21E-10	1.92YrCanc	9.21E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	UCART1	490879.2	3626353	7.76E-10	1.92YrCanc	7.76E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	UCART1	491073.3	3626353	9.66E-10	1.92YrCanc	9.66E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	UCART1	491267.4	3626353	1.16E-09	1.92YrCanc	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	UCART1	491461.5	3626353	1.36E-09	1.92YrCanc	1.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	UCART1	491655.6	3626353	2.01E-09	1.92YrCanc	2.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	UCART1	491849.7	3626353	2.26E-09	1.92YrCanc	2.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	UCART1	492043.8	3626353	3.82E-09	1.92YrCanc	3.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	UCART1	492237.9	3626353	5.87E-09	1.92YrCanc	5.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	UCART1	492432	3626353	9.75E-09	1.92YrCanc	9.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	UCART1	492626.1	3626353	1.56E-08	1.92YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	UCART1	492820.2	3626353	1.40E-08	1.92YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	UCART1	493014.3	3626353	1.73E-08	1.92YrCanc	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	UCART1	493208.4	3626353	9.04E-09	1.92YrCanc	9.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	UCART1	493402.5	3626353	5.14E-09	1.92YrCanc	5.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	UCART1	493596.6	3626353	3.64E-09	1.92YrCanc	3.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	UCART1	493790.7	3626353	2.63E-09	1.92YrCanc	2.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	UCART1	493984.8	3626353	1.99E-09	1.92YrCanc	1.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	UCART1	494178.9	3626353	1.45E-09	1.92YrCanc	1.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	UCART1	494373	3626353	1.22E-09	1.92YrCanc	1.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	UCART1	494567.1	3626353	1.08E-09	1.92YrCanc	1.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	UCART1	494761.2	3626353	9.00E-10	1.92YrCanc	9.00E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	UCART1	490879.2	3626549	7.15E-10	1.92YrCanc	7.15E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	UCART1	491073.3	3626549	8.43E-10	1.92YrCanc	8.43E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	UCART1	491267.4	3626549	9.82E-10	1.92YrCanc	9.82E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	UCART1	491461.5	3626549	1.25E-09	1.92YrCanc	1.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	UCART1	491655.6	3626549	1.48E-09	1.92YrCanc	1.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	UCART1	491849.7	3626549	1.90E-09	1.92YrCanc	1.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	UCART1	492043.8	3626549	3.23E-09	1.92YrCanc	3.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	UCART1	492237.9	3626549	4.42E-09	1.92YrCanc	4.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	UCART1	492432	3626549	6.50E-09	1.92YrCanc	6.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	UCART1	492626.1	3626549	1.61E-08	1.92YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	UCART1	492820.2	3626549	1.47E-07	1.92YrCanc	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	UCART1	493014.3	3626549	1.63E-08	1.92YrCanc	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	UCART1	493208.4	3626549	6.35E-09	1.92YrCanc	6.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	UCART1	493402.5	3626549	4.02E-09	1.92YrCanc	4.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	UCART1	493596.6	3626549	2.76E-09	1.92YrCanc	2.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	UCART1	493790.7	3626549	2.32E-09	1.92YrCanc	2.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	UCART1	493984.8	3626549	1.72E-09	1.92YrCanc	1.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	UCART1	494178.9	3626549	1.24E-09	1.92YrCanc	1.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	UCART1	494373	3626549	1.02E-09	1.92YrCanc	1.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	UCART1	494567.1	3626549	8.67E-10	1.92YrCanc	8.67E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	UCART1	494761.2	3626549	7.46E-10	1.92YrCanc	7.46E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	UCART1	490879.2	3626745	6.52E-10	1.92YrCanc	6.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	UCART1	491073.3	3626745	7.68E-10	1.92YrCanc	7.68E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	UCART1	491267.4	3626745	8.82E-10	1.92YrCanc	8.82E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[illegible]

282	ALL	UCART1	492432	3627137	2.25E-09	1.92YrCanc	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	UCART1	492626.1	3627137	2.56E-09	1.92YrCanc	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	UCART1	492820.2	3627137	2.63E-09	1.92YrCanc	2.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	UCART1	493014.3	3627137	2.42E-09	1.92YrCanc	2.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	UCART1	493208.4	3627137	2.07E-09	1.92YrCanc	2.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	UCART1	493402.5	3627137	1.73E-09	1.92YrCanc	1.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	UCART1	493596.6	3627137	1.77E-09	1.92YrCanc	1.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	UCART1	493790.7	3627137	9.16E-10	1.92YrCanc	9.16E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	UCART1	493984.8	3627137	8.07E-10	1.92YrCanc	8.07E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	UCART1	494178.9	3627137	8.54E-10	1.92YrCanc	8.54E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	UCART1	494373	3627137	6.55E-10	1.92YrCanc	6.55E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	UCART1	494567.1	3627137	5.53E-10	1.92YrCanc	5.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	UCART1	494761.2	3627137	2.50E-10	1.92YrCanc	2.50E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	UCART1	490879.2	3627332	5.27E-10	1.92YrCanc	5.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	UCART1	491073.3	3627332	5.96E-10	1.92YrCanc	5.96E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	UCART1	491267.4	3627332	6.80E-10	1.92YrCanc	6.80E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	UCART1	491461.5	3627332	7.81E-10	1.92YrCanc	7.81E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	UCART1	491655.6	3627332	9.05E-10	1.92YrCanc	9.05E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

329	ALL	UCART1	493402.5	3627528	1.22E-09	1.92YrCanc	1.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	UCART1	493596.6	3627528	1.17E-09	1.92YrCanc	1.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	UCART1	493790.7	3627528	6.93E-10	1.92YrCanc	6.93E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	UCART1	493984.8	3627528	3.31E-10	1.92YrCanc	3.31E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	UCART1	494178.9	3627528	1.12E-10	1.92YrCanc	1.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	UCART1	494373	3627528	1.03E-10	1.92YrCanc	1.03E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	UCART1	494567.1	3627528	1.22E-10	1.92YrCanc	1.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	UCART1	494761.2	3627528	3.34E-11	1.92YrCanc	3.34E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	UCART1	490879.2	3627724	4.53E-10	1.92YrCanc	4.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	UCART1	491073.3	3627724	5.05E-10	1.92YrCanc	5.05E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	UCART1	491267.4	3627724	5.64E-10	1.92YrCanc	5.64E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	UCART1	491461.5	3627724	6.33E-10	1.92YrCanc	6.33E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	UCART1	491655.6	3627724	7.11E-10	1.92YrCanc	7.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	UCART1	491849.7	3627724	7.91E-10	1.92YrCanc	7.91E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	UCART1	492043.8	3627724	8.64E-10	1.92YrCanc	8.64E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	UCART1	492237.9	3627724	9.53E-10	1.92YrCanc	9.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	UCART1	492432	3627724	9.84E-10	1.92YrCanc	9.84E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	UCART1	492626.1	3627724	1.01E-09	1.92YrCanc	1.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

376	ALL	UCART1	494373	3627920	2.48E-11	1.92YrCanc	2.48E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	UCART1	494567.1	3627920	2.43E-11	1.92YrCanc	2.43E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	UCART1	494761.2	3627920	2.24E-11	1.92YrCanc	2.24E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	UCART1	490879.2	3628116	3.93E-10	1.92YrCanc	3.93E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	UCART1	491073.3	3628116	4.30E-10	1.92YrCanc	4.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	UCART1	491267.4	3628116	4.68E-10	1.92YrCanc	4.68E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	UCART1	491461.5	3628116	5.08E-10	1.92YrCanc	5.08E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	UCART1	491655.6	3628116	5.49E-10	1.92YrCanc	5.49E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	UCART1	491849.7	3628116	5.95E-10	1.92YrCanc	5.95E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	UCART1	492043.8	3628116	6.31E-10	1.92YrCanc	6.31E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	UCART1	492237.9	3628116	6.60E-10	1.92YrCanc	6.60E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	UCART1	492432	3628116	6.82E-10	1.92YrCanc	6.82E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	UCART1	492626.1	3628116	6.96E-10	1.92YrCanc	6.96E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	UCART1	492820.2	3628116	6.79E-10	1.92YrCanc	6.79E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	UCART1	493014.3	3628116	6.67E-10	1.92YrCanc	6.67E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	UCART1	493208.4	3628116	7.70E-10	1.92YrCanc	7.70E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	UCART1	493402.5	3628116	7.32E-10	1.92YrCanc	7.32E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	UCART1	493596.6	3628116	7.10E-10	1.92YrCanc	7.10E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

423	ALL	UCART1	491267.4	3628508	3.84E-10	1.92YrCanc	3.84E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	UCART1	491461.5	3628508	4.07E-10	1.92YrCanc	4.07E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	UCART1	491655.6	3628508	4.33E-10	1.92YrCanc	4.33E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	UCART1	491849.7	3628508	4.56E-10	1.92YrCanc	4.56E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	UCART1	492043.8	3628508	4.81E-10	1.92YrCanc	4.81E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	UCART1	492237.9	3628508	4.99E-10	1.92YrCanc	4.99E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	UCART1	492432	3628508	5.20E-10	1.92YrCanc	5.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	UCART1	492626.1	3628508	5.32E-10	1.92YrCanc	5.32E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	UCART1	492820.2	3628508	5.32E-10	1.92YrCanc	5.32E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	UCART1	493014.3	3628508	4.90E-10	1.92YrCanc	4.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	UCART1	493208.4	3628508	5.07E-10	1.92YrCanc	5.07E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	UCART1	493402.5	3628508	5.03E-10	1.92YrCanc	5.03E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	UCART1	493596.6	3628508	5.15E-10	1.92YrCanc	5.15E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	UCART1	493790.7	3628508	5.25E-10	1.92YrCanc	5.25E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	UCART1	493984.8	3628508	3.04E-10	1.92YrCanc	3.04E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	UCART1	494178.9	3628508	3.12E-11	1.92YrCanc	3.12E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	UCART1	494373	3628508	1.88E-11	1.92YrCanc	1.88E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	UCART1	494567.1	3628508	1.81E-11	1.92YrCanc	1.81E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	UCART1	494761.2	3628508	1.94E-11	1.92YrCanc	1.94E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL		492883.3	3625831	3.84E-08	1.92YrCanc	3.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL		492919.8	3625835	5.82E-08	1.92YrCanc	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL		492955.1	3625846	9.36E-08	1.92YrCanc	9.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL		493069.9	3625833	1.40E-07	1.92YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL		493094.9	3625833	7.88E-08	1.92YrCanc	7.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL		493110.9	3625837	5.77E-08	1.92YrCanc	5.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL		493152	3625834	3.49E-08	1.92YrCanc	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL		493166.7	3625838	2.94E-08	1.92YrCanc	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL		493187.9	3625837	2.44E-08	1.92YrCanc	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL		493201.3	3625837	2.19E-08	1.92YrCanc	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL		493240.4	3625837	1.65E-08	1.92YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL		492881.3	3625908	2.47E-08	1.92YrCanc	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL		492907	3625898	3.21E-08	1.92YrCanc	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL		492901.8	3625912	2.85E-08	1.92YrCanc	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL		492928.1	3625915	3.41E-08	1.92YrCanc	3.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL		492933.9	3625898	4.11E-08	1.92YrCanc	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL		492951.9	3625908	4.41E-08	1.92YrCanc	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL		492973.7	3625907	5.10E-08	1.92YrCanc	5.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL		492993.6	3625914	4.92E-08	1.92YrCanc	4.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL		492996.1	3625898	6.50E-08	1.92YrCanc	6.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL		493016	3625897	7.32E-08	1.92YrCanc	7.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL		493023.1	3625912	5.39E-08	1.92YrCanc	5.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL		493044.2	3625907	5.42E-08	1.92YrCanc	5.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL		493066.7	3625908	4.41E-08	1.92YrCanc	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL		493085.3	3625912	3.74E-08	1.92YrCanc	3.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL		493087.2	3625896	4.36E-08	1.92YrCanc	4.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL		493109	3625912	3.15E-08	1.92YrCanc	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL		493112.2	3625898	3.40E-08	1.92YrCanc	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

470	ALL	493134	3625902	2.66E-08	1.92YrCanc	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	492874.3	3625788	4.34E-08	1.92YrCanc	4.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	492894.2	3625789	5.47E-08	1.92YrCanc	5.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	492910.2	3625790	6.58E-08	1.92YrCanc	6.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	492930.7	3625787	8.06E-08	1.92YrCanc	8.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	492947.4	3625791	9.75E-08	1.92YrCanc	9.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	492963.4	3625788	1.02E-07	1.92YrCanc	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	492982.7	3625788	1.07E-07	1.92YrCanc	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	493000	3625788	1.11E-07	1.92YrCanc	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	493021.1	3625791	1.27E-07	1.92YrCanc	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	493036.5	3625789	1.21E-07	1.92YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	493055.8	3625790	1.16E-07	1.92YrCanc	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	493076.3	3625788	9.63E-08	1.92YrCanc	9.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	493094.9	3625788	7.95E-08	1.92YrCanc	7.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	493112.8	3625788	6.47E-08	1.92YrCanc	6.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	493129.5	3625787	5.29E-08	1.92YrCanc	5.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	493148.7	3625787	4.26E-08	1.92YrCanc	4.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	493164.8	3625790	3.58E-08	1.92YrCanc	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	493184.7	3625789	2.94E													

517	ALL	492771.7	3626525	7.46E-08	1.92YrCanc	7.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	492780	3626415	4.89E-08	1.92YrCanc	4.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	492778.7	3626388	3.16E-08	1.92YrCanc	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	492747.9	3626386	2.94E-08	1.92YrCanc	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	492742.2	3626418	3.90E-08	1.92YrCanc	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	492699.2	3626423	3.16E-08	1.92YrCanc	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	492697.9	3626392	2.56E-08	1.92YrCanc	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	492678.7	3626412	2.57E-08	1.92YrCanc	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	492626.1	3626427	1.91E-08	1.92YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	492606.9	3626436	2.23E-08	1.92YrCanc	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	492599.2	3626405	1.76E-08	1.92YrCanc	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	492491.2	3626645	6.57E-09	1.92YrCanc	6.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	492517.4	3626637	7.26E-09	1.92YrCanc	7.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	492521.2	3626603	8.16E-09	1.92YrCanc	8.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	492521.7	3626582	8.72E-09	1.92YrCanc	8.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	492512.5	3626554	9.11E-09	1.92YrCanc	9.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	492513.6	3626533	9.57E-09	1.92YrCanc	9.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	492501	3626506	9.79E-09	1.92YrCanc	9.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	492490.7	3626486	1.04E													

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEI RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL	UCART1	490879.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
2	ALL	UCART1	491073.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
3	ALL	UCART1	491267.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
4	ALL	UCART1	491461.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
5	ALL	UCART1	491655.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
6	ALL	UCART1	491849.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
7	ALL	UCART1	492043.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
8	ALL	UCART1	492237.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
9	ALL	UCART1	492432	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
10	ALL	UCART1	492626.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
11	ALL	UCART1	492820.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
12	ALL	UCART1	493014.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
13	ALL	UCART1	493208.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
14	ALL	UCART1	493402.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
15	ALL	UCART1	493596.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
16	ALL	UCART1	493790.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
17	ALL	UCART1	493984.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
18	ALL	UCART1	494178.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
19	ALL	UCART1	494373	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
20	ALL	UCART1	494567.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
21	ALL	UCART1	494761.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
22	ALL	UCART1	490879.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
23	ALL	UCART1	491073.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
24	ALL	UCART1	491267.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
25	ALL	UCART1	491461.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
26	ALL	UCART1	491655.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
27	ALL	UCART1	491849.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
28	ALL	UCART1	492043.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
29	ALL	UCART1	492237.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
30	ALL	UCART1	492432	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
31	ALL	UCART1	492626.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
32	ALL	UCART1	492820.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
33	ALL	UCART1	493014.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
34	ALL	UCART1	493208.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
35	ALL	UCART1	493402.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
36	ALL	UCART1	493596.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05
37	ALL	UCART1	493790.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
38	ALL	UCART1	493984.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05
39	ALL	UCART1	494178.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
40	ALL	UCART1	494373	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
41	ALL	UCART1	494567.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
42	ALL	UCART1	494761.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
43	ALL	UCART1	490879.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
44	ALL	UCART1	491073.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
45	ALL	UCART1	491267.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
46	ALL	UCART1	491461.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
47	ALL	UCART1	491655.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05
48	ALL	UCART1	491849.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05
49	ALL	UCART1	492043.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
50	ALL	UCART1	492237.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05
51	ALL	UCART1	492432	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05

52		UCART1	492626.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-05
53	ALL	UCART1	492820.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
54	ALL	UCART1	493014.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
55	ALL	UCART1	493208.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
56	ALL	UCART1	493402.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05
57	ALL	UCART1	493596.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05
58	ALL	UCART1	493790.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05
59	ALL	UCART1	493984.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
60	ALL	UCART1	494178.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
61	ALL	UCART1	494373	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
62	ALL	UCART1	494567.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
63	ALL	UCART1	494761.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
64	ALL	UCART1	490879.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
65	ALL	UCART1	491073.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
66	ALL	UCART1	491267.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
67	ALL	UCART1	491461.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05
68	ALL	UCART1	491655.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-05
69	ALL	UCART1	491849.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05
70	ALL	UCART1	492043.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-05
71	ALL	UCART1	492237.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
72	ALL	UCART1	492432	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05
73	ALL	UCART1	492626.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-05
74	ALL	UCART1	492820.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05
75	ALL	UCART1	493014.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05
76	ALL	UCART1	493208.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05
77	ALL	UCART1	493402.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05
78	ALL	UCART1	493596.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
79	ALL	UCART1	493790.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05
80	ALL	UCART1	493984.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05
81	ALL	UCART1	494178.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
82	ALL	UCART1	494373	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
83	ALL	UCART1	494567.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
84	ALL	UCART1	494761.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
85	ALL	UCART1	490879.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
86	ALL	UCART1	491073.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
87	ALL	UCART1	491267.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
88	ALL	UCART1	491461.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05
89	ALL	UCART1	491655.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05
90	ALL	UCART1	491849.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05
91	ALL	UCART1	492043.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05
92	ALL	UCART1	492237.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-05
93	ALL	UCART1	492432	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
94	ALL	UCART1	492626.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
95	ALL	UCART1	492820.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
96	ALL	UCART1	493014.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
97	ALL	UCART1	493208.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
98	ALL	UCART1	493402.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
99	ALL	UCART1	493596.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05
100	ALL	UCART1	493790.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-0

104		UCART1	494567.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
105	ALL	UCART1	494761.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
106	ALL	UCART1	490879.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05
107	ALL	UCART1	491073.3	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
108	ALL	UCART1	491267.4	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
109	ALL	UCART1	491461.5	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05
110	ALL	UCART1	491655.6	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05
111	ALL	UCART1	491849.7	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05
112	ALL	UCART1	492043.8	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05
113	ALL	UCART1	492237.9	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05
114	ALL	UCART1	492432	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
115	ALL	UCART1	492626.1	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
116	ALL	UCART1	492820.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
117	ALL	UCART1	493014.3	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
118	ALL	UCART1	493208.4	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
119	ALL	UCART1	493402.5	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
120	ALL	UCART1	493596.6	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
121	ALL	UCART1	493790.7	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05
122	ALL	UCART1	493984.8	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05
123	ALL	UCART1	494178.9	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05
124	ALL	UCART1	494373	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
125	ALL	UCART1	494567.1	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05
126	ALL	UCART1	494761.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
127	ALL	UCART1	490879.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
128	ALL	UCART1	491073.3	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05
129	ALL	UCART1	491267.4	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
130	ALL	UCART1	491461.5	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05
131	ALL	UCART1	491655.6	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05
132	ALL	UCART1	491849.7	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05
133	ALL	UCART1	492043.8	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05
134	ALL	UCART1	492237.9	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05
135	ALL	UCART1	492432	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
136	ALL	UCART1	492626.1	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
137	ALL	UCART1	492820.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-04
138	ALL	UCART1	493014.3	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
139	ALL	UCART1	493208.4	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04
140	ALL	UCART1	493402.5	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
141	ALL	UCART1	493596.6	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
142	ALL	UCART1	493790.7	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05
143	ALL	UCART1	493984.8	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-05
144	ALL	UCART1	494178.9	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05
145	ALL	UCART1	494373	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05
146	ALL	UCART1	494567.1	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
147	ALL	UCART1	494761.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
148	ALL	UCART1	490879.2	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
149	ALL	UCART1	491073.3	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
150	ALL	UCART1	491267.4	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00												

[illegible]

208		UCART1	494373	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
209	ALL	UCART1	494567.1	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
210	ALL	UCART1	494761.2	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
211	ALL	UCART1	490879.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
212	ALL	UCART1	491073.3	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
213	ALL	UCART1	491267.4	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
214	ALL	UCART1	491461.5	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
215	ALL	UCART1	491655.6	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
216	ALL	UCART1	491849.7	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-05
217	ALL	UCART1	492043.8	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05
218	ALL	UCART1	492237.9	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
219	ALL	UCART1	492432	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
220	ALL	UCART1	492626.1	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-04
221	ALL	UCART1	492820.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-03
222	ALL	UCART1	493014.3	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04
223	ALL	UCART1	493208.4	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
224	ALL	UCART1	493402.5	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
225	ALL	UCART1	493596.6	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05
226	ALL	UCART1	493790.7	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05
227	ALL	UCART1	493984.8	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
228	ALL	UCART1	494178.9	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05
229	ALL	UCART1	494373	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
230	ALL	UCART1	494567.1	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
231	ALL	UCART1	494761.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
232	ALL	UCART1	490879.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
233	ALL	UCART1	491073.3	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
234	ALL	UCART1	491267.4	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
235	ALL	UCART1	491461.5	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
236	ALL	UCART1	491655.6	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
237	ALL	UCART1	491849.7	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
238	ALL	UCART1	492043.8	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
239	ALL	UCART1	492237.9	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-05
240	ALL	UCART1	492432	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
241	ALL	UCART1	492626.1	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
242	ALL	UCART1	492820.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
243	ALL	UCART1	493014.3	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
244	ALL	UCART1	493208.4	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
245	ALL	UCART1	493402.5	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05
246	ALL	UCART1	493596.6	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-05
247	ALL	UCART1	493790.7	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
248	ALL	UCART1	493984.8	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
249	ALL	UCART1	494178.9	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
250	ALL	UCART1	494373	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
251	ALL	UCART1	494567.1	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
252	ALL	UCART1	494761.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
253	ALL	UCART1	490879.2	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
254	ALL	UCART1	491073.3	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
255	ALL	UCART1	491267.4	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
256	ALL	UCART1	491461.5	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00				

[illegible]

416		UCART1	493984.8	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-06
417	ALL	UCART1	494178.9	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-07
418	ALL	UCART1	494373	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-07
419	ALL	UCART1	494567.1	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-07
420	ALL	UCART1	494761.2	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-07
421	ALL	UCART1	490879.2	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-06
422	ALL	UCART1	491073.3	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-06
423	ALL	UCART1	491267.4	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
424	ALL	UCART1	491461.5	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
425	ALL	UCART1	491655.6	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
426	ALL	UCART1	491849.7	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
427	ALL	UCART1	492043.8	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
428	ALL	UCART1	492237.9	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
429	ALL	UCART1	492432	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
430	ALL	UCART1	492626.1	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
431	ALL	UCART1	492820.2	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
432	ALL	UCART1	493014.3	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
433	ALL	UCART1	493208.4	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
434	ALL	UCART1	493402.5	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
435	ALL	UCART1	493596.6	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
436	ALL	UCART1	493790.7	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
437	ALL	UCART1	493984.8	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-06
438	ALL	UCART1	494178.9	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-07
439	ALL	UCART1	494373	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-07
440	ALL	UCART1	494567.1	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-07
441	ALL	UCART1	494761.2	3628508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-07
442	ALL		492883.3	3625831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
443	ALL		492919.8	3625835	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
444	ALL		492955.1	3625846	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03
445	ALL		493069.9	3625833	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-03
446	ALL		493094.9	3625833	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03
447	ALL		493110.9	3625837	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
448	ALL		493152	3625834	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-04
449	ALL		493166.7	3625838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04
450	ALL		493187.9	3625837	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04
451	ALL		493201.3	3625837	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04
452	ALL		493240.4	3625837	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
453	ALL		492881.3	3625908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04
454	ALL		492907	3625898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04
455	ALL		492901.8	3625912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04
456	ALL		492928.1	3625915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-04
457	ALL		492933.9	3625898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
458	ALL		492951.9	3625908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
459	ALL		492973.7	3625907	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
460	ALL		492993.6	3625914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
461	ALL		492996.1	3625898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
462	ALL		493016	3625897	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00</					

SDSU Evolve Phase 2 HRA 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
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
- 3. Construction Emissions Details
 - 3.1. Demolition (2026) - Unmitigated
 - 3.3. Site Preparation (2026) - Unmitigated
 - 3.5. Grading (2026) - Unmitigated
 - 3.7. Building Construction (2026) - Unmitigated
 - 3.9. Building Construction (2027) - Unmitigated

3.11. Paving (2027) - Unmitigated

3.13. Architectural Coating (2027) - Unmitigated

3.15. Architectural Coating (2028) - Unmitigated

3.17. Trenching (2026) - Unmitigated

3.19. Trenching (2027) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

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

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	SDSU Evolve Phase 2 HRA
Construction Start Date	8/31/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	1.80
Location	32.77754140411972, -117.07772216206095
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6514
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	760	Dwelling Unit	12.3	729,600	21,626	—	2,120	—

Other Asphalt Surfaces	0.63	Acre	0.63	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.19	0.19	3.35	10.8	0.02	0.04	2.56	2.59	0.04	1.31	1.35	—	2,068	2,068	0.09	0.03	0.14	2,076
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	68.4	68.4	4.78	13.1	0.02	0.04	2.78	2.82	0.04	1.34	1.38	—	2,437	2,437	0.11	0.04	< 0.005	2,451
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.61	9.60	2.35	4.86	0.01	0.01	0.42	0.43	0.01	0.17	0.17	—	762	762	0.04	0.02	0.04	769
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.75	1.75	0.43	0.89	< 0.005	< 0.005	0.08	0.08	< 0.005	0.03	0.03	—	126	126	0.01	< 0.005	0.01	127

2.2. Construction Emissions by Year, Unmitigated

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

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

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.19	0.19	2.80	10.8	0.02	0.04	2.56	2.59	0.04	1.31	1.35	—	2,068	2,068	0.09	0.02	0.08	2,076
2027	0.18	0.16	3.35	6.86	0.01	0.02	0.02	0.03	0.02	< 0.005	0.02	—	1,071	1,071	0.06	0.03	0.14	1,082
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.27	0.25	4.78	13.1	0.02	0.04	2.78	2.82	0.04	1.34	1.38	—	2,437	2,437	0.11	0.04	< 0.005	2,451
2027	68.4	68.4	4.76	8.90	0.01	0.02	0.02	0.04	0.02	< 0.005	0.03	—	1,363	1,363	0.07	0.03	< 0.005	1,375
2028	68.3	68.3	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	673	673	0.04	0.01	< 0.005	676
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.05	0.05	0.77	2.34	< 0.005	0.01	0.42	0.43	0.01	0.17	0.17	—	422	422	0.02	0.01	0.01	425
2027	9.61	9.60	2.35	4.86	0.01	0.01	0.01	0.02	0.01	< 0.005	0.02	—	762	762	0.04	0.02	0.04	769
2028	3.21	3.21	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	31.6	31.6	< 0.005	< 0.005	< 0.005	31.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.01	0.01	0.14	0.43	< 0.005	< 0.005	0.08	0.08	< 0.005	0.03	0.03	—	69.9	69.9	< 0.005	< 0.005	< 0.005	70.4
2027	1.75	1.75	0.43	0.89	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	126	126	0.01	< 0.005	0.01	127
2028	0.59	0.59	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.23	5.23	< 0.005	< 0.005	< 0.005	5.25

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	23.8	23.4	3.93	55.5	0.04	0.24	2.26	2.50	0.23	0.57	0.81	368	6,597	6,965	37.8	0.32	12.2	8,017
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	19.8	19.6	3.61	11.8	0.04	0.22	2.26	2.48	0.22	0.57	0.79	368	6,369	6,737	37.8	0.32	5.41	7,784
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.7	21.4	3.71	32.3	0.04	0.23	2.25	2.48	0.22	0.57	0.80	368	6,284	6,652	37.8	0.32	8.24	7,701
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.97	3.90	0.68	5.90	0.01	0.04	0.41	0.45	0.04	0.10	0.15	60.9	1,040	1,101	6.26	0.05	1.36	1,275

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.64	1.51	0.94	10.2	0.03	0.02	2.26	2.27	0.02	0.57	0.59	—	2,548	2,548	0.12	0.10	6.97	2,588
Area	21.9	21.7	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	115	115	< 0.005	< 0.005	—	116
Energy	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,682	3,682	0.70	0.06	—	3,716
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	23.8	23.4	3.93	55.5	0.04	0.24	2.26	2.50	0.23	0.57	0.81	368	6,597	6,965	37.8	0.32	12.2	8,017
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.61	1.48	1.04	9.70	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,436	2,436	0.13	0.10	0.18	2,470
Area	17.9	17.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,682	3,682	0.70	0.06	—	3,716
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309

Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	19.8	19.6	3.61	11.8	0.04	0.22	2.26	2.48	0.22	0.57	0.79	368	6,369	6,737	37.8	0.32	5.41	7,784
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.59	1.46	1.02	9.66	0.02	0.02	2.25	2.27	0.02	0.57	0.59	—	2,453	2,453	0.13	0.10	3.01	2,490
Area	19.9	19.7	0.20	21.3	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	56.9	56.9	< 0.005	< 0.005	—	57.1
Energy	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,682	3,682	0.70	0.06	—	3,716
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.02	0.02	0.04	0.32	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	63.4	63.4	< 0.005	< 0.005	0.00	63.6
Total	21.7	21.4	3.71	32.3	0.04	0.23	2.25	2.48	0.22	0.57	0.80	368	6,284	6,652	37.8	0.32	8.24	7,701
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.29	0.27	0.19	1.76	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	406	406	0.02	0.02	0.50	412
Area	3.62	3.60	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45
Energy	0.05	0.03	0.45	0.19	< 0.005	0.04	—	0.04	0.04	—	0.04	—	610	610	0.12	0.01	—	615
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2
Waste	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Stationary	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	3.97	3.90	0.68	5.90	0.01	0.04	0.41	0.45	0.04	0.10	0.15	60.9	1,040	1,101	6.26	0.05	1.36	1,275

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	2.13	5.00	0.01	0.01	—	0.01	0.01	—	0.01	—	715	715	0.03	0.01	—	718
Demolition	—	—	—	—	—	—	2.14	2.14	—	0.32	0.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.12	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.2	39.2	< 0.005	< 0.005	—	39.3
Demolition	—	—	—	—	—	—	0.12	0.12	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.49	6.49	< 0.005	< 0.005	—	6.51
Demolition	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.39	7.39	< 0.005	< 0.005	0.01	7.77
Hauling	0.05	0.03	0.63	0.43	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	102	102	0.02	0.02	0.07	108
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.43
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.62	5.62	< 0.005	< 0.005	< 0.005	5.93
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.93	0.93	< 0.005	< 0.005	< 0.005	0.98

3.3. Site Preparation (2026) - Unmitigated

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

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

Off-Road Equipm ent	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,960	1,960	0.08	0.02	—	1,966
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,960	1,960	0.08	0.02	—	1,966
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.7	53.7	< 0.005	< 0.005	—	53.9
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.89	8.89	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.39	7.39	< 0.005	< 0.005	0.01	7.77
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.45	7.45	< 0.005	< 0.005	< 0.005	7.82
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.04
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.28	12.7	0.02	0.04	—	0.04	0.04	—	0.04	—	2,230	2,230	0.09	0.02	—	2,238
Dust From Material Movement	—	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.19	1.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	189	189	0.01	< 0.005	—	190
Dust From Material Movement	—	—	—	—	—	—	0.24	0.24	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.04	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.4	31.4	< 0.005	< 0.005	—	31.5
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.45	7.45	< 0.005	< 0.005	< 0.005	7.82
Hauling	0.04	0.02	0.63	0.43	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	98.1	98.1	0.02	0.02	< 0.005	103
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.66
Hauling	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.28	8.28	< 0.005	< 0.005	< 0.005	8.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.37	1.37	< 0.005	< 0.005	< 0.005	1.45

3.7. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.17	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.5	62.5	< 0.005	< 0.005	—	62.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.3	10.3	< 0.005	< 0.005	—	10.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.06	0.04	0.93	0.65	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	153	153	0.02	0.02	< 0.005	160
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	< 0.005	11.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.77	1.77	< 0.005	< 0.005	< 0.005	1.86
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.07	0.07	1.62	4.08	0.01	0.01	—	0.01	0.01	—	0.01	—	580	580	0.02	< 0.005	—	582
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.30	0.74	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.0	96.0	< 0.005	< 0.005	—	96.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.07	0.04	0.87	0.61	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	149	149	0.02	0.02	0.14	156
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.06	0.04	0.91	0.65	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	150	150	0.02	0.02	< 0.005	158
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.04	0.03	0.58	0.41	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	97.7	97.7	0.02	0.02	0.04	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.2	16.2	< 0.005	< 0.005	0.01	17.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	1.22	4.72	0.01	0.01	—	0.01	0.01	—	0.01	—	673	673	0.03	0.01	—	675
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.07	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.9	36.9	< 0.005	< 0.005	—	37.0

Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.10	6.10	< 0.005	< 0.005	—	6.13
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	9.49	9.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Architect ural	1.73	1.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.01	1.01	< 0.005	< 0.005	< 0.005	1.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.18
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2028) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	3.21	3.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	0.59	0.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.20	7.20	< 0.005	< 0.005	< 0.005	7.55
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.35
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Trenching (2026) - Unmitigated

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

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

Off-Road Equipm ent	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.09	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.0	20.0	< 0.005	< 0.005	—	20.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.30	3.30	< 0.005	< 0.005	—	3.32
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.45	7.45	< 0.005	< 0.005	< 0.005	7.82
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.55

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Trenching (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4	14.4	< 0.005	< 0.005	—	14.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.39	2.39	< 0.005	< 0.005	—	2.40
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.39
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.64	1.51	0.94	10.2	0.03	0.02	2.26	2.27	0.02	0.57	0.59	—	2,548	2,548	0.12	0.10	6.97	2,588
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.64	1.51	0.94	10.2	0.03	0.02	2.26	2.27	0.02	0.57	0.59	—	2,548	2,548	0.12	0.10	6.97	2,588
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.61	1.48	1.04	9.70	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,436	2,436	0.13	0.10	0.18	2,470
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.61	1.48	1.04	9.70	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,436	2,436	0.13	0.10	0.18	2,470
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.29	0.27	0.19	1.76	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	406	406	0.02	0.02	0.50	412
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.29	0.27	0.19	1.76	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	406	406	0.02	0.02	0.50	412

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	574	574	0.42	0.05	—	600
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	574	574	0.42	0.05	—	600
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	574	574	0.42	0.05	—	600
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	574	574	0.42	0.05	—	600
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	95.0	95.0	0.07	0.01	—	99.3
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	95.0	95.0	0.07	0.01	—	99.3

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,108	3,108	0.28	0.01	—	3,117
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,108	3,108	0.28	0.01	—	3,117
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,108	3,108	0.28	0.01	—	3,117
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,108	3,108	0.28	0.01	—	3,117
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.05	0.03	0.45	0.19	< 0.005	0.04	—	0.04	0.04	—	0.04	—	515	515	0.05	< 0.005	—	516
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.05	0.03	0.45	0.19	< 0.005	0.04	—	0.04	0.04	—	0.04	—	515	515	0.05	< 0.005	—	516

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.97	3.76	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	115	115	< 0.005	< 0.005	—	116
Total	21.9	21.7	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	115	115	< 0.005	< 0.005	—	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	17.9	17.9	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	2.85	2.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.42	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.36	0.34	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.45
Total	3.62	3.60	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

Apartments	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. 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)

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	8/31/2026	9/28/2026	5.00	20.0	—
Site Preparation	Site Preparation	9/29/2026	10/13/2026	5.00	10.0	—
Grading	Grading	10/14/2026	11/25/2026	5.00	31.0	—

Building Construction	Building Construction	11/26/2026	11/30/2027	5.00	264	—
Paving	Paving	12/1/2027	12/28/2027	5.00	20.0	—
Architectural Coating	Architectural Coating	10/22/2027	1/24/2028	5.00	67.0	—
Trenching	Trenching	11/26/2026	1/26/2027	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	7.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	6.00	36.0	0.38

Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	12.0	LDA,LDT1,LDT2
Demolition	Vendor	4.00	0.25	HHDT,MHDT
Demolition	Hauling	40.0	0.25	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	0.25	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	0.25	HHDT,MHDT
Grading	Hauling	38.0	0.25	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	82.0	0.25	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—

Paving	Worker	0.00	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	0.25	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	0.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	0.25	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	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	1,477,440	492,480	0.00	0.00	1,634

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	3,093	—
Site Preparation	—	—	5.00	0.00	—
Grading	5,800	3,500	140	0.00	—
Paving	0.00	0.00	0.00	0.00	0.63

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%
Other Asphalt Surfaces	0.63	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	19,381	589	0.03	< 0.005
2027	19,381	589	0.03	< 0.005
2028	19,381	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
Apartments High Rise	420	420	420	153,455	3,195	3,195	3,195	1,166,260
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	760
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
2663280	887,760	22,500	7,500	2,718

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments High Rise	4,645,492	45.1	0.0330	0.0040	9,697,458
Other Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	33,953,291	740,799
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	562	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

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

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	52.0	530	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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	9.08	annual days of extreme heat
Extreme Precipitation	2.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	4.89	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi. Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters. Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	46.0
AQ-DPM	78.3
Drinking Water	29.0
Lead Risk Housing	22.5
Pesticides	0.00
Toxic Releases	36.0
Traffic	83.2
Effect Indicators	—
CleanUp Sites	53.4
Groundwater	68.4
Haz Waste Facilities/Generators	37.7
Impaired Water Bodies	77.3
Solid Waste	0.00

Sensitive Population	—
Asthma	38.4
Cardio-vascular	12.7
Low Birth Weights	9.08
Socioeconomic Factor Indicators	—
Education	—
Housing	96.5
Linguistic	—
Poverty	91.8
Unemployment	92.2

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	20.95470294
Employed	9.534197357
Median HI	17.43872706
Education	—
Bachelor's or higher	81.12408572
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	11.04837675
Active commuting	89.42640832
Social	—
2-parent households	99.56371102
Voting	22.66136276

Neighborhood	—
Alcohol availability	85.46131143
Park access	20.23610933
Retail density	97.62607468
Supermarket access	2.399589375
Tree canopy	71.71820865
Housing	—
Homeownership	27.87116643
Housing habitability	26.51097138
Low-inc homeowner severe housing cost burden	97.99820352
Low-inc renter severe housing cost burden	0.346464776
Uncrowded housing	50.16040036
Health Outcomes	—
Insured adults	68.95932247
Arthritis	97.1
Asthma ER Admissions	70.5
High Blood Pressure	98.1
Cancer (excluding skin)	89.7
Asthma	21.6
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	97.2
Life Expectancy at Birth	60.4
Cognitively Disabled	72.6
Physically Disabled	83.0
Heart Attack ER Admissions	96.5
Mental Health Not Good	34.8
Chronic Kidney Disease	95.6

Obesity	88.9
Pedestrian Injuries	19.6
Physical Health Not Good	81.0
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.6
Current Smoker	47.6
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	47.1
SLR Inundation Area	0.0
Children	96.5
Elderly	59.3
English Speaking	55.7
Foreign-born	45.8
Outdoor Workers	77.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	96.7
Traffic Access	61.3
Other Indices	—
Hardship	53.0
Other Decision Support	—
2016 Voting	37.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0

Healthy Places Index Score for Project Location (b)	47.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Characteristics: Utility Information	Phase 1 is within the on-campus grid getting electricity from the cogen.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	Based on LLG traffic study.
Operations: Hearths	No stoves or fireplaces.
Operations: Generators + Pumps EF	Tier 4 Final
Operations: Water and Waste Water	Based on applicant provided information.
Construction: Dust From Material Movement	Based on applicant provided information.
Operations: Emergency Generators and Fire Pumps	Based on applicant provided information
Construction: Electricity	Estimated electricity use.

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 10/10/2024
** File: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU Evolve
Phase 2\SDSU Evolve Phase 1.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL "SDSU Evolve Phase 1.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 Phase 2
** PREFIX
** Length of Side = 8.60
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 16
** 492790.243, 3626704.968, 122.00, 3.40, 4.00
** 492747.015, 3626677.950, 123.41, 3.40, 4.00
** 492775.695, 3626636.386, 123.49, 3.40, 4.00

```

** 492814.766, 3626659.246, 123.12, 3.40, 4.00
 ** 492813.103, 3626673.378, 122.25, 3.40, 4.00
 ** 492794.399, 3626698.317, 121.84, 3.40, 4.00
 ** 492759.069, 3626676.703, 123.58, 3.40, 4.00
 ** 492777.358, 3626648.024, 123.50, 3.40, 4.00
 ** 492804.375, 3626662.987, 122.85, 3.40, 4.00
 ** 492804.375, 3626671.716, 123.28, 3.40, 4.00
 ** 492793.152, 3626689.173, 122.14, 3.40, 4.00
 ** 492771.954, 3626675.456, 123.68, 3.40, 4.00
 ** 492779.852, 3626660.909, 123.69, 3.40, 4.00
 ** 492795.231, 3626669.222, 123.58, 3.40, 4.00
 ** 492795.646, 3626681.691, 123.58, 3.40, 4.00
 ** 492781.930, 3626672.131, 123.77, 3.40, 4.00

**

LOCATION L0000001	VOLUME	492786.596	3626702.689	121.86
LOCATION L0000002	VOLUME	492779.304	3626698.131	122.24
LOCATION L0000003	VOLUME	492772.011	3626693.573	122.30
LOCATION L0000004	VOLUME	492764.718	3626689.015	122.41
LOCATION L0000005	VOLUME	492757.425	3626684.457	122.58
LOCATION L0000006	VOLUME	492750.132	3626679.899	122.79
LOCATION L0000007	VOLUME	492749.812	3626673.897	123.18
LOCATION L0000008	VOLUME	492754.696	3626666.819	123.58
LOCATION L0000009	VOLUME	492759.580	3626659.740	123.57
LOCATION L0000010	VOLUME	492764.464	3626652.662	123.54
LOCATION L0000011	VOLUME	492769.349	3626645.583	123.50
LOCATION L0000012	VOLUME	492774.233	3626638.505	123.48
LOCATION L0000013	VOLUME	492780.895	3626639.428	123.49
LOCATION L0000014	VOLUME	492788.318	3626643.771	123.46
LOCATION L0000015	VOLUME	492795.741	3626648.114	123.42
LOCATION L0000016	VOLUME	492803.164	3626652.458	123.38
LOCATION L0000017	VOLUME	492810.586	3626656.801	122.34
LOCATION L0000018	VOLUME	492814.327	3626662.978	120.68
LOCATION L0000019	VOLUME	492813.322	3626671.519	120.46
LOCATION L0000020	VOLUME	492809.067	3626678.761	121.95
LOCATION L0000021	VOLUME	492803.907	3626685.641	122.40
LOCATION L0000022	VOLUME	492798.747	3626692.521	122.08
LOCATION L0000023	VOLUME	492793.244	3626697.610	121.93
LOCATION L0000024	VOLUME	492785.908	3626693.122	122.42
LOCATION L0000025	VOLUME	492778.572	3626688.634	122.74
LOCATION L0000026	VOLUME	492771.236	3626684.146	122.85
LOCATION L0000027	VOLUME	492763.900	3626679.659	123.02
LOCATION L0000028	VOLUME	492760.648	3626674.227	123.34
LOCATION L0000029	VOLUME	492765.272	3626666.976	123.65
LOCATION L0000030	VOLUME	492769.896	3626659.724	123.62
LOCATION L0000031	VOLUME	492774.520	3626652.473	123.58
LOCATION L0000032	VOLUME	492780.264	3626649.634	123.58
LOCATION L0000033	VOLUME	492787.788	3626653.800	123.55
LOCATION L0000034	VOLUME	492795.311	3626657.967	123.50
LOCATION L0000035	VOLUME	492802.834	3626662.134	123.45
LOCATION L0000036	VOLUME	492804.375	3626669.826	123.48

LOCATION	L0000037	VOLUME	492800.746	3626677.360	123.02
LOCATION	L0000038	VOLUME	492796.096	3626684.594	122.65
LOCATION	L0000039	VOLUME	492790.502	3626687.458	122.62
LOCATION	L0000040	VOLUME	492783.282	3626682.786	123.05
LOCATION	L0000041	VOLUME	492776.061	3626678.114	123.28
LOCATION	L0000042	VOLUME	492773.723	3626672.198	123.59
LOCATION	L0000043	VOLUME	492777.826	3626664.640	123.71
LOCATION	L0000044	VOLUME	492783.683	3626662.980	123.68
LOCATION	L0000045	VOLUME	492791.248	3626667.069	123.62
LOCATION	L0000046	VOLUME	492795.366	3626673.292	123.38
LOCATION	L0000047	VOLUME	492795.485	3626681.579	122.86
LOCATION	L0000048	VOLUME	492788.429	3626676.661	123.29
** End of LINE VOLUME Source ID = SLINE1					
LOCATION	STCK1	POINT	492847.720	3626536.360	124.220
** DESCRSRC Phase 1A Generator					
LOCATION	STCK2	POINT	492991.100	3625839.681	141.860
** DESCRSRC Phase 1B Generator					
** Source Parameters **					
** LINE VOLUME Source ID = SLINE1					
SRCPARAM	L0000001	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000002	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000003	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000004	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000005	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000006	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000007	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000008	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000009	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000010	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000011	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000012	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000013	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000014	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000015	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000016	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000017	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000018	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000019	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000020	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000021	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000022	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000023	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000024	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000025	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000026	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000027	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000028	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000029	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000030	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000031	0.0208333333	3.40	4.00	3.16

SRCPARAM	L0000032	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000033	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000034	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000035	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000036	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000037	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000038	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000039	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000040	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000041	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000042	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000043	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000044	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000045	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000046	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000047	0.0208333333	3.40	4.00	3.16
SRCPARAM	L0000048	0.0208333333	3.40	4.00	3.16

** -----

SRCPARAM	STCK1	1.0	2.499	772.594	60.63624912892	0.13463016
SRCPARAM	STCK2	1.0	2.499	772.594	60.63624912892	0.13463016

** Building Downwash **

BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDWID	STCK1	55.84	65.58	73.32	78.84	81.95	83.80
BUILDWID	STCK1	84.85	84.05	83.01	79.44	73.46	65.25
BUILDWID	STCK1	55.05	43.18	30.92	25.51	32.34	44.41
BUILDWID	STCK1	55.84	65.58	73.32	78.84	81.95	83.80
BUILDWID	STCK1	84.85	84.05	83.01	79.44	73.46	65.25
BUILDWID	STCK1	55.05	43.18	30.92	25.51	32.34	44.41
BUILDWID	STCK2	57.08	60.17	61.43	60.83	58.38	54.16
BUILDWID	STCK2	48.29	40.95	32.88	41.34	48.91	54.99
BUILDWID	STCK2	59.40	62.01	62.73	61.55	58.50	53.67
BUILDWID	STCK2	57.08	60.17	61.43	60.83	58.38	54.16
BUILDWID	STCK2	48.29	40.95	32.88	41.34	48.91	54.99
BUILDWID	STCK2	59.40	62.01	62.73	61.55	58.50	53.67

BUILDLN	STCK1	79.44	73.46	65.25	55.05	43.18	30.92
BUILDLN	STCK1	25.51	32.34	44.41	55.84	65.58	73.32
BUILDLN	STCK1	78.84	81.95	83.80	84.85	84.05	83.01
BUILDLN	STCK1	79.44	73.46	65.25	55.05	43.18	30.92
BUILDLN	STCK1	25.51	32.34	44.41	55.84	65.58	73.32
BUILDLN	STCK1	78.84	81.95	83.80	84.85	84.05	83.01
BUILDLN	STCK2	41.34	48.91	54.99	59.40	62.01	62.73
BUILDLN	STCK2	61.55	58.50	53.67	57.08	60.17	61.43
BUILDLN	STCK2	60.83	58.38	54.16	48.29	40.95	32.88
BUILDLN	STCK2	41.34	48.91	54.99	59.40	62.01	62.73
BUILDLN	STCK2	61.55	58.50	53.67	57.08	60.17	61.43
BUILDLN	STCK2	60.83	58.38	54.16	48.29	40.95	32.88
XBADJ	STCK1	-34.99	-35.86	-35.65	-34.34	-32.00	-28.68
XBADJ	STCK1	-25.10	-33.78	-41.42	-47.81	-52.74	-56.07
XBADJ	STCK1	-57.70	-57.57	-56.91	-56.28	-53.93	-49.95
XBADJ	STCK1	-44.45	-37.60	-29.60	-20.71	-11.19	-2.24
XBADJ	STCK1	-0.41	1.44	-2.99	-8.04	-12.84	-17.25
XBADJ	STCK1	-21.14	-24.38	-26.89	-28.57	-30.12	-33.06
XBADJ	STCK2	-21.67	-20.33	-18.37	-15.85	-12.86	-9.47
XBADJ	STCK2	-5.79	-1.94	1.97	0.66	-1.07	-2.77
XBADJ	STCK2	-4.39	-5.87	-7.17	-8.26	-9.09	-10.16
XBADJ	STCK2	-19.67	-28.58	-36.62	-43.55	-49.15	-53.27
XBADJ	STCK2	-55.76	-56.56	-55.64	-57.74	-59.10	-58.66
XBADJ	STCK2	-56.45	-52.51	-46.99	-40.03	-31.86	-22.72
YBADJ	STCK1	19.89	19.95	19.41	18.28	16.60	15.01
YBADJ	STCK1	13.85	11.91	8.45	4.73	0.87	-3.02
YBADJ	STCK1	-6.82	-10.41	-13.22	-12.35	-17.61	-19.22
YBADJ	STCK1	-19.89	-19.95	-19.41	-18.28	-16.60	-15.01
YBADJ	STCK1	-13.85	-11.91	-8.45	-4.73	-0.87	3.02
YBADJ	STCK1	6.82	10.41	13.22	12.35	17.61	19.22
YBADJ	STCK2	-29.20	-29.01	-27.94	-26.03	-23.32	-19.91
YBADJ	STCK2	-15.89	-11.38	-6.28	-1.00	4.12	9.12
YBADJ	STCK2	13.85	18.15	21.90	24.98	27.31	28.81
YBADJ	STCK2	29.20	29.01	27.94	26.03	23.32	19.91
YBADJ	STCK2	15.89	11.38	6.28	1.00	-4.12	-9.12
YBADJ	STCK2	-13.85	-18.15	-21.90	-24.98	-27.31	-28.81
SRCGROUP	SLINE1	L0000001	L0000002	L0000003	L0000004	L0000005	L0000006
SRCGROUP	SLINE1	L0000007	L0000008	L0000009	L0000010	L0000011	L0000012
SRCGROUP	SLINE1	L0000013	L0000014	L0000015	L0000016	L0000017	L0000018
SRCGROUP	SLINE1	L0000019	L0000020	L0000021	L0000022	L0000023	L0000024
SRCGROUP	SLINE1	L0000025	L0000026	L0000027	L0000028	L0000029	L0000030
SRCGROUP	SLINE1	L0000031	L0000032	L0000033	L0000034	L0000035	L0000036
SRCGROUP	SLINE1	L0000037	L0000038	L0000039	L0000040	L0000041	L0000042
SRCGROUP	SLINE1	L0000043	L0000044	L0000045	L0000046	L0000047	L0000048

```

SRCGROUP STCK1      STCK1
SRCGROUP STCK2      STCK2
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "SDSU Evolve Phase 1.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE ..\KVR_2020_2022_v23132.SFC
  PROFFILE ..\KVR_2020_2022_v23132.PFL
  SURFDATA 93107 2020
  UAIRDATA 3190 2020
  SITEDATA 1016 2020
  PROFBASE 132.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST "SDSU Evolve Phase 1.AD\01H1GALL.PLT" 31
  PLOTFILE 1 SLINE1 1ST "SDSU Evolve Phase 1.AD\01H1G001.PLT" 32
  PLOTFILE 1 STCK1 1ST "SDSU Evolve Phase 1.AD\01H1G002.PLT" 33
  PLOTFILE 1 STCK2 1ST "SDSU Evolve Phase 1.AD\01H1G003.PLT" 34
  PLOTFILE PERIOD ALL "SDSU Evolve Phase 1.AD\PE00GALL.PLT" 35
  PLOTFILE PERIOD SLINE1 "SDSU Evolve Phase 1.AD\PE00G001.PLT" 36
  PLOTFILE PERIOD STCK1 "SDSU Evolve Phase 1.AD\PE00G002.PLT" 37
  PLOTFILE PERIOD STCK2 "SDSU Evolve Phase 1.AD\PE00G003.PLT" 38
  SUMMFILE "SDSU Evolve Phase 1.sum"
OU FINISHED

```

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

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

A Total of 0 Fatal Error Message(s)
A Total of 3 Warning Message(s)
A Total of 0 Informational Message(s)

***** FATAL ERROR MESSAGES *****

*** NONE ***

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

SO W320 167 PPARM: Input Parameter May Be Out-of-Range for Parameter
 VS
SO W320 168 PPARM: Input Parameter May Be Out-of-Range for Parameter
 VS
MX W403 275 PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

*** SETUP Finishes Successfully ***

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
 *** 15:01:13

PAGE 1

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** MODEL SETUP OPTIONS SUMMARY

- - - - -
- - - - -

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses RURAL Dispersion Only.

- * CCVR_Sub - Meteorological data includes CCVR substitutions
- * TEMP_Sub - Meteorological data includes TEMP substitutions
- * Model Assumes No FLAGPOLE Receptor Heights.
- * The User Specified a Pollutant Type of: PM₁₀

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

**This Run Includes: 50 Source(s); 4 Source Group(s); and 534
Receptor(s)

with: 2 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 48 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

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

**The AERMET Input Meteorological Data Version Date: 23132

**Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)

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

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

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

Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 132.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.7 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: SDSU Evolve Phase 1.err

**File for Summary of Results: SDSU Evolve Phase 1.sum

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:01:13

PAGE 2

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** POINT SOURCE DATA ***

STACK	STACK	BLDG	URBAN	CAP/	EMIS	RATE	BASE	STACK	STACK	
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	TEMP.	EXIT		
VEL.	DIAMETER	EXISTS	SOURCE	HOR	SCALAR	(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)
ID	CATS.				(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)	
(M/SEC)	(METERS)				VARY BY					

STCK1	0	0.10000E+01	492847.7	3626536.4	124.2	2.50	772.59			
60.64	0.13	YES	NO	NO						
STCK2	0	0.10000E+01	492991.1	3625839.7	141.9	2.50	772.59			
60.64	0.13	YES	NO	NO						

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:01:13

PAGE 3

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** VOLUME SOURCE DATA ***

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

L0000001	0	0.20833E-01	492786.6	3626702.7	121.9	3.40	4.00
3.16 NO		NO					
L0000002	0	0.20833E-01	492779.3	3626698.1	122.2	3.40	4.00
3.16 NO		NO					
L0000003	0	0.20833E-01	492772.0	3626693.6	122.3	3.40	4.00
3.16 NO		NO					
L0000004	0	0.20833E-01	492764.7	3626689.0	122.4	3.40	4.00
3.16 NO		NO					
L0000005	0	0.20833E-01	492757.4	3626684.5	122.6	3.40	4.00
3.16 NO		NO					
L0000006	0	0.20833E-01	492750.1	3626679.9	122.8	3.40	4.00
3.16 NO		NO					
L0000007	0	0.20833E-01	492749.8	3626673.9	123.2	3.40	4.00
3.16 NO		NO					
L0000008	0	0.20833E-01	492754.7	3626666.8	123.6	3.40	4.00
3.16 NO		NO					
L0000009	0	0.20833E-01	492759.6	3626659.7	123.6	3.40	4.00
3.16 NO		NO					
L0000010	0	0.20833E-01	492764.5	3626652.7	123.5	3.40	4.00
3.16 NO		NO					
L0000011	0	0.20833E-01	492769.3	3626645.6	123.5	3.40	4.00
3.16 NO		NO					
L0000012	0	0.20833E-01	492774.2	3626638.5	123.5	3.40	4.00
3.16 NO		NO					
L0000013	0	0.20833E-01	492780.9	3626639.4	123.5	3.40	4.00
3.16 NO		NO					
L0000014	0	0.20833E-01	492788.3	3626643.8	123.5	3.40	4.00
3.16 NO		NO					
L0000015	0	0.20833E-01	492795.7	3626648.1	123.4	3.40	4.00
3.16 NO		NO					
L0000016	0	0.20833E-01	492803.2	3626652.5	123.4	3.40	4.00
3.16 NO		NO					
L0000017	0	0.20833E-01	492810.6	3626656.8	122.3	3.40	4.00
3.16 NO		NO					
L0000018	0	0.20833E-01	492814.3	3626663.0	120.7	3.40	4.00
3.16 NO		NO					
L0000019	0	0.20833E-01	492813.3	3626671.5	120.5	3.40	4.00
3.16 NO		NO					
L0000020	0	0.20833E-01	492809.1	3626678.8	122.0	3.40	4.00
3.16 NO		NO					
L0000021	0	0.20833E-01	492803.9	3626685.6	122.4	3.40	4.00
3.16 NO		NO					
L0000022	0	0.20833E-01	492798.7	3626692.5	122.1	3.40	4.00
3.16 NO		NO					
L0000023	0	0.20833E-01	492793.2	3626697.6	121.9	3.40	4.00
3.16 NO		NO					
L0000024	0	0.20833E-01	492785.9	3626693.1	122.4	3.40	4.00
3.16 NO		NO					
L0000025	0	0.20833E-01	492778.6	3626688.6	122.7	3.40	4.00

3.16	NO		NO					
L0000026		0	0.20833E-01	492771.2	3626684.1	122.8	3.40	4.00
3.16	NO		NO					
L0000027		0	0.20833E-01	492763.9	3626679.7	123.0	3.40	4.00
3.16	NO		NO					
L0000028		0	0.20833E-01	492760.6	3626674.2	123.3	3.40	4.00
3.16	NO		NO					
L0000029		0	0.20833E-01	492765.3	3626667.0	123.6	3.40	4.00
3.16	NO		NO					
L0000030		0	0.20833E-01	492769.9	3626659.7	123.6	3.40	4.00
3.16	NO		NO					
L0000031		0	0.20833E-01	492774.5	3626652.5	123.6	3.40	4.00
3.16	NO		NO					
L0000032		0	0.20833E-01	492780.3	3626649.6	123.6	3.40	4.00
3.16	NO		NO					
L0000033		0	0.20833E-01	492787.8	3626653.8	123.5	3.40	4.00
3.16	NO		NO					
L0000034		0	0.20833E-01	492795.3	3626658.0	123.5	3.40	4.00
3.16	NO		NO					
L0000035		0	0.20833E-01	492802.8	3626662.1	123.5	3.40	4.00
3.16	NO		NO					
L0000036		0	0.20833E-01	492804.4	3626669.8	123.5	3.40	4.00
3.16	NO		NO					
L0000037		0	0.20833E-01	492800.7	3626677.4	123.0	3.40	4.00
3.16	NO		NO					
L0000038		0	0.20833E-01	492796.1	3626684.6	122.6	3.40	4.00
3.16	NO		NO					
L0000039		0	0.20833E-01	492790.5	3626687.5	122.6	3.40	4.00
3.16	NO		NO					
L0000040		0	0.20833E-01	492783.3	3626682.8	123.0	3.40	4.00
3.16	NO		NO					

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 4

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** VOLUME SOURCE DATA ***

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

L0000041	0	0.20833E-01	492776.1	3626678.1	123.3	3.40	4.00
3.16 NO		NO					
L0000042	0	0.20833E-01	492773.7	3626672.2	123.6	3.40	4.00
3.16 NO		NO					
L0000043	0	0.20833E-01	492777.8	3626664.6	123.7	3.40	4.00
3.16 NO		NO					
L0000044	0	0.20833E-01	492783.7	3626663.0	123.7	3.40	4.00
3.16 NO		NO					
L0000045	0	0.20833E-01	492791.2	3626667.1	123.6	3.40	4.00
3.16 NO		NO					
L0000046	0	0.20833E-01	492795.4	3626673.3	123.4	3.40	4.00
3.16 NO		NO					
L0000047	0	0.20833E-01	492795.5	3626681.6	122.9	3.40	4.00
3.16 NO		NO					
L0000048	0	0.20833E-01	492788.4	3626676.7	123.3	3.40	4.00
3.16 NO		NO					

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:01:13

PAGE 5

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs									
-----	-----									
SLINE1	L0000001	,	L0000002	,	L0000003	,	L0000004	,	L0000005	,
L0000006	,	L0000007	,	L0000008	,					
	L0000009	,	L0000010	,	L0000011	,	L0000012	,	L0000013	,
L0000014	,	L0000015	,	L0000016	,					
	L0000017	,	L0000018	,	L0000019	,	L0000020	,	L0000021	,
L0000022	,	L0000023	,	L0000024	,					
	L0000025	,	L0000026	,	L0000027	,	L0000028	,	L0000029	,
L0000030	,	L0000031	,	L0000032	,					
	L0000033	,	L0000034	,	L0000035	,	L0000036	,	L0000037	,
L0000038	,	L0000039	,	L0000040	,					
	L0000041	,	L0000042	,	L0000043	,	L0000044	,	L0000045	,
L0000046	,	L0000047	,	L0000048	,					

```

STCK1      STCK1      ,
STCK2      STCK2      ,

ALL         L0000001   , L0000002   , L0000003   , L0000004   , L0000005   ,
L0000006   , L0000007   , L0000008   ,

L0000014   L0000009   , L0000010   , L0000011   , L0000012   , L0000013   ,
, L0000015   , L0000016   ,

L0000022   L0000017   , L0000018   , L0000019   , L0000020   , L0000021   ,
, L0000023   , L0000024   ,

L0000030   L0000025   , L0000026   , L0000027   , L0000028   , L0000029   ,
, L0000031   , L0000032   ,

L0000038   L0000033   , L0000034   , L0000035   , L0000036   , L0000037   ,
, L0000039   , L0000040   ,

L0000046   L0000041   , L0000042   , L0000043   , L0000044   , L0000045   ,
, L0000047   , L0000048   ,

```

```

          STCK1      , STCK2      ,
^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:01:13

```

PAGE 6

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** DIRECTION SPECIFIC BUILDING DIMENSIONS

```

SOURCE ID: STCK1
IFV  BH    BW    BL    XADJ  YADJ  IFV  BH    BW    BL    XADJ
YADJ
  1  28.7,  55.8,  79.4, -35.0,  19.9,   2  28.7,  65.6,  73.5, -35.9,
19.9,
  3  28.7,  73.3,  65.2, -35.6,  19.4,   4  28.7,  78.8,  55.0, -34.3,
18.3,
  5  28.7,  82.0,  43.2, -32.0,  16.6,   6  28.7,  83.8,  30.9, -28.7,
15.0,
  7  28.7,  84.8,  25.5, -25.1,  13.9,   8  28.7,  84.0,  32.3, -33.8,
11.9,
  9  28.7,  83.0,  44.4, -41.4,   8.5,  10  28.7,  79.4,  55.8, -47.8,
  4.7,
 11  28.7,  73.5,  65.6, -52.7,   0.9,  12  28.7,  65.2,  73.3, -56.1,
-3.0,

```

13	28.7,	55.0,	78.8,	-57.7,	-6.8,	14	28.7,	43.2,	82.0,	-57.6,
-10.4,										
15	28.7,	30.9,	83.8,	-56.9,	-13.2,	16	28.7,	25.5,	84.8,	-56.3,
-12.4,										
17	28.7,	32.3,	84.0,	-53.9,	-17.6,	18	28.7,	44.4,	83.0,	-49.9,
-19.2,										
19	28.7,	55.8,	79.4,	-44.4,	-19.9,	20	28.7,	65.6,	73.5,	-37.6,
-19.9,										
21	28.7,	73.3,	65.2,	-29.6,	-19.4,	22	28.7,	78.8,	55.0,	-20.7,
-18.3,										
23	28.7,	82.0,	43.2,	-11.2,	-16.6,	24	28.7,	83.8,	30.9,	-2.2,
-15.0,										
25	28.7,	84.8,	25.5,	-0.4,	-13.9,	26	28.7,	84.0,	32.3,	1.4,
-11.9,										
27	28.7,	83.0,	44.4,	-3.0,	-8.5,	28	28.7,	79.4,	55.8,	-8.0,
-4.7,										
29	28.7,	73.5,	65.6,	-12.8,	-0.9,	30	28.7,	65.2,	73.3,	-17.2,
3.0,										
31	28.7,	55.0,	78.8,	-21.1,	6.8,	32	28.7,	43.2,	82.0,	-24.4,
10.4,										
33	28.7,	30.9,	83.8,	-26.9,	13.2,	34	28.7,	25.5,	84.8,	-28.6,
12.4,										
35	28.7,	32.3,	84.0,	-30.1,	17.6,	36	28.7,	44.4,	83.0,	-33.1,
19.2,										

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
YADJ										
1	28.0,	57.1,	41.3,	-21.7,	-29.2,	2	28.0,	60.2,	48.9,	-20.3,
-29.0,										
3	28.0,	61.4,	55.0,	-18.4,	-27.9,	4	28.0,	60.8,	59.4,	-15.9,
-26.0,										
5	28.0,	58.4,	62.0,	-12.9,	-23.3,	6	28.0,	54.2,	62.7,	-9.5,
-19.9,										
7	28.0,	48.3,	61.5,	-5.8,	-15.9,	8	28.0,	40.9,	58.5,	-1.9,
-11.4,										
9	28.0,	32.9,	53.7,	2.0,	-6.3,	10	28.0,	41.3,	57.1,	0.7,
-1.0,										
11	28.0,	48.9,	60.2,	-1.1,	4.1,	12	28.0,	55.0,	61.4,	-2.8,
9.1,										
13	28.0,	59.4,	60.8,	-4.4,	13.9,	14	28.0,	62.0,	58.4,	-5.9,
18.2,										
15	28.0,	62.7,	54.2,	-7.2,	21.9,	16	28.0,	61.5,	48.3,	-8.3,
25.0,										
17	28.0,	58.5,	40.9,	-9.1,	27.3,	18	28.0,	53.7,	32.9,	-10.2,
28.8,										
19	28.0,	57.1,	41.3,	-19.7,	29.2,	20	28.0,	60.2,	48.9,	-28.6,
29.0,										
21	28.0,	61.4,	55.0,	-36.6,	27.9,	22	28.0,	60.8,	59.4,	-43.5,


```

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:01:13

```

```
*** MODELOPTs:      RegDFAULT  CONC  ELEV  RURAL  SigA Data
```

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

490879.2, 491073.3, 491267.4, 491461.5, 491655.6, 491849.7, 492043.8,
492237.9, 492432.0, 492626.1,
492820.2, 493014.3, 493208.4, 493402.5, 493596.6, 493790.7, 493984.8,
494178.9, 494373.0, 494567.1,
494761.2,

3624590.4, 3624786.2, 3624982.1, 3625177.9, 3625373.8, 3625569.7, 3625765.5,
3625961.4, 3626157.2, 3626353.1,
3626549.0, 3626744.8, 3626940.7, 3627136.5, 3627332.4, 3627528.3, 3627724.1,
3627920.0, 3628115.8, 3628311.7,
3628507.6,

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU ***      10/10/24
*** AERMET - VERSION 23132 ***      ***
***      15:01:13

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58	
491849.68	492043.78	492237.88	492431.98			

3628507.56		25.00	43.20	43.10	48.60	67.50
80.10		95.10	99.80	104.90		
3628311.70		34.20	42.30	48.30	58.60	67.70
87.00		93.50	96.80	99.40		
3628115.84		35.30	39.20	49.50	59.30	74.90
90.50		89.90	94.60	98.40		
3627919.98		34.40	39.40	51.20	57.10	81.40
91.30		79.50	97.40	94.00		
3627724.12		29.60	38.00	49.50	69.90	82.20
89.30		62.50	99.00	55.90		
3627528.26		26.30	38.20	56.90	78.80	82.40
81.00		60.00	55.50	92.00		
3627332.40		25.20	36.20	57.80	66.70	68.80
45.50		41.60	85.80	115.00		
3627136.54		23.70	25.40	27.40	29.00	34.00
34.90		34.80	34.80	40.30		
3626940.68		35.80	38.20	39.70	41.60	40.50
45.80		55.20	53.60	49.60		
3626744.82		84.80	99.10	84.90	86.90	68.40
105.30		110.40	113.00	74.40		
3626548.96		89.90	97.80	78.80	108.90	95.30
82.60		127.20	121.30	108.70		
3626353.10		66.40	106.30	107.60	97.70	120.40
84.80		122.30	133.50	133.80		
3626157.24		38.60	71.90	115.10	118.10	120.60
115.70		115.40	127.50	126.90		
3625961.38		53.40	50.50	63.30	86.80	120.70
119.20		100.10	103.40	114.00		
3625765.52		52.20	100.40	87.70	59.60	70.40
76.70		86.10	95.90	121.70		
3625569.66		80.60	94.20	115.10	119.50	106.20
110.80		76.20	86.10	100.00		
3625373.80		73.80	91.40	81.80	120.10	123.20
122.50		106.00	109.80	126.70		
3625177.94		64.10	115.10	113.40	99.90	122.20

121.80	120.30	97.10	128.30			
3624982.08	74.00	113.60	110.50	117.80	119.20	
121.10	121.20	106.70	124.00			
3624786.22	109.50	96.90	115.30	117.60	118.70	
120.30	120.60	109.90	111.30			
3624590.36	108.30	109.70	105.40	113.00	116.20	
118.50	119.60	120.80	117.70			

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:01:13

PAGE 9

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD					X-COORD (METERS)	
(METERS)		492626.08	492820.18	493014.28	493208.38	493402.48
493596.58		493790.68	493984.78	494178.88		

- - - - -
 - - - - -

3628507.56	106.80	107.70	93.20	107.90	111.20
118.20	128.90	146.10	192.00		
3628311.70	103.20	106.80	82.70	90.50	112.70
121.70	133.00	155.40	216.90		
3628115.84	100.50	85.20	94.30	121.30	121.10
124.20	138.60	157.00	216.70		
3627919.98	76.70	87.30	82.50	121.70	131.00
130.00	141.30	170.80	228.80		
3627724.12	71.90	122.60	125.30	119.50	108.60
132.70	144.30	164.50	197.70		
3627528.26	112.50	95.30	119.80	130.00	130.40
124.60	139.30	151.20	167.00		
3627332.40	106.20	98.30	119.00	122.00	131.90
136.80	143.30	149.40	146.80		
3627136.54	42.50	42.90	43.20	48.90	81.30
127.20	140.70	140.90	134.10		
3626940.68	48.30	57.70	56.90	63.20	91.90
114.10	125.50	112.20	129.40		
3626744.82	112.00	108.40	100.30	105.10	115.20
91.80	98.50	100.30	105.90		
3626548.96	100.70	125.40	110.00	132.60	132.60
111.90	123.60	119.40	102.90		
3626353.10	133.90	135.30	116.80	134.20	135.40
133.50	133.00	132.60	112.90		

3626157.24		130.90	136.40	133.20	138.60	138.90
131.70		130.10	137.20	139.30		
3625961.38		128.60	139.60	141.20	140.80	139.70
140.00		133.40	140.10	140.40		
3625765.52		116.60	141.00	141.80	140.70	137.00
141.00		143.30	142.70	140.40		
3625569.66		106.70	112.70	139.30	129.90	118.50
142.10		143.30	142.80	142.50		
3625373.80		116.10	136.50	108.00	115.20	114.50
122.80		134.00	143.50	143.10		
3625177.94		114.50	129.90	134.00	125.90	138.00
136.00		143.70	144.90	144.30		
3624982.08		129.20	132.80	140.40	129.60	142.20
144.40		144.30	144.80	143.80		
3624786.22		112.40	130.90	140.80	141.40	143.70
144.90		143.10	143.90	144.70		
3624590.36		128.90	125.80	139.80	146.80	140.40
135.80		136.30	143.60	144.90		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:01:13

PAGE 10

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD					X-COORD (METERS)
(METERS)		494372.98	494567.08	494761.18	

3628507.56		229.10	230.10	216.80	
3628311.70		243.40	239.50	220.40	
3628115.84		250.70	248.30	231.70	
3627919.98		236.60	228.70	231.60	
3627724.12		215.30	186.80	220.90	
3627528.26		166.80	162.70	199.80	
3627332.40		145.10	150.60	186.20	
3627136.54		139.60	142.00	153.50	
3626940.68		132.20	133.30	137.40	
3626744.82		111.80	122.70	128.10	
3626548.96		105.00	107.30	108.60	
3626353.10		134.50	126.00	130.90	
3626157.24		135.10	139.70	118.20	
3625961.38		127.30	140.60	124.00	

3625765.52		138.10	139.50	135.60
3625569.66		141.30	135.60	133.10
3625373.80		142.50	141.20	141.10
3625177.94		143.10	142.00	141.10
3624982.08		141.00	142.30	135.30
3624786.22		143.90	135.50	135.10
3624590.36		141.60	127.80	138.60

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:01:13

PAGE 11

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD		X-COORD (METERS)				
(METERS)		490879.18	491073.28	491267.38	491461.48	491655.58
491849.68		492043.78	492237.88	492431.98		

- - - - -
 - - - - -

3628507.56		126.10	43.20	43.10	88.30	67.50
93.50		95.10	99.80	104.90		
3628311.70		125.30	42.30	49.80	58.60	93.50
93.50		93.50	96.80	99.40		
3628115.84		35.30	45.00	50.40	85.00	90.10
90.50		89.90	94.60	98.40		
3627919.98		34.40	39.40	79.50	89.70	81.40
91.30		100.00	97.40	96.40		
3627724.12		29.60	78.80	80.10	79.70	82.20
89.30		126.80	99.00	251.60		
3627528.26		109.80	79.50	79.50	78.80	82.40
85.80		127.50	127.80	127.80		
3627332.40		111.30	111.30	57.80	66.70	83.00
130.40		134.50	126.80	126.20		
3627136.54		117.50	120.10	131.00	134.50	134.70
134.70		134.70	136.60	136.60		
3626940.68		117.50	120.10	131.00	134.20	134.70
134.70		134.70	136.20	137.40		
3626744.82		111.30	111.30	112.70	118.80	134.20
126.60		126.00	119.90	136.60		
3626548.96		111.30	111.30	119.70	116.10	130.40
134.70		127.20	134.70	134.70		
3626353.10		119.20	109.30	116.30	121.40	120.40
134.70		132.60	133.50	133.80		

```

C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMOD - VERSION 23132 ***
*** AERMET - VERSION 23132 ***
*** 15:01:13

```

```
*** MODELOPTs:      RegDFAULT  CONC  ELEV  RURAL  SigA Data
```

Y-COORD	X-COORD (METERS)			
(METERS)	492626.08	492820.18	493014.28	493208.38
493596.58	493790.68	493984.78	494178.88	

3628507.56		106.80	107.70	252.50	252.50	252.50
252.50		252.50	252.50	252.50		
3628311.70		103.20	106.80	252.50	252.50	252.50
252.50		252.50	252.50	252.50		
3628115.84		100.50	252.50	252.50	252.50	252.50
252.50		252.50	252.50	252.50		
3627919.98		252.10	252.50	252.50	252.50	252.50
252.50		252.50	252.50	239.10		
3627724.12		252.50	122.60	125.30	252.50	252.50
252.50		252.50	252.50	252.50		
3627528.26		127.80	129.10	127.50	130.00	252.50
252.50		252.50	252.50	252.50		
3627332.40		127.80	127.80	121.40	122.00	239.10

252.50	252.50	252.50	258.90			
3627136.54	252.50	252.50	252.50	258.90	252.50	
250.90	244.20	252.50	258.90			
3626940.68	138.70	250.90	252.50	252.50	252.50	
244.20	244.20	258.90	258.90			
3626744.82	123.20	125.30	133.70	134.30	132.80	
251.40	252.10	258.90	258.90			
3626548.96	136.60	125.40	136.20	132.60	132.60	
137.70	133.90	135.10	258.90			
3626353.10	133.90	135.30	137.90	134.20	139.00	
135.00	134.90	135.30	140.40			
3626157.24	130.90	136.40	139.20	138.60	138.90	
140.50	130.10	137.20	139.30			
3625961.38	134.70	139.60	141.20	140.80	139.70	
140.00	133.40	140.10	140.40			
3625765.52	141.20	141.00	141.80	140.70	137.00	
141.00	143.30	142.70	140.40			
3625569.66	142.00	142.20	139.30	140.30	143.10	
142.10	143.30	142.80	142.50			
3625373.80	136.60	136.50	141.60	140.10	142.70	
143.80	134.00	143.50	143.10			
3625177.94	136.00	139.40	140.50	140.40	138.00	
143.70	143.70	144.90	144.30			
3624982.08	129.20	132.80	140.40	143.30	142.20	
144.40	144.30	144.80	143.80			
3624786.22	131.30	130.90	140.80	141.40	143.70	
144.90	143.10	143.90	144.70			
3624590.36	128.90	131.00	139.80	146.80	145.70	
137.70	136.30	143.60	144.90			

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 13

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	494372.98	494567.08	494761.18	X-COORD (METERS)
3628507.56	229.10	230.10	232.70	
3628311.70	251.90	241.80	250.40	
3628115.84	250.70	248.30	246.90	

3627919.98	240.20	248.90	231.60
3627724.12	244.20	258.90	232.50
3627528.26	258.90	258.90	258.90
3627332.40	258.90	258.90	258.90
3627136.54	258.90	258.90	258.90
3626940.68	258.90	258.90	258.90
3626744.82	258.90	258.90	258.90
3626548.96	258.90	258.90	258.90
3626353.10	134.50	140.20	130.90
3626157.24	138.10	139.70	140.80
3625961.38	140.20	140.60	141.00
3625765.52	138.10	139.50	135.60
3625569.66	141.30	135.60	133.10
3625373.80	142.50	141.20	141.10
3625177.94	143.10	142.00	141.10
3624982.08	141.00	142.30	140.70
3624786.22	143.90	142.50	141.10
3624590.36	141.60	142.40	141.20

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 14

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

(492883.2, 3625830.8,	141.7,	141.7,	0.0);	(492919.8,
3625834.6,	142.1,	142.1,	0.0);	
(492955.1, 3625845.5,	142.1,	142.1,	0.0);	(493069.9,
3625832.7,	142.2,	142.2,	0.0);	
(493094.9, 3625832.7,	142.2,	142.2,	0.0);	(493110.9,
3625837.2,	142.1,	142.1,	0.0);	
(493152.0, 3625834.0,	141.9,	141.9,	0.0);	(493166.7,
3625837.9,	141.8,	141.8,	0.0);	
(493187.9, 3625836.6,	141.7,	141.7,	0.0);	(493201.3,
3625836.6,	141.6,	141.6,	0.0);	
(493240.4, 3625836.6,	141.0,	141.0,	0.0);	(492881.3,
3625908.4,	141.6,	141.6,	0.0);	
(492907.0, 3625898.1,	142.3,	142.3,	0.0);	(492901.8,
3625911.6,	141.8,	141.8,	0.0);	
(492928.1, 3625914.8,	141.7,	141.7,	0.0);	(492933.9,
3625898.1,	142.3,	142.3,	0.0);	
(492951.9, 3625908.4,	141.8,	141.8,	0.0);	(492973.7,
3625907.1,	141.3,	141.3,	0.0);	
(492993.5, 3625914.2,	141.0,	141.0,	0.0);	(492996.1,
3625897.5,	141.0,	141.0,	0.0);	

(493016.0, 3625896.8, 141.8, 141.8,	0.0);	(493023.0,
3625912.2, 141.7, 141.7, 0.0);		
(493044.2, 3625907.1, 141.7, 141.7,	0.0);	(493066.7,
3625907.8, 141.0, 141.0, 0.0);		
(493085.2, 3625912.2, 141.4, 141.4,	0.0);	(493087.2,
3625895.6, 141.3, 141.3, 0.0);		
(493109.0, 3625911.6, 141.5, 141.5,	0.0);	(493112.2,
3625897.5, 141.4, 141.4, 0.0);		
(493134.0, 3625902.0, 140.9, 140.9,	0.0);	(492874.3,
3625788.5, 140.9, 140.9, 0.0);		
(492894.1, 3625789.1, 141.3, 141.3,	0.0);	(492910.2,
3625790.4, 141.4, 141.4, 0.0);		
(492930.7, 3625786.5, 141.4, 141.4,	0.0);	(492947.4,
3625791.0, 141.6, 141.6, 0.0);		
(492963.4, 3625787.8, 141.6, 141.6,	0.0);	(492982.6,
3625787.8, 141.6, 141.6, 0.0);		
(493000.0, 3625787.8, 141.7, 141.7,	0.0);	(493021.1,
3625791.0, 141.8, 141.8, 0.0);		
(493036.5, 3625789.1, 141.9, 141.9,	0.0);	(493055.8,
3625789.8, 141.9, 141.9, 0.0);		
(493076.3, 3625787.8, 141.9, 141.9,	0.0);	(493094.9,
3625787.8, 141.9, 141.9, 0.0);		
(493112.8, 3625788.5, 141.8, 141.8,	0.0);	(493129.5,
3625787.2, 141.7, 141.7, 0.0);		
(493148.7, 3625787.2, 141.6, 141.6,	0.0);	(493164.8,
3625790.4, 141.5, 141.5, 0.0);		
(493184.6, 3625789.1, 141.2, 141.2,	0.0);	(493202.0,
3625791.0, 141.1, 141.1, 0.0);		
(493221.2, 3625790.4, 141.0, 141.0,	0.0);	(493238.5,
3625791.0, 140.7, 140.7, 0.0);		
(492780.0, 3626415.0, 129.0, 135.1,	0.0);	(492778.7,
3626388.1, 131.1, 135.1, 0.0);		
(492747.9, 3626386.2, 131.2, 134.8,	0.0);	(492742.2,
3626418.2, 129.7, 129.7, 0.0);		
(492699.2, 3626422.7, 129.8, 129.8,	0.0);	(492697.9,
3626391.9, 131.4, 134.8, 0.0);		
(492678.7, 3626411.8, 131.0, 134.7,	0.0);	(492626.1,
3626426.6, 132.8, 133.6, 0.0);		
(492606.8, 3626435.5, 128.9, 134.1,	0.0);	(492599.2,
3626405.4, 132.5, 132.5, 0.0);		
(492491.2, 3626644.9, 115.1, 116.5,	0.0);	(492517.4,
3626636.7, 113.5, 133.7, 0.0);		
(492521.2, 3626603.4, 117.5, 117.5,	0.0);	(492521.7,
3626582.2, 118.3, 118.3, 0.0);		
(492512.5, 3626553.8, 118.7, 133.7,	0.0);	(492513.5,
3626533.1, 118.0, 133.7, 0.0);		
(492501.0, 3626506.4, 118.3, 133.7,	0.0);	(492490.6,
3626485.7, 120.5, 133.7, 0.0);		
(492479.2, 3626464.4, 122.4, 133.7,	0.0);	(492466.1,
3626447.0, 126.2, 133.2, 0.0);		

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

10.80, 1.54, 3.09, 5.14, 8.23,

PAGE 17

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

```
Upper air station no.:      3190
                        Name: UNKNOWN
                        Year:  2020
```

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD		HT	REF	TA	HT						
20	01	01	1	01	-18.2	0.163	-9.000	-9.000	-999.	158.		21.3	0.10	1.21
1.00		2.82		57.	10.0	283.1	10.0							
20	01	01	1	02	-8.1	0.093	-9.000	-9.000	-999.	70.		8.9	0.12	1.21
1.00		2.06		73.	10.0	282.6	10.0							
20	01	01	1	03	-10.2	0.104	-9.000	-9.000	-999.	80.		9.7	0.10	1.21
1.00		2.37		54.	10.0	283.5	10.0							
20	01	01	1	04	-8.0	0.092	-9.000	-9.000	-999.	67.		8.6	0.10	1.21
1.00		2.10		59.	10.0	283.0	10.0							
20	01	01	1	05	-11.2	0.109	-9.000	-9.000	-999.	86.		10.4	0.12	1.21
1.00		2.41		63.	10.0	282.4	10.0							
20	01	01	1	06	-7.4	0.089	-9.000	-9.000	-999.	64.		8.5	0.12	1.21
1.00		1.97		64.	10.0	282.6	10.0							
20	01	01	1	07	-7.1	0.087	-9.000	-9.000	-999.	61.		8.3	0.12	1.21
1.00		1.92		70.	10.0	282.5	10.0							
20	01	01	1	08	-2.1	0.053	-9.000	-9.000	-999.	29.		6.3	0.14	1.21
0.50		1.12		129.	10.0	282.4	10.0							
20	01	01	1	09	36.2	0.144	0.391	0.005	59.	131.		-7.4	0.17	1.21
0.30		1.03		112.	10.0	286.4	10.0							
20	01	01	1	10	90.0	0.280	0.921	0.005	310.	356.		-21.8	0.14	1.21
0.23		2.46		148.	10.0	289.0	10.0							
20	01	01	1	11	126.8	0.254	1.266	0.005	572.	308.		-11.6	0.16	1.21
0.21		2.01		225.	10.0	290.5	10.0							
20	01	01	1	12	144.1	0.324	1.461	0.005	774.	444.		-21.2	0.16	1.21
0.20		2.77		211.	10.0	291.3	10.0							
20	01	01	1	13	141.4	0.344	1.588	0.005	1011.	485.		-25.8	0.16	1.21
0.20		3.00		210.	10.0	291.2	10.0							
20	01	01	1	14	118.9	0.362	1.554	0.005	1126.	523.		-35.6	0.16	1.21
0.21		3.26		234.	10.0	290.8	10.0							
20	01	01	1	15	77.8	0.368	1.376	0.005	1195.	535.		-56.9	0.16	1.21
0.24		3.44		227.	10.0	290.3	10.0							
20	01	01	1	16	21.2	0.319	0.897	0.005	1212.	434.		-136.4	0.17	1.21
0.33		3.08		244.	10.0	289.4	10.0							
20	01	01	1	17	-7.3	0.092	-9.000	-9.000	-999.	146.		9.7	0.16	1.21
0.61		1.92		236.	10.0	288.2	10.0							
20	01	01	1	18	-8.4	0.098	-9.000	-9.000	-999.	74.		10.0	0.20	1.21
1.00		1.92		193.	10.0	287.3	10.0							
20	01	01	1	19	-6.6	0.086	-9.000	-9.000	-999.	61.		8.6	0.14	1.21
1.00		1.83		140.	10.0	286.6	10.0							
20	01	01	1	20	-2.9	0.057	-9.000	-9.000	-999.	33.		5.7	0.14	1.21
1.00		1.21		144.	10.0	286.2	10.0							
20	01	01	1	21	-3.2	0.060	-9.000	-9.000	-999.	35.		6.0	0.17	1.21
1.00		1.21		99.	10.0	285.3	10.0							
20	01	01	1	22	-5.1	0.075	-9.000	-9.000	-999.	49.		7.3	0.12	1.21
1.00		1.65		76.	10.0	284.8	10.0							
20	01	01	1	23	-2.1	0.048	-9.000	-9.000	-999.	26.		4.8	0.17	1.21
1.00		0.98		99.	10.0	284.5	10.0							

20 01 01 1 24 -4.4 0.069 -9.000 -9.000 -999. 43. 6.6 0.12 1.21
1.00 1.52 78. 10.0 283.8 10.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
20	01	01	01	10.0	1	57.	2.82	283.2	6.0	-99.00	0.29

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

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:01:13

PAGE 18

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
491849.68	492043.78	492237.88	492431.98	491461.48	491655.58

3628507.56	0.77959	0.85068	0.91823	0.98700	1.06422
1.14216	1.23061	1.29446	1.37173		
3628311.70	0.84000	0.93210	1.02608	1.11886	1.21448
1.33078	1.43259	1.50232	1.55523		
3628115.84	0.90189	1.01172	1.13804	1.26948	1.40241
1.55728	1.68790	1.79553	1.87300		
3627919.98	0.97117	1.09597	1.24916	1.42905	1.62862
1.83485	2.01508	2.22939	2.30746		
3627724.12	1.05521	1.19367	1.36871	1.59328	1.87077
2.17578	2.45377	2.82114	2.95516		

3627528.26		1.15229	1.31499	1.51555	1.77729	2.11964
2.55982		3.05072	3.56966	4.04665		
3627332.40		1.24487	1.44185	1.68966	2.00201	2.40931
2.97189		3.77054	4.76272	6.56967		
3627136.54		1.32797	1.55633	1.85189	2.24297	2.77295
3.50870		4.59185	6.31488	8.68362		
3626940.68		1.40736	1.66133	1.99820	2.45980	3.11702
4.09976		5.65708	8.30608	13.43300		
3626744.82		1.55541	1.91426	2.22518	2.76150	3.52883
4.88934		7.16038	11.35826	20.13007		
3626548.96		1.78284	2.18222	2.58633	3.60310	4.30168
5.89996		11.50241	19.47095	33.77167		
3626353.10		1.89402	2.53477	3.14667	3.72425	6.42730
7.14175		14.61549	17.57431	18.48128		
3626157.24		2.05707	2.54927	3.99691	5.39782	7.42062
9.32337		11.72744	14.23449	13.48050		
3625961.38		2.29909	2.82773	3.52168	4.45401	7.20132
8.04689		6.56627	6.38343	6.90525		
3625765.52		2.42533	3.10992	3.52342	4.02186	4.31822
4.37157		4.26653	4.19190	5.55807		
3625569.66		2.44248	2.87335	3.77929	4.10550	3.45215
3.53418		3.05000	3.02148	3.23097		
3625373.80		2.24914	2.42622	2.43831	3.17323	3.16557
3.10162		2.51041	2.64344	3.24965		
3625177.94		1.89819	2.42502	2.36642	2.00679	2.46661
2.44509		2.39756	1.95368	2.57267		
3624982.08		1.58218	1.95372	1.85074	1.95985	1.96943
1.97999		1.98961	1.77104	2.18373		
3624786.22		1.57629	1.38143	1.60969	1.62872	1.63902
1.64227		1.68410	1.57543	1.65963		
3624590.36		1.31389	1.30524	1.23243	1.33104	1.36166
1.38990		1.44810	1.51212	1.52986		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:01:13

PAGE 19

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48	
493596.58	493790.68	493984.78	494178.88			

- - - - -

3628507.56	1.40747	1.39955	1.22795	1.30888	1.29499
1.32045	0.96467	0.28282	0.05309		
3628311.70	1.61130	1.64011	1.43538	1.38348	1.53357
1.57171	0.86326	0.16326	0.04706		
3628115.84	1.91921	1.82565	1.77195	2.15167	1.99836
1.85968	0.63838	0.15457	0.05350		
3627919.98	2.33113	2.30557	2.18800	2.66246	1.54750
1.53220	0.53506	0.10488	0.06046		
3627724.12	3.05612	3.97430	3.72616	3.29934	2.51953
1.45995	0.43913	0.14455	0.08089		
3627528.26	4.69342	4.21030	4.89677	2.92825	2.45729
3.23342	0.80397	0.29463	0.14823		
3627332.40	6.48950	6.34149	6.92448	6.13459	2.63262
1.35761	0.64190	0.36889	0.38843		
3627136.54	10.77236	10.83002	8.96606	6.71070	4.93399
4.57504	0.91254	0.78354	1.24713		
3626940.68	22.43912	24.50234	16.41726	9.80473	6.29288
4.92089	4.17936	2.85630	1.98087		
3626744.82	55.72733	132.89802	31.95537	13.95318	8.86516
5.19900	3.75811	2.88272	2.38849		
3626548.96	89.22196	124.36805	50.16655	16.09072	8.59173
6.71314	5.51023	3.96716	2.56716		
3626353.10	13.71412	12.11386	24.33221	14.00874	9.38200
7.17364	5.02473	3.68398	3.12371		
3626157.24	10.84628	6.37500	9.47754	5.83563	5.50866
7.79560	6.32697	3.62824	2.51461		
3625961.38	7.96911	3.24641	3.09302	3.62183	3.73039
3.60293	4.96188	3.16775	2.63183		
3625765.52	5.50235	2.24605	2.30206	2.68484	3.75961
2.59971	2.19489	2.13665	2.44758		
3625569.66	3.56632	3.86360	2.33075	3.95465	3.95995
1.99869	1.79239	1.87441	1.76713		
3625373.80	3.18610	2.29780	2.81182	3.03692	2.93897
3.09614	2.55586	1.50264	1.55413		
3625177.94	2.51389	2.49407	2.13418	2.62947	1.84496
2.13501	1.37418	1.14900	1.23752		
3624982.08	2.15105	1.92797	1.26960	2.09376	1.21457

1.08261	1.19492	1.09499	1.07827			
3624786.22		1.71422	1.71703	1.08225	1.15013	0.97132
0.92154	1.10408	1.09393	0.95546			
3624590.36		1.55314	1.57985	1.02028	0.71283	1.05214
1.29892	1.30303	1.00182	0.91077			

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:01:13

PAGE 20

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002

, L0000003	, L0000004	, L0000005	,			
	L0000006	, L0000007	, L0000008	, L0000009	, L0000010	
, L0000011	, L0000012	, L0000013	,			
	L0000014	, L0000015	, L0000016	, L0000017	, L0000018	
, L0000019	, L0000020	, L0000021	,			
	L0000022	, L0000023	, L0000024	, L0000025	, L0000026	
, L0000027	, L0000028	, . . .	,			

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

*** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)				X-COORD (METERS)
	494372.98	494567.08	494761.18	
3628507.56	0.03845	0.03698	0.03770	
3628311.70	0.04079	0.04040	0.04136	
3628115.84	0.04658	0.04443	0.04288	
3627919.98	0.05494	0.05095	0.04585	
3627724.12	0.06531	0.07360	0.05193	
3627528.26	0.13352	0.13750	0.06552	
3627332.40	0.40366	0.25620	0.08102	
3627136.54	0.71094	0.53620	0.22330	
3626940.68	1.41568	1.15108	0.79768	
3626744.82	2.10399	1.95112	1.52769	
3626548.96	2.12471	1.81324	1.56280	
3626353.10	2.05153	2.20721	1.59660	
3626157.24	2.41609	1.60476	1.93407	
3625961.38	3.06093	1.79465	2.09909	
3625765.52	2.54084	2.03130	1.97466	

3625569.66	1.85755	2.29421	2.14853
3625373.80	1.49132	1.53991	1.52846
3625177.94	1.33982	1.32198	1.30681
3624982.08	1.30972	1.22089	1.46287
3624786.22	0.94952	1.37584	1.35861
3624590.36	0.98390	1.27904	1.09708

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 21

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	2.25657	492919.80
3625834.65	2.24665		
492955.07	3625845.55	2.38089	493069.86
3625832.73	2.41595		
493094.87	3625832.73	2.43479	493110.90
3625837.21	2.48371		
493151.95	3625834.01	2.56828	493166.70
3625837.86	2.62803		
493187.86	3625836.57	2.70335	493201.33
3625836.57	2.75358		
493240.44	3625836.57	2.97795	492881.32
3625908.40	2.49643		
492906.98	3625898.14	2.37189	492901.84
3625911.60	2.52985		
492928.14	3625914.81	2.65083	492933.91

3625898.14	2.46231		
492951.87	3625908.40	2.64959	492973.67
3625907.11	2.80876		
492993.55	3625914.17	2.94955	492996.11
3625897.50	2.89368		
493015.99	3625896.85	2.67172	493023.05
3625912.24	2.77399		
493044.21	3625907.11	2.76487	493066.66
3625907.76	2.97173		
493085.25	3625912.24	2.91306	493087.18
3625895.57	2.86346		
493108.98	3625911.60	2.91859	493112.19
3625897.50	2.88219		
493133.99	3625901.98	3.08957	492874.27
3625788.48	2.31151		
492894.15	3625789.12	2.25324	492910.18
3625790.40	2.26066		
492930.70	3625786.55	2.28970	492947.38
3625791.04	2.31807		
492963.41	3625787.84	2.34147	492982.65
3625787.84	2.36395		
492999.96	3625787.84	2.36802	493021.12
3625791.04	2.36606		
493036.52	3625789.12	2.35840	493055.75
3625789.76	2.35805		
493076.28	3625787.84	2.35760	493094.87
3625787.84	2.36639		
493112.83	3625788.48	2.39636	493129.50
3625787.19	2.42959		
493148.74	3625787.19	2.47898	493164.77
3625790.40	2.53189		
493184.65	3625789.12	2.60839	493201.97
3625791.04	2.67045		
493221.21	3625790.40	2.73820	493238.52
3625791.04	2.84785		
492780.00	3626415.01	31.78964	492778.72
3626388.08	22.24684		
492747.94	3626386.16	21.53781	492742.16
3626418.22	30.28513		
492699.20	3626422.71	30.07545	492697.92
3626391.93	21.06967		
492678.68	3626411.81	24.02721	492626.09
3626426.56	21.75518		
492606.85	3626435.54	36.78315	492599.16
3626405.39	21.37807		
492491.20	3626644.88	36.22947	492517.36
3626636.70	42.57212		
492521.18	3626603.45	52.17795	492521.72
3626582.19	57.40481		
492512.46	3626553.84	58.43092	492513.55

3626533.13	57.97158			
492501.01	3626506.42	53.78743		492490.65
3626485.70	53.77743			
492479.21	3626464.45	51.81519		492466.12
3626447.00	46.78634			
492447.59	3626418.66	31.71226		492431.78
3626430.65	33.24659			
492481.93	3626620.35	38.19280		492482.48
3626594.18	43.27918			
492479.21	3626572.92	46.36229		492477.02
3626546.76	49.37247			
492467.76	3626523.32	48.06716		492463.94
3626507.51	48.43936			
492450.86	3626492.79	48.73752		492427.42
3626474.80	45.01410			

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 22

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	32.15973	492823.25
3626567.17	157.12635		
492838.34	3626526.92	97.86873	493039.78
3625834.45	2.46334		
492743.19	3626628.92	468.69528	492731.11
3626741.92	139.31633		

492774.75	3626728.05	243.29535	492674.05
3626738.96	90.58000		
492708.49	3626698.47	195.87931	492703.25
3626652.75	319.09852		
492723.78	3626582.16	186.66318	492761.18
3626553.82	127.41450		
493013.27	3625844.49	2.52458	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:01:13

PAGE 23

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

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

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

**

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56		0.28979	0.28696	0.29309	0.33443	0.31624
0.32969		0.32679	0.27955	0.35310		
3628311.70		0.32638	0.33608	0.34449	0.33175	0.38997
0.41267		0.40415	0.35468	0.37213		
3628115.84		0.33451	0.36997	0.38884	0.37631	0.43956
0.45586		0.51251	0.43956	0.39441		
3627919.98		0.32896	0.39055	0.44953	0.47727	0.46808
0.56950		0.56774	0.58819	0.47461		
3627724.12		0.33508	0.34831	0.45962	0.54145	0.62219
0.56161		0.66352	0.74691	0.58512		
3627528.26		0.47488	0.44669	0.43197	0.53422	0.64945
0.73339		0.70788	0.80906	0.85735		
3627332.40		0.49375	0.54836	0.61506	0.57047	0.59627
0.73807		0.91404	1.03410	1.35378		
3627136.54		0.62369	0.63970	0.67912	0.70784	0.80926
0.76575		0.94038	1.21696	1.44530		
3626940.68		0.65173	0.72677	0.83281	0.95441	1.02076
1.10081		1.24679	1.27984	1.87902		

3626744.82	0.69703	0.86009	0.88743	1.03747	1.12734
1.56986	2.12249	2.66122	2.77274		
3626548.96	0.89599	1.06402	1.11705	1.44610	1.55680
1.74221	2.61891	3.65397	5.77003		
3626353.10	1.01691	1.32408	1.53145	1.65562	2.15379
2.20182	3.41467	5.01742	9.18454		
3626157.24	0.98218	1.19507	1.69105	2.02127	2.59570
3.30447	4.18372	5.58045	6.20874		
3625961.38	1.14737	1.39982	1.66180	2.13785	2.90175
3.32643	3.72300	3.49507	3.11128		
3625765.52	1.34666	1.74759	1.86369	1.91494	2.30461
2.53837	2.39415	2.16380	2.20298		
3625569.66	1.36944	1.70914	2.08181	2.46759	2.26228
2.19409	1.64101	1.48647	1.59524		
3625373.80	1.50588	1.70499	1.72184	2.05020	1.93221
1.80546	1.41057	1.39124	1.50132		
3625177.94	1.44595	1.75918	1.65635	1.45288	1.55102
1.32112	1.23752	1.07764	1.21039		
3624982.08	1.20682	1.39280	1.37530	1.30872	1.17435
1.07072	1.05502	0.98599	1.10418		
3624786.22	1.30011	1.15610	1.11119	1.09197	0.95029
0.94879	0.94925	0.92763	0.93484		
3624590.36	1.03425	0.97091	0.89673	0.85389	0.86487
0.80782	0.84816	0.83876	0.86758		

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:01:13

PAGE 24

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

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

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

Y-COORD (METERS)	X-COORD (METERS)				
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	0.38333	0.34620	0.29889	0.32786	0.27008
0.26282	0.21520	0.27039	0.14551		

3628311.70	0.43545	0.39000	0.34176	0.33853	0.31196
0.28636	0.24307	0.32920	0.11965		
3628115.84	0.50830	0.40260	0.40300	0.42949	0.36094
0.29702	0.33634	0.33596	0.13563		
3627919.98	0.53747	0.48044	0.45040	0.48141	0.39880
0.35717	0.38349	0.24373	0.15301		
3627724.12	0.63464	0.72444	0.68830	0.54505	0.40762
0.46454	0.42725	0.33628	0.19367		
3627528.26	0.89671	0.75687	0.82955	0.63853	0.56924
0.50585	0.46061	0.46850	0.32857		
3627332.40	1.05267	1.04118	1.04237	0.76620	0.71601
0.60151	0.56555	0.56453	0.46965		
3627136.54	1.45123	1.32413	1.07327	0.86067	0.74532
0.77531	0.69773	0.53262	0.45003		
3626940.68	2.51836	2.27946	1.65756	1.25607	1.16347
0.92181	0.76889	0.62256	0.55474		
3626744.82	5.50646	6.32086	3.94899	2.75995	1.71605
1.10553	0.89471	0.74616	0.68400		
3626548.96	12.34418	108.75133	13.00283	5.89630	3.17667
2.09430	1.66232	1.30281	0.98766		
3626353.10	16.24228	14.24360	16.93885	12.14708	6.02443
3.56797	2.41754	1.82846	1.40537		
3626157.24	5.35092	5.93131	7.03623	6.44808	5.80596
4.84259	3.41558	2.51781	1.87742		
3625961.38	3.05718	3.53847	4.07388	4.44593	3.95329
3.53927	3.43580	2.93250	2.31321		
3625765.52	2.22515	2.54865	2.81257	2.96029	2.88474
2.87721	2.63948	2.47924	2.34739		
3625569.66	1.68356	1.77996	2.11376	2.11071	2.38997
2.18845	2.16567	1.99323	1.88849		
3625373.80	1.56110	1.59801	1.42715	1.51603	1.56999
1.92200	1.63358	1.78981	1.66528		
3625177.94	1.31086	1.31321	1.28322	1.40864	1.38470
1.60108	1.51396	1.39552	1.46667		
3624982.08	1.11573	1.10594	1.10441	1.19404	1.11325
1.17229	1.40702	1.24531	1.12105		
3624786.22	0.93803	0.97549	0.96952	1.02096	0.93423
0.95637	1.10632	1.15737	1.04797		
3624590.36	0.88890	0.88663	0.84087	0.89559	0.79965
0.74950	0.78435	0.97525	0.93443		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:01:13

PAGE 25

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)			X-COORD (METERS)
	494372.98	494567.08	494761.18

3628507.56	0.09634	0.09070	0.08905
3628311.70	0.10451	0.09646	0.09708
3628115.84	0.11090	0.10684	0.10474
3627919.98	0.13085	0.12493	0.11683
3627724.12	0.16208	0.19724	0.13978
3627528.26	0.32441	0.30451	0.14728
3627332.40	0.38152	0.37292	0.19445
3627136.54	0.43117	0.39360	0.38821
3626940.68	0.48005	0.43540	0.40137
3626744.82	0.62036	0.60183	0.53420
3626548.96	0.86182	0.75118	0.66084
3626353.10	1.22210	1.06578	0.89509
3626157.24	1.41086	1.17643	0.99430
3625961.38	1.92109	1.55538	1.32967
3625765.52	2.00696	1.72367	1.48233
3625569.66	1.91329	1.79000	1.50972
3625373.80	1.55069	1.49460	1.49391
3625177.94	1.36024	1.25156	1.24296
3624982.08	1.24588	1.11470	1.01072
3624786.22	0.95541	1.01489	0.99870
3624590.36	0.83836	0.83501	0.87476

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:01:13

PAGE 26

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

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

	492883.25	3625830.80	2.82040	492919.80
3625834.65		2.87158		
	492955.07	3625845.55	3.07875	493069.86
3625832.73		3.17878		
	493094.87	3625832.73	3.20169	493110.90
3625837.21		3.29580		
	493151.95	3625834.01	3.24614	493166.70
3625837.86		3.28164		
	493187.86	3625836.57	3.42858	493201.33
3625836.57		3.47576		
	493240.44	3625836.57	3.60717	492881.32
3625908.40		3.21359		
	492906.98	3625898.14	3.22088	492901.84
3625911.60		3.32312		
	492928.14	3625914.81	3.45363	492933.91
3625898.14		3.34301		
	492951.87	3625908.40	3.48048	492973.67
3625907.11		3.50223		
	492993.55	3625914.17	3.61313	492996.11
3625897.50		3.51063		
	493015.99	3625896.85	3.55005	493023.05
3625912.24		3.66007		
	493044.21	3625907.11	3.59274	493066.66
3625907.76		3.68013		
	493085.25	3625912.24	3.73893	493087.18
3625895.57		3.62535		
	493108.98	3625911.60	3.76016	493112.19
3625897.50		3.66230		
	493133.99	3625901.98	3.72789	492874.27
3625788.48		2.64061		
	492894.15	3625789.12	2.68959	492910.18
3625790.40		2.67113		
	492930.70	3625786.55	2.74047	492947.38
3625791.04		2.77983		
	492963.41	3625787.84	2.82237	492982.65
3625787.84		2.84886		
	492999.96	3625787.84	2.87718	493021.12
3625791.04		2.98595		
	493036.52	3625789.12	2.93595	493055.75
3625789.76		2.95422		
	493076.28	3625787.84	2.95180	493094.87
3625787.84		2.97009		
	493112.83	3625788.48	2.98407	493129.50
3625787.19		2.99577		

493148.74	3625787.19	3.05417	493164.77
3625790.40	3.01810		
493184.65	3625789.12	3.02877	493201.97
3625791.04	3.09598		
493221.21	3625790.40	3.15214	493238.52
3625791.04	3.22423		
492780.00	3626415.01	23.73468	492778.72
3626388.08	18.18620		
492747.94	3626386.16	18.88758	492742.16
3626418.22	27.27188		
492699.20	3626422.71	28.27534	492697.92
3626391.93	21.99572		
492678.68	3626411.81	24.95849	492626.09
3626426.56	21.47087		
492606.85	3626435.54	19.66028	492599.16
3626405.39	18.54161		
492491.20	3626644.88	5.68778	492517.36
3626636.70	6.24269		
492521.18	3626603.45	7.05621	492521.72
3626582.19	7.62467		
492512.46	3626553.84	8.10131	492513.55
3626533.13	8.81255		
492501.01	3626506.42	9.08056	492490.65
3626485.70	9.39411		
492479.21	3626464.45	9.60660	492466.12
3626447.00	9.36765		
492447.59	3626418.66	9.12848	492431.78
3626430.65	8.31953		
492481.93	3626620.35	5.91312	492482.48
3626594.18	6.31735		
492479.21	3626572.92	6.71095	492477.02
3626546.76	7.27785		
492467.76	3626523.32	7.53745	492463.94
3626507.51	7.88839		
492450.86	3626492.79	7.83873	492427.42
3626474.80	7.66950		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:01:13

PAGE 27

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
492402.89	3626460.63	7.07228	492823.25	
3626567.17	81.22256			
492838.34	3626526.92	112.42408	493039.78	
3625834.45	3.16024			
492743.19	3626628.92	16.41394	492731.11	
3626741.92	7.79449			
492774.75	3626728.05	8.75533	492674.05	
3626738.96	6.94367			
492708.49	3626698.47	9.35132	492703.25	
3626652.75	11.58877			
492723.78	3626582.16	22.42104	492761.18	
3626553.82	43.12088			
493013.27	3625844.49	3.18324		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:01:13

PAGE 28

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)	Y-COORD (METERS)	CONC	X-COORD (METERS)	Y-COORD (METERS)	CONC
491849.68	490879.18	491073.28	491267.38	491461.48	491655.58	
492043.78	492237.88	492431.98				
3628507.56	0.19588	0.21880	0.23532	0.23619	0.25745	
0.25350	0.24037	0.20846	0.24338			
3628311.70	0.21730	0.22590	0.25745	0.25975	0.28322	
0.28674	0.28788	0.24844	0.25856			

3628115.84		0.25409	0.25146	0.26915	0.30551	0.29831
0.32966		0.32206	0.29589	0.27852		
3627919.98		0.28206	0.29108	0.28211	0.31734	0.34239
0.36838		0.36795	0.35404	0.29798		
3627724.12		0.30721	0.32721	0.33350	0.33391	0.37992
0.39513		0.42146	0.41883	0.33782		
3627528.26		0.31207	0.34674	0.38076	0.39357	0.39289
0.44654		0.46804	0.47808	0.43298		
3627332.40		0.28649	0.35443	0.41027	0.45347	0.45079
0.46920		0.51995	0.57281	0.59046		
3627136.54		0.30115	0.32434	0.39750	0.48517	0.52850
0.53169		0.56531	0.61657	0.64933		
3626940.68		0.39441	0.38919	0.38491	0.44122	0.55847
0.63803		0.64901	0.72112	0.79381		
3626744.82		0.41285	0.48650	0.51229	0.48725	0.51894
0.68879		0.85131	0.89926	0.94194		
3626548.96		0.49977	0.53715	0.56578	0.65703	0.67997
0.66756		0.94026	1.18686	1.20178		
3626353.10		0.54943	0.63623	0.71354	0.75753	0.90586
0.90444		1.08378	1.29642	1.82532		
3626157.24		0.54700	0.62968	0.76726	0.90179	1.09619
1.24435		1.42136	1.80087	2.00946		
3625961.38		0.57919	0.65066	0.76895	0.89161	1.10532
1.32554		1.54446	2.03257	2.89153		
3625765.52		0.76481	0.90766	1.07253	1.24347	1.49697
1.80177		2.29157	3.03697	4.76919		
3625569.66		0.89978	1.07337	1.29439	1.54285	1.75936
2.18916		2.78116	4.06735	6.05983		
3625373.80		0.96045	1.16054	1.37229	1.88627	2.50798
3.20663		3.56713	4.58677	5.38791		
3625177.94		1.16724	1.59391	1.89955	2.18646	2.78308
3.29155		3.71335	3.12388	3.18519		
3624982.08		1.43051	1.77169	1.97042	2.29402	2.72113
2.80295		2.63906	2.14836	2.05352		
3624786.22		1.51827	1.69327	2.04254	2.28618	2.16081
2.10168		1.88610	1.51989	1.50174		
3624590.36		1.53090	1.74955	1.76487	1.75014	1.66964
1.60499		1.40853	1.33579	1.27897		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:01:13

PAGE 29

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48	
493596.58	493790.68	493984.78	494178.88			

3628507.56	0.27894	0.24441	0.21078	0.19851	0.20349
0.20036	0.17549	0.17765	0.11292		
3628311.70	0.29754	0.28518	0.23129	0.22222	0.22582
0.21727	0.20579	0.19991	0.07453		
3628115.84	0.33309	0.29322	0.26139	0.27397	0.26998
0.23664	0.23848	0.21278	0.07934		
3627919.98	0.34607	0.34324	0.29945	0.30921	0.31552
0.26014	0.26791	0.26291	0.10056		
3627724.12	0.37994	0.45392	0.38595	0.34398	0.31982
0.30258	0.28160	0.27221	0.16862		
3627528.26	0.44728	0.46038	0.43606	0.42239	0.39605
0.31979	0.28432	0.27842	0.33550		
3627332.40	0.47978	0.54768	0.49982	0.47012	0.44304
0.38236	0.31406	0.34272	0.28665		
3627136.54	0.54555	0.61589	0.53771	0.48971	0.40479
0.38271	0.41855	0.37992	0.30690		
3626940.68	0.71533	0.73408	0.66559	0.59908	0.48514
0.41055	0.45016	0.34234	0.34019		
3626744.82	1.05338	0.96025	0.89451	0.78186	0.60932
0.52960	0.43724	0.38773	0.34639		
3626548.96	1.34338	1.39046	1.24590	1.11772	0.84734
0.64055	0.58056	0.51104	0.43877		
3626353.10	2.15961	2.27416	1.88909	1.51637	1.20605
0.96986	0.83960	0.59872	0.46713		
3626157.24	2.91868	4.27781	4.03158	2.75009	2.05076
1.36153	0.99707	0.79025	0.69238		
3625961.38	4.67305	8.05215	12.57255	7.62526	3.35796
1.96631	1.36849	1.10629	0.95789		
3625765.52	8.12736	28.47545	46.24789	25.82185	7.55679
3.91811	2.62360	1.95773	1.55194		
3625569.66	8.76498	7.83973	10.29936	10.64646	8.14672
6.06859	3.68649	2.54467	1.82094		
3625373.80	4.18261	4.31217	3.90185	4.51655	4.39063
4.27344	4.17346	3.29114	2.58648		
3625177.94	2.46528	2.74363	2.93863	3.13972	3.62777
3.23229	3.12881	3.01656	2.75672		
3624982.08	2.03196	2.12023	2.27357	2.41097	2.54220
2.59774	2.50387	2.32937	2.22366		

3624786.22		1.49386	1.77880	1.84083	1.98526	1.99741
2.22392		2.00111	2.01075	1.86243		
3624590.36		1.36017	1.40121	1.50828	1.55943	1.61343
1.62853		1.86522	1.59049	1.65695		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 30

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)					X-COORD (METERS)
		494372.98	494567.08	494761.18	

3628507.56		0.05619	0.06943	0.07656
3628311.70		0.07063	0.07663	0.07988
3628115.84		0.08866	0.08699	0.07337
3627919.98		0.10574	0.09698	0.07556
3627724.12		0.13369	0.16037	0.09814
3627528.26		0.28600	0.24844	0.12854
3627332.40		0.26653	0.23538	0.18314
3627136.54		0.29960	0.28558	0.23827
3626940.68		0.31481	0.29081	0.30949
3626744.82		0.35769	0.31293	0.26510
3626548.96		0.33449	0.30054	0.28396
3626353.10		0.45978	0.38600	0.36592
3626157.24		0.56789	0.50291	0.39115
3625961.38		0.73202	0.72791	0.58366
3625765.52		1.18169	1.01137	0.77443
3625569.66		1.45629	1.13522	0.96326
3625373.80		2.00201	1.53900	1.24019
3625177.94		2.27077	1.93405	1.52617
3624982.08		2.22641	2.02096	1.69908
3624786.22		1.72144	1.75620	1.72411
3624590.36		1.55702	1.31157	1.40776

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:01:13

PAGE 31

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	29.32408	492919.80
3625834.65	34.02772		
492955.07	3625845.55	24.61279	493069.86
3625832.73	104.37471		
493094.87	3625832.73	68.58691	493110.90
3625837.21	43.04331		
493151.95	3625834.01	27.86336	493166.70
3625837.86	22.57731		
493187.86	3625836.57	18.77872	493201.33
3625836.57	16.71680		
493240.44	3625836.57	12.82748	492881.32
3625908.40	12.62236		
492906.98	3625898.14	14.39100	492901.84
3625911.60	13.52802		
492928.14	3625914.81	14.48502	492933.91
3625898.14	15.41414		
492951.87	3625908.40	15.37192	492973.67
3625907.11	16.09717		
492993.55	3625914.17	16.93656	492996.11
3625897.50	17.51980		
493015.99	3625896.85	21.80806	493023.05
3625912.24	19.61069		
493044.21	3625907.11	21.21187	493066.66
3625907.76	21.68297		
493085.25	3625912.24	17.95507	493087.18
3625895.57	23.76327		
493108.98	3625911.60	17.01445	493112.19
3625897.50	19.32664		
493133.99	3625901.98	16.28261	492874.27
3625788.48	38.36979		

492894.15	3625789.12	44.42750	492910.18
3625790.40	48.88805		
492930.70	3625786.55	51.56574	492947.38
3625791.04	54.95082		
492963.41	3625787.84	50.39496	492982.65
3625787.84	51.22654		
492999.96	3625787.84	58.24440	493021.12
3625791.04	78.47407		
493036.52	3625789.12	80.12173	493055.75
3625789.76	85.24800		
493076.28	3625787.84	86.28154	493094.87
3625787.84	77.03139		
493112.83	3625788.48	57.98634	493129.50
3625787.19	50.03636		
493148.74	3625787.19	41.37317	493164.77
3625790.40	35.25945		
493184.65	3625789.12	29.17839	493201.97
3625791.04	24.76927		
493221.21	3625790.40	20.85268	493238.52
3625791.04	17.66427		
492780.00	3626415.01	1.94262	492778.72
3626388.08	2.09457		
492747.94	3626386.16	2.13559	492742.16
3626418.22	1.98703		
492699.20	3626422.71	1.97406	492697.92
3626391.93	2.10233		
492678.68	3626411.81	2.01261	492626.09
3626426.56	1.91171		
492606.85	3626435.54	1.81247	492599.16
3626405.39	1.92338		
492491.20	3626644.88	1.18416	492517.36
3626636.70	1.21786		
492521.18	3626603.45	1.28664	492521.72
3626582.19	1.31151		
492512.46	3626553.84	1.35557	492513.55
3626533.13	1.38178		
492501.01	3626506.42	1.40547	492490.65
3626485.70	1.44812		
492479.21	3626464.45	1.50091	492466.12
3626447.00	1.56374		
492447.59	3626418.66	1.68274	492431.78
3626430.65	1.62496		
492481.93	3626620.35	1.21447	492482.48
3626594.18	1.25617		
492479.21	3626572.92	1.28453	492477.02
3626546.76	1.31394		
492467.76	3626523.32	1.34700	492463.94
3626507.51	1.36181		
492450.86	3626492.79	1.39817	492427.42
3626474.80	1.46135		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:01:13

PAGE 32

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: STCK2
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	1.54147	492823.25
3626567.17	1.33111		
492838.34	3626526.92	1.44492	493039.78
3625834.45	156.36088		
492743.19	3626628.92	1.23533	492731.11
3626741.92	0.98843		
492774.75	3626728.05	1.00739	492674.05
3626738.96	1.06542		
492708.49	3626698.47	1.12051	492703.25
3626652.75	1.23532		
492723.78	3626582.16	1.39703	492761.18
3626553.82	1.42060		
493013.27	3625844.49	107.83633	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:01:13

PAGE 33

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,

, L0000019 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	1.26527	1.35643	1.44664	1.55762	1.63791
1.72535	1.79777	1.78247	1.96821		
3628311.70	1.38368	1.49408	1.62802	1.71036	1.88767
2.03020	2.12462	2.10544	2.18592		
3628115.84	1.49050	1.63315	1.79604	1.95130	2.14028
2.34280	2.52247	2.53098	2.54593		
3627919.98	1.58219	1.77761	1.98081	2.22366	2.43909
2.77273	2.95077	3.17162	3.08004		
3627724.12	1.69750	1.86918	2.16183	2.46864	2.87288
3.13252	3.53876	3.98689	3.87809		
3627528.26	1.93924	2.10842	2.32828	2.70508	3.16199
3.73975	4.22664	4.85679	5.33698		
3627332.40	2.02511	2.34464	2.71499	3.02595	3.45636
4.17916	5.20453	6.36964	8.51392		
3627136.54	2.25282	2.52037	2.92851	3.43597	4.11071
4.80615	6.09754	8.14841	10.77825		
3626940.68	2.45349	2.77730	3.21592	3.85542	4.69625
5.83859	7.55288	10.30705	16.10583		
3626744.82	2.66529	3.26085	3.62491	4.28622	5.17511
7.14799	10.13419	14.91874	23.84475		
3626548.96	3.17860	3.78339	4.26917	5.70623	6.53845
8.30973	15.06157	24.31178	40.74349		
3626353.10	3.46036	4.49508	5.39167	6.13740	9.48695
10.24800	19.11395	23.88814	29.49114		
3626157.24	3.58625	4.37402	6.45522	8.32088	11.11251
13.87219	17.33252	21.61581	21.69870		
3625961.38	4.02565	4.87821	5.95244	7.48348	11.20839
12.69887	11.83373	11.91107	12.90806		
3625765.52	4.53679	5.76516	6.45964	7.18027	8.11980
8.71171	8.95226	9.39267	12.53024		
3625569.66	4.71170	5.65587	7.15549	8.11594	7.47379
7.91744	7.47216	8.57531	10.88604		
3625373.80	4.71548	5.29175	5.53244	7.10969	7.60576

8.11371	7.48811	8.62145	10.13887			
3625177.94		4.51138	5.77812	5.92231	5.64613	6.80071
7.05776	7.34844	6.15520	6.96825			
3624982.08		4.21951	5.11821	5.19645	5.56258	5.86491
5.85365	5.68369	4.90539	5.34144			
3624786.22		4.39467	4.23080	4.76342	5.00686	4.75012
4.69274	4.51946	4.02295	4.09622			
3624590.36		3.87905	4.02569	3.89403	3.93507	3.89617
3.80270	3.70478	3.68667	3.67641			

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:01:13

PAGE 34

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD					X-COORD (METERS)	
(METERS)		492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88			

- - - - -
 - - - - -

3628507.56		2.06974	1.99016	1.73762	1.83525	1.76856
1.78363	1.35536	0.73086	0.31152			
3628311.70		2.34429	2.31529	2.00843	1.94423	2.07135
2.07534	1.31212	0.69237	0.24124			
3628115.84		2.76060	2.52147	2.43633	2.85513	2.62928
2.39334	1.21319	0.70331	0.26848			
3627919.98		3.21467	3.12925	2.93786	3.45308	2.26182
2.14951	1.18646	0.61153	0.31402			
3627724.12		4.07070	5.15266	4.80041	4.18838	3.24697
2.22708	1.14798	0.75305	0.44318			

3627528.26		6.03741	5.42754	6.16239	3.98917	3.42258
4.05906		1.54890	1.04155	0.81230		
3627332.40		8.02195	7.93035	8.46667	7.37092	3.79167
2.34147		1.52150	1.27614	1.14473		
3627136.54		12.76913	12.77004	10.57704	8.06108	6.08409
5.73306		2.02882	1.69608	2.00405		
3626940.68		25.67280	27.51588	18.74040	11.65988	7.94149
6.25325		5.39841	3.82120	2.87581		
3626744.82		62.28717	140.17913	36.79887	17.49499	11.19053
6.83414		5.09006	4.01660	3.41888		
3626548.96		102.90953	234.50985	64.41528	23.10474	12.61574
9.44798		7.75311	5.78101	3.99359		
3626353.10		32.11601	28.63162	43.16015	27.67218	16.61248
11.71148		8.28187	6.11115	4.99621		
3626157.24		19.11588	16.58412	20.54535	15.03379	13.36538
13.99972		10.73962	6.93630	5.08440		
3625961.38		15.69934	14.83702	19.73945	15.69303	11.04164
9.10851		9.76617	7.20654	5.90293		
3625765.52		15.85485	33.27015	51.36252	31.46698	14.20114
9.39503		7.45797	6.57362	6.34691		
3625569.66		14.01487	13.48329	14.74386	16.71182	14.49664
10.25573		7.64455	6.41231	5.47656		
3625373.80		8.92982	8.20798	8.14082	9.06950	8.89959
9.29158		8.36291	6.58359	5.80589		
3625177.94		6.29003	6.55091	6.35603	7.17783	6.85744
6.96837		6.01696	5.56108	5.46091		
3624982.08		5.29874	5.15414	4.64758	5.69877	4.87002
4.85263		5.10582	4.66967	4.42298		
3624786.22		4.14611	4.47132	3.89261	4.15635	3.90295
4.10183		4.21150	4.26205	3.86585		
3624590.36		3.80222	3.86769	3.36942	3.16785	3.46523
3.67695		3.95260	3.56755	3.50216		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:01:13

PAGE 35

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): L0000001 , L0000002

, L0000003	, L0000004	, L0000005	,			
	L0000006	, L0000007	, L0000008	, L0000009	, L0000010	
, L0000011	, L0000012	, L0000013	,			
	L0000014	, L0000015	, L0000016	, L0000017	, L0000018	
, L0000019	, L0000020	, L0000021	,			
	L0000022	, L0000023	, L0000024	, L0000025	, L0000026	
, L0000027	, L0000028	, . . .	,			

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)

494372.98	494567.08	494761.18

3628507.56	0.19098	0.19711	0.20331
3628311.70	0.21594	0.21349	0.21832
3628115.84	0.24614	0.23827	0.22099
3627919.98	0.29153	0.27286	0.23824
3627724.12	0.36108	0.43121	0.28986
3627528.26	0.74392	0.69045	0.34133
3627332.40	1.05171	0.86451	0.45860
3627136.54	1.44170	1.21539	0.84978
3626940.68	2.21054	1.87729	1.50853
3626744.82	3.08204	2.86588	2.32700
3626548.96	3.32102	2.86496	2.50760
3626353.10	3.73342	3.65899	2.85761
3626157.24	4.39483	3.28410	3.31953
3625961.38	5.71405	4.07793	4.01242
3625765.52	5.72949	4.76634	4.23142
3625569.66	5.22713	5.21943	4.62151
3625373.80	5.04402	4.57351	4.26255
3625177.94	4.97084	4.50759	4.07594
3624982.08	4.78200	4.35654	4.17267
3624786.22	3.62636	4.14693	4.08143
3624590.36	3.37928	3.42563	3.37960

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:01:13

PAGE 36

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): L0000001 , L0000002

, L0000003	, L0000004	, L0000005	,			
	L0000006	, L0000007	, L0000008	, L0000009	, L0000010	
, L0000011	, L0000012	, L0000013	,			
	L0000014	, L0000015	, L0000016	, L0000017	, L0000018	
, L0000019	, L0000020	, L0000021	,			
	L0000022	, L0000023	, L0000024	, L0000025	, L0000026	

, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	34.40105	492919.80
3625834.65	39.14596		
492955.07	3625845.55	30.07243	493069.86
3625832.73	109.96943		
493094.87	3625832.73	74.22339	493110.90
3625837.21	48.82283		
493151.95	3625834.01	33.67778	493166.70
3625837.86	28.48698		
493187.86	3625836.57	24.91065	493201.33
3625836.57	22.94615		
493240.44	3625836.57	19.41260	492881.32
3625908.40	18.33239		
492906.98	3625898.14	19.98376	492901.84
3625911.60	19.38098		
492928.14	3625914.81	20.58949	492933.91
3625898.14	21.21946		
492951.87	3625908.40	21.50199	492973.67
3625907.11	22.40815		
492993.55	3625914.17	23.49925	492996.11
3625897.50	23.92411		
493015.99	3625896.85	28.02983	493023.05
3625912.24	26.04475		
493044.21	3625907.11	27.56947	493066.66
3625907.76	28.33484		
493085.25	3625912.24	24.60706	493087.18
3625895.57	30.25208		
493108.98	3625911.60	23.69320	493112.19
3625897.50	25.87112		
493133.99	3625901.98	23.10006	492874.27
3625788.48	43.32191		
492894.15	3625789.12	49.37033	492910.18
3625790.40	53.81984		
492930.70	3625786.55	56.59591	492947.38
3625791.04	60.04872		
492963.41	3625787.84	55.55880	492982.65
3625787.84	56.43935		
492999.96	3625787.84	63.48960	493021.12
3625791.04	83.82607		

493036.52	3625789.12	85.41608	493055.75
3625789.76	90.56026		
493076.28	3625787.84	91.59094	493094.87
3625787.84	82.36786		
493112.83	3625788.48	63.36677	493129.50
3625787.19	55.46172		
493148.74	3625787.19	46.90632	493164.77
3625790.40	40.80945		
493184.65	3625789.12	34.81555	493201.97
3625791.04	30.53570		
493221.21	3625790.40	26.74303	493238.52
3625791.04	23.73634		
492780.00	3626415.01	57.46694	492778.72
3626388.08	42.52761		
492747.94	3626386.16	42.56098	492742.16
3626418.22	59.54404		
492699.20	3626422.71	60.32485	492697.92
3626391.93	45.16772		
492678.68	3626411.81	50.99831	492626.09
3626426.56	45.13775		
492606.85	3626435.54	58.25591	492599.16
3626405.39	41.84306		
492491.20	3626644.88	43.10141	492517.36
3626636.70	50.03267		
492521.18	3626603.45	60.52080	492521.72
3626582.19	66.34098		
492512.46	3626553.84	67.88780	492513.55
3626533.13	68.16590		
492501.01	3626506.42	64.27346	492490.65
3626485.70	64.61965		
492479.21	3626464.45	62.92271	492466.12
3626447.00	57.71773		
492447.59	3626418.66	42.52349	492431.78
3626430.65	43.19109		
492481.93	3626620.35	45.32039	492482.48
3626594.18	50.85270		
492479.21	3626572.92	54.35778	492477.02
3626546.76	57.96426		
492467.76	3626523.32	56.95161	492463.94
3626507.51	57.68957		
492450.86	3626492.79	57.97442	492427.42
3626474.80	54.14496		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:01:13

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	40.77347	492823.25
3626567.17	239.68001		
492838.34	3626526.92	211.73773	493039.78
3625834.45	161.98446		
492743.19	3626628.92	486.34456	492731.11
3626741.92	148.09925		
492774.75	3626728.05	253.05807	492674.05
3626738.96	98.58908		
492708.49	3626698.47	206.35114	492703.25
3626652.75	331.92261		
492723.78	3626582.16	210.48125	492761.18
3626553.82	171.95598		
493013.27	3625844.49	113.54415	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 38
 *** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: SLINE1
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018

, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	490879.18	491073.28	491267.38
491461.48	491655.58		

3628507.6	55.64518 (21011618)	55.48618 (21032421)	60.80170 (21012124)
69.07695 (22011623)	71.16175 (20090706)		
3628311.7	61.51165 (22120701)	64.90428 (21011618)	64.83076 (21102603)
69.71533 (21012124)	78.58375 (20042421)		
3628115.8	58.82917 (20101702)	71.07791 (22120701)	76.92699 (21011618)
77.32308 (21102603)	83.75882 (22011623)		
3627920.0	70.01713 (22120522)	72.27982 (20010719)	81.63987 (22120701)
94.08188 (22120523)	94.08692 (21102603)		
3627724.1	62.54735 (20040403)	80.58227 (22010221)	93.61819 (22120522)
96.21752 (20101702)	118.12803 (22120523)		
3627528.3	66.21872 (20010902)	76.73541 (21021307)	87.18144 (20040403)
115.27129 (22120522)	121.85510 (20101702)		
3627332.4	68.60190 (22123104)	80.95897 (21011623)	90.98175 (20010902)
109.53292 (21021307)	136.67054 (22010221)		
3627136.5	74.40774 (22120623)	85.11962 (21122422)	99.08456 (20010821)
112.86049 (22123104)	142.99092 (21011623)		
3626940.7	74.99249 (21122421)	87.71885 (22120524)	105.57724 (22120524)
120.73662 (22120524)	153.60798 (22120623)		
3626744.8	79.13032 (20122207)	94.29805 (20122207)	106.78039 (20122207)
126.79917 (20122207)	157.20358 (22012506)		
3626549.0	96.18056 (20011220)	115.47938 (20011220)	136.59921 (20011220)
210.72816 (20122123)	347.78002 (20122123)		
3626353.1	305.54640 (20122123)	345.41079 (20122123)	347.68016 (20122123)
290.51622 (20122123)	250.50639 (20022501)		
3626157.2	94.39390 (20022501)	109.15845 (22011222)	152.93055 (20021601)
188.40841 (20021722)	232.10559 (20022324)		
3625961.4	87.51397 (20021722)	105.29436 (20021722)	119.75686 (20022324)
164.16766 (21030222)	550.94475 (21030222)		
3625765.5	87.62086 (22010507)	100.06576 (22012701)	276.45496 (21030222)
357.98799 (22010619)	461.91620 (20011520)		
3625569.7	166.11474 (21030222)	286.67362 (21030222)	258.02619 (22010619)
424.94219 (20011520)	235.35963 (21110104)		
3625373.8	234.54841 (22010619)	247.16243 (20011520)	283.44297 (20011520)
214.83206 (21110104)	440.65143 (20100406)		


```

3625177.9 |      243.02084 (20011520)      250.87823 (21110104)      141.05361 (21110104)
      260.43485 (20100406)      410.51925 (20111623)
3624982.1 |      201.97349 (21110104)      115.01167 (20102402)      206.30702 (20100406)
      284.26462 (20111623)      292.57471 (22012923)
3624786.2 |      94.82625 (20102402)      163.23334 (20100406)      225.33344 (20100406)
      224.49696 (20111623)      285.81041 (22012923)
3624590.4 |      131.71559 (20100406)      197.61749 (20100406)      203.01217 (20111623)
      233.11869 (22012923)      132.41200 (22012923)
^ *** AERMOD - VERSION 23132 ***      *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU ***      10/10/24
*** AERMET - VERSION 23132 ***      ***
***      15:01:13

```

PAGE 39

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
      INCLUDING SOURCE(S):      L0000001      , L0000002
, L0000003      , L0000004      , L0000005      ,
      L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000011      , L0000012      , L0000013      ,
      L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
      L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

```

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

```

Y-COORD |      X-COORD (METERS)
(METERS) |      491849.68      492043.78      492237.88
      492431.98      492626.08

```

```

-----
3628507.6 |      85.76419 (21020820)      96.31370 (20022222)      85.37810 (20101705)
      79.68579 (22102623)      56.90399 (22102623)
3628311.7 |      92.93590 (21020820)      95.55016 (20022222)      101.57101 (20101705)
      95.46465 (22011621)      72.63478 (22102623)
3628115.8 |      96.24736 (21021402)      120.06755 (21020820)      129.30396 (22102624)
      121.35143 (22011621)      95.49109 (22102623)
3627920.0 |      114.22009 (22011623)      129.08755 (20090706)      149.96548 (20022222)
      136.70995 (22011621)      126.53197 (22102623)
3627724.1 |      119.15156 (21012124)      146.96550 (22011623)      184.74695 (21020820)
      182.85651 (20101705)      169.04065 (22102623)
3627528.3 |      153.23584 (22120523)      166.45926 (21012124)      192.42761 (21021402)

```

261.40711 (20022222)	233.89991 (22102623)		
3627332.4 175.82858 (22120522)	215.06311 (22120701)	242.00551 (21012124)	
365.66540 (21020820)	331.98326 (22011621)		
3627136.5 175.53798 (21021307)	246.10985 (22010221)	329.30084 (22120701)	
411.10988 (22011623)	525.42834 (22102624)		
3626940.7 193.68559 (20121405)	242.44944 (20042502)	354.63111 (21021307)	
548.09330 (20101702)	880.50185 (21020820)		
3626744.8 209.56498 (22120624)	290.09271 (22120624)	416.89836 (21122421)	
670.16428 (22120623)	1419.19150 (21021307)		
3626549.0 562.96689 (20122123)	1032.61829 (20122123)	1092.31540 (20122123)	
778.58932 (20021601)	2087.07857 (20011520)		
3626353.1 239.79726 (20021601)	415.43076 (20120923)	635.80189 (20071603)	
742.82181 (21090704)	815.15888 (20051704)		
3626157.2 344.16957 (21030222)	647.53454 (22010619)	875.31373 (21110104)	
1038.51460 (22012923)	758.21065 (22103002)		
3625961.4 565.58089 (20011520)	464.52341 (21110104)	701.58236 (20111623)	
345.38531 (22012923)	538.81071 (20021220)		
3625765.5 323.08734 (21110104)	523.96800 (20100406)	582.31369 (22012923)	
248.58121 (22120820)	239.78507 (20112124)		
3625569.7 423.27300 (20100406)	416.44483 (22012923)	168.54870 (22012923)	
149.58828 (21121921)	162.50179 (22120222)		
3625373.8 463.54148 (20111623)	335.74734 (22012923)	135.96265 (22021320)	
169.62929 (21121921)	162.58036 (20012222)		
3625177.9 440.63258 (22012923)	120.08994 (22122304)	101.30952 (22120820)	
162.46810 (21020924)	135.19838 (20012222)		
3624982.1 248.21473 (22012923)	108.85785 (22021320)	89.57168 (21121921)	
110.18434 (20021922)	222.85662 (20011420)		
3624786.2 87.41321 (22122304)	90.48543 (22021320)	89.12111 (21121921)	
88.04245 (20021922)	94.36610 (20012222)		
3624590.4 77.94763 (22021320)	82.40832 (22120820)	84.06060 (21121921)	
82.16846 (20112124)	175.18419 (20011420)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 40

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
	492820.18		493014.28	493208.38
493402.48		493596.58		

3628507.6	75.07499 (22102021)	46.95382 (22102021)	57.41672 (22102202)
38.86390 (22102202)	35.59714 (20101418)		
3628311.7	86.94914 (22102021)	45.63357 (22102021)	57.80490 (22102202)
38.76964 (20101418)	48.15582 (21080821)		
3628115.8	91.46301 (22102021)	48.83441 (22102202)	80.48236 (22102202)
51.15333 (20101418)	62.52581 (22050621)		
3627920.0	113.16719 (22102021)	70.55531 (22102202)	75.40175 (22102202)
272.04388 (20101624)	138.88617 (22010702)		
3627724.1	191.69689 (22102021)	135.27332 (22102202)	78.04819 (20101418)
83.64174 (20092419)	219.80992 (21122302)		
3627528.3	192.20132 (22102021)	175.31268 (22102202)	384.37699 (20101624)
234.50072 (21122302)	148.12686 (20092420)		
3627332.4	270.31346 (22102021)	181.82672 (22102202)	195.25448 (20092419)
306.66437 (20092420)	310.18748 (22091021)		
3627136.5	411.47837 (22102021)	211.15449 (21080821)	249.31186 (20092420)
151.57855 (20032305)	188.18313 (22122819)		
3626940.7	690.54663 (22102021)	481.79353 (20092420)	288.38906 (22122819)
160.58096 (20040319)	163.26906 (21052124)		
3626744.8	1539.83841 (21080821)	767.58365 (22120120)	519.05565 (22120120)
355.90780 (21071321)	218.72307 (22120119)		
3626549.0	2108.66758 (20090822)	901.44231 (21021003)	811.63812 (20041206)
595.44164 (20070924)	217.79489 (20101719)		
3626353.1	646.17417 (21081704)	629.50695 (20112119)	615.90813 (20092022)
456.25373 (21090701)	440.82750 (21072102)		
3626157.2	506.55028 (21081704)	628.22806 (20102503)	387.06233 (21021008)
313.86574 (20071003)	441.97206 (20082201)		
3625961.4	290.41649 (21081704)	241.13581 (22052206)	256.64606 (20100623)
285.42980 (21021008)	250.49762 (22040123)		
3625765.5	217.82390 (20100507)	240.51470 (22052506)	241.99480 (21080802)
325.47885 (21092804)	215.69491 (21071502)		
3625569.7	162.16419 (20122521)	294.57574 (22052506)	319.16343 (21111722)
159.37309 (21013119)	181.52410 (20041404)		
3625373.8	253.74275 (21040803)	120.28701 (22121919)	122.49920 (20090822)
118.84159 (21031721)	131.01747 (21013119)		
3625177.9	227.23821 (22082605)	272.18331 (22090723)	113.48869 (20112120)
228.21364 (22040304)	228.87572 (21072104)		
3624982.1	221.30300 (22082605)	167.34898 (22052124)	197.31944 (21080902)
161.72147 (21120822)	130.54883 (21080802)		

3624786.2 | 186.07201 (21101320) 158.94231 (22052124) 167.59148 (22052506)
118.50506 (20061224) 120.03189 (22052123)
3624590.4 | 78.99221 (20122521) 159.87180 (22052124) 129.19730 (22052506)
154.02386 (22052206) 183.05328 (21111722)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:01:13

PAGE 41

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)
494372.98	493790.68	494178.88
	494567.08	

3628507.6 | 95.23793 (21080821) 66.60832 (22011808) 12.83455 (22100421)
8.81424 (20041221) 8.18837 (22122801)
3628311.7 | 121.22547 (20121022) 32.07061 (22100421) 10.96946 (20041221)
7.82622 (22122801) 9.21081 (20031823)
3628115.8 | 136.50848 (22011808) 28.95667 (21050722) 11.32424 (22122801)
9.71866 (20031823) 7.94482 (22022205)
3627920.0 | 123.77877 (21122302) 17.92774 (22122801) 11.70345 (20031823)
9.20672 (20041220) 9.96260 (20041219)
3627724.1 | 100.85883 (20092420) 27.84472 (20062406) 14.58660 (20041219)
10.04085 (22100522) 16.65391 (20051006)
3627528.3 | 222.44049 (22091021) 43.02116 (20032305) 26.12507 (20051006)
26.91639 (21070819) 27.38020 (21070819)
3627332.4 | 105.15848 (20032305) 74.53585 (22122819) 67.45794 (20050101)
70.30929 (22102204) 52.47116 (22102204)
3627136.5 | 131.32044 (21090103) 122.57101 (22102204) 250.34086 (21072203)

117.39002 (21091523)	109.58293 (22102203)	
3626940.7 169.82387 (22120120)	151.85664 (22120120)	217.34451 (22120120)
182.19233 (22072121)	158.20707 (20062123)	
3626744.8 170.13789 (22120119)	136.38795 (22120119)	117.15332 (22120119)
107.79108 (21080723)	101.93486 (21080723)	
3626549.0 190.07743 (21021002)	143.85522 (21021002)	98.65016 (20070922)
87.26390 (20070922)	77.75655 (20070922)	
3626353.1 358.38340 (21020719)	323.59011 (21091323)	108.60638 (21072101)
237.45951 (21040722)	86.58326 (20101719)	
3626157.2 331.18964 (21052723)	259.31771 (21081903)	223.52712 (22100605)
225.19518 (21020719)	186.29730 (20041206)	
3625961.4 352.88493 (22082523)	213.53690 (22101020)	195.60284 (21090701)
103.02352 (20020619)	161.02562 (21072102)	
3625765.5 169.68287 (21081705)	164.06943 (20053106)	179.96565 (21070303)
203.51258 (21091622)	167.69862 (21090701)	
3625569.7 159.04768 (21071502)	156.46299 (21081705)	154.69848 (20071003)
166.78523 (20092022)	201.96249 (22091005)	
3625373.8 255.22346 (22082704)	141.84854 (22082223)	133.06941 (21081705)
148.78565 (20071003)	144.15414 (20092022)	
3625177.9 143.43515 (21092804)	130.64363 (21021008)	125.73049 (22082223)
129.12184 (20102302)	135.84942 (20071003)	
3624982.1 123.03189 (20100623)	119.52055 (20041404)	137.57772 (21021008)
151.76285 (22082223)	131.49297 (20102302)	
3624786.2 130.28176 (22082604)	125.50259 (21092704)	114.25898 (20041404)
127.76749 (21021008)	166.84971 (20110221)	
3624590.4 177.81824 (22081002)	118.56455 (20100623)	112.11913 (21092804)
131.98675 (22082704)	69.83325 (22092722)	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 42

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	8.69061 (20031823)
3628311.7	8.51093 (20060602)
3628115.8	9.29043 (20041219)
3627920.0	7.77004 (20051006)
3627724.1	9.81505 (22052821)
3627528.3	13.51612 (20060406)
3627332.4	22.16873 (20020308)
3627136.5	50.91812 (20030819)
3626940.7	152.06576 (20062123)
3626744.8	114.16903 (22040302)
3626549.0	69.28720 (22041421)
3626353.1	180.46232 (21083001)
3626157.2	71.52968 (20092521)
3625961.4	68.27304 (22082823)
3625765.5	178.53772 (21070803)
3625569.7	168.45850 (21063023)
3625373.8	133.94294 (21070303)
3625177.9	125.06120 (22082523)
3624982.1	153.46538 (22040123)
3624786.2	157.84115 (21081124)
3624590.4	137.73564 (22082223)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:01:13

PAGE 43

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

492883.25	3625830.80	209.10837	(21061301)	492919.80
3625834.65	237.93769 (22052506)			
492955.07	3625845.55	309.53507	(22052506)	493069.86
3625832.73	213.98569 (21120822)			
493094.87	3625832.73	221.81431	(21120822)	493110.90
3625837.21	216.31268 (22100905)			
493151.95	3625834.01	228.39878	(22052123)	493166.70
3625837.86	225.55296 (22052123)			
493187.86	3625836.57	216.32474	(21080802)	493201.33
3625836.57	212.67426 (22081801)			
493240.44	3625836.57	259.65417	(20050806)	492881.32
3625908.40	209.31193 (21061301)			
492906.98	3625898.14	242.96746	(22052506)	492901.84
3625911.60	244.95542 (22052506)			
492928.14	3625914.81	322.84727	(22052506)	492933.91
3625898.14	310.90778 (22052506)			
492951.87	3625908.40	327.83970	(22052506)	492973.67
3625907.11	296.20324 (22052506)			
492993.55	3625914.17	268.20149	(22052206)	492996.11
3625897.50	265.72784 (22052206)			
493015.99	3625896.85	240.48335	(22052206)	493023.05
3625912.24	234.45322 (22052206)			
493044.21	3625907.11	234.23366	(21120822)	493066.66
3625907.76	261.37817 (21120822)			
493085.25	3625912.24	243.77972	(22100905)	493087.18
3625895.57	242.23456 (22100905)			
493108.98	3625911.60	244.01007	(22011906)	493112.19
3625897.50	243.74655 (22011906)			
493133.99	3625901.98	259.90566	(22052123)	492874.27
3625788.48	225.81905 (21061301)			
492894.15	3625789.12	204.72892	(21061301)	492910.18
3625790.40	196.22991 (22083006)			
492930.70	3625786.55	246.52312	(22052506)	492947.38
3625791.04	286.42612 (22052506)			
492963.41	3625787.84	303.98723	(22052506)	492982.65
3625787.84	298.25961 (22052506)			
492999.96	3625787.84	267.86937	(22052506)	493021.12
3625791.04	230.31397 (22052206)			
493036.52	3625789.12	233.64373	(22052206)	493055.75
3625789.76	222.97899 (22052206)			
493076.28	3625787.84	204.58883	(21120822)	493094.87
3625787.84	224.19328 (21120822)			
493112.83	3625788.48	225.46968	(21120822)	493129.50

3625787.19	221.21052	(22100905)		
493148.74	3625787.19	224.37007	(22100905)	493164.77
3625790.40	231.96227	(22052123)		
493184.65	3625789.12	236.75360	(22052123)	493201.97
3625791.04	231.01354	(21080802)		
493221.21	3625790.40	219.37354	(22081801)	493238.52
3625791.04	232.59649	(20050806)		
492780.00	3626415.01	1421.57085	(20091123)	492778.72
3626388.08	1153.02855	(21021004)		
492747.94	3626386.16	1135.53295	(20052503)	492742.16
3626418.22	1438.70568	(20021220)		
492699.20	3626422.71	1406.09825	(21102022)	492697.92
3626391.93	1073.72821	(20070224)		
492678.68	3626411.81	1198.21285	(22052202)	492626.09
3626426.56	1038.07190	(21062101)		
492606.85	3626435.54	1859.94198	(20111623)	492599.16
3626405.39	1016.84468	(21062101)		
492491.20	3626644.88	1327.66338	(20122123)	492517.36
3626636.70	1688.77574	(20122123)		
492521.18	3626603.45	1446.52552	(20122123)	492521.72
3626582.19	1143.74638	(20021601)		
492512.46	3626553.84	1090.66971	(20120923)	492513.55
3626533.13	1140.96601	(21030222)		
492501.01	3626506.42	1476.33893	(21030222)	492490.65
3626485.70	1652.64489	(21030222)		
492479.21	3626464.45	1804.45659	(21030222)	492466.12
3626447.00	1659.13385	(21030222)		
492447.59	3626418.66	1029.18759	(20011520)	492431.78
3626430.65	1128.65089	(21030222)		
492481.93	3626620.35	1663.39408	(20122123)	492482.48
3626594.18	1315.60297	(20122123)		
492479.21	3626572.92	1017.01309	(20021601)	492477.02
3626546.76	992.26598	(20021722)		
492467.76	3626523.32	942.36632	(20022324)	492463.94
3626507.51	978.89175	(21030222)		
492450.86	3626492.79	1209.68182	(21030222)	492427.42
3626474.80	1335.45211	(21030222)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 44

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010


```

, L0000011      , L0000012      , L0000013      ,
                  L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
                  L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

```

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

492402.89	3626460.63	936.44673	(20031423)	492823.25
3626567.17	2347.03287	(22011906)		
492838.34	3626526.92	1801.77247	(21103122)	493039.78
3625834.45	228.04968	(22052206)		
492743.19	3626628.92	3666.95178	(20100406)	492731.11
3626741.92	2289.27612	(22011623)		
492774.75	3626728.05	2748.88700	(22102624)	492674.05
3626738.96	2014.48588	(22011706)		
492708.49	3626698.47	2825.87221	(22123104)	492703.25
3626652.75	3443.95745	(20122123)		
492723.78	3626582.16	3320.56456	(20111623)	492761.18
3626553.82	2386.15489	(20112124)		
493013.27	3625844.49	240.29113	(22052206)	

```

^ *** AERMOD - VERSION 23132 ***      *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU ***      10/10/24
*** AERMET - VERSION 23132 ***      ***
***      15:01:13

```

PAGE 45

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

```

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
490879.18	491073.28
	491267.38

491461.48

491655.58

3628507.6 | 96.97080 (22092901) 115.74369 (22011702) 110.16009 (21052422)
160.34684 (22072901) 119.88660 (20090706)
3628311.7 | 126.41060 (22051505) 113.65994 (22092901) 127.47678 (22011702)
123.93967 (22060102) 151.29749 (22062102)
3628115.8 | 108.51920 (20101805) 147.41878 (22051505) 130.66442 (22092901)
148.74747 (22090601) 155.10840 (22060102)
3627920.0 | 138.08606 (21052423) 130.65923 (22122902) 163.49564 (22032023)
147.84414 (22092901) 199.24684 (22090601)
3627724.1 | 163.47457 (21081604) 142.45420 (20101707) 171.90060 (22122902)
193.39084 (22032023) 174.74885 (21031403)
3627528.3 | 178.16604 (20081623) 180.66862 (22090223) 170.01830 (22120202)
202.46033 (21052423) 205.61837 (22032023)
3627332.4 | 147.44354 (21020722) 161.91590 (20061501) 204.97159 (20081623)
198.14000 (21081604) 179.25132 (21120103)
3627136.5 | 182.25969 (22101701) 183.33485 (21040202) 187.41744 (21020722)
193.64464 (21021623) 231.18682 (20081623)
3626940.7 | 166.14967 (22041606) 164.86949 (21092022) 206.57498 (21092022)
207.45835 (20101220) 227.12357 (21040202)
3626744.8 | 202.14667 (22040523) 227.59187 (22040523) 223.10177 (22062101)
246.04319 (22062101) 240.79827 (22011703)
3626549.0 | 207.01298 (21101721) 226.66991 (21101721) 216.70846 (20042724)
272.02041 (20042724) 272.79626 (21090703)
3626353.1 | 173.57856 (21061202) 223.60668 (20081402) 230.94899 (21112923)
257.62626 (21112923) 293.16489 (20052123)
3626157.2 | 175.85290 (20103021) 197.86251 (22043021) 253.40378 (20061223)
255.74799 (22040823) 267.70516 (20121705)
3625961.4 | 165.35254 (22110522) 169.78810 (22123102) 199.51641 (22081101)
220.20972 (22092801) 263.95981 (22050405)
3625765.5 | 166.42236 (20021723) 209.87884 (22040423) 200.07042 (22050405)
192.89896 (22051302) 214.48630 (20101401)
3625569.7 | 172.26439 (22050405) 199.68755 (22051302) 217.02970 (20022424)
264.22839 (22042324) 250.11685 (20061423)
3625373.8 | 165.78748 (20071603) 188.34363 (20101401) 196.92747 (20051324)
236.76640 (20061423) 258.13927 (20052324)
3625177.9 | 155.02649 (20032902) 212.14227 (21031622) 219.50233 (22120502)
213.56102 (20052324) 243.97262 (22062801)
3624982.1 | 155.52598 (22050401) 210.41871 (20050604) 207.70874 (21100901)
209.69572 (20080806) 220.62725 (21071905)
3624786.2 | 200.07139 (20050604) 181.95326 (21100901) 183.80839 (20080806)
217.91245 (21071905) 204.34827 (20050524)
3624590.4 | 180.51218 (21100901) 164.57721 (21081303) 177.42480 (20080624)
188.29599 (21052501) 214.72871 (20092303)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:01:13

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	491849.68	492043.78	492237.88
492431.98	492626.08		

3628507.6		117.03577 (20011701)	152.45837 (22122822)	133.46557 (20101705)
129.00545	(21081223)	184.61001 (22062723)		
3628311.7		166.72904 (20050702)	188.63735 (22090703)	192.10774 (20111805)
179.62520	(21081223)	198.21578 (22062723)		
3628115.8		171.45103 (22102622)	170.13015 (22102522)	179.47633 (22102624)
200.88746	(22080905)	186.78541 (22062723)		
3627920.0		227.70616 (22072901)	197.54655 (20090706)	233.12017 (22090703)
200.73176	(22080905)	171.91589 (21071322)		
3627724.1		231.13242 (22090601)	211.42377 (22062102)	260.33862 (22102522)
252.92496	(20111805)	199.22788 (22062022)		
3627528.3		203.62380 (21031403)	199.67770 (22090601)	205.50091 (20090706)
259.21983	(22122822)	291.87158 (22062022)		
3627332.4		185.69445 (20101805)	221.99522 (21031403)	272.54095 (20070601)
387.66225	(22102522)	376.82196 (22080905)		
3627136.5		250.16154 (21081604)	242.13412 (22122902)	262.23922 (21031403)
314.66816	(22072901)	376.78520 (20111805)		
3626940.7		219.82271 (21021623)	278.19260 (20081623)	257.13349 (20031323)
330.50112	(21040201)	447.89963 (22102522)		
3626744.8		293.47609 (22041606)	354.80267 (20051623)	391.24694 (21112321)
392.95865	(20081623)	670.15464 (21040201)		
3626549.0		278.06594 (21090703)	368.93492 (21090703)	422.09682 (21090703)
513.29236	(21090703)	681.26697 (22092802)		
3626353.1		272.19189 (22092203)	336.70721 (20061223)	370.35513 (20121705)
475.81782	(20011918)	693.68159 (20120120)		
3626157.2		308.43248 (21030901)	320.83999 (20011918)	352.80982 (20101401)
429.18014	(20081404)	519.04824 (21020303)		
3625961.4		277.18948 (20071603)	322.72518 (20051324)	337.00356 (20052324)
384.90508	(21040801)	402.87495 (20112021)		
3625765.5		226.37152 (20041701)	270.82080 (20052324)	306.18924 (21071905)
328.83352	(20112421)	337.08821 (20121620)		

3625569.7		277.60103	(20052324)	230.18919	(21071905)	254.92569	(20092303)
292.25441		(21040224)	289.60557	(20021621)			
3625373.8		256.83159	(22062801)	251.85519	(21040801)	259.89107	(20112421)
302.88118		(20112021)	270.89019	(20021220)			
3625177.9		250.84472	(22100802)	271.79923	(21031722)	240.03877	(21040224)
263.23984		(20121620)	238.37096	(20070424)			
3624982.1		244.01074	(20060802)	227.63258	(22081704)	208.91754	(22052202)
215.74659		(21020924)	251.27063	(20090401)			
3624786.2		239.85456	(22081602)	225.51537	(20021622)	231.90154	(20112021)
212.67232		(20021621)	223.71534	(20090401)			
3624590.4		202.47476	(22081704)	209.76275	(20091424)	199.29679	(20070224)
212.94959		(20021220)	212.44667	(20101822)			

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:01:13

PAGE 47

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD				X-COORD (METERS)
(METERS)		492820.18	493014.28	493208.38
493402.48		493596.58		

3628507.6		149.09289	(22050623)	144.72225	(20081922)	163.66901	(21100706)
145.08452		(22043024)	120.65531	(22050622)			
3628311.7		160.99771	(22050623)	141.40369	(20081922)	171.22088	(20031321)
164.30237		(21081221)	163.37245	(22082322)			
3628115.8		153.82615	(22050623)	181.32377	(20022901)	192.96603	(20022304)
185.36600		(21081221)	199.61341	(20101624)			
3627920.0		168.73412	(22050623)	213.47623	(20022901)	203.96319	(22061421)
174.78824		(22082322)	160.52232	(21080821)			
3627724.1		240.21207	(22090503)	280.03742	(20022901)	216.42885	(21081221)
246.44474		(20101624)	187.49346	(22081324)			
3627528.3		237.27096	(22090503)	274.14057	(21100706)	225.85913	(21081221)
214.03346		(20100320)	221.48513	(21040924)			
3627332.4		275.30839	(22090503)	307.53768	(20031321)	329.98746	(20101624)
293.68040		(22081324)	247.60441	(21052203)			

3627136.5	274.62407 (22090503)	239.59576 (21081221)	215.31268 (22081324)
244.99741 (21052203)	255.87884 (22091021)		
3626940.7	367.31684 (22103119)	375.11299 (20101624)	298.02597 (21052203)
265.90004 (20081923)	261.02519 (22051721)		
3626744.8	768.96124 (22062723)	511.95665 (21052203)	374.49930 (22051721)
370.04981 (21072203)	189.89454 (21053101)		
3626549.0	871.31910 (20121705)	600.15132 (20101806)	497.54839 (20090820)
365.14516 (20090820)	286.06179 (20090820)		
3626353.1	857.71690 (21060405)	768.95967 (20110221)	519.13477 (21052723)
379.58175 (20092322)	322.15660 (21091323)		
3626157.2	598.29314 (20072601)	590.74251 (22081002)	455.42082 (20110221)
365.23522 (22082502)	332.40359 (21052723)		
3625961.4	455.52314 (20072601)	469.85557 (21061223)	415.77676 (20092323)
346.42555 (22070621)	300.64940 (22041522)		
3625765.5	383.01317 (20072601)	388.40061 (20052502)	386.83474 (22081002)
281.84837 (20041404)	293.19537 (22070621)		
3625569.7	327.37015 (21101320)	343.90482 (21030703)	334.39512 (22071602)
339.05211 (20101621)	262.95294 (22081224)		
3625373.8	306.37441 (22082605)	277.11138 (22090723)	281.89168 (21061223)
293.63773 (22081002)	275.25470 (20092323)		
3625177.9	286.39620 (22082605)	273.12587 (22052124)	303.30090 (21080902)
265.41729 (22071602)	273.28603 (21071002)		
3624982.1	265.51118 (22082605)	250.87643 (22052124)	255.75647 (20052502)
222.50218 (20061224)	240.68111 (22081002)		
3624786.2	248.78467 (22082605)	217.26047 (21103123)	215.51005 (20052502)
201.83301 (20121619)	185.27601 (22070601)		
3624590.4	231.73396 (22082605)	213.50454 (21103123)	211.97365 (21030703)
173.16193 (21080902)	174.66188 (22071602)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 48

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	493790.68	493984.78	494178.88
494372.98	494567.08		

```

- - - - -
3628507.6 | 150.77438 (21072221) 135.97373 (20100320) 129.61899 (22081324)
83.40724 (21122302) 78.51290 (21070722)
3628311.7 | 139.73359 (21080821) 129.86335 (22081324) 98.60381 (21040924)
77.84977 (21070722) 74.91868 (21052203)
3628115.8 | 162.44951 (20100320) 165.52016 (22081324) 88.92749 (21070722)
80.32223 (21052203) 67.03738 (22061501)
3627920.0 | 218.91597 (22081324) 118.54828 (22051722) 97.10721 (21052203)
76.99230 (22091021) 84.42035 (22091021)
3627724.1 | 177.03560 (21122302) 164.50924 (21052203) 119.95118 (22091021)
94.23509 (22082422) 131.21111 (20081923)
3627528.3 | 210.57861 (21052203) 196.74325 (22091021) 126.22115 (20081923)
142.64359 (20081923) 128.65220 (20071323)
3627332.4 | 233.43221 (22091021) 204.06695 (20081923) 178.79326 (20071323)
175.81438 (22051721) 135.37566 (21090103)
3627136.5 | 219.00097 (20071323) 210.90656 (22051721) 166.77092 (22061422)
209.09152 (20081602) 210.88132 (21072203)
3626940.7 | 252.47125 (20081602) 259.93679 (21072203) 179.34195 (21091523)
145.66284 (21012119) 171.71764 (21080324)
3626744.8 | 224.16915 (22072121) 206.36754 (22072121) 167.36722 (21041922)
171.71981 (21041922) 168.24648 (20062123)
3626549.0 | 264.85229 (20090820) 237.24192 (21070923) 198.51194 (21070923)
187.52212 (21070923) 178.60815 (21070923)
3626353.1 | 284.66420 (20070924) 263.78598 (20070924) 203.35183 (22091223)
204.19393 (22091223) 184.81550 (22091223)
3626157.2 | 289.61903 (21072102) 249.34596 (21020719) 228.28465 (21091323)
214.68589 (21091323) 195.82482 (21040722)
3625961.4 | 284.77042 (22073105) 258.90141 (21052723) 227.37693 (21072222)
229.34223 (20092322) 194.22372 (21020719)
3625765.5 | 254.84391 (20071201) 247.20938 (22082502) 228.59078 (21063023)
217.64583 (21052723) 194.49041 (20090703)
3625569.7 | 254.19520 (22070621) 243.84141 (20071201) 237.90304 (22041522)
217.52336 (22073105) 213.94552 (21063023)
3625373.8 | 254.13627 (22081224) 226.19906 (22070621) 207.56371 (20042722)
189.57338 (22041522) 187.93186 (21082924)
3625177.9 | 209.70356 (20080301) 219.04716 (22080701) 201.35961 (22070621)
181.79636 (20082121) 165.31643 (21071124)
3624982.1 | 234.62169 (22072201) 176.08164 (20041404) 189.57405 (21030821)
182.26323 (22091302) 152.13931 (20082121)
3624786.2 | 213.04312 (21071002) 188.72949 (20092323) 172.44569 (21111920)
179.41340 (22081701) 165.50758 (22091302)
3624590.4 | 191.15985 (22081002) 192.41954 (22072201) 158.58768 (22080903)
159.97023 (22081224) 167.67853 (22081701)

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:01:13

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	74.48462 (21052203)
3628311.7	69.23824 (22061501)
3628115.8	86.78178 (22091021)
3627920.0	74.85722 (20081923)
3627724.1	92.82909 (20071323)
3627528.3	113.93223 (22051721)
3627332.4	109.77440 (21110620)
3627136.5	138.81103 (21091523)
3626940.7	176.39160 (22072121)
3626744.8	148.16375 (20062123)
3626549.0	169.95609 (21070923)
3626353.1	167.74031 (21080724)
3626157.2	181.58479 (21040722)
3625961.4	176.41364 (20062523)
3625765.5	192.99227 (21072102)
3625569.7	188.43060 (21052723)
3625373.8	179.81394 (22073105)
3625177.9	176.47617 (22041522)
3624982.1	166.26528 (21071124)
3624786.2	143.30768 (20050501)
3624590.4	145.87029 (22091302)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:01:13

PAGE 50

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	406.39610	(22081103)	492919.80
3625834.65	408.02515	(22052124)		
492955.07	3625845.55	393.43350	(21030703)	493069.86
3625832.73	407.97206	(20061224)		
493094.87	3625832.73	392.59559	(20061224)	493110.90
3625837.21	412.88050	(22071602)		
493151.95	3625834.01	371.19987	(22121819)	493166.70
3625837.86	401.58552	(22081002)		
493187.86	3625836.57	405.92153	(22010819)	493201.33
3625836.57	399.95979	(22010819)		
493240.44	3625836.57	414.46435	(20101621)	492881.32
3625908.40	428.43945	(22081103)		
492906.98	3625898.14	426.60394	(22052124)	492901.84
3625911.60	426.29356	(22052124)		
492928.14	3625914.81	426.97279	(22090723)	492933.91
3625898.14	421.61594	(22090723)		
492951.87	3625908.40	430.92363	(21030703)	492973.67
3625907.11	429.15809	(20052502)		
492993.55	3625914.17	462.49110	(21080902)	492996.11
3625897.50	450.03460	(21080902)		
493015.99	3625896.85	461.57377	(21080902)	493023.05
3625912.24	444.70255	(21061223)		
493044.21	3625907.11	434.55053	(20061224)	493066.66
3625907.76	426.41027	(20061224)		
493085.25	3625912.24	448.38466	(22071602)	493087.18
3625895.57	435.31389	(22071602)		
493108.98	3625911.60	403.12663	(22071602)	493112.19
3625897.50	407.94521	(22071602)		
493133.99	3625901.98	422.12807	(22081002)	492874.27
3625788.48	385.11805	(22081103)		
492894.15	3625789.12	391.08419	(21103123)	492910.18
3625790.40	383.64163	(21103123)		
492930.70	3625786.55	391.22907	(22052124)	492947.38
3625791.04	386.33459	(22090723)		
492963.41	3625787.84	374.01700	(22090723)	492982.65
3625787.84	394.83201	(21030703)		
492999.96	3625787.84	391.34936	(20052502)	493021.12
3625791.04	402.77677	(21080902)		
493036.52	3625789.12	429.34866	(21080902)	493055.75
3625789.76	392.82441	(21080902)		

493076.28	3625787.84	386.98964	(21061223)	493094.87
3625787.84	402.42661	(20061224)		
493112.83	3625788.48	372.62964	(20061224)	493129.50
3625787.19	394.53751	(22071602)		
493148.74	3625787.19	393.19134	(22071602)	493164.77
3625790.40	358.54635	(22121819)		
493184.65	3625789.12	376.56591	(22081002)	493201.97
3625791.04	393.27717	(22081002)		
493221.21	3625790.40	391.11632	(22010819)	493238.52
3625791.04	378.05862	(21071002)		
492780.00	3626415.01	954.49049	(20112107)	492778.72
3626388.08	905.73466	(21040224)		
492747.94	3626386.16	883.55428	(21020303)	492742.16
3626418.22	933.22617	(22040504)		
492699.20	3626422.71	888.73920	(22120301)	492697.92
3626391.93	825.74395	(20081404)		
492678.68	3626411.81	826.91519	(22120301)	492626.09
3626426.56	693.34765	(20112420)		
492606.85	3626435.54	674.31876	(20102405)	492599.16
3626405.39	649.14222	(20112420)		
492491.20	3626644.88	566.98994	(21021501)	492517.36
3626636.70	589.76860	(21021501)		
492521.18	3626603.45	601.64063	(22011703)	492521.72
3626582.19	619.44338	(22062101)		
492512.46	3626553.84	619.36243	(22092802)	492513.55
3626533.13	607.93873	(20061101)		
492501.01	3626506.42	564.87370	(20010922)	492490.65
3626485.70	559.72958	(20050624)		
492479.21	3626464.45	542.36426	(22092203)	492466.12
3626447.00	527.56113	(21041723)		
492447.59	3626418.66	507.17471	(20121705)	492431.78
3626430.65	495.81839	(21041723)		
492481.93	3626620.35	554.86697	(20051623)	492482.48
3626594.18	582.03004	(22092202)		
492479.21	3626572.92	572.10511	(22040523)	492477.02
3626546.76	580.31630	(21090703)		
492467.76	3626523.32	568.13947	(20061101)	492463.94
3626507.51	538.46731	(20010922)		
492450.86	3626492.79	519.72900	(21112923)	492427.42
3626474.80	506.77063	(20050624)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:01:13

PAGE 51

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	485.22779	(22092203)	492823.25
3626567.17	1087.60130	(22072924)		
492838.34	3626526.92	905.15184	(20080623)	493039.78
3625834.45	419.56956	(21080902)		
492743.19	3626628.92	1129.48209	(21081301)	492731.11
3626741.92	909.53619	(22102522)		
492774.75	3626728.05	941.90932	(20111805)	492674.05
3626738.96	782.39631	(20070601)		
492708.49	3626698.47	927.04394	(20070601)	492703.25
3626652.75	931.46024	(22032023)		
492723.78	3626582.16	1031.50416	(21011805)	492761.18
3626553.82	1130.39987	(22092802)		
493013.27	3625844.49	438.37788	(21080902)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:01:13

PAGE 52

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
490879.18	491073.28
491461.48	491267.38
491655.58	

3628507.6	66.90792 (21052422)	76.59530 (22072901)	80.39053 (22062102)
92.71990 (20090706)	71.71806 (20122121)		
3628311.7	78.68910 (22090601)	76.22175 (22080803)	98.28531 (22072901)
90.27599 (22102622)	102.66074 (20050702)		
3628115.8	78.29932 (21092903)	96.13341 (22090601)	82.39374 (22080803)
109.85047 (22062102)	105.31989 (20090706)		
3627920.0	87.97643 (21011618)	89.53363 (21092903)	111.21111 (22090601)
93.45057 (22072901)	112.31635 (22062102)		
3627724.1	81.61046 (22051505)	100.49066 (21011618)	100.22385 (21092903)
120.02507 (22090601)	128.64269 (22072901)		
3627528.3	92.33916 (20101702)	94.23633 (22032023)	113.11721 (21011618)
110.98122 (21092903)	119.91568 (21052422)		
3627332.4	97.82607 (21052423)	108.35520 (22122902)	110.10362 (22032023)
125.40863 (21011618)	116.68072 (21092903)		
3627136.5	106.77087 (22042905)	109.00405 (22120522)	123.52937 (22122902)
119.40678 (22032023)	142.04705 (21040201)		
3626940.7	122.46634 (20081623)	126.50384 (22090223)	121.35794 (22092824)
136.04704 (21052423)	121.19434 (20101805)		
3626744.8	119.74187 (21021622)	131.75145 (20080201)	145.63885 (20081623)
144.55666 (21081604)	138.65378 (22120522)		
3626549.0	118.48136 (22011221)	135.52621 (21093023)	137.47307 (21012123)
160.92037 (20080201)	171.56133 (20081623)		
3626353.1	133.42504 (21022323)	155.04604 (22042401)	157.09212 (22101701)
163.10784 (21040202)	189.80939 (22090602)		
3626157.2	131.48006 (20080123)	145.43354 (20080123)	167.07953 (22111307)
186.13410 (20042623)	210.58134 (21022323)		
3625961.4	137.38186 (20101523)	148.11161 (20101523)	153.94101 (20101523)
181.69976 (22061923)	217.55206 (22061923)		
3625765.5	146.22031 (22081005)	168.27370 (22081005)	181.00284 (22081005)
193.63289 (20051622)	215.30710 (20051622)		
3625569.7	129.58465 (20121324)	151.30952 (20070603)	174.66250 (20052123)
193.37028 (22042923)	198.23591 (20103021)		
3625373.8	133.99191 (21050502)	145.28450 (20103020)	159.90038 (20021206)
193.06097 (20052024)	207.99473 (22092004)		
3625177.9	130.90907 (22110522)	155.77378 (22092004)	174.15116 (20041622)
177.83015 (22092801)	217.02612 (22050405)		
3624982.1	132.60117 (20021723)	150.97138 (22092801)	173.92268 (22050405)
184.17318 (20051323)	200.13851 (20041521)		
3624786.2	147.33701 (22050405)	148.63818 (20051323)	160.31311 (20122604)
188.39190 (21040222)	195.64646 (21031622)		
3624590.4	129.81839 (21030301)	148.78542 (20012122)	160.88992 (21110822)
165.64915 (21031622)	189.90328 (20050604)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:01:13

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***
INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM ₁₀ IN MICROGRAMS/M**3	
Y-COORD (METERS)	X-COORD (METERS)
492431.98	492237.88
491849.68	492626.08
492043.78	

3628507.6 113.37040 (22090703) 100.02872 (20111805) 81.76057 (21030323)	
112.62120 (21081223) 104.82793 (21071322)	
3628311.7 106.85175 (22090703) 113.31212 (22122822) 117.85092 (20101705)	
128.02146 (21081223) 117.55465 (21071322)	
3628115.8 88.46856 (20122121) 125.27390 (22090703) 139.09003 (20111805)	
116.68884 (22080905) 120.53108 (21071322)	
3627920.0 124.85846 (20050702) 133.24420 (22090703) 126.03614 (20111805)	
131.90970 (22080905) 110.27778 (22062022)	
3627724.1 118.39118 (22102622) 119.31571 (22102522) 146.22499 (22122822)	
131.71965 (20101705) 126.17571 (22062022)	
3627528.3 143.28216 (22072901) 140.37110 (20090706) 160.72007 (22090703)	
177.10101 (20111805) 182.14711 (21081223)	
3627332.4 123.64680 (22080803) 138.77074 (22062102) 161.59882 (22102522)	
174.70076 (22122822) 186.56028 (22080905)	
3627136.5 128.33215 (22090601) 144.51202 (22072901) 157.67106 (20090706)	
193.27595 (22090703) 171.23870 (22080905)	
3626940.7 164.77559 (21040201) 161.23293 (22090601) 187.98686 (22072901)	
194.83970 (22102522) 218.26215 (20111805)	
3626744.8 160.37197 (22122902) 207.56637 (21040201) 217.80031 (22090601)	
179.51991 (22062102) 248.67294 (22090703)	
3626549.0 175.69440 (21081604) 225.18176 (21052423) 255.20319 (21040201)	
235.91513 (22090601) 257.47501 (22102522)	
3626353.1 175.30069 (20080201) 236.30447 (22090223) 236.15415 (22120522)	
321.90538 (21040201) 355.85100 (22072901)	
3626157.2 225.76610 (22110520) 239.28696 (21040202) 279.11759 (21021622)	
338.51023 (22090223) 396.37499 (22032023)	
3625961.4 237.77427 (22051301) 244.79818 (21010801) 275.05638 (20080123)	
326.08544 (21092022) 473.14183 (21040202)	
3625765.5 234.97415 (20051622) 266.24676 (22090201) 288.43975 (22090201)	
357.52144 (20070603) 453.39270 (20103021)	
3625569.7 219.46225 (20103020) 226.20578 (20021206) 261.21640 (22081101)	
310.51047 (20011918) 388.10376 (20051324)	
3625373.8 232.75195 (20041622) 237.75336 (20011918) 248.38871 (20041521)	
316.64108 (21031622) 347.17943 (21071905)	

3625177.9		221.66966	(22051302)	251.32443	(21040222)	225.96688	(22120502)
309.49382		(22062801)	332.30302	(21031722)			
3624982.1		229.84575	(21110822)	240.67063	(20050604)	242.64616	(21081303)
298.79655		(21040801)	344.08691	(20021622)			
3624786.2		219.86933	(20050604)	242.61767	(21081303)	230.19985	(22100802)
266.75780		(22081602)	266.72575	(20112021)			
3624590.4		217.34873	(21081303)	223.84234	(21071905)	249.61986	(20060802)
268.21734		(20021622)	267.94605	(22103002)			

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:01:13

PAGE 54

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***
INCLUDING SOURCE(S): STCK2 ,

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

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

**

Y-COORD			X-COORD (METERS)
(METERS)			
493402.48		492820.18	493014.28
		493596.58	493208.38

3628507.6		114.34319	(22103119)	101.26114	(22050623)	106.74687	(20081922)
102.01123		(20022901)	122.67233	(20031321)			
3628311.7		113.35002	(22103119)	111.32071	(22050623)	117.11664	(20081922)
125.38188		(21100706)	127.73371	(20022304)			
3628115.8		116.80204	(22062723)	124.73047	(22050623)	152.44033	(20081922)
162.72534		(21100706)	144.72663	(22061421)			
3627920.0		144.52506	(22062723)	134.77489	(22050623)	166.20734	(20081922)
183.55620		(21100706)	164.48914	(22061421)			
3627724.1		198.60856	(22062723)	172.23814	(22050623)	169.01346	(20081922)
160.28319		(20031321)	171.34543	(22043024)			
3627528.3		185.84182	(22062723)	179.11831	(22050623)	192.67960	(20022901)
186.36863		(20031321)	188.97126	(21081221)			
3627332.4		186.49656	(22062723)	194.10874	(22050623)	225.56794	(20022901)
210.22116		(22061421)	161.89893	(21081221)			
3627136.5		167.70290	(21071322)	188.79162	(22050623)	204.14413	(20022901)
169.81763		(22043024)	239.10601	(20101624)			
3626940.7		194.29445	(22062022)	210.67275	(22050623)	219.21010	(21100706)
207.48052		(21081221)	162.71417	(21080821)			

3626744.8	245.17817 (22062022)	247.33471 (22050623)	245.90589 (20031321)
251.78988 (20101624)	183.39224 (22081324)		
3626549.0	326.81322 (22080905)	297.86217 (22090503)	290.49308 (22061421)
230.22019 (20100320)	234.10643 (21122302)		
3626353.1	420.90369 (20111805)	376.57498 (22090503)	371.57891 (21081221)
346.80221 (22081324)	338.00402 (22091021)		
3626157.2	512.16625 (22102522)	601.89866 (22090503)	486.63279 (22081324)
447.10688 (22091021)	321.00310 (22051721)		
3625961.4	675.26301 (21052423)	1033.17368 (20022901)	761.99634 (20081923)
589.90455 (21072203)	399.20460 (21110518)		
3625765.5	785.99574 (22092801)	1127.28280 (22092602)	911.30131 (21020719)
649.64150 (21083001)	507.99963 (22091223)		
3625569.7	539.86114 (21040801)	797.75885 (22081103)	572.87576 (22100904)
490.70227 (22082502)	481.18539 (21070803)		
3625373.8	481.71482 (21040224)	452.23647 (21101320)	448.01163 (22070601)
399.95994 (22080701)	360.91586 (20071003)		
3625177.9	379.34351 (20121620)	440.74659 (21101320)	405.28522 (21061223)
406.56833 (22072201)	379.77281 (20051621)		
3624982.1	365.48180 (20021621)	406.10578 (22082605)	386.98895 (20031421)
349.82154 (21080802)	334.28974 (21092804)		
3624786.2	321.67435 (20021220)	372.67483 (22082605)	361.06492 (21030703)
329.81186 (21013120)	330.66681 (22080705)		
3624590.4	269.80422 (20070424)	344.15518 (22082605)	345.66698 (22090723)
314.54604 (21061223)	295.11890 (22081002)		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:01:13

PAGE 55

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	493790.68	493984.78	494178.88
494372.98	494567.08		

3628507.6	112.20434 (22043024)	117.90569 (21081221)	92.24059 (22082322)
42.16724 (22091722)	60.51297 (20100320)		

3628311.7	132.23565 (22043024)	97.96706 (22050622)	95.33011 (21072221)
71.00841 (21080821)	60.96345 (20100320)		
3628115.8	156.37387 (21081221)	131.05950 (22082322)	57.68485 (22091722)
72.24491 (20100320)	84.53378 (22081324)		
3627920.0	147.92550 (21081221)	161.91790 (20101624)	92.90325 (21080821)
70.89413 (21081621)	88.68219 (21040924)		
3627724.1	144.24099 (22082322)	115.40099 (21072221)	116.31844 (20100320)
124.49028 (22081324)	112.21874 (22051722)		
3627528.3	197.18922 (20101624)	149.28954 (20100320)	190.15256 (22081324)
162.58826 (21122302)	164.28398 (21052203)		
3627332.4	144.90950 (21080821)	163.63386 (22081324)	197.81930 (21122302)
181.21145 (21052203)	157.38612 (22061501)		
3627136.5	195.06883 (20100320)	201.89083 (21040924)	185.77412 (21052203)
182.88071 (22061501)	227.78161 (22091021)		
3626940.7	250.74652 (22081324)	177.45632 (21070722)	200.72176 (22061501)
223.10802 (22091021)	167.10432 (20081923)		
3626744.8	174.14419 (21070722)	193.86745 (22061501)	162.25514 (22091021)
194.22297 (20081923)	180.04674 (20071323)		
3626549.0	253.10692 (22061501)	198.17922 (22121802)	192.88260 (20071323)
181.55150 (22051721)	162.06621 (21090103)		
3626353.1	308.84775 (20081923)	254.97126 (22051721)	188.83915 (21090103)
264.59196 (20081602)	256.87579 (21072203)		
3626157.2	334.15102 (20081602)	355.02755 (21072203)	229.22497 (22102102)
221.56300 (21012119)	246.37366 (21080324)		
3625961.4	307.41585 (20062123)	346.10435 (20062123)	306.56561 (20062123)
260.15646 (20031703)	279.86819 (20031703)		
3625765.5	440.21176 (21020619)	406.51706 (21020619)	350.96543 (21020619)
319.10678 (22091222)	289.08168 (22091222)		
3625569.7	429.46386 (21020719)	405.66196 (21091323)	356.23653 (21040722)
312.86029 (21040722)	314.66447 (20070924)		
3625373.8	370.90731 (20110219)	361.84042 (21052723)	347.77963 (21072102)
318.73805 (21020719)	280.79754 (20041206)		
3625177.9	332.62352 (20042722)	347.51245 (22082502)	322.44517 (21063023)
309.09947 (21052723)	284.04066 (21072222)		
3624982.1	341.07234 (20051621)	302.49913 (22040123)	298.40160 (22082523)
294.62226 (22073105)	282.91843 (21063023)		
3624786.2	292.79776 (20041404)	301.77334 (20110221)	252.39430 (22040123)
219.63858 (20071003)	251.90973 (22082502)		
3624590.4	281.92112 (22072201)	234.31991 (21111920)	272.56727 (20110221)
224.72142 (20050501)	224.49973 (20071003)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:01:13

PAGE 56

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	54.48585 (21081621)
3628311.7	94.24744 (22081324)
3628115.8	83.06121 (21122302)
3627920.0	69.23383 (22051722)
3627724.1	104.51280 (21052203)
3627528.3	104.18927 (22061501)
3627332.4	169.54165 (22091021)
3627136.5	129.85961 (22121802)
3626940.7	152.65218 (20071323)
3626744.8	178.02467 (22051721)
3626549.0	164.78398 (21110620)
3626353.1	187.48713 (22102102)
3626157.2	210.26279 (22072121)
3625961.4	240.34111 (20031703)
3625765.5	248.17617 (22091222)
3625569.7	231.62228 (22091124)
3625373.8	291.89851 (21091323)
3625177.9	272.19812 (20092322)
3624982.1	264.17214 (21052723)
3624786.2	220.17046 (20092021)
3624590.4	233.23112 (22041522)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:01:13

PAGE 57

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC	Y-COORD (M) CONC	CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)
492883.25	3625830.80	983.49207	(22081005)		492919.80
3625834.65	909.70878 (21061601)				
492955.07	3625845.55	655.95337	(22092802)		493069.86
3625832.73	1714.13040 (22011423)				
493094.87	3625832.73	1540.70684	(21092324)		493110.90
3625837.21	1486.73131 (20101806)				
493151.95	3625834.01	1287.50854	(21092324)		493166.70
3625837.86	1226.39395 (20101806)				
493187.86	3625836.57	1141.24524	(20101806)		493201.33
3625836.57	1092.11496 (20101806)				
493240.44	3625836.57	977.09868	(20090820)		492881.32
3625908.40	812.43261 (21081604)				
492906.98	3625898.14	800.46915	(21081604)		492901.84
3625911.60	841.35904 (22032023)				
492928.14	3625914.81	823.02152	(21040201)		492933.91
3625898.14	856.76730 (21040201)				
492951.87	3625908.40	917.42059	(22102522)		492973.67
3625907.11	933.12857 (20111805)				
492993.55	3625914.17	1002.10337	(22090503)		492996.11
3625897.50	773.43375 (20011819)				
493015.99	3625896.85	820.65320	(22010702)		493023.05
3625912.24	1129.22407 (21081221)				
493044.21	3625907.11	1391.35349	(22010702)		493066.66
3625907.76	1242.31372 (22010702)				
493085.25	3625912.24	934.19048	(21052203)		493087.18
3625895.57	1128.14501 (20081923)				
493108.98	3625911.60	1009.23776	(20081923)		493112.19
3625897.50	1035.05140 (20071323)				
493133.99	3625901.98	954.08958	(20071323)		492874.27
3625788.48	893.28753 (20011918)				
492894.15	3625789.12	946.21878	(20011918)		492910.18
3625790.40	915.21201 (20011918)				
492930.70	3625786.55	978.79109	(22120301)		492947.38
3625791.04	1098.27876 (22120301)				
492963.41	3625787.84	934.07074	(20021622)		492982.65
3625787.84	925.72537 (22012923)				
492999.96	3625787.84	932.59716	(22012923)		493021.12
3625791.04	1128.50582 (22092602)				
493036.52	3625789.12	1167.91826	(21081022)		493055.75
3625789.76	1209.69491 (22051422)				
493076.28	3625787.84	1293.32340	(21072003)		493094.87
3625787.84	1442.81746 (22082504)				
493112.83	3625788.48	1234.76646	(20082306)		493129.50
3625787.19	1145.40962 (22092902)				

493148.74	3625787.19	1075.30479	(22092902)	493164.77
3625790.40	1072.80501	(20082305)		
493184.65	3625789.12	1014.88709	(20082305)	493201.97
3625791.04	1001.54677	(21040722)		
493221.21	3625790.40	964.75544	(21040722)	493238.52
3625791.04	920.52934	(21083001)		
492780.00	3626415.01	341.54217	(20111805)	492778.72
3626388.08	360.79881	(22090703)		
492747.94	3626386.16	376.97944	(22090703)	492742.16
3626418.22	370.54090	(22090703)		
492699.20	3626422.71	352.60494	(22102522)	492697.92
3626391.93	335.78407	(22102522)		
492678.68	3626411.81	321.83932	(20050702)	492626.09
3626426.56	302.33161	(22062102)		
492606.85	3626435.54	315.78330	(22072901)	492599.16
3626405.39	344.03950	(22072901)		
492491.20	3626644.88	221.71507	(22062102)	492517.36
3626636.70	216.71334	(20090706)		
492521.18	3626603.45	226.68829	(22062102)	492521.72
3626582.19	247.61868	(22062102)		
492512.46	3626553.84	275.87525	(22072901)	492513.55
3626533.13	278.92031	(22072901)		
492501.01	3626506.42	251.65507	(22072901)	492490.65
3626485.70	258.27195	(22090601)		
492479.21	3626464.45	284.81019	(22090601)	492466.12
3626447.00	276.00685	(22090601)		
492447.59	3626418.66	273.65090	(22092901)	492431.78
3626430.65	271.02464	(22092901)		
492481.93	3626620.35	248.39884	(22072901)	492482.48
3626594.18	266.63732	(22072901)		
492479.21	3626572.92	267.98009	(22072901)	492477.02
3626546.76	251.82746	(22072901)		
492467.76	3626523.32	237.18563	(22090601)	492463.94
3626507.51	261.21807	(22090601)		
492450.86	3626492.79	274.91848	(22090601)	492427.42
3626474.80	246.43029	(22090601)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 58

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
3626567.17	492402.89	3626460.63	264.84613	(22092901)	492823.25
				(22080905)	
	492838.34	3626526.92	319.65092	(22080905)	493039.78
3625834.45		1506.87379		(22011423)	
	492743.19	3626628.92	313.68403	(20111805)	492731.11
3626741.92		243.51013		(20111805)	
	492774.75	3626728.05	278.69353	(22080905)	492674.05
3626738.96		265.67647		(20111805)	
	492708.49	3626698.47	297.04780	(20111805)	492703.25
3626652.75		286.58666		(20111805)	
	492723.78	3626582.16	295.29151	(20111805)	492761.18
3626553.82		335.58573		(20111805)	
	493013.27	3625844.49	646.68587	(22090503)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:01:13

PAGE 59

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
491461.48	490879.18
	491655.58
	491073.28
	491267.38

```

- - - - -
- - - - -
3628507.6 | 145.21831 (21011618) 161.51658 (21040602) 167.59392 (21052422)
187.96143 (22072901) 210.72392 (20090706)
3628311.7 | 158.83633 (20040105) 168.35633 (21011618) 180.91301 (21040602)
191.09182 (22080803) 218.44192 (22062102)
3628115.8 | 160.35958 (20101702) 176.10089 (20040105) 194.70409 (21011618)
197.12361 (21040602) 223.58516 (20112323)
3627920.0 | 183.31639 (21122104) 191.52394 (20101702) 198.89548 (22120701)
225.63342 (21011618) 257.19816 (22090601)
3627724.1 | 195.28364 (22042905) 205.01026 (21021624) 222.63398 (21122104)
221.97678 (22120701) 273.11266 (21011618)
3627528.3 | 199.00070 (21100301) 215.40963 (22090223) 235.03170 (22120202)
278.07685 (21122104) 253.40691 (20122122)
3627332.4 | 197.00099 (21012123) 205.60481 (22112722) 235.01880 (21100301)
244.26542 (22090223) 279.11107 (21021624)
3627136.5 | 207.79808 (22010806) 212.77729 (21122503) 234.74502 (21020722)
258.52908 (21021622) 275.60766 (21100301)
3626940.7 | 204.38284 (22111307) 206.24567 (22102523) 245.11679 (21022323)
255.60558 (20101522) 276.38403 (21122503)
3626744.8 | 227.08082 (22010620) 261.50249 (21010801) 268.28626 (21010801)
269.46324 (21010801) 277.44787 (22050324)
3626549.0 | 239.76858 (21101721) 264.00859 (21101721) 257.50030 (21101721)
318.01904 (21101721) 348.27009 (20122123)
3626353.1 | 313.83337 (20122123) 364.19794 (20122123) 421.41769 (20122123)
418.60753 (20122123) 418.64401 (20122123)
3626157.2 | 204.10129 (21120719) 226.10680 (20041524) 298.09020 (20021206)
330.56232 (22120302) 348.95499 (22123102)
3625961.4 | 201.02640 (22120302) 216.06597 (22123102) 240.41884 (22012620)
262.74413 (22092801) 557.93395 (21030222)
3625765.5 | 216.24499 (20021723) 226.01158 (22092801) 278.71356 (21030222)
371.40921 (22010619) 471.32107 (20011520)
3625569.7 | 203.02991 (20033003) 297.10742 (21030222) 340.98332 (22010619)
448.12945 (20011520) 381.17881 (21110104)
3625373.8 | 265.87549 (21030222) 250.02332 (20011520) 343.21371 (20011520)
359.15419 (21110104) 453.72086 (20100406)
3625177.9 | 247.87372 (20011520) 302.38765 (20011520) 286.77884 (22120502)
267.68642 (20100406) 433.63071 (20111623)
3624982.1 | 215.49295 (20011520) 256.84285 (20050604) 263.79824 (21100901)
335.38201 (20100406) 322.16677 (20111623)
3624786.2 | 237.34288 (20050604) 225.74943 (21100901) 279.29440 (20100406)
306.23119 (20111623) 353.02028 (22012923)
3624590.4 | 223.89723 (21100901) 227.40975 (20100406) 244.06250 (20111623)
245.95710 (22012923) 254.24288 (20092303)

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

```

```

*** AERMET - VERSION 23132 *** ***

```

```

*** 15:01:13

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	491849.68	492043.78	492237.88
492431.98	492626.08		

 3628507.6 | 203.04873 (22090703) 295.71368 (22102624) 265.52078 (20101705)
 284.77914 (21081223) 266.55907 (22062723)
 3628311.7 | 239.05464 (20090706) 308.84117 (22090524) 387.44821 (20101705)
 358.89848 (21081223) 278.85673 (22062723)
 3628115.8 | 262.91219 (22102622) 263.48007 (22090524) 382.80440 (21030806)
 380.01340 (22011621) 293.38611 (22102623)
 3627920.0 | 272.06109 (22072901) 331.62942 (20090706) 388.08972 (20022222)
 375.79253 (22080905) 325.90181 (22102623)
 3627724.1 | 307.77131 (22090601) 330.17426 (22062102) 358.49048 (21020820)
 521.65800 (20101705) 351.04591 (22062022)
 3627528.3 | 322.87055 (21011618) 327.96414 (21052422) 403.33386 (20090706)
 545.49402 (22102624) 563.63959 (21081223)
 3627332.4 | 299.44150 (20101702) 379.52086 (21011618) 409.89542 (22080803)
 617.25047 (21020820) 681.12457 (22011621)
 3627136.5 | 311.26127 (21031502) 400.11872 (21122104) 482.80418 (21011618)
 607.54807 (22062102) 939.00942 (20101705)
 3626940.7 | 308.37377 (21020722) 353.70216 (20111323) 453.26941 (22042905)
 667.26549 (22120701) 1169.29289 (20090706)
 3626744.8 | 349.42189 (22111307) 410.72587 (21022323) 465.23318 (22010806)
 680.99845 (22120623) 1437.71855 (21021307)
 3626549.0 | 563.98750 (20122123) 1035.47885 (20122123) 1099.38716 (20122123)
 779.54423 (20021601) 2087.09578 (20011520)
 3626353.1 | 318.28685 (20103021) 425.71935 (20021206) 636.86345 (20071603)
 744.02307 (21090704) 818.75322 (20051704)

3626157.2	378.68925 (20021723)	660.53041 (21030222)	890.55925 (21110104)
1048.86093 (20111623)	809.83735 (22103002)		
3625961.4	568.28879 (20011520)	538.30885 (21110104)	709.94186 (20111623)
551.54724 (22012923)	684.67741 (22103002)		
3625765.5	427.88946 (21110104)	546.23224 (20100406)	611.65708 (22012923)
406.64833 (21092101)	478.12745 (20103021)		
3625569.7	441.97942 (20100406)	449.60949 (20111623)	341.96007 (22012923)
334.06868 (22121021)	410.65013 (22042324)		
3625373.8	545.25506 (20111623)	462.22053 (22012923)	303.29257 (22081704)
363.18631 (20091423)	365.79304 (21071905)		
3625177.9	467.52118 (22012923)	341.39388 (21101921)	279.04868 (22121021)
362.37457 (20111724)	348.40524 (21020303)		
3624982.1	378.64388 (22012923)	273.83438 (22081704)	266.82857 (21102022)
314.88579 (21040801)	445.15792 (20090401)		
3624786.2	271.23921 (21101921)	254.01438 (20032022)	261.31768 (20091423)
274.32713 (22081602)	275.32619 (20112021)		
3624590.4	236.90254 (22081704)	236.51845 (20091424)	258.71957 (20070224)
277.41327 (20021622)	375.68497 (20101822)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 61

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD		X-COORD (METERS)
(METERS)	492820.18	493014.28
493402.48	493596.58	493208.38

- - - - -
 - - - - -

3628507.6	204.10614 (22103119)	154.10517 (20081922)	171.38636 (21100706)

156.08179	(22061421)	129.98896	(20031321)	
3628311.7	216.28780	(22103119)	153.77714	(20081922) 178.80493 (20031321)
173.49834	(21081221)	172.10038	(22082322)	
3628115.8	183.65000	(22103119)	194.28909	(20022901) 234.94872 (22102202)
197.36745	(21081221)	215.42991	(20101624)	
3627920.0	202.01036	(22103119)	229.81323	(20022901) 236.64052 (22061421)
428.77331	(20101624)	264.19090	(21080821)	
3627724.1	328.88030	(22103119)	308.37648	(20022901) 236.17540 (21081221)
266.18331	(20101624)	349.75657	(22010702)	
3627528.3	314.87937	(22103119)	299.57408	(21100706) 471.61582 (20101624)
318.51292	(20121022)	242.81026	(21040924)	
3627332.4	385.81057	(22062723)	373.45771	(22102202) 379.91269 (20101624)
395.01173	(21122302)	371.87897	(22091021)	
3627136.5	511.42534	(22102021)	292.50640	(21081221) 270.75236 (22010702)
275.87363	(21052203)	302.35633	(22091021)	
3626940.7	821.00001	(22102021)	497.52660	(20101624) 358.14106 (21052203)
307.72207	(20081923)	291.85603	(22051721)	
3626744.8	1593.74722	(22062723)	767.58683	(22120120) 521.71286 (22120120)
420.17472	(21072203)	245.53835	(21080324)	
3626549.0	2284.12063	(20090822)	905.16933	(21021003) 829.40719 (20041206)
630.39181	(20070924)	364.24591	(21070923)	
3626353.1	1088.13465	(22081103)	1017.34973	(22081224) 832.54066 (20092022)
533.58704	(21090701)	552.65674	(21020719)	
3626157.2	840.12609	(22082605)	1158.86162	(22081002) 654.72903 (22081701)
514.71063	(22041522)	614.62203	(21063023)	
3625961.4	677.14546	(21052423)	1035.10436	(20022901) 765.59420 (20081923)
591.99994	(21072203)	446.06299	(20071003)	
3625765.5	787.13866	(22081101)	1133.88597	(22092602) 912.93048 (21020719)
653.63135	(21083001)	509.35812	(22091223)	
3625569.7	565.52061	(21040801)	1038.93334	(22090723) 667.79009 (22071602)
511.77203	(22082502)	482.49661	(21070803)	
3625373.8	557.72854	(22082605)	488.42344	(21103123) 579.62299 (20061224)
415.95298	(22080701)	374.49361	(20071003)	
3625177.9	513.70184	(22082605)	649.33885	(22052124) 705.25974 (21080902)
499.95312	(22070601)	491.26136	(21071002)	
3624982.1	487.15874	(22082605)	493.32964	(22052124) 822.29106 (20052502)
520.41227	(22070601)	356.15913	(22081002)	
3624786.2	433.74385	(22082605)	443.40215	(21103123) 692.86128 (21030703)
621.73593	(20061224)	368.02645	(22080705)	
3624590.4	277.79462	(20070424)	428.66190	(21103123) 544.21039 (21030703)
614.65772	(21061223)	504.42829	(22071602)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 62

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002

, L0000003 , L0000004 , L0000005 ,

L0000006 , L0000007 , L0000008 , L0000009 , L0000010

, L0000011 , L0000012 , L0000013 ,

L0000014 , L0000015 , L0000016 , L0000017 , L0000018

, L0000019 , L0000020 , L0000021 ,

L0000022 , L0000023 , L0000024 , L0000025 , L0000026

, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
494372.98	493790.68	494567.08	493984.78	494178.88

3628507.6	230.38201 (20101624)	173.66974 (20121022)	129.71310 (22081324)	
83.40724	(21122302)	78.51290 (21070722)		
3628311.7	240.74047 (21080821)	137.14361 (22081324)	98.60381 (21040924)	
77.84977	(21070722)	74.91868 (21052203)		
3628115.8	234.57092 (22011808)	168.60359 (22081324)	88.92749 (21070722)	
80.32223	(21052203)	84.53378 (22081324)		
3627920.0	271.96209 (22081324)	162.90928 (20101624)	97.10721 (21052203)	
76.99230	(22091021)	88.68219 (21040924)		
3627724.1	200.72772 (21122302)	167.12176 (21052203)	119.96667 (22091021)	
124.49028	(22081324)	131.75314 (20081923)		
3627528.3	267.04967 (22091021)	212.44705 (22091021)	190.51173 (22081324)	
162.82615	(21122302)	165.22551 (21052203)		
3627332.4	251.65125 (22091021)	209.98968 (20081923)	198.46049 (21122302)	
199.17328	(22051721)	158.98012 (22061501)		
3627136.5	249.65140 (20071323)	245.96761 (22051721)	353.90173 (20081602)	
277.03891	(21072203)	254.65053 (21072203)		
3626940.7	288.10303 (20081602)	277.58347 (21072203)	236.21719 (21091523)	
279.00419	(21080324)	282.96358 (21080324)		
3626744.8	267.06179 (21080324)	234.57408 (22072121)	187.91770 (21071321)	
206.48154	(20081923)	195.78016 (21071321)		
3626549.0	356.17850 (21070923)	316.16925 (21070923)	255.50097 (21070923)	
239.95414	(21070923)	227.27480 (21070923)		
3626353.1	500.30041 (21091323)	446.00482 (21040722)	245.52045 (21041404)	
372.25907	(21083001)	267.93140 (21072203)		
3626157.2	490.01678 (21070803)	427.96664 (20092322)	331.48735 (21020719)	
375.82525	(21091323)	312.29212 (22070202)		
3625961.4	547.98100 (22082502)	384.16146 (21063023)	334.99508 (21070803)	
270.63953	(20031703)	320.96325 (20092322)		

3625765.5		441.15229 (21020619)	407.50710 (21020619)	352.29160 (21020619)
351.56797	(21063023)	320.17510 (21052723)		
3625569.7		430.42254 (21020719)	406.28560 (21091323)	357.21001 (21040722)
313.91478	(21040722)	345.81809 (21063023)		
3625373.8		483.11853 (22080701)	362.63344 (21052723)	348.57686 (21072102)
319.67587	(21020719)	299.66148 (21082923)		
3625177.9		335.35484 (20042722)	348.54571 (22082502)	323.01581 (21063023)
309.89607	(21052723)	284.67723 (21072222)		
3624982.1		344.72091 (20051621)	303.36756 (22040123)	299.83624 (22082523)
304.79051	(22070621)	283.63815 (21063023)		
3624786.2		334.09191 (21071002)	306.57555 (20110221)	260.14674 (21111920)
270.89383	(21030821)	293.04849 (22091302)		
3624590.4		383.81835 (22081002)	299.16992 (22072201)	279.89686 (20110221)
274.58184	(21111920)	229.32293 (20071003)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:01:13

PAGE 63

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6		74.48462 (21052203)
3628311.7		94.24744 (22081324)
3628115.8		86.78178 (22091021)
3627920.0		74.85722 (20081923)
3627724.1		104.51280 (21052203)
3627528.3		113.93901 (22051721)

3627332.4		169.54418	(22091021)
3627136.5		156.38261	(21091523)
3626940.7		265.81828	(22072121)
3626744.8		198.62686	(20061323)
3626549.0		214.73032	(21070923)
3626353.1		276.13614	(22091223)
3626157.2		219.15529	(20062522)
3625961.4		248.57740	(20031703)
3625765.5		327.59974	(21072102)
3625569.7		303.78443	(21052723)
3625373.8		298.38633	(20082201)
3625177.9		301.07900	(22041522)
3624982.1		289.31182	(20071201)
3624786.2		271.20079	(21081124)
3624590.4		255.52918	(22091302)

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 64

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	984.47864	(22081005)	492919.80
3625834.65	911.09102	(21061601)		
492955.07	3625845.55	658.14034	(22092802)	493069.86
3625832.73	1720.06855	(22011423)		
493094.87	3625832.73	1543.05880	(21092324)	493110.90
3625837.21	1489.62560	(20101806)		

493151.95	3625834.01	1289.92465	(21092324)	493166.70
3625837.86	1229.34740	(20101806)		
493187.86	3625836.57	1144.24362	(20101806)	493201.33
3625836.57	1095.13733	(20101806)		
493240.44	3625836.57	978.67713	(20090820)	492881.32
3625908.40	813.83015	(21081604)		
492906.98	3625898.14	801.76583	(21081604)	492901.84
3625911.60	843.12306	(22032023)		
492928.14	3625914.81	824.39353	(21040201)	492933.91
3625898.14	858.04885	(21040201)		
492951.87	3625908.40	918.95502	(22102522)	492973.67
3625907.11	934.32246	(20111805)		
492993.55	3625914.17	1004.72905	(22090503)	492996.11
3625897.50	778.50355	(20011819)		
493015.99	3625896.85	823.46903	(22010702)	493023.05
3625912.24	1132.77587	(21081221)		
493044.21	3625907.11	1394.22449	(22010702)	493066.66
3625907.76	1245.44261	(22010702)		
493085.25	3625912.24	937.09886	(21052203)	493087.18
3625895.57	1131.49692	(20081923)		
493108.98	3625911.60	1012.52248	(20081923)	493112.19
3625897.50	1038.83476	(20071323)		
493133.99	3625901.98	958.15267	(20071323)	492874.27
3625788.48	894.65449	(20011918)		
492894.15	3625789.12	947.52910	(20011918)	492910.18
3625790.40	916.50575	(20011918)		
492930.70	3625786.55	981.11841	(22120301)	492947.38
3625791.04	1100.58044	(22120301)		
492963.41	3625787.84	935.35556	(20021622)	492982.65
3625787.84	927.80552	(22012923)		
492999.96	3625787.84	934.68058	(22012923)	493021.12
3625791.04	1438.59396	(22082506)		
493036.52	3625789.12	1484.84544	(22082506)	493055.75
3625789.76	1212.35851	(22051422)		
493076.28	3625787.84	1297.76694	(21072003)	493094.87
3625787.84	1445.03227	(22082504)		
493112.83	3625788.48	1236.91028	(20082306)	493129.50
3625787.19	1148.56236	(22092902)		
493148.74	3625787.19	1078.50487	(22092902)	493164.77
3625790.40	1075.37186	(20082305)		
493184.65	3625789.12	1017.53248	(20082305)	493201.97
3625791.04	1003.08357	(21040722)		
493221.21	3625790.40	966.31786	(21040722)	493238.52
3625791.04	922.66687	(21083001)		
492780.00	3626415.01	1554.26831	(20011420)	492778.72
3626388.08	1302.56274	(21021004)		
492747.94	3626386.16	1154.74844	(20052503)	492742.16
3626418.22	1454.43905	(20021220)		
492699.20	3626422.71	1409.61363	(21102022)	492697.92
3626391.93	1079.39101	(20070224)		

492678.68	3626411.81	1199.89374	(22052202)	492626.09
3626426.56	1039.09387	(21062101)		
492606.85	3626435.54	1860.14752	(20111623)	492599.16
3626405.39	1017.49889	(21062101)		
492491.20	3626644.88	1327.68957	(20122123)	492517.36
3626636.70	1688.81751	(20122123)		
492521.18	3626603.45	1447.51799	(20122123)	492521.72
3626582.19	1144.26363	(20021601)		
492512.46	3626553.84	1090.71601	(20120923)	492513.55
3626533.13	1140.98385	(21030222)		
492501.01	3626506.42	1476.36446	(21030222)	492490.65
3626485.70	1652.72312	(21030222)		
492479.21	3626464.45	1804.77493	(21030222)	492466.12
3626447.00	1659.93745	(21030222)		
492447.59	3626418.66	1029.34798	(20011520)	492431.78
3626430.65	1129.48909	(21030222)		
492481.93	3626620.35	1663.57257	(20122123)	492482.48
3626594.18	1317.45793	(20122123)		
492479.21	3626572.92	1017.50540	(20021601)	492477.02
3626546.76	992.29106	(20021722)		
492467.76	3626523.32	942.98691	(20022324)	492463.94
3626507.51	978.91022	(21030222)		
492450.86	3626492.79	1209.70324	(21030222)	492427.42
3626474.80	1335.48598	(21030222)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 65

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

Y-COORD (M)	CONC	(YYMMDDHH)
492402.89	3626460.63	936.62918 (20031423)
3626567.17	2501.69946	(21103122)
492838.34	3626526.92	2319.80158 (21103122)
3625834.45	1513.04279	(22011423)
492743.19	3626628.92	3666.99577 (20100406)
3626741.92	2715.74177	(20090706)
492774.75	3626728.05	3469.52194 (20101705)
3626738.96	2061.20022	(22011706)
492708.49	3626698.47	2830.63661 (22123104)
3626652.75	3443.97702	(20122123)
492723.78	3626582.16	3320.58861 (20111623)
3626553.82	2386.16196	(20112124)
493013.27	3625844.49	773.41474 (21080902)

*** AERMOD - VERSION 23132 ***
 C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU
 *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:01:13

PAGE 66

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE GRID-ID		
SLINE1	1ST HIGHEST VALUE IS	468.69528 AT (	492743.19, 3626628.92, 123.93,
	123.93, 0.00) DC		
	2ND HIGHEST VALUE IS	319.09852 AT (	492703.25, 3626652.75, 123.46,
	123.46, 0.00) DC		
	3RD HIGHEST VALUE IS	243.29535 AT (	492774.75, 3626728.05, 120.29,
	120.29, 0.00) DC		
	4TH HIGHEST VALUE IS	195.87931 AT (	492708.49, 3626698.47, 121.52,
	121.52, 0.00) DC		
	5TH HIGHEST VALUE IS	186.66318 AT (	492723.78, 3626582.16, 124.78,
	124.78, 0.00) DC		
	6TH HIGHEST VALUE IS	157.12635 AT (	492823.25, 3626567.17, 125.08,

125.08,	0.00) DC	139.31633 AT (	492731.11,	3626741.92,	118.49,
121.20,	0.00) DC				
	8TH HIGHEST VALUE IS	132.89802 AT (	492820.18,	3626744.82,	108.40,
125.30,	0.00) GC UCART1				
	9TH HIGHEST VALUE IS	127.41450 AT (	492761.18,	3626553.82,	125.16,
125.16,	0.00) DC				
	10TH HIGHEST VALUE IS	124.36805 AT (	492820.18,	3626548.96,	125.40,
125.40,	0.00) GC UCART1				
STCK1	1ST HIGHEST VALUE IS	112.42408 AT (	492838.34,	3626526.92,	125.45,
125.45,	0.00) DC				
	2ND HIGHEST VALUE IS	108.75133 AT (	492820.18,	3626548.96,	125.40,
125.40,	0.00) GC UCART1				
	3RD HIGHEST VALUE IS	81.22256 AT (	492823.25,	3626567.17,	125.08,
125.08,	0.00) DC				
	4TH HIGHEST VALUE IS	43.12088 AT (	492761.18,	3626553.82,	125.16,
125.16,	0.00) DC				
	5TH HIGHEST VALUE IS	28.27534 AT (	492699.20,	3626422.71,	129.76,
129.76,	0.00) DC				
	6TH HIGHEST VALUE IS	27.27188 AT (	492742.16,	3626418.22,	129.71,
129.71,	0.00) DC				
	7TH HIGHEST VALUE IS	24.95849 AT (	492678.68,	3626411.81,	130.96,
134.69,	0.00) DC				
	8TH HIGHEST VALUE IS	23.73468 AT (	492780.00,	3626415.01,	128.98,
135.14,	0.00) DC				
	9TH HIGHEST VALUE IS	22.42104 AT (	492723.78,	3626582.16,	124.78,
124.78,	0.00) DC				
	10TH HIGHEST VALUE IS	21.99572 AT (	492697.92,	3626391.93,	131.37,
134.78,	0.00) DC				
STCK2	1ST HIGHEST VALUE IS	156.36088 AT (	493039.78,	3625834.45,	141.93,
141.93,	0.00) DC				
	2ND HIGHEST VALUE IS	107.83633 AT (	493013.27,	3625844.49,	141.76,
141.76,	0.00) DC				
	3RD HIGHEST VALUE IS	104.37471 AT (	493069.86,	3625832.73,	142.17,
142.17,	0.00) DC				
	4TH HIGHEST VALUE IS	86.28154 AT (	493076.28,	3625787.84,	141.87,
141.87,	0.00) DC				
	5TH HIGHEST VALUE IS	85.24800 AT (	493055.75,	3625789.76,	141.87,
141.87,	0.00) DC				
	6TH HIGHEST VALUE IS	80.12173 AT (	493036.52,	3625789.12,	141.85,
141.85,	0.00) DC				
	7TH HIGHEST VALUE IS	78.47407 AT (	493021.12,	3625791.04,	141.82,
141.82,	0.00) DC				
	8TH HIGHEST VALUE IS	77.03139 AT (	493094.87,	3625787.84,	141.87,
141.87,	0.00) DC				
	9TH HIGHEST VALUE IS	68.58691 AT (	493094.87,	3625832.73,	142.17,
142.17,	0.00) DC				
	10TH HIGHEST VALUE IS	58.24440 AT (	492999.96,	3625787.84,	141.71,

141.71, 0.00) DC

ALL 1ST HIGHEST VALUE IS 486.34456 AT (492743.19, 3626628.92, 123.93,
123.93, 0.00) DC
2ND HIGHEST VALUE IS 331.92261 AT (492703.25, 3626652.75, 123.46,
123.46, 0.00) DC
3RD HIGHEST VALUE IS 253.05807 AT (492774.75, 3626728.05, 120.29,
120.29, 0.00) DC
4TH HIGHEST VALUE IS 239.68001 AT (492823.25, 3626567.17, 125.08,
125.08, 0.00) DC
5TH HIGHEST VALUE IS 234.50985 AT (492820.18, 3626548.96, 125.40,
125.40, 0.00) GC UCART1
6TH HIGHEST VALUE IS 211.73773 AT (492838.34, 3626526.92, 125.45,
125.45, 0.00) DC
7TH HIGHEST VALUE IS 210.48125 AT (492723.78, 3626582.16, 124.78,
124.78, 0.00) DC
8TH HIGHEST VALUE IS 206.35114 AT (492708.49, 3626698.47, 121.52,
121.52, 0.00) DC
9TH HIGHEST VALUE IS 171.95598 AT (492761.18, 3626553.82, 125.16,
125.16, 0.00) DC
10TH HIGHEST VALUE IS 161.98446 AT (493039.78, 3625834.45, 141.93,
141.93, 0.00) DC

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

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:01:13

PAGE 67

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

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

SLINE1 HIGH 1ST HIGH VALUE IS 3666.95178 ON 20100406: AT (492743.19,
3626628.92, 123.93, 123.93, 0.00) DC

STCK1 HIGH 1ST HIGH VALUE IS 1130.39987 ON 22092802: AT (492761.18,
3626553.82, 125.16, 125.16, 0.00) DC

STCK2 HIGH 1ST HIGH VALUE IS 1714.13040 ON 22011423: AT (493069.86,
3625832.73, 142.17, 142.17, 0.00) DC

ALL HIGH 1ST HIGH VALUE IS 3666.99577 ON 20100406: AT (492743.19,
3626628.92, 123.93, 123.93, 0.00) DC

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

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:01:13

PAGE 68

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

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

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

A Total of 0 Fatal Error Message(s)
A Total of 3 Warning Message(s)
A Total of 1415 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 654 Calm Hours Identified

A Total of 761 Missing Hours Identified (2.89 Percent)

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

***** WARNING MESSAGES *****
SO W320 167 PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
SO W320 168 PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
MX W403 275 PFLCNV: Turbulence data is being used w/o ADJ_U* option

SigA Data

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

HARP2 - HRACalc (dated 22118) 12/3/2024 3:11:05 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.5

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.5
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 2 HARP\hra\Phase 2

OffsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 2 HARP\hra\Phase 2

OffsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 2 HARP\hra\Phase 2

OffsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 2 HARP\hra\Phase 2

OffsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 2 HARP\hra\Phase 2

OffsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 2 HARP\hra\Phase 2

OffsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

470	ALL	493134	3625902	7.47E-08	1.5YrCance	7.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	492874.3	3625788	8.42E-08	1.5YrCance	8.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	492894.2	3625789	8.98E-08	1.5YrCance	8.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	492910.2	3625790	9.48E-08	1.5YrCance	9.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	492930.7	3625787	9.83E-08	1.5YrCance	9.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	492947.4	3625791	1.02E-07	1.5YrCance	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	492963.4	3625788	9.80E-08	1.5YrCance	9.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	492982.7	3625788	9.93E-08	1.5YrCance	9.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	493000	3625788	1.07E-07	1.5YrCance	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	493021.1	3625791	1.29E-07	1.5YrCance	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	493036.5	3625789	1.31E-07	1.5YrCance	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	493055.8	3625790	1.36E-07	1.5YrCance	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	493076.3	3625788	1.37E-07	1.5YrCance	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	493094.9	3625788	1.28E-07	1.5YrCance	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	493112.8	3625788	1.07E-07	1.5YrCance	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	493129.5	3625787	9.93E-08	1.5YrCance	9.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	493148.7	3625787	9.08E-08	1.5YrCance	9.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	493164.8	3625790	8.50E-08	1.5YrCance	8.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	493184.7	3625789	7.97E-08	1.5YrCance												

[illegible]

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEI RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL	UCART1	490879.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
2	ALL	UCART1	491073.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
3	ALL	UCART1	491267.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
4	ALL	UCART1	491461.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
5	ALL	UCART1	491655.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
6	ALL	UCART1	491849.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
7	ALL	UCART1	492043.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
8	ALL	UCART1	492237.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
9	ALL	UCART1	492432	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
10	ALL	UCART1	492626.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
11	ALL	UCART1	492820.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
12	ALL	UCART1	493014.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
13	ALL	UCART1	493208.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
14	ALL	UCART1	493402.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
15	ALL	UCART1	493596.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
16	ALL	UCART1	493790.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
17	ALL	UCART1	493984.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
18	ALL	UCART1	494178.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
19	ALL	UCART1	494373	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
20	ALL	UCART1	494567.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
21	ALL	UCART1	494761.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
22	ALL	UCART1	490879.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
23	ALL	UCART1	491073.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
24	ALL	UCART1	491267.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
25	ALL	UCART1	491461.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
26	ALL	UCART1	491655.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
27	ALL	UCART1	491849.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
28	ALL	UCART1	492043.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
29	ALL	UCART1	492237.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
30	ALL	UCART1	492432	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
31	ALL	UCART1	492626.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
32	ALL	UCART1	492820.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
33	ALL	UCART1	493014.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
34	ALL	UCART1	493208.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
35	ALL	UCART1	493402.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
36	ALL	UCART1	493596.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
37	ALL	UCART1	493790.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
38	ALL	UCART1	493984.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
39	ALL	UCART1	494178.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
40	ALL	UCART1	494373	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
41	ALL	UCART1	494567.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
42	ALL	UCART1	494761.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
43	ALL	UCART1	490879.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
44	ALL	UCART1	491073.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
45	ALL	UCART1	491267.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
46	ALL	UCART1	491461.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
47	ALL	UCART1	491655.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
48	ALL	UCART1	491849.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
49	ALL	UCART1	492043.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
50	ALL	UCART1	492237.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
51	ALL	UCART1	492432	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05

52		UCART1	492626.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
53 ALL		UCART1	492820.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
54 ALL		UCART1	493014.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
55 ALL		UCART1	493208.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
56 ALL		UCART1	493402.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
57 ALL		UCART1	493596.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
58 ALL		UCART1	493790.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
59 ALL		UCART1	493984.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
60 ALL		UCART1	494178.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
61 ALL		UCART1	494373	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
62 ALL		UCART1	494567.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
63 ALL		UCART1	494761.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
64 ALL		UCART1	490879.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
65 ALL		UCART1	491073.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05
66 ALL		UCART1	491267.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
67 ALL		UCART1	491461.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
68 ALL		UCART1	491655.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
69 ALL		UCART1	491849.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
70 ALL		UCART1	492043.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
71 ALL		UCART1	492237.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
72 ALL		UCART1	492432	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
73 ALL		UCART1	492626.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
74 ALL		UCART1	492820.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
75 ALL		UCART1	493014.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
76 ALL		UCART1	493208.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
77 ALL		UCART1	493402.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
78 ALL		UCART1	493596.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
79 ALL		UCART1	493790.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
80 ALL		UCART1	493984.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
81 ALL		UCART1	494178.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
82 ALL		UCART1	494373	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
83 ALL		UCART1	494567.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
84 ALL		UCART1	494761.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
85 ALL		UCART1	490879.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
86 ALL		UCART1	491073.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
87 ALL		UCART1	491267.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
88 ALL		UCART1	491461.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
89 ALL		UCART1	491655.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
90 ALL		UCART1	491849.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
91 ALL		UCART1	492043.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
92 ALL		UCART1	492237.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
93 ALL		UCART1	492432	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
94 ALL		UCART1	492626.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
95 ALL		UCART1	492820.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
96 ALL		UCART1	493014.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
97 ALL		UCART1	493208.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
98 ALL		UCART1	493402.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
99 ALL		UCART1	493596.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05
100 ALL		UCART1	493790.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
101 ALL		UCART1	493984.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
102 ALL		UCART1	494178.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
103 ALL		UCART1	494373	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00			

312		UCART1	494178.9	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-06
313	ALL	UCART1	494373	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-06
314	ALL	UCART1	494567.1	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-06
315	ALL	UCART1	494761.2	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-06
316	ALL	UCART1	490879.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
317	ALL	UCART1	491073.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
318	ALL	UCART1	491267.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
319	ALL	UCART1	491461.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
320	ALL	UCART1	491655.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
321	ALL	UCART1	491849.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
322	ALL	UCART1	492043.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05
323	ALL	UCART1	492237.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
324	ALL	UCART1	492432	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05
325	ALL	UCART1	492626.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05
326	ALL	UCART1	492820.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05
327	ALL	UCART1	493014.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05
328	ALL	UCART1	493208.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
329	ALL	UCART1	493402.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
330	ALL	UCART1	493596.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
331	ALL	UCART1	493790.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
332	ALL	UCART1	493984.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-06
333	ALL	UCART1	494178.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-06
334	ALL	UCART1	494373	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-06
335	ALL	UCART1	494567.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-06
336	ALL	UCART1	494761.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-06
337	ALL	UCART1	490879.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
338	ALL	UCART1	491073.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
339	ALL	UCART1	491267.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
340	ALL	UCART1	491461.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
341	ALL	UCART1	491655.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
342	ALL	UCART1	491849.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
343	ALL	UCART1	492043.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
344	ALL	UCART1	492237.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05
345	ALL	UCART1	492432	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
346	ALL	UCART1	492626.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05
347	ALL	UCART1	492820.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
348	ALL	UCART1	493014.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05
349	ALL	UCART1	493208.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
350	ALL	UCART1	493402.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
351	ALL	UCART1	493596.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
352	ALL	UCART1	493790.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-06
353	ALL	UCART1	493984.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-06
354	ALL	UCART1	494178.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-06
355	ALL	UCART1	494373	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-06
356	ALL	UCART1	494567.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-06
357	ALL	UCART1	494761.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-07
358	ALL	UCART1	490879.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

		493109	3625912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05
469 ALL		493112.2	3625898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05
470 ALL		493134	3625902	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05
471 ALL		492874.3	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-05
472 ALL		492894.2	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
473 ALL		492910.2	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05
474 ALL		492930.7	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05
475 ALL		492947.4	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05
476 ALL		492963.4	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05
477 ALL		492982.7	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05
478 ALL		493000	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05
479 ALL		493021.1	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
480 ALL		493036.5	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
481 ALL		493055.8	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
482 ALL		493076.3	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
483 ALL		493094.9	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05
484 ALL		493112.8	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-05
485 ALL		493129.5	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05
486 ALL		493148.7	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05
487 ALL		493164.8	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05
488 ALL		493184.7	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
489 ALL		493202	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05
490 ALL		493221.2	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05
491 ALL		493238.5	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
492 ALL		492780	3626415	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04
493 ALL		492778.7	3626388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
494 ALL		492747.9	3626386	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
495 ALL		492742.2	3626418	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04
496 ALL		492699.2	3626423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04
497 ALL		492697.9	3626392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
498 ALL		492678.7	3626412	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04
499 ALL		492626.1	3626427	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
500 ALL		492606.9	3626436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-04
501 ALL		492599.2	3626405	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
502 ALL		492491.2	3626645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04
503 ALL		492517.4	3626637	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-04
504 ALL		492521.2	3626603	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04
505 ALL		492521.7	3626582	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04
506 ALL		492512.5	3626554	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-04
507 ALL		492513.6	3626533	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04
508 ALL		492501	3626506	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04
509 ALL		492490.7	3626486	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04
510 ALL		492479.2	3626464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-04
511 ALL		492466.1	3626447	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04
512 ALL		492447.6	3626419	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04
513 ALL		492431.8	3626431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04
514 ALL		492481.9	3626620	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04
515 ALL		492482.5	3626594	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04
516 ALL		492479.2	3626573	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04
517 ALL		492477	3626547	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-04
518 ALL		492467.8	3626523	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04	0.00E+00							

[illegible]

HARP2 - HRACalc (dated 22118) 12/3/2024 3:10:47 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 1.5

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 1.5
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 2 HARP\hra\Phase 2

OnsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 2 HARP\hra\Phase 2

OnsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 2 HARP\hra\Phase 2

OnsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 2 HARP\hra\Phase 2

OnsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 2 HARP\hra\Phase 2

OnsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 2 HARP\hra\Phase 2

OnsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

470	ALL	493134	3625902	1.69E-09	1.5YrCance	1.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	492874.3	3625788	1.91E-09	1.5YrCance	1.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	492894.2	3625789	2.04E-09	1.5YrCance	2.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	492910.2	3625790	2.15E-09	1.5YrCance	2.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	492930.7	3625787	2.23E-09	1.5YrCance	2.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	492947.4	3625791	2.33E-09	1.5YrCance	2.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	492963.4	3625788	2.22E-09	1.5YrCance	2.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	492982.7	3625788	2.25E-09	1.5YrCance	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	493000	3625788	2.43E-09	1.5YrCance	2.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	493021.1	3625791	2.93E-09	1.5YrCance	2.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	493036.5	3625789	2.97E-09	1.5YrCance	2.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	493055.8	3625790	3.09E-09	1.5YrCance	3.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	493076.3	3625788	3.12E-09	1.5YrCance	3.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	493094.9	3625788	2.89E-09	1.5YrCance	2.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	493112.8	3625788	2.44E-09	1.5YrCance	2.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	493129.5	3625787	2.25E-09	1.5YrCance	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	493148.7	3625787	2.06E-09	1.5YrCance	2.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	493164.8	3625790	1.93E-09	1.5YrCance	1.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	493184.7	3625789	1.81E-09	1.5YrCance												

[illegible]

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEI RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL	UCART1	490879.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
2	ALL	UCART1	491073.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
3	ALL	UCART1	491267.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
4	ALL	UCART1	491461.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
5	ALL	UCART1	491655.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
6	ALL	UCART1	491849.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
7	ALL	UCART1	492043.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
8	ALL	UCART1	492237.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
9	ALL	UCART1	492432	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
10	ALL	UCART1	492626.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
11	ALL	UCART1	492820.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
12	ALL	UCART1	493014.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
13	ALL	UCART1	493208.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
14	ALL	UCART1	493402.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
15	ALL	UCART1	493596.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
16	ALL	UCART1	493790.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
17	ALL	UCART1	493984.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
18	ALL	UCART1	494178.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
19	ALL	UCART1	494373	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
20	ALL	UCART1	494567.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
21	ALL	UCART1	494761.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
22	ALL	UCART1	490879.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
23	ALL	UCART1	491073.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
24	ALL	UCART1	491267.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
25	ALL	UCART1	491461.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
26	ALL	UCART1	491655.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
27	ALL	UCART1	491849.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
28	ALL	UCART1	492043.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
29	ALL	UCART1	492237.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
30	ALL	UCART1	492432	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
31	ALL	UCART1	492626.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
32	ALL	UCART1	492820.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
33	ALL	UCART1	493014.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
34	ALL	UCART1	493208.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
35	ALL	UCART1	493402.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
36	ALL	UCART1	493596.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
37	ALL	UCART1	493790.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
38	ALL	UCART1	493984.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
39	ALL	UCART1	494178.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
40	ALL	UCART1	494373	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
41	ALL	UCART1	494567.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
42	ALL	UCART1	494761.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
43	ALL	UCART1	490879.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
44	ALL	UCART1	491073.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
45	ALL	UCART1	491267.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
46	ALL	UCART1	491461.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
47	ALL	UCART1	491655.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
48	ALL	UCART1	491849.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
49	ALL	UCART1	492043.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
50	ALL	UCART1	492237.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
51	ALL	UCART1	492432	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05

52		UCART1	492626.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
53 ALL		UCART1	492820.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
54 ALL		UCART1	493014.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
55 ALL		UCART1	493208.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
56 ALL		UCART1	493402.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
57 ALL		UCART1	493596.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
58 ALL		UCART1	493790.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
59 ALL		UCART1	493984.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
60 ALL		UCART1	494178.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
61 ALL		UCART1	494373	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
62 ALL		UCART1	494567.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
63 ALL		UCART1	494761.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
64 ALL		UCART1	490879.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
65 ALL		UCART1	491073.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05
66 ALL		UCART1	491267.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
67 ALL		UCART1	491461.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
68 ALL		UCART1	491655.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
69 ALL		UCART1	491849.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
70 ALL		UCART1	492043.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
71 ALL		UCART1	492237.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
72 ALL		UCART1	492432	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
73 ALL		UCART1	492626.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
74 ALL		UCART1	492820.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
75 ALL		UCART1	493014.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
76 ALL		UCART1	493208.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
77 ALL		UCART1	493402.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
78 ALL		UCART1	493596.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
79 ALL		UCART1	493790.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
80 ALL		UCART1	493984.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
81 ALL		UCART1	494178.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
82 ALL		UCART1	494373	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
83 ALL		UCART1	494567.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
84 ALL		UCART1	494761.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
85 ALL		UCART1	490879.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
86 ALL		UCART1	491073.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
87 ALL		UCART1	491267.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
88 ALL		UCART1	491461.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
89 ALL		UCART1	491655.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
90 ALL		UCART1	491849.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
91 ALL		UCART1	492043.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
92 ALL		UCART1	492237.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
93 ALL		UCART1	492432	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
94 ALL		UCART1	492626.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
95 ALL		UCART1	492820.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
96 ALL		UCART1	493014.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
97 ALL		UCART1	493208.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
98 ALL		UCART1	493402.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
99 ALL		UCART1	493596.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05
100 ALL		UCART1	493790.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
101 ALL		UCART1	493984.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
102 ALL		UCART1	494178.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
103 ALL		UCART1	494373	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00			

[illegible]

[illegible]

		493109	3625912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05
469 ALL		493112.2	3625898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05
470 ALL		493134	3625902	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05
471 ALL		492874.3	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-05
472 ALL		492894.2	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
473 ALL		492910.2	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05
474 ALL		492930.7	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05
475 ALL		492947.4	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05
476 ALL		492963.4	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05
477 ALL		492982.7	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05
478 ALL		493000	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05
479 ALL		493021.1	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
480 ALL		493036.5	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
481 ALL		493055.8	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
482 ALL		493076.3	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
483 ALL		493094.9	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05
484 ALL		493112.8	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-05
485 ALL		493129.5	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05
486 ALL		493148.7	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05
487 ALL		493164.8	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05
488 ALL		493184.7	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
489 ALL		493202	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05
490 ALL		493221.2	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05
491 ALL		493238.5	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
492 ALL		492780	3626415	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04
493 ALL		492778.7	3626388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
494 ALL		492747.9	3626386	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
495 ALL		492742.2	3626418	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04
496 ALL		492699.2	3626423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04
497 ALL		492697.9	3626392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
498 ALL		492678.7	3626412	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04
499 ALL		492626.1	3626427	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
500 ALL		492606.9	3626436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-04
501 ALL		492599.2	3626405	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
502 ALL		492491.2	3626645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04
503 ALL		492517.4	3626637	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-04
504 ALL		492521.2	3626603	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04
505 ALL		492521.7	3626582	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04
506 ALL		492512.5	3626554	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-04
507 ALL		492513.6	3626533	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04
508 ALL		492501	3626506	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04
509 ALL		492490.7	3626486	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04
510 ALL		492479.2	3626464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-04
511 ALL		492466.1	3626447	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04
512 ALL		492447.6	3626419	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04
513 ALL		492431.8	3626431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04
514 ALL		492481.9	3626620	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04
515 ALL		492482.5	3626594	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04
516 ALL		492479.2	3626573	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04
517 ALL		492477	3626547	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-04
518 ALL		492467.8	3626523	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04	0.00E+00							

[illegible]

SDSU Evolve Phase 3 HRA 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
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
- 3. Construction Emissions Details
 - 3.1. Demolition (2028) - Unmitigated
 - 3.3. Site Preparation (2028) - Unmitigated
 - 3.5. Grading (2028) - Unmitigated
 - 3.7. Building Construction (2028) - Unmitigated
 - 3.9. Building Construction (2029) - Unmitigated

3.11. Paving (2029) - Unmitigated

3.13. Architectural Coating (2029) - Unmitigated

3.15. Trenching (2028) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

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

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	SDSU Evolve Phase 3 HRA
Construction Start Date	2/24/2028
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	1.80
Location	32.77754140411972, -117.07772216206095
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6514
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	760	Dwelling Unit	12.3	729,600	21,626	—	2,120	—

Other Asphalt Surfaces	0.63	Acre	0.63	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	68.4	68.4	4.70	13.0	0.02	0.04	2.78	2.82	0.04	1.34	1.38	—	2,374	2,374	0.13	0.06	0.16	2,394
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.19	0.19	3.37	10.8	0.02	0.04	3.61	3.63	0.04	1.31	1.35	—	1,972	1,972	0.08	0.03	< 0.005	1,980
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.6	12.6	2.14	4.95	0.01	0.01	0.50	0.52	0.01	0.18	0.19	—	791	791	0.04	0.02	0.03	798
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.30	2.30	0.39	0.90	< 0.005	< 0.005	0.09	0.09	< 0.005	0.03	0.03	—	131	131	0.01	< 0.005	0.01	132

2.2. Construction Emissions by Year, Unmitigated

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

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

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.33	0.28	4.70	13.0	0.02	0.04	2.78	2.82	0.04	1.34	1.38	—	2,374	2,374	0.13	0.06	0.16	2,394
2029	68.4	68.4	3.36	6.87	0.01	0.02	0.02	0.03	0.02	< 0.005	0.02	—	1,044	1,044	0.06	0.03	0.12	1,055
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.19	0.19	3.37	10.8	0.02	0.04	3.61	3.63	0.04	1.31	1.35	—	1,972	1,972	0.08	0.03	< 0.005	1,980
2029	0.17	0.15	3.35	6.87	0.01	0.02	0.02	0.03	0.02	< 0.005	0.02	—	1,039	1,039	0.06	0.03	< 0.005	1,049
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.12	0.11	2.14	4.95	0.01	0.01	0.50	0.52	0.01	0.18	0.19	—	791	791	0.04	0.02	0.03	798
2029	12.6	12.6	0.96	2.08	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	314	314	0.02	0.01	0.01	318
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.02	0.02	0.39	0.90	< 0.005	< 0.005	0.09	0.09	< 0.005	0.03	0.03	—	131	131	0.01	< 0.005	0.01	132
2029	2.30	2.30	0.17	0.38	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	52.1	52.1	< 0.005	< 0.005	< 0.005	52.6

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.6	22.2	2.78	54.7	0.04	0.15	2.26	2.41	0.15	0.57	0.72	368	4,909	5,276	37.5	0.29	11.4	6,311
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.6	18.4	2.46	11.0	0.03	0.13	2.26	2.39	0.13	0.57	0.70	368	4,683	5,051	37.5	0.30	5.38	6,081
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	20.5	20.2	2.56	31.5	0.03	0.14	2.25	2.39	0.13	0.57	0.71	368	4,597	4,965	37.5	0.29	7.87	5,997
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.74	3.69	0.47	5.75	0.01	0.03	0.41	0.44	0.02	0.10	0.13	60.9	761	822	6.20	0.05	1.30	993

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.56	1.44	0.89	9.80	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,499	2,499	0.12	0.10	6.14	2,537
Area	20.8	20.6	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	115	115	< 0.005	< 0.005	—	116
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,043	2,043	0.39	0.03	—	2,062
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	22.6	22.2	2.78	54.7	0.04	0.15	2.26	2.41	0.15	0.57	0.72	368	4,909	5,276	37.5	0.29	11.4	6,311
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.54	1.41	0.98	9.32	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,389	2,389	0.12	0.10	0.16	2,422
Area	16.9	16.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,043	2,043	0.39	0.03	—	2,062
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223

Total	18.6	18.4	2.46	11.0	0.03	0.13	2.26	2.39	0.13	0.57	0.70	368	4,683	5,051	37.5	0.30	5.38	6,081
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.52	1.40	0.96	9.29	0.02	0.02	2.25	2.27	0.02	0.57	0.59	—	2,406	2,406	0.12	0.10	2.65	2,441
Area	18.8	18.7	0.20	21.3	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	56.9	56.9	< 0.005	< 0.005	—	57.1
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,043	2,043	0.39	0.03	—	2,062
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.02	0.02	0.04	0.32	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	63.4	63.4	< 0.005	< 0.005	0.00	63.6
Total	20.5	20.2	2.56	31.5	0.03	0.14	2.25	2.39	0.13	0.57	0.71	368	4,597	4,965	37.5	0.29	7.87	5,997
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.28	0.25	0.18	1.70	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	398	398	0.02	0.02	0.44	404
Area	3.43	3.42	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45
Energy	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	338	338	0.06	0.01	—	341
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2
Waste	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Stationary	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	3.74	3.69	0.47	5.75	0.01	0.03	0.41	0.44	0.02	0.10	0.13	60.9	761	822	6.20	0.05	1.30	993

3. Construction Emissions Details

3.1. Demolition (2028) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	2.13	5.00	0.01	0.01	—	0.01	0.01	—	0.01	—	716	716	0.03	0.01	—	718
Demolition	—	—	—	—	—	—	3.60	3.60	—	0.54	0.54	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.12	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.2	39.2	< 0.005	< 0.005	—	39.3
Demolition	—	—	—	—	—	—	0.20	0.20	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.49	6.49	< 0.005	< 0.005	—	6.51
Demolition	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.20	7.20	< 0.005	< 0.005	< 0.005	7.55
Hauling	0.07	0.04	1.06	0.74	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	164	164	0.03	0.03	< 0.005	173
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.39	0.39	< 0.005	< 0.005	< 0.005	0.41
Hauling	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.94	8.94	< 0.005	< 0.005	< 0.005	9.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.07
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.48	1.48	< 0.005	< 0.005	< 0.005	1.56

3.3. Site Preparation (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,960	1,960	0.08	0.02	—	1,967
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,960	1,960	0.08	0.02	—	1,967
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.7	53.7	< 0.005	< 0.005	—	53.9
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.89	8.89	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.13	7.13	< 0.005	< 0.005	0.01	7.49
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.20	7.20	< 0.005	< 0.005	< 0.005	7.55
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2028) - Unmitigated

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

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

Off-Road	0.21	0.21	2.08	11.9	0.02	0.04	—	0.04	0.04	—	0.04	—	2,125	2,125	0.09	0.02	—	2,133
Dust From Material Movement	—	—	—	—	—	—	2.75	2.75	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	175	175	0.01	< 0.005	—	175
Dust From Material Movement	—	—	—	—	—	—	0.23	0.23	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	28.9	28.9	< 0.005	< 0.005	—	29.0
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.13	7.13	< 0.005	< 0.005	0.01	7.49
Hauling	0.11	0.07	1.46	1.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	236	236	0.04	0.04	0.15	249
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.59	0.59	< 0.005	< 0.005	< 0.005	0.62
Hauling	0.01	0.01	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.5	19.5	< 0.005	< 0.005	0.01	20.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.23	3.23	< 0.005	< 0.005	< 0.005	3.40

3.7. Building Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	1.09	2.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	391	391	0.02	< 0.005	—	392
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.20	0.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	64.7	64.7	< 0.005	< 0.005	—	64.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.07	0.04	0.85	0.61	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	146	146	0.02	0.02	0.13	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.06	0.04	0.89	0.64	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	148	148	0.02	0.02	< 0.005	155
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.03	0.02	0.38	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	64.6	64.6	0.01	0.01	0.02	67.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	< 0.005	11.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.03	0.03	0.66	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	234	234	0.01	< 0.005	—	235
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.12	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.8	38.8	< 0.005	< 0.005	—	38.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.06	0.04	0.83	0.60	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	143	143	0.02	0.02	0.11	151
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.06	0.04	0.87	0.63	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	145	145	0.02	0.02	< 0.005	152
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.02	0.01	0.23	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	38.0	38.0	0.01	0.01	0.01	39.9

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.29	6.29	< 0.005	< 0.005	< 0.005	6.61
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	1.22	4.72	0.01	0.01	—	0.01	0.01	—	0.01	—	673	673	0.03	0.01	—	675
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.07	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.9	36.9	< 0.005	< 0.005	—	37.0
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.10	6.10	< 0.005	< 0.005	—	6.12
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.99	6.99	< 0.005	< 0.005	0.01	7.34
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.07
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2029) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	12.5	12.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	2.29	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.99	6.99	< 0.005	< 0.005	0.01	7.34
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.29	1.29	< 0.005	< 0.005	< 0.005	1.35
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.22
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching (2028) - Unmitigated

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

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

Off-Road Equipm ent	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	284	284	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.16	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.2	34.2	< 0.005	< 0.005	—	34.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.66	5.66	< 0.005	< 0.005	—	5.68
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.13	7.13	< 0.005	< 0.005	0.01	7.49
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.56	1.44	0.89	9.80	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,499	2,499	0.12	0.10	6.14	2,537
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.56	1.44	0.89	9.80	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,499	2,499	0.12	0.10	6.14	2,537
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	1.54	1.41	0.98	9.32	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,389	2,389	0.12	0.10	0.16	2,422
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.54	1.41	0.98	9.32	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,389	2,389	0.12	0.10	0.16	2,422
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.28	0.25	0.18	1.70	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	398	398	0.02	0.02	0.44	404
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.28	0.25	0.18	1.70	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	398	398	0.02	0.02	0.44	404

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	318	318	0.23	0.03	—	333
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	318	318	0.23	0.03	—	333

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	318	318	0.23	0.03	—	333
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	318	318	0.23	0.03	—	333
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	52.7	52.7	0.04	< 0.005	—	55.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	52.7	52.7	0.04	< 0.005	—	55.1

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect ural	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipm ent	3.95	3.74	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	115	115	< 0.005	< 0.005	—	116
Total	20.8	20.6	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	115	115	< 0.005	< 0.005	—	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consum er Product s	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coating s	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	16.9	16.9	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consum er Product s	2.85	2.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coating s	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipm ent	0.36	0.34	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.45
Total	3.43	3.42	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	2/24/2028	3/23/2028	5.00	20.0	—
Site Preparation	Site Preparation	3/24/2028	4/7/2028	5.00	10.0	—
Grading	Grading	4/8/2028	5/20/2028	5.00	30.0	—
Building Construction	Building Construction	5/21/2028	5/15/2029	5.00	257	—
Paving	Paving	5/16/2029	6/12/2029	5.00	20.0	—
Architectural Coating	Architectural Coating	4/11/2029	7/12/2029	5.00	67.0	—
Trenching	Trenching	5/21/2028	7/20/2028	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40

Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	7.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	2.00	7.00	36.0	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	7.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	12.0	LDA,LDT1,LDT2
Demolition	Vendor	4.00	0.25	HHDT,MHDT
Demolition	Hauling	66.0	0.25	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—

Site Preparation	Worker	0.00	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	0.25	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	0.25	HHDT,MHDT
Grading	Hauling	96.0	0.25	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	82.0	0.25	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	0.25	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	0.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	0.25	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT

Trenching	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	1,477,440	492,480	0.00	0.00	1,634

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	5,204	—
Site Preparation	—	—	5.00	0.00	—
Grading	18,400	4,400	140	0.00	—
Paving	0.00	0.00	0.00	0.00	0.63

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt

Apartments High Rise	—	0%
Other Asphalt Surfaces	0.63	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2028	29,071	45.1	0.03	< 0.005
2029	29,071	45.1	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
Apartments High Rise	420	420	420	153,455	3,195	3,195	3,195	1,166,260
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0

No Fireplaces	760
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1477440	492,480	0.00	0.00	1,634

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments High Rise	2,577,061	45.1	0.0330	0.0040	5,379,612
Other Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

Apartments High Rise	33,953,291	740,799
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	562	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

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

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	52.0	530	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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	9.08	annual days of extreme heat
Extreme Precipitation	2.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	4.89	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	46.0

AQ-DPM	78.3
Drinking Water	29.0
Lead Risk Housing	22.5
Pesticides	0.00
Toxic Releases	36.0
Traffic	83.2
Effect Indicators	—
CleanUp Sites	53.4
Groundwater	68.4
Haz Waste Facilities/Generators	37.7
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	38.4
Cardio-vascular	12.7
Low Birth Weights	9.08
Socioeconomic Factor Indicators	—
Education	—
Housing	96.5
Linguistic	—
Poverty	91.8
Unemployment	92.2

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	20.95470294

Employed	9.534197357
Median HI	17.43872706
Education	—
Bachelor's or higher	81.12408572
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	11.04837675
Active commuting	89.42640832
Social	—
2-parent households	99.56371102
Voting	22.66136276
Neighborhood	—
Alcohol availability	85.46131143
Park access	20.23610933
Retail density	97.62607468
Supermarket access	2.399589375
Tree canopy	71.71820865
Housing	—
Homeownership	27.87116643
Housing habitability	26.51097138
Low-inc homeowner severe housing cost burden	97.99820352
Low-inc renter severe housing cost burden	0.346464776
Uncrowded housing	50.16040036
Health Outcomes	—
Insured adults	68.95932247
Arthritis	97.1
Asthma ER Admissions	70.5

High Blood Pressure	98.1
Cancer (excluding skin)	89.7
Asthma	21.6
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	97.2
Life Expectancy at Birth	60.4
Cognitively Disabled	72.6
Physically Disabled	83.0
Heart Attack ER Admissions	96.5
Mental Health Not Good	34.8
Chronic Kidney Disease	95.6
Obesity	88.9
Pedestrian Injuries	19.6
Physical Health Not Good	81.0
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.6
Current Smoker	47.6
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	47.1
SLR Inundation Area	0.0
Children	96.5
Elderly	59.3
English Speaking	55.7
Foreign-born	45.8
Outdoor Workers	77.3

Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	96.7
Traffic Access	61.3
Other Indices	—
Hardship	53.0
Other Decision Support	—
2016 Voting	37.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	47.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Construction: Construction Phases	Based on applicant provided information.
Characteristics: Utility Information	Phase 1 is within the on-campus grid getting electricity from the cogen.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	Based on LLG traffic study.
Operations: Hearths	No stoves or fireplaces.
Operations: Generators + Pumps EF	Tier 4 Final
Operations: Water and Waste Water	Based on applicant provided information.
Construction: Dust From Material Movement	Based on applicant provided information.
Operations: Emergency Generators and Fire Pumps	Based on applicant provided information
Construction: Electricity	Estimated electricity use.

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 10/22/2024
** File: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU Evolve
Phase 3\SDSU Evolve Phase 1.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL "SDSU Evolve Phase 1.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC
** PREFIX
** Length of Side = 8.60
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 16
** 492681.001, 3626753.323, 117.44, 3.40, 4.00
** 492682.681, 3626723.921, 120.76, 3.40, 4.00
** 492702.842, 3626702.080, 121.34, 3.40, 4.00

```


** 492720.483, 3626709.640, 121.57, 3.40, 4.00
 ** 492738.124, 3626701.240, 121.64, 3.40, 4.00
 ** 492796.928, 3626731.482, 120.39, 3.40, 4.00
 ** 492784.327, 3626744.082, 115.69, 3.40, 4.00
 ** 492692.761, 3626749.963, 117.62, 3.40, 4.00
 ** 492698.642, 3626727.281, 121.05, 3.40, 4.00
 ** 492707.882, 3626718.041, 121.21, 3.40, 4.00
 ** 492724.683, 3626723.921, 121.20, 3.40, 4.00
 ** 492737.284, 3626717.201, 121.12, 3.40, 4.00
 ** 492777.607, 3626735.682, 120.11, 3.40, 4.00
 ** 492707.042, 3626741.562, 119.46, 3.40, 4.00
 ** 492708.722, 3626731.482, 121.15, 3.40, 4.00
 ** 492744.844, 3626729.801, 120.55, 3.40, 4.00

**

LOCATION L0000001	VOLUME	492681.246	3626749.030	118.70
LOCATION L0000002	VOLUME	492681.736	3626740.444	119.88
LOCATION L0000003	VOLUME	492682.227	3626731.858	121.05
LOCATION L0000004	VOLUME	492683.122	3626723.443	120.96
LOCATION L0000005	VOLUME	492688.955	3626717.124	120.96
LOCATION L0000006	VOLUME	492694.788	3626710.805	121.05
LOCATION L0000007	VOLUME	492700.621	3626704.485	121.23
LOCATION L0000008	VOLUME	492707.737	3626704.178	121.37
LOCATION L0000009	VOLUME	492715.642	3626707.565	121.42
LOCATION L0000010	VOLUME	492723.492	3626708.207	121.48
LOCATION L0000011	VOLUME	492731.257	3626704.510	121.56
LOCATION L0000012	VOLUME	492739.008	3626701.694	121.51
LOCATION L0000013	VOLUME	492746.656	3626705.627	121.29
LOCATION L0000014	VOLUME	492754.304	3626709.561	121.01
LOCATION L0000015	VOLUME	492761.952	3626713.494	120.96
LOCATION L0000016	VOLUME	492769.600	3626717.427	120.87
LOCATION L0000017	VOLUME	492777.247	3626721.360	120.72
LOCATION L0000018	VOLUME	492784.895	3626725.293	120.50
LOCATION L0000019	VOLUME	492792.543	3626729.227	120.32
LOCATION L0000020	VOLUME	492794.333	3626734.076	119.29
LOCATION L0000021	VOLUME	492788.252	3626740.157	117.27
LOCATION L0000022	VOLUME	492781.284	3626744.278	116.17
LOCATION L0000023	VOLUME	492772.701	3626744.829	116.22
LOCATION L0000024	VOLUME	492764.119	3626745.380	116.29
LOCATION L0000025	VOLUME	492755.537	3626745.931	116.37
LOCATION L0000026	VOLUME	492746.954	3626746.482	116.62
LOCATION L0000027	VOLUME	492738.372	3626747.034	116.87
LOCATION L0000028	VOLUME	492729.790	3626747.585	117.13
LOCATION L0000029	VOLUME	492721.207	3626748.136	117.55
LOCATION L0000030	VOLUME	492712.625	3626748.687	118.01
LOCATION L0000031	VOLUME	492704.043	3626749.238	118.51
LOCATION L0000032	VOLUME	492695.461	3626749.789	118.53
LOCATION L0000033	VOLUME	492694.241	3626744.256	119.32
LOCATION L0000034	VOLUME	492696.399	3626735.931	120.50
LOCATION L0000035	VOLUME	492698.557	3626727.607	121.14
LOCATION L0000036	VOLUME	492704.485	3626721.438	121.22

LOCATION	L0000037	VOLUME	492711.465	3626719.295	121.27
LOCATION	L0000038	VOLUME	492719.582	3626722.136	121.29
LOCATION	L0000039	VOLUME	492727.503	3626722.417	121.33
LOCATION	L0000040	VOLUME	492735.091	3626718.370	121.22
LOCATION	L0000041	VOLUME	492742.842	3626719.748	120.96
LOCATION	L0000042	VOLUME	492750.660	3626723.331	120.60
LOCATION	L0000043	VOLUME	492758.478	3626726.915	120.31
LOCATION	L0000044	VOLUME	492766.296	3626730.498	120.15
LOCATION	L0000045	VOLUME	492774.114	3626734.081	119.31
LOCATION	L0000046	VOLUME	492772.864	3626736.077	118.74
LOCATION	L0000047	VOLUME	492764.294	3626736.791	118.63
LOCATION	L0000048	VOLUME	492755.724	3626737.505	118.55
LOCATION	L0000049	VOLUME	492747.154	3626738.220	118.72
LOCATION	L0000050	VOLUME	492738.583	3626738.934	118.92
LOCATION	L0000051	VOLUME	492730.013	3626739.648	119.11
LOCATION	L0000052	VOLUME	492721.443	3626740.362	119.24
LOCATION	L0000053	VOLUME	492712.872	3626741.076	119.40
LOCATION	L0000054	VOLUME	492707.494	3626738.850	119.96
LOCATION	L0000055	VOLUME	492709.851	3626731.429	121.16
LOCATION	L0000056	VOLUME	492718.442	3626731.029	121.19
LOCATION	L0000057	VOLUME	492727.032	3626730.630	121.21
LOCATION	L0000058	VOLUME	492735.623	3626730.230	120.96
LOCATION	L0000059	VOLUME	492744.214	3626729.831	120.63
** End of LINE VOLUME Source ID = SLINE1					
LOCATION	STCK1	POINT	492847.720	3626536.360	124.220
** DESCRSRC Phase 1A Generator					
LOCATION	STCK2	POINT	492991.100	3625839.681	141.860
** DESCRSRC Phase 1B Generator					
LOCATION	STCK3	POINT	492813.583	3626627.676	123.610
** DESCRSRC Phase 2 Generator					
** Source Parameters **					
** LINE VOLUME Source ID = SLINE1					
SRCPARAM	L0000001	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000002	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000003	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000004	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000005	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000006	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000007	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000008	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000009	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000010	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000011	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000012	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000013	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000014	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000015	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000016	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000017	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000018	0.0169491525	3.40	4.00	3.16

SRCPARAM	L0000019	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000020	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000021	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000022	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000023	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000024	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000025	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000026	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000027	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000028	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000029	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000030	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000031	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000032	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000033	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000034	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000035	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000036	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000037	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000038	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000039	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000040	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000041	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000042	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000043	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000044	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000045	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000046	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000047	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000048	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000049	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000050	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000051	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000052	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000053	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000054	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000055	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000056	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000057	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000058	0.0169491525	3.40	4.00	3.16
SRCPARAM	L0000059	0.0169491525	3.40	4.00	3.16

**

SRCPARAM	STCK1	1.0	2.499	772.594	60.63624912892	0.13463016
SRCPARAM	STCK2	1.0	2.499	772.594	60.63624912892	0.13463016
SRCPARAM	STCK3	1.0	2.316	699.261	42.5980161814675	0.2033016

** Building Downwash **

BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	34.14	34.14	34.14	34.14	28.65

BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	34.14	28.65	28.65	28.65	28.65
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK3	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK3	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK3	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK3	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK3	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK3	34.14	34.14	34.14	34.14	34.14	34.14
BUILDWID	STCK1	55.84	65.58	73.32	78.84	81.95	83.80
BUILDWID	STCK1	84.85	84.05	83.01	79.44	73.46	65.25
BUILDWID	STCK1	55.05	47.77	33.68	25.62	28.24	44.41
BUILDWID	STCK1	55.84	65.58	73.32	78.84	81.95	83.80
BUILDWID	STCK1	84.85	84.05	83.01	79.44	73.46	65.25
BUILDWID	STCK1	55.05	47.77	30.92	27.26	32.34	44.41
BUILDWID	STCK2	57.08	60.17	61.43	60.83	58.38	54.16
BUILDWID	STCK2	48.29	40.95	32.88	41.34	48.91	54.99
BUILDWID	STCK2	59.40	62.01	62.73	61.55	58.50	53.67
BUILDWID	STCK2	57.08	60.17	61.43	60.83	58.38	54.16
BUILDWID	STCK2	48.29	40.95	32.88	41.34	48.91	54.99
BUILDWID	STCK2	59.40	62.01	62.73	61.55	58.50	53.67
BUILDWID	STCK3	54.33	65.08	73.86	80.40	84.49	87.86
BUILDWID	STCK3	89.50	90.52	89.65	86.05	79.84	71.20
BUILDWID	STCK3	60.40	47.77	33.68	25.62	28.24	41.92
BUILDWID	STCK3	54.33	65.08	73.86	80.40	84.49	87.86
BUILDWID	STCK3	89.50	90.52	89.65	86.05	79.84	71.20
BUILDWID	STCK3	60.40	47.77	33.68	25.62	28.24	41.92
BUILDLN	STCK1	79.44	73.46	65.25	55.05	43.18	30.92
BUILDLN	STCK1	25.51	32.34	44.41	55.84	65.58	73.32
BUILDLN	STCK1	78.84	84.49	87.86	89.50	90.52	83.01
BUILDLN	STCK1	79.44	73.46	65.25	55.05	43.18	30.92
BUILDLN	STCK1	25.51	32.34	44.41	55.84	65.58	73.32
BUILDLN	STCK1	78.84	84.49	83.80	185.59	84.05	83.01
BUILDLN	STCK2	41.34	48.91	54.99	59.40	62.01	62.73
BUILDLN	STCK2	61.55	58.50	53.67	57.08	60.17	61.43
BUILDLN	STCK2	60.83	58.38	54.16	48.29	40.95	32.88
BUILDLN	STCK2	41.34	48.91	54.99	59.40	62.01	62.73

BUILDLLEN	STCK2	61.55	58.50	53.67	57.08	60.17	61.43
BUILDLLEN	STCK2	60.83	58.38	54.16	48.29	40.95	32.88
BUILDLLEN	STCK3	86.05	79.84	71.20	60.40	47.77	33.68
BUILDLLEN	STCK3	25.62	28.24	41.92	54.33	65.08	73.86
BUILDLLEN	STCK3	80.40	84.49	87.86	89.50	90.52	89.65
BUILDLLEN	STCK3	86.05	79.84	71.20	60.40	47.77	33.68
BUILDLLEN	STCK3	25.62	28.24	41.92	54.33	65.08	73.86
BUILDLLEN	STCK3	80.40	84.49	87.86	89.50	90.52	89.65
XBADJ	STCK1	-34.99	-35.86	-35.65	-34.34	-32.00	-28.68
XBADJ	STCK1	-25.10	-33.78	-41.42	-47.81	-52.74	-56.07
XBADJ	STCK1	-57.70	-152.59	-157.19	-157.02	-154.16	-49.95
XBADJ	STCK1	-44.45	-37.60	-29.60	-20.71	-11.19	-2.24
XBADJ	STCK1	-0.41	1.44	-2.99	-8.04	-12.84	-17.25
XBADJ	STCK1	-21.14	68.10	-26.89	-28.57	-30.12	-33.06
XBADJ	STCK2	-21.67	-20.33	-18.37	-15.85	-12.86	-9.47
XBADJ	STCK2	-5.79	-1.94	1.97	0.66	-1.07	-2.77
XBADJ	STCK2	-4.39	-5.87	-7.17	-8.26	-9.09	-10.16
XBADJ	STCK2	-19.67	-28.58	-36.62	-43.55	-49.15	-53.27
XBADJ	STCK2	-55.76	-56.56	-55.64	-57.74	-59.10	-58.66
XBADJ	STCK2	-56.45	-52.51	-46.99	-40.03	-31.86	-22.72
XBADJ	STCK3	-33.74	-32.96	-31.19	-28.46	-24.87	-20.53
XBADJ	STCK3	-22.61	-24.03	-33.43	-41.81	-48.92	-54.54
XBADJ	STCK3	-58.51	-60.69	-61.04	-59.53	-58.30	-56.16
XBADJ	STCK3	-52.31	-46.88	-40.02	-31.94	-22.89	-13.15
XBADJ	STCK3	-3.01	-4.20	-8.49	-12.52	-16.17	-19.32
XBADJ	STCK3	-21.89	-23.80	-26.82	-29.98	-32.22	-33.49
YBADJ	STCK1	19.89	19.95	19.41	18.28	16.60	15.01
YBADJ	STCK1	13.85	11.91	8.45	4.73	0.87	-3.02
YBADJ	STCK1	-6.82	31.56	12.40	-10.65	-27.68	-19.22
YBADJ	STCK1	-19.89	-19.95	-19.41	-18.28	-16.60	-15.01
YBADJ	STCK1	-13.85	-11.91	-8.45	-4.73	-0.87	3.02
YBADJ	STCK1	6.82	-31.56	13.22	11.47	17.61	19.22
YBADJ	STCK2	-29.20	-29.01	-27.94	-26.03	-23.32	-19.91
YBADJ	STCK2	-15.89	-11.38	-6.28	-1.00	4.12	9.12
YBADJ	STCK2	13.85	18.15	21.90	24.98	27.31	28.81
YBADJ	STCK2	29.20	29.01	27.94	26.03	23.32	19.91
YBADJ	STCK2	15.89	11.38	6.28	1.00	-4.12	-9.12
YBADJ	STCK2	-13.85	-18.15	-21.90	-24.98	-27.31	-28.81
YBADJ	STCK3	14.65	16.38	17.61	18.31	18.45	17.11
YBADJ	STCK3	14.78	13.04	11.34	9.29	6.96	4.41
YBADJ	STCK3	1.74	-0.99	-3.69	-9.80	-9.92	-12.47
YBADJ	STCK3	-14.65	-16.38	-17.61	-18.31	-18.45	-17.11
YBADJ	STCK3	-14.78	-13.04	-11.34	-9.29	-6.96	-4.41

YBADJ STCK3 -1.74 0.99 3.69 9.80 9.92 12.47

SRCGROUP SLINE1 L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
SRCGROUP SLINE1 L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
SRCGROUP SLINE1 L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
SRCGROUP SLINE1 L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
SRCGROUP SLINE1 L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
SRCGROUP SLINE1 L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
SRCGROUP SLINE1 L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
SRCGROUP SLINE1 L0000043 L0000044 L0000045 L0000046 L0000047 L0000048
SRCGROUP SLINE1 L0000049 L0000050 L0000051 L0000052 L0000053 L0000054
SRCGROUP SLINE1 L0000055 L0000056 L0000057 L0000058 L0000059
SRCGROUP STCK1 STCK1
SRCGROUP STCK2 STCK2
SRCGROUP STCK3 STCK3
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "SDSU Evolve Phase 1.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE ..\KVR_2020_2022_v23132.SFC

PROFFILE ..\KVR_2020_2022_v23132.PFL

SURFDATA 93107 2020

UAIRDATA 3190 2020

SITEDATA 1016 2020

PROFBASE 132.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

** Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST "SDSU Evolve Phase 1.AD\01H1GALL.PLT" 31
PLOTFILE 1 SLINE1 1ST "SDSU Evolve Phase 1.AD\01H1G001.PLT" 32
PLOTFILE 1 STCK1 1ST "SDSU Evolve Phase 1.AD\01H1G002.PLT" 33
PLOTFILE 1 STCK2 1ST "SDSU Evolve Phase 1.AD\01H1G003.PLT" 34
PLOTFILE 1 STCK3 1ST "SDSU Evolve Phase 1.AD\01H1G004.PLT" 35
PLOTFILE PERIOD ALL "SDSU Evolve Phase 1.AD\PE00GALL.PLT" 36
PLOTFILE PERIOD SLINE1 "SDSU Evolve Phase 1.AD\PE00G001.PLT" 37
PLOTFILE PERIOD STCK1 "SDSU Evolve Phase 1.AD\PE00G002.PLT" 38
PLOTFILE PERIOD STCK2 "SDSU Evolve Phase 1.AD\PE00G003.PLT" 39
PLOTFILE PERIOD STCK3 "SDSU Evolve Phase 1.AD\PE00G004.PLT" 40
SUMMFILE "SDSU Evolve Phase 1.sum"
OU FINISHED

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

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

A Total of 0 Fatal Error Message(s)
A Total of 3 Warning Message(s)
A Total of 0 Informational Message(s)

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

***** WARNING MESSAGES *****
SO W320 191 PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
SO W320 192 PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
MX W403 338 PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

*** SETUP Finishes Successfully ***

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 *** ***
*** 06:13:04

PAGE 1
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** MODEL SETUP OPTIONS SUMMARY

- - - - -

**** Model Options Selected:**

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses RURAL Dispersion Only.
- * CCVR_Sub - Meteorological data includes CCVR substitutions
- * TEMP_Sub - Meteorological data includes TEMP substitutions
- * Model Assumes No FLAGPOLE Receptor Heights.
- * The User Specified a Pollutant Type of: PM₁₀

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

****This Run Includes: 62 Source(s); 5 Source Group(s); and 532**
Receptor(s)

with: 3 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 59 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

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

****The AERMET Input Meteorological Data Version Date: 23132**

****Output Options Selected:**

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

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

Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 132.00 ; Decay
 Coef. = 0.000 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ;
 Emission Rate Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.8 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: SDSU Evolve Phase 1.err

**File for Summary of Results: SDSU Evolve Phase 1.sum

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 2

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** POINT SOURCE DATA ***

STACK	STACK	NUMBER	EMISSION	RATE		BASE	STACK	STACK	
SOURCE	STACK	BLDG	URBAN	CAP/	EMIS				
VEL.	DIAMETER	EXISTS	SOURCE	HOR	SCALAR				
ID	CATS.				(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)
(M/SEC)	(METERS)				VARY BY				

STCK1		0	0.10000E+01	492847.7	3626536.4	124.2	2.50	772.59	
60.64	0.13	YES	NO	NO					
STCK2		0	0.10000E+01	492991.1	3625839.7	141.9	2.50	772.59	
60.64	0.13	YES	NO	NO					
STCK3		0	0.10000E+01	492813.6	3626627.7	123.6	2.32	699.26	
42.60	0.20	YES	NO	NO					

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 ***
*** 06:13:04

PAGE 3

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** VOLUME SOURCE DATA ***

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

L0000001	0	0.16949E-01	492681.2	3626749.0	118.7	3.40	4.00
3.16 NO		NO					
L0000002	0	0.16949E-01	492681.7	3626740.4	119.9	3.40	4.00
3.16 NO		NO					
L0000003	0	0.16949E-01	492682.2	3626731.9	121.0	3.40	4.00
3.16 NO		NO					
L0000004	0	0.16949E-01	492683.1	3626723.4	121.0	3.40	4.00
3.16 NO		NO					
L0000005	0	0.16949E-01	492689.0	3626717.1	121.0	3.40	4.00
3.16 NO		NO					
L0000006	0	0.16949E-01	492694.8	3626710.8	121.0	3.40	4.00
3.16 NO		NO					
L0000007	0	0.16949E-01	492700.6	3626704.5	121.2	3.40	4.00
3.16 NO		NO					
L0000008	0	0.16949E-01	492707.7	3626704.2	121.4	3.40	4.00
3.16 NO		NO					
L0000009	0	0.16949E-01	492715.6	3626707.6	121.4	3.40	4.00
3.16 NO		NO					
L0000010	0	0.16949E-01	492723.5	3626708.2	121.5	3.40	4.00
3.16 NO		NO					
L0000011	0	0.16949E-01	492731.3	3626704.5	121.6	3.40	4.00
3.16 NO		NO					
L0000012	0	0.16949E-01	492739.0	3626701.7	121.5	3.40	4.00
3.16 NO		NO					
L0000013	0	0.16949E-01	492746.7	3626705.6	121.3	3.40	4.00
3.16 NO		NO					
L0000014	0	0.16949E-01	492754.3	3626709.6	121.0	3.40	4.00
3.16 NO		NO					
L0000015	0	0.16949E-01	492762.0	3626713.5	121.0	3.40	4.00
3.16 NO		NO					
L0000016	0	0.16949E-01	492769.6	3626717.4	120.9	3.40	4.00
3.16 NO		NO					

L0000017	0	0.16949E-01	492777.2	3626721.4	120.7	3.40	4.00
3.16 NO		NO					
L0000018	0	0.16949E-01	492784.9	3626725.3	120.5	3.40	4.00
3.16 NO		NO					
L0000019	0	0.16949E-01	492792.5	3626729.2	120.3	3.40	4.00
3.16 NO		NO					
L0000020	0	0.16949E-01	492794.3	3626734.1	119.3	3.40	4.00
3.16 NO		NO					
L0000021	0	0.16949E-01	492788.3	3626740.2	117.3	3.40	4.00
3.16 NO		NO					
L0000022	0	0.16949E-01	492781.3	3626744.3	116.2	3.40	4.00
3.16 NO		NO					
L0000023	0	0.16949E-01	492772.7	3626744.8	116.2	3.40	4.00
3.16 NO		NO					
L0000024	0	0.16949E-01	492764.1	3626745.4	116.3	3.40	4.00
3.16 NO		NO					
L0000025	0	0.16949E-01	492755.5	3626745.9	116.4	3.40	4.00
3.16 NO		NO					
L0000026	0	0.16949E-01	492747.0	3626746.5	116.6	3.40	4.00
3.16 NO		NO					
L0000027	0	0.16949E-01	492738.4	3626747.0	116.9	3.40	4.00
3.16 NO		NO					
L0000028	0	0.16949E-01	492729.8	3626747.6	117.1	3.40	4.00
3.16 NO		NO					
L0000029	0	0.16949E-01	492721.2	3626748.1	117.5	3.40	4.00
3.16 NO		NO					
L0000030	0	0.16949E-01	492712.6	3626748.7	118.0	3.40	4.00
3.16 NO		NO					
L0000031	0	0.16949E-01	492704.0	3626749.2	118.5	3.40	4.00
3.16 NO		NO					
L0000032	0	0.16949E-01	492695.5	3626749.8	118.5	3.40	4.00
3.16 NO		NO					
L0000033	0	0.16949E-01	492694.2	3626744.3	119.3	3.40	4.00
3.16 NO		NO					
L0000034	0	0.16949E-01	492696.4	3626735.9	120.5	3.40	4.00
3.16 NO		NO					
L0000035	0	0.16949E-01	492698.6	3626727.6	121.1	3.40	4.00
3.16 NO		NO					
L0000036	0	0.16949E-01	492704.5	3626721.4	121.2	3.40	4.00
3.16 NO		NO					
L0000037	0	0.16949E-01	492711.5	3626719.3	121.3	3.40	4.00
3.16 NO		NO					
L0000038	0	0.16949E-01	492719.6	3626722.1	121.3	3.40	4.00
3.16 NO		NO					
L0000039	0	0.16949E-01	492727.5	3626722.4	121.3	3.40	4.00
3.16 NO		NO					
L0000040	0	0.16949E-01	492735.1	3626718.4	121.2	3.40	4.00
3.16 NO		NO					

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 ***
*** 06:13:04

PAGE 4

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT		ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID		SCALAR	VARY					
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0000041		0	0.16949E-01	492742.8	3626719.7	121.0	3.40	4.00
3.16	NO		NO					
L0000042		0	0.16949E-01	492750.7	3626723.3	120.6	3.40	4.00
3.16	NO		NO					
L0000043		0	0.16949E-01	492758.5	3626726.9	120.3	3.40	4.00
3.16	NO		NO					
L0000044		0	0.16949E-01	492766.3	3626730.5	120.1	3.40	4.00
3.16	NO		NO					
L0000045		0	0.16949E-01	492774.1	3626734.1	119.3	3.40	4.00
3.16	NO		NO					
L0000046		0	0.16949E-01	492772.9	3626736.1	118.7	3.40	4.00
3.16	NO		NO					
L0000047		0	0.16949E-01	492764.3	3626736.8	118.6	3.40	4.00
3.16	NO		NO					
L0000048		0	0.16949E-01	492755.7	3626737.5	118.5	3.40	4.00
3.16	NO		NO					
L0000049		0	0.16949E-01	492747.2	3626738.2	118.7	3.40	4.00
3.16	NO		NO					
L0000050		0	0.16949E-01	492738.6	3626738.9	118.9	3.40	4.00
3.16	NO		NO					
L0000051		0	0.16949E-01	492730.0	3626739.6	119.1	3.40	4.00
3.16	NO		NO					
L0000052		0	0.16949E-01	492721.4	3626740.4	119.2	3.40	4.00
3.16	NO		NO					
L0000053		0	0.16949E-01	492712.9	3626741.1	119.4	3.40	4.00
3.16	NO		NO					
L0000054		0	0.16949E-01	492707.5	3626738.8	120.0	3.40	4.00
3.16	NO		NO					
L0000055		0	0.16949E-01	492709.9	3626731.4	121.2	3.40	4.00
3.16	NO		NO					
L0000056		0	0.16949E-01	492718.4	3626731.0	121.2	3.40	4.00
3.16	NO		NO					

13	28.7,	55.0,	78.8,	-57.7,	-6.8,	14	34.1,	47.8,	84.5,	-152.6,
31.6,										
15	34.1,	33.7,	87.9,	-157.2,	12.4,	16	34.1,	25.6,	89.5,	-157.0,
-10.7,										
17	34.1,	28.2,	90.5,	-154.2,	-27.7,	18	28.7,	44.4,	83.0,	-49.9,
-19.2,										
19	28.7,	55.8,	79.4,	-44.4,	-19.9,	20	28.7,	65.6,	73.5,	-37.6,
-19.9,										
21	28.7,	73.3,	65.2,	-29.6,	-19.4,	22	28.7,	78.8,	55.0,	-20.7,
-18.3,										
23	28.7,	82.0,	43.2,	-11.2,	-16.6,	24	28.7,	83.8,	30.9,	-2.2,
-15.0,										
25	28.7,	84.8,	25.5,	-0.4,	-13.9,	26	28.7,	84.0,	32.3,	1.4,
-11.9,										
27	28.7,	83.0,	44.4,	-3.0,	-8.5,	28	28.7,	79.4,	55.8,	-8.0,
-4.7,										
29	28.7,	73.5,	65.6,	-12.8,	-0.9,	30	28.7,	65.2,	73.3,	-17.2,
3.0,										
31	28.7,	55.0,	78.8,	-21.1,	6.8,	32	34.1,	47.8,	84.5,	68.1,
-31.6,										
33	28.7,	30.9,	83.8,	-26.9,	13.2,	34	28.7,	27.3,	185.6,	-28.6,
11.5,										
35	28.7,	32.3,	84.0,	-30.1,	17.6,	36	28.7,	44.4,	83.0,	-33.1,
19.2,										

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
YADJ										
1	28.0,	57.1,	41.3,	-21.7,	-29.2,	2	28.0,	60.2,	48.9,	-20.3,
-29.0,										
3	28.0,	61.4,	55.0,	-18.4,	-27.9,	4	28.0,	60.8,	59.4,	-15.9,
-26.0,										
5	28.0,	58.4,	62.0,	-12.9,	-23.3,	6	28.0,	54.2,	62.7,	-9.5,
-19.9,										
7	28.0,	48.3,	61.5,	-5.8,	-15.9,	8	28.0,	40.9,	58.5,	-1.9,
-11.4,										
9	28.0,	32.9,	53.7,	2.0,	-6.3,	10	28.0,	41.3,	57.1,	0.7,
-1.0,										
11	28.0,	48.9,	60.2,	-1.1,	4.1,	12	28.0,	55.0,	61.4,	-2.8,
9.1,										
13	28.0,	59.4,	60.8,	-4.4,	13.9,	14	28.0,	62.0,	58.4,	-5.9,
18.2,										
15	28.0,	62.7,	54.2,	-7.2,	21.9,	16	28.0,	61.5,	48.3,	-8.3,
25.0,										
17	28.0,	58.5,	40.9,	-9.1,	27.3,	18	28.0,	53.7,	32.9,	-10.2,
28.8,										
19	28.0,	57.1,	41.3,	-19.7,	29.2,	20	28.0,	60.2,	48.9,	-28.6,
29.0,										
21	28.0,	61.4,	55.0,	-36.6,	27.9,	22	28.0,	60.8,	59.4,	-43.5,

31	34.1,	60.4,	80.4,	-21.9,	-1.7,	32	34.1,	47.8,	84.5,	-23.8,
	1.0,									
33	34.1,	33.7,	87.9,	-26.8,	3.7,	34	34.1,	25.6,	89.5,	-30.0,
	9.8,									
35	34.1,	28.2,	90.5,	-32.2,	9.9,	36	34.1,	41.9,	89.6,	-33.5,
	12.5,									

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 *** ***
*** 06:13:04

PAGE 7

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

490879.2, 491073.3, 491267.4, 491461.5, 491655.6, 491849.7, 492043.8,
492237.9, 492432.0, 492626.1,
492820.2, 493014.3, 493208.4, 493402.5, 493596.6, 493790.7, 493984.8,
494178.9, 494373.0, 494567.1,
494761.2,

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

3624590.4, 3624786.2, 3624982.1, 3625177.9, 3625373.8, 3625569.7, 3625765.5,
3625961.4, 3626157.2, 3626353.1,
3626549.0, 3626744.8, 3626940.7, 3627136.5, 3627332.4, 3627528.3, 3627724.1,
3627920.0, 3628115.8, 3628311.7,
3628507.6,

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 *** ***
*** 06:13:04

PAGE 8

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58	
491849.68	492043.78	492237.88	492431.98			

- - - - -

3628507.56		25.00	43.20	43.10	48.60	67.50
80.10	95.10	99.80	104.90			
3628311.70		34.20	42.30	48.30	58.60	67.70
87.00	93.50	96.80	99.40			
3628115.84		35.30	39.20	49.50	59.30	74.90
90.50	89.90	94.60	98.40			
3627919.98		34.40	39.40	51.20	57.10	81.40
91.30	79.50	97.40	94.00			
3627724.12		29.60	38.00	49.50	69.90	82.20
89.30	62.50	99.00	55.90			
3627528.26		26.30	38.20	56.90	78.80	82.40
81.00	60.00	55.50	92.00			
3627332.40		25.20	36.20	57.80	66.70	68.80
45.50	41.60	85.80	115.00			
3627136.54		23.70	25.40	27.40	29.00	34.00
34.90	34.80	34.80	40.30			
3626940.68		35.80	38.20	39.70	41.60	40.50
45.80	55.20	53.60	49.60			
3626744.82		84.80	99.10	84.90	86.90	68.40
105.30	110.40	113.00	74.40			
3626548.96		89.90	97.80	78.80	108.90	95.30
82.60	127.20	121.30	108.70			
3626353.10		66.40	106.30	107.60	97.70	120.40
84.80	122.30	133.50	133.80			
3626157.24		38.60	71.90	115.10	118.10	120.60
115.70	115.40	127.50	126.90			
3625961.38		53.40	50.50	63.30	86.80	120.70
119.20	100.10	103.40	114.00			
3625765.52		52.20	100.40	87.70	59.60	70.40
76.70	86.10	95.90	121.70			
3625569.66		80.60	94.20	115.10	119.50	106.20
110.80	76.20	86.10	100.00			
3625373.80		73.80	91.40	81.80	120.10	123.20
122.50	106.00	109.80	126.70			
3625177.94		64.10	115.10	113.40	99.90	122.20
121.80	120.30	97.10	128.30			
3624982.08		74.00	113.60	110.50	117.80	119.20
121.10	121.20	106.70	124.00			
3624786.22		109.50	96.90	115.30	117.60	118.70
120.30	120.60	109.90	111.30			
3624590.36		108.30	109.70	105.40	113.00	116.20
118.50	119.60	120.80	117.70			

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 ***
*** 06:13:04

PAGE 9

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48	
493596.58	493790.68	493984.78	494178.88			

- - - - -

3628507.56	106.80	107.70	93.20	107.90	111.20
118.20	128.90	146.10	192.00		
3628311.70	103.20	106.80	82.70	90.50	112.70
121.70	133.00	155.40	216.90		
3628115.84	100.50	85.20	94.30	121.30	121.10
124.20	138.60	157.00	216.70		
3627919.98	76.70	87.30	82.50	121.70	131.00
130.00	141.30	170.80	228.80		
3627724.12	71.90	122.60	125.30	119.50	108.60
132.70	144.30	164.50	197.70		
3627528.26	112.50	95.30	119.80	130.00	130.40
124.60	139.30	151.20	167.00		
3627332.40	106.20	98.30	119.00	122.00	131.90
136.80	143.30	149.40	146.80		
3627136.54	42.50	42.90	43.20	48.90	81.30
127.20	140.70	140.90	134.10		
3626940.68	48.30	57.70	56.90	63.20	91.90
114.10	125.50	112.20	129.40		
3626744.82	112.00	108.40	100.30	105.10	115.20
91.80	98.50	100.30	105.90		
3626548.96	100.70	125.40	110.00	132.60	132.60
111.90	123.60	119.40	102.90		
3626353.10	133.90	135.30	116.80	134.20	135.40
133.50	133.00	132.60	112.90		
3626157.24	130.90	136.40	133.20	138.60	138.90
131.70	130.10	137.20	139.30		
3625961.38	128.60	139.60	141.20	140.80	139.70
140.00	133.40	140.10	140.40		
3625765.52	116.60	141.00	141.80	140.70	137.00
141.00	143.30	142.70	140.40		
3625569.66	106.70	112.70	139.30	129.90	118.50
142.10	143.30	142.80	142.50		
3625373.80	116.10	136.50	108.00	115.20	114.50

122.80	134.00	143.50	143.10			
3625177.94		114.50	129.90	134.00	125.90	138.00
136.00		143.70	144.90	144.30		
3624982.08		129.20	132.80	140.40	129.60	142.20
144.40		144.30	144.80	143.80		
3624786.22		112.40	130.90	140.80	141.40	143.70
144.90		143.10	143.90	144.70		
3624590.36		128.90	125.80	139.80	146.80	140.40
135.80		136.30	143.60	144.90		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 *** ***

*** 06:13:04

PAGE 10

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD				X-COORD (METERS)
(METERS)		494372.98	494567.08	494761.18

3628507.56		229.10	230.10	216.80
3628311.70		243.40	239.50	220.40
3628115.84		250.70	248.30	231.70
3627919.98		236.60	228.70	231.60
3627724.12		215.30	186.80	220.90
3627528.26		166.80	162.70	199.80
3627332.40		145.10	150.60	186.20
3627136.54		139.60	142.00	153.50
3626940.68		132.20	133.30	137.40
3626744.82		111.80	122.70	128.10
3626548.96		105.00	107.30	108.60
3626353.10		134.50	126.00	130.90
3626157.24		135.10	139.70	118.20
3625961.38		127.30	140.60	124.00
3625765.52		138.10	139.50	135.60
3625569.66		141.30	135.60	133.10
3625373.80		142.50	141.20	141.10
3625177.94		143.10	142.00	141.10
3624982.08		141.00	142.30	135.30
3624786.22		143.90	135.50	135.10
3624590.36		141.60	127.80	138.60

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 ***
*** 06:13:04

PAGE 11

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58	
491849.68	492043.78	492237.88	492431.98			

- - - - -

3628507.56	126.10	43.20	43.10	88.30	67.50
93.50	95.10	99.80	104.90		
3628311.70	125.30	42.30	49.80	58.60	93.50
93.50	93.50	96.80	99.40		
3628115.84	35.30	45.00	50.40	85.00	90.10
90.50	89.90	94.60	98.40		
3627919.98	34.40	39.40	79.50	89.70	81.40
91.30	100.00	97.40	96.40		
3627724.12	29.60	78.80	80.10	79.70	82.20
89.30	126.80	99.00	251.60		
3627528.26	109.80	79.50	79.50	78.80	82.40
85.80	127.50	127.80	127.80		
3627332.40	111.30	111.30	57.80	66.70	83.00
130.40	134.50	126.80	126.20		
3627136.54	117.50	120.10	131.00	134.50	134.70
134.70	134.70	136.60	136.60		
3626940.68	117.50	120.10	131.00	134.20	134.70
134.70	134.70	136.20	137.40		
3626744.82	111.30	111.30	112.70	118.80	134.20
126.60	126.00	119.90	136.60		
3626548.96	111.30	111.30	119.70	116.10	130.40
134.70	127.20	134.70	134.70		
3626353.10	119.20	109.30	116.30	121.40	120.40
134.70	132.60	133.50	133.80		
3626157.24	121.80	119.20	117.60	118.10	120.60
115.70	131.80	127.50	132.70		
3625961.38	119.80	123.20	123.30	122.50	120.70
119.20	131.80	133.20	128.30		
3625765.52	122.30	112.00	121.80	123.60	123.60
130.40	128.90	124.60	121.70		
3625569.66	115.20	116.40	115.10	121.50	123.60
121.80	128.40	136.50	141.00		
3625373.80	116.50	116.40	123.60	120.10	123.20

122.50	122.60	127.90	126.70			
3625177.94		116.50	115.10	115.20	123.10	122.20
121.80		120.30	129.20	128.30		
3624982.08		116.60	113.60	114.90	117.80	119.20
121.10		121.20	119.10	124.00		
3624786.22		109.50	114.70	115.30	117.60	118.70
120.30		120.60	121.10	125.30		
3624590.36		108.30	109.70	105.40	113.00	116.20
118.50		119.60	120.80	117.70		

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 ***

*** 06:13:04

PAGE 12

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
		492626.08	492820.18	493014.28	493208.38	493402.48
493596.58		493790.68	493984.78	494178.88		
-	-	-	-	-	-	-
-	-	-	-	-	-	-

3628507.56		106.80	107.70	252.50	252.50	252.50
252.50		252.50	252.50	252.50		
3628311.70		103.20	106.80	252.50	252.50	252.50
252.50		252.50	252.50	252.50		
3628115.84		100.50	252.50	252.50	252.50	252.50
252.50		252.50	252.50	252.50		
3627919.98		252.10	252.50	252.50	252.50	252.50
252.50		252.50	252.50	239.10		
3627724.12		252.50	122.60	125.30	252.50	252.50
252.50		252.50	252.50	252.50		
3627528.26		127.80	129.10	127.50	130.00	252.50
252.50		252.50	252.50	252.50		
3627332.40		127.80	127.80	121.40	122.00	239.10
252.50		252.50	252.50	258.90		
3627136.54		252.50	252.50	252.50	258.90	252.50
250.90		244.20	252.50	258.90		
3626940.68		138.70	250.90	252.50	252.50	252.50
244.20		244.20	258.90	258.90		
3626744.82		123.20	125.30	133.70	134.30	132.80
251.40		252.10	258.90	258.90		
3626548.96		136.60	125.40	136.20	132.60	132.60
137.70		133.90	135.10	258.90		

3626353.10		133.90	135.30	137.90	134.20	139.00
135.00		134.90	135.30	140.40		
3626157.24		130.90	136.40	139.20	138.60	138.90
140.50		130.10	137.20	139.30		
3625961.38		134.70	139.60	141.20	140.80	139.70
140.00		133.40	140.10	140.40		
3625765.52		141.20	141.00	141.80	140.70	137.00
141.00		143.30	142.70	140.40		
3625569.66		142.00	142.20	139.30	140.30	143.10
142.10		143.30	142.80	142.50		
3625373.80		136.60	136.50	141.60	140.10	142.70
143.80		134.00	143.50	143.10		
3625177.94		136.00	139.40	140.50	140.40	138.00
143.70		143.70	144.90	144.30		
3624982.08		129.20	132.80	140.40	143.30	142.20
144.40		144.30	144.80	143.80		
3624786.22		131.30	130.90	140.80	141.40	143.70
144.90		143.10	143.90	144.70		
3624590.36		128.90	131.00	139.80	146.80	145.70
137.70		136.30	143.60	144.90		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 13

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)				X-COORD (METERS)
	494372.98	494567.08	494761.18	

3628507.56		229.10	230.10	232.70
3628311.70		251.90	241.80	250.40
3628115.84		250.70	248.30	246.90
3627919.98		240.20	248.90	231.60
3627724.12		244.20	258.90	232.50
3627528.26		258.90	258.90	258.90
3627332.40		258.90	258.90	258.90
3627136.54		258.90	258.90	258.90
3626940.68		258.90	258.90	258.90
3626744.82		258.90	258.90	258.90
3626548.96		258.90	258.90	258.90
3626353.10		134.50	140.20	130.90

3626157.24	138.10	139.70	140.80
3625961.38	140.20	140.60	141.00
3625765.52	138.10	139.50	135.60
3625569.66	141.30	135.60	133.10
3625373.80	142.50	141.20	141.10
3625177.94	143.10	142.00	141.10
3624982.08	141.00	142.30	140.70
3624786.22	143.90	142.50	141.10
3624590.36	141.60	142.40	141.20

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apol1\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 *** ***
 *** 06:13:04

PAGE 14

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

(492883.2, 3625830.8, 141.7, 141.7, 0.0);	(492919.8,
3625834.6, 142.1, 142.1, 0.0);	
(492955.1, 3625845.5, 142.1, 142.1, 0.0);	(493069.9,
3625832.7, 142.2, 142.2, 0.0);	
(493094.9, 3625832.7, 142.2, 142.2, 0.0);	(493110.9,
3625837.2, 142.1, 142.1, 0.0);	
(493152.0, 3625834.0, 141.9, 141.9, 0.0);	(493166.7,
3625837.9, 141.8, 141.8, 0.0);	
(493187.9, 3625836.6, 141.7, 141.7, 0.0);	(493201.3,
3625836.6, 141.6, 141.6, 0.0);	
(493240.4, 3625836.6, 141.0, 141.0, 0.0);	(492881.3,
3625908.4, 141.6, 141.6, 0.0);	
(492907.0, 3625898.1, 142.3, 142.3, 0.0);	(492901.8,
3625911.6, 141.8, 141.8, 0.0);	
(492928.1, 3625914.8, 141.7, 141.7, 0.0);	(492933.9,
3625898.1, 142.3, 142.3, 0.0);	
(492951.9, 3625908.4, 141.8, 141.8, 0.0);	(492973.7,
3625907.1, 141.3, 141.3, 0.0);	
(492993.5, 3625914.2, 141.0, 141.0, 0.0);	(492996.1,
3625897.5, 141.0, 141.0, 0.0);	
(493016.0, 3625896.8, 141.8, 141.8, 0.0);	(493023.0,
3625912.2, 141.7, 141.7, 0.0);	
(493044.2, 3625907.1, 141.7, 141.7, 0.0);	(493066.7,
3625907.8, 141.0, 141.0, 0.0);	
(493085.2, 3625912.2, 141.4, 141.4, 0.0);	(493087.2,
3625895.6, 141.3, 141.3, 0.0);	
(493109.0, 3625911.6, 141.5, 141.5, 0.0);	(493112.2,
3625897.5, 141.4, 141.4, 0.0);	
(493134.0, 3625902.0, 140.9, 140.9, 0.0);	(492874.3,

3625788.5,	140.9,	140.9,	0.0);		
(492894.1,	3625789.1,	141.3,	141.3,	0.0);	(492910.2,
3625790.4,	141.4,	141.4,	0.0);		
(492930.7,	3625786.5,	141.4,	141.4,	0.0);	(492947.4,
3625791.0,	141.6,	141.6,	0.0);		
(492963.4,	3625787.8,	141.6,	141.6,	0.0);	(492982.6,
3625787.8,	141.6,	141.6,	0.0);		
(493000.0,	3625787.8,	141.7,	141.7,	0.0);	(493021.1,
3625791.0,	141.8,	141.8,	0.0);		
(493036.5,	3625789.1,	141.9,	141.9,	0.0);	(493055.8,
3625789.8,	141.9,	141.9,	0.0);		
(493076.3,	3625787.8,	141.9,	141.9,	0.0);	(493094.9,
3625787.8,	141.9,	141.9,	0.0);		
(493112.8,	3625788.5,	141.8,	141.8,	0.0);	(493129.5,
3625787.2,	141.7,	141.7,	0.0);		
(493148.7,	3625787.2,	141.6,	141.6,	0.0);	(493164.8,
3625790.4,	141.5,	141.5,	0.0);		
(493184.6,	3625789.1,	141.2,	141.2,	0.0);	(493202.0,
3625791.0,	141.1,	141.1,	0.0);		
(493221.2,	3625790.4,	141.0,	141.0,	0.0);	(493238.5,
3625791.0,	140.7,	140.7,	0.0);		
(492780.0,	3626415.0,	129.0,	135.1,	0.0);	(492778.7,
3626388.1,	131.1,	135.1,	0.0);		
(492747.9,	3626386.2,	131.2,	134.8,	0.0);	(492742.2,
3626418.2,	129.7,	129.7,	0.0);		
(492699.2,	3626422.7,	129.8,	129.8,	0.0);	(492697.9,
3626391.9,	131.4,	134.8,	0.0);		
(492678.7,	3626411.8,	131.0,	134.7,	0.0);	(492626.1,
3626426.6,	132.8,	133.6,	0.0);		
(492606.8,	3626435.5,	128.9,	134.1,	0.0);	(492599.2,
3626405.4,	132.5,	132.5,	0.0);		
(492491.2,	3626644.9,	115.1,	116.5,	0.0);	(492517.4,
3626636.7,	113.5,	133.7,	0.0);		
(492521.2,	3626603.4,	117.5,	117.5,	0.0);	(492521.7,
3626582.2,	118.3,	118.3,	0.0);		
(492512.5,	3626553.8,	118.7,	133.7,	0.0);	(492513.5,
3626533.1,	118.0,	133.7,	0.0);		
(492501.0,	3626506.4,	118.3,	133.7,	0.0);	(492490.6,
3626485.7,	120.5,	133.7,	0.0);		
(492479.2,	3626464.4,	122.4,	133.7,	0.0);	(492466.1,
3626447.0,	126.2,	133.2,	0.0);		
(492447.6,	3626418.7,	131.4,	131.4,	0.0);	(492431.8,
3626430.6,	131.2,	131.2,	0.0);		
(492481.9,	3626620.3,	116.3,	134.1,	0.0);	(492482.5,
3626594.2,	117.8,	133.7,	0.0);		
(492479.2,	3626572.9,	118.5,	134.1,	0.0);	(492477.0,
3626546.8,	118.9,	134.1,	0.0);		
(492467.8,	3626523.3,	118.7,	134.4,	0.0);	(492463.9,
3626507.5,	119.3,	134.6,	0.0);		
(492450.9,	3626492.8,	121.3,	134.6,	0.0);	(492427.4,

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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

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

1.54, 3.09, 5.14, 8.23,
10.80,

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 *** ***
*** 06:13:04

PAGE 17

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

Surface file: ..\KVR_2020_2022_v23132.SFC

Met Version: 23132

Profile file: ..\KVR_2020_2022_v23132.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 93107
Name: UNKNOWN

Upper air station no.: 3190
Name: UNKNOWN

Year: 2020

Year: 2020

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							
20	01	01	1	01	-18.2	0.163	-9.000	-9.000	-999.	158.	21.3	0.10	1.21	
1.00		2.82	57.	10.0	283.1	10.0								
20	01	01	1	02	-8.1	0.093	-9.000	-9.000	-999.	70.	8.9	0.12	1.21	
1.00		2.06	73.	10.0	282.6	10.0								
20	01	01	1	03	-10.2	0.104	-9.000	-9.000	-999.	80.	9.7	0.10	1.21	
1.00		2.37	54.	10.0	283.5	10.0								
20	01	01	1	04	-8.0	0.092	-9.000	-9.000	-999.	67.	8.6	0.10	1.21	

1.00	2.10	59.	10.0	283.0	10.0								
20	01	01	1	05	-11.2	0.109	-9.000	-9.000	-999.	86.	10.4	0.12	1.21
1.00	2.41	63.	10.0	282.4	10.0								
20	01	01	1	06	-7.4	0.089	-9.000	-9.000	-999.	64.	8.5	0.12	1.21
1.00	1.97	64.	10.0	282.6	10.0								
20	01	01	1	07	-7.1	0.087	-9.000	-9.000	-999.	61.	8.3	0.12	1.21
1.00	1.92	70.	10.0	282.5	10.0								
20	01	01	1	08	-2.1	0.053	-9.000	-9.000	-999.	29.	6.3	0.14	1.21
0.50	1.12	129.	10.0	282.4	10.0								
20	01	01	1	09	36.2	0.144	0.391	0.005	59.	131.	-7.4	0.17	1.21
0.30	1.03	112.	10.0	286.4	10.0								
20	01	01	1	10	90.0	0.280	0.921	0.005	310.	356.	-21.8	0.14	1.21
0.23	2.46	148.	10.0	289.0	10.0								
20	01	01	1	11	126.8	0.254	1.266	0.005	572.	308.	-11.6	0.16	1.21
0.21	2.01	225.	10.0	290.5	10.0								
20	01	01	1	12	144.1	0.324	1.461	0.005	774.	444.	-21.2	0.16	1.21
0.20	2.77	211.	10.0	291.3	10.0								
20	01	01	1	13	141.4	0.344	1.588	0.005	1011.	485.	-25.8	0.16	1.21
0.20	3.00	210.	10.0	291.2	10.0								
20	01	01	1	14	118.9	0.362	1.554	0.005	1126.	523.	-35.6	0.16	1.21
0.21	3.26	234.	10.0	290.8	10.0								
20	01	01	1	15	77.8	0.368	1.376	0.005	1195.	535.	-56.9	0.16	1.21
0.24	3.44	227.	10.0	290.3	10.0								
20	01	01	1	16	21.2	0.319	0.897	0.005	1212.	434.	-136.4	0.17	1.21
0.33	3.08	244.	10.0	289.4	10.0								
20	01	01	1	17	-7.3	0.092	-9.000	-9.000	-999.	146.	9.7	0.16	1.21
0.61	1.92	236.	10.0	288.2	10.0								
20	01	01	1	18	-8.4	0.098	-9.000	-9.000	-999.	74.	10.0	0.20	1.21
1.00	1.92	193.	10.0	287.3	10.0								
20	01	01	1	19	-6.6	0.086	-9.000	-9.000	-999.	61.	8.6	0.14	1.21
1.00	1.83	140.	10.0	286.6	10.0								
20	01	01	1	20	-2.9	0.057	-9.000	-9.000	-999.	33.	5.7	0.14	1.21
1.00	1.21	144.	10.0	286.2	10.0								
20	01	01	1	21	-3.2	0.060	-9.000	-9.000	-999.	35.	6.0	0.17	1.21
1.00	1.21	99.	10.0	285.3	10.0								
20	01	01	1	22	-5.1	0.075	-9.000	-9.000	-999.	49.	7.3	0.12	1.21
1.00	1.65	76.	10.0	284.8	10.0								
20	01	01	1	23	-2.1	0.048	-9.000	-9.000	-999.	26.	4.8	0.17	1.21
1.00	0.98	99.	10.0	284.5	10.0								
20	01	01	1	24	-4.4	0.069	-9.000	-9.000	-999.	43.	6.6	0.12	1.21
1.00	1.52	78.	10.0	283.8	10.0								

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
20	01	01	01	10.0	1	57.	2.82	283.2	6.0	-99.00	0.29

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

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 ***
*** 06:13:04

PAGE 18

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD (METERS)				X-COORD (METERS)	
491849.68	492043.78	492237.88	492431.98	491461.48	491655.58

3628507.56	0.81721	0.89463	0.96832	1.04347	1.12817
1.21308	1.31995	1.39731	1.49363		
3628311.70	0.88214	0.98256	1.08590	1.18826	1.29417
1.42645	1.54204	1.62168	1.68453		
3628115.84	0.94920	1.06892	1.20810	1.35448	1.50367
1.68424	1.82522	1.94597	2.03791		
3627919.98	1.02504	1.16121	1.33009	1.53100	1.75841
1.99957	2.19632	2.44903	2.51941		
3627724.12	1.11800	1.26990	1.46303	1.71433	2.03122
2.38756	2.70740	3.15075	3.26300		
3627528.26	1.22211	1.40393	1.62897	1.92402	2.31464
2.82787	3.41448	4.03929	4.58196		
3627332.40	1.31966	1.53917	1.81957	2.17900	2.65218
3.31313	4.28165	5.53101	8.20198		
3627136.54	1.40618	1.65940	1.99209	2.44058	3.06359
3.95542	5.30185	7.53554	10.81338		
3626940.68	1.49759	1.77797	2.15414	2.67785	3.44079
4.62076	6.58814	10.20092	17.94048		
3626744.82	1.69296	2.13292	2.46379	3.09795	4.02376
5.83294	9.02418	15.38653	29.31632		
3626548.96	1.93695	2.40779	2.83237	4.15475	4.86936

6.85077	13.06344	26.51921	43.79859			
3626353.10		2.02554	2.84760	3.61310	4.25720	7.55584
8.33462	16.66272	12.04481	8.93564			
3626157.24		2.24635	2.81042	4.59150	6.12403	8.18303
10.08647	11.27884	10.58949	9.74554			
3625961.38		2.47706	3.02897	3.74464	4.65245	7.12286
7.50483	5.75512	5.64665	6.65200			
3625765.52		2.54471	3.31913	3.56627	3.83206	3.94924
3.90211	3.81024	3.79748	5.18492			
3625569.66		2.50227	2.86392	3.69568	3.86343	3.26237
3.36925	2.78718	2.81213	3.09803			
3625373.80		2.18189	2.32405	2.28074	2.96548	2.92416
2.88681	2.42750	2.63135	2.88079			
3625177.94		1.80378	2.34375	2.28061	1.91386	2.32224
2.30118	2.29521	1.90651	2.28350			
3624982.08		1.49941	1.89022	1.79549	1.88617	1.89111
1.87844	1.92043	1.77055	2.05800			
3624786.22		1.53780	1.33288	1.56361	1.58197	1.57851
1.58383	1.64000	1.57834	1.65548			
3624590.36		1.28397	1.27937	1.21777	1.30931	1.32811
1.36388	1.41904	1.47138	1.50194			

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 19

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)				
		492626.08	492820.18	493014.28	493208.38	493402.48
493596.58		493790.68	493984.78	494178.88		

```

- - - - -
3628507.56 |      1.53064      1.51510      1.29337      1.40593      1.38518
1.38495      0.82191      0.22601      0.05077
3628311.70 |      1.75097      1.78364      1.50579      1.44787      1.64743
1.59105      0.70811      0.13788      0.04739
3628115.84 |      2.08600      1.93637      1.87887      2.23533      2.08722
1.73030      0.48401      0.13397      0.05485
3627919.98 |      2.52052      2.46645      2.31841      2.74291      1.25523
1.23691      0.40112      0.10050      0.06163
3627724.12 |      3.35615      4.12079      3.34693      3.56201      2.71373
1.10660      0.35111      0.13803      0.07991
3627528.26 |      5.54914      4.63743      5.43488      2.32762      1.86409
2.83389      0.61379      0.25935      0.13625
3627332.40 |      7.67146      7.16421      7.91816      6.24007      1.94175
1.00566      0.50968      0.31170      0.31960
3627136.54 |     13.44632     12.73314      9.76829      6.87932      4.90622
2.98494      0.69722      0.60707      0.97818
3626940.68 |     33.16863     31.30579     17.11399      9.51212      6.06865
5.09501      3.47096      2.94150      1.63982
3626744.82 |    130.85330    180.08200     29.60938     13.23783      9.10143
4.99749      3.67825      2.85988      2.41998
3626548.96 |     51.68173     57.96727     36.12678     12.02695      6.81357
6.75129      5.07005      3.89641      2.56081
3626353.10 |      7.79062      7.46833     20.38265      8.88606      6.55343
5.65331      4.17131      3.15186      3.15141
3626157.24 |      7.33111      4.20428      6.26451      3.97395      3.83604
5.90392      5.36207      2.92448      2.06424
3625961.38 |      6.08076      2.24450      2.21327      2.58357      2.66490
2.62392      3.85081      2.40437      2.10315
3625765.52 |      5.32731      1.57818      1.66853      1.97490      2.75383
1.91968      1.65660      1.61890      1.87559
3625569.66 |      3.44866      3.74104      1.72873      3.26482      3.73096
1.49949      1.35971      1.43842      1.37144
3625373.80 |      3.10586      1.70134      2.73536      2.93035      2.84394
2.87655      2.08995      1.15973      1.21447
3625177.94 |      2.46697      2.09053      1.75159      2.38409      1.45372
1.72452      1.06182      0.89884      0.97053
3624982.08 |      1.90310      1.59142      1.00254      1.85032      0.94869
0.85157      0.93639      0.86016      0.85597
3624786.22 |      1.69306      1.48176      0.85974      0.90940      0.76126
0.72829      0.88441      0.86753      0.76240
3624590.36 |      1.41495      1.44848      0.82313      0.56902      0.83274
1.10154      1.11193      0.80900      0.73059

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 *** ***
*** 06:13:04

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

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

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

Y-COORD (METERS)			X-COORD (METERS)
	494372.98	494567.08	494761.18
3628507.56	0.03884	0.03770	0.03820
3628311.70	0.04197	0.04106	0.04129
3628115.84	0.04753	0.04435	0.04212
3627919.98	0.05441	0.05000	0.04523
3627724.12	0.06429	0.07094	0.05178
3627528.26	0.12301	0.12637	0.06461
3627332.40	0.32589	0.21813	0.07512
3627136.54	0.56078	0.42825	0.19212
3626940.68	1.17775	0.96364	0.66013
3626744.82	2.14428	1.86161	1.26424
3626548.96	2.13779	1.83321	1.58175
3626353.10	1.77176	2.00317	1.42319
3626157.24	2.07593	1.35835	1.91865
3625961.38	2.90921	1.49875	2.02349
3625765.52	2.06983	1.69276	1.73157
3625569.66	1.45043	1.93232	1.93259
3625373.80	1.18245	1.23079	1.23327
3625177.94	1.06546	1.07047	1.06678
3624982.08	1.05963	0.99129	1.27136
3624786.22	0.76475	1.19038	1.19410
3624590.36	0.80878	1.21441	0.93353

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 ***
*** 06:13:04

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	1.67116	492919.80
3625834.65	1.67713		
492955.07	3625845.55	1.74658	493069.86
3625832.73	1.76622		
493094.87	3625832.73	1.78723	493110.90
3625837.21	1.82492		
493151.95	3625834.01	1.89139	493166.70
3625837.86	1.93587		
493187.86	3625836.57	1.99028	493201.33
3625836.57	2.02537		
493240.44	3625836.57	2.17269	492881.32
3625908.40	1.84657		
492906.98	3625898.14	1.76947	492901.84
3625911.60	1.87420		
492928.14	3625914.81	1.93980	492933.91
3625898.14	1.81419		
492951.87	3625908.40	1.92162	492973.67
3625907.11	2.01212		
492993.55	3625914.17	2.10091	492996.11
3625897.50	2.06286		
493015.99	3625896.85	1.92608	493023.05
3625912.24	1.99871		
493044.21	3625907.11	2.00127	493066.66
3625907.76	2.14421		
493085.25	3625912.24	2.11545	493087.18
3625895.57	2.07920		

493108.98	3625911.60	2.12776	493112.19
3625897.50	2.10105		
493133.99	3625901.98	2.24522	492874.27
3625788.48	1.68776		
492894.15	3625789.12	1.66815	492910.18
3625790.40	1.68096		
492930.70	3625786.55	1.69988	492947.38
3625791.04	1.71192		
492963.41	3625787.84	1.71797	492982.65
3625787.84	1.72096		
492999.96	3625787.84	1.71569	493021.12
3625791.04	1.71095		
493036.52	3625789.12	1.70744	493055.75
3625789.76	1.71297		
493076.28	3625787.84	1.72012	493094.87
3625787.84	1.73263		
493112.83	3625788.48	1.75801	493129.50
3625787.19	1.78422		
493148.74	3625787.19	1.82198	493164.77
3625790.40	1.86217		
493184.65	3625789.12	1.91891	493201.97
3625791.04	1.96532		
493221.21	3625790.40	2.01440	493238.52
3625791.04	2.09014		
492780.00	3626415.01	17.73542	492778.72
3626388.08	12.33202		
492747.94	3626386.16	11.77966	492742.16
3626418.22	16.87454		
492699.20	3626422.71	16.86043	492697.92
3626391.93	11.55485		
492678.68	3626411.81	12.90516	492626.09
3626426.56	10.84748		
492606.85	3626435.54	18.22391	492599.16
3626405.39	10.80290		
492491.20	3626644.88	65.76816	492517.36
3626636.70	76.41734		
492521.18	3626603.45	84.47512	492521.72
3626582.19	79.42866		
492512.46	3626553.84	67.14970	492513.55
3626533.13	57.58789		
492501.01	3626506.42	48.73011	492490.65
3626485.70	44.93620		
492479.21	3626464.45	39.02755	492466.12
3626447.00	30.20265		
492447.59	3626418.66	16.00280	492431.78
3626430.65	17.92012		
492481.93	3626620.35	67.42137	492482.48
3626594.18	70.53615		
492479.21	3626572.92	67.73948	492477.02
3626546.76	61.45010		

492467.76	3626523.32	53.60122	492463.94
3626507.51	49.82105		
492450.86	3626492.79	46.58280	492427.42
3626474.80	36.34398		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 *** ***
*** 06:13:04

PAGE 22

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	20.50686	492823.25
3626567.17	68.45758		
492838.34	3626526.92	49.28132	493039.78
3625834.45	1.78517		
492743.19	3626628.92	141.40788	492703.25
3626652.75	208.21242		
492723.78	3626582.16	78.50509	492761.18
3626553.82	61.17230		
493013.27	3625844.49	1.81962	492798.96
3626618.56	119.22465		
492794.41	3626665.12	233.59887	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 *** ***
*** 06:13:04

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	0.26811	0.28534	0.29302	0.35080	0.32938
0.33628	0.33992	0.29590	0.35642		
3628311.70	0.32587	0.31871	0.32987	0.34022	0.42226
0.41849	0.40583	0.36758	0.38131		
3628115.84	0.33451	0.36918	0.36441	0.37355	0.42380
0.49920	0.52366	0.45416	0.41088		
3627919.98	0.32896	0.39055	0.44848	0.41839	0.43989
0.57770	0.59001	0.57611	0.48267		
3627724.12	0.33508	0.34831	0.45962	0.54021	0.54580
0.54571	0.70529	0.77145	0.59975		
3627528.26	0.47488	0.44669	0.43197	0.53422	0.64810
0.64598	0.66151	0.89448	0.83477		
3627332.40	0.49375	0.54836	0.61506	0.57047	0.59627
0.73682	0.79269	0.99258	1.43828		
3627136.54	0.62369	0.63970	0.67912	0.70784	0.80926
0.76575	0.93927	1.06599	1.53168		
3626940.68	0.65173	0.72677	0.83281	0.95441	1.02076
1.10081	1.24679	1.27909	1.63964		
3626744.82	0.69703	0.86009	0.88743	1.03747	1.12734
1.56986	2.12249	2.66122	2.77236		
3626548.96	0.89599	1.06402	1.11705	1.44610	1.55680
1.74221	2.61891	3.65397	5.77003		
3626353.10	1.01691	1.32408	1.53145	1.65562	2.15379
2.20182	3.41467	5.01742	9.18454		
3626157.24	0.98218	1.19507	1.69105	2.02127	2.59570
3.30447	4.18372	5.58045	6.20874		
3625961.38	1.14737	1.39982	1.66180	2.13785	2.90175
3.32643	3.72300	3.49507	3.11128		
3625765.52	1.34666	1.74759	1.86369	1.91494	2.30461
2.53837	2.39415	2.16380	2.20298		
3625569.66	1.36944	1.70914	2.08181	2.46759	2.26228

2.19409	1.64101	1.48647	1.59524		
3625373.80		1.50588	1.70499	1.72184	2.05020 1.93221
1.80546	1.41057	1.39124	1.50132		
3625177.94		1.44595	1.75918	1.65635	1.45288 1.55102
1.32112	1.23752	1.07764	1.21039		
3624982.08		1.20682	1.39280	1.37530	1.30872 1.17435
1.07072	1.05502	0.98599	1.10418		
3624786.22		1.30011	1.15610	1.11119	1.09197 0.95029
0.94879	0.94925	0.92763	0.93484		
3624590.36		1.03425	0.97091	0.89673	0.85389 0.86487
0.80782	0.84816	0.83876	0.86758		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 24

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD					X-COORD (METERS)
(METERS)		492626.08	492820.18	493014.28	493208.38 493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56		0.38333	0.34620	0.29889	0.32786	0.27008
0.26282	0.21520	0.27039	0.14551			
3628311.70		0.43546	0.39000	0.34176	0.33853	0.31196
0.28636	0.24307	0.32920	0.11965			
3628115.84		0.50834	0.40260	0.40300	0.42949	0.36094
0.29702	0.33634	0.33596	0.13563			
3627919.98		0.53814	0.48044	0.45040	0.48141	0.39880
0.35717	0.38349	0.24373	0.15301			
3627724.12		0.63981	0.72444	0.68830	0.54505	0.40762
0.46454	0.42725	0.33628	0.19367			
3627528.26		0.92336	0.75687	0.82955	0.63853	0.56924
0.50585	0.46061	0.46850	0.32857			
3627332.40		1.08939	1.04119	1.04237	0.76620	0.71601
0.60151	0.56555	0.56453	0.46965			
3627136.54		1.45523	1.32458	1.07327	0.86067	0.74532

0.77531	0.69773	0.53262	0.45003		
3626940.68		2.88477	2.29267	1.65756	1.25607 1.16347
0.92181	0.76889	0.62256	0.55474		
3626744.82		4.76537	6.61597	3.94899	2.75995 1.71605
1.10553	0.89471	0.74616	0.68400		
3626548.96		12.34421	90.90539	13.00135	5.89630 3.17667
2.09430	1.66232	1.30281	0.98766		
3626353.10		16.24228	13.38566	17.28458	12.17576 6.02443
3.56797	2.41754	1.82846	1.40537		
3626157.24		5.35092	6.00945	9.02783	7.95080 5.86352
4.84264	3.41558	2.51781	1.87742		
3625961.38		3.05718	3.65654	5.02500	6.19470 4.79098
3.61318	3.43595	2.93250	2.31321		
3625765.52		2.22515	2.62884	3.47175	3.94244 4.07363
3.46944	2.71658	2.47949	2.34739		
3625569.66		1.68356	1.80086	2.44761	2.56585 3.12524
2.83185	2.63341	2.07289	1.88889		
3625373.80		1.56110	1.62513	1.36795	1.61446 1.91652
2.73010	2.13638	2.13281	1.74292		
3625177.94		1.31086	1.32711	1.43058	1.58955 1.67763
2.17647	2.04886	1.75892	1.72827		
3624982.08		1.11573	1.11387	1.21294	1.30754 1.37091
1.54281	1.92116	1.60070	1.47609		
3624786.22		0.93803	0.97950	1.03123	1.16017 1.12859
1.17941	1.49012	1.54693	1.28957		
3624590.36		0.88890	0.88851	0.86200	1.01306 0.92250
0.89133	1.04238	1.36107	1.23558		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 25

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: STCK1
 INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
494372.98	494567.08 494761.18

3628507.56	0.09634	0.09070	0.08905
3628311.70	0.10451	0.09646	0.09708
3628115.84	0.11090	0.10684	0.10474
3627919.98	0.13085	0.12493	0.11683
3627724.12	0.16208	0.19724	0.13978
3627528.26	0.32441	0.30451	0.14728
3627332.40	0.38152	0.37292	0.19445
3627136.54	0.43117	0.39360	0.38821
3626940.68	0.48005	0.43540	0.40137
3626744.82	0.62036	0.60183	0.53420
3626548.96	0.86182	0.75118	0.66084
3626353.10	1.22210	1.06578	0.89509
3626157.24	1.41086	1.17643	0.99430
3625961.38	1.92109	1.55538	1.32967
3625765.52	2.00696	1.72367	1.48233
3625569.66	1.91329	1.79000	1.50972
3625373.80	1.55125	1.49460	1.49391
3625177.94	1.43414	1.25228	1.24296
3624982.08	1.46187	1.18380	1.01163
3624786.22	1.25007	1.24470	1.06569
3624590.36	1.06792	1.08645	1.05945

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 26

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM ₁₀ IN MICROGRAMS/M ³	
X-COORD (M) Y-COORD (M)	CONC
492883.25 3625830.80	3.05581
3625834.65 3.25844	
492955.07 3625845.55	3.69132
3625832.73 3.95179	
493094.87 3625832.73	3.99660
3625837.21 4.08113	
493151.95 3625834.01	4.28059

3625837.86	4.42614		
493187.86	3625836.57	4.55838	493201.33
3625836.57	4.64677		
493240.44	3625836.57	4.88698	492881.32
3625908.40	3.47841		
492906.98	3625898.14	3.60690	492901.84
3625911.60	3.67487		
492928.14	3625914.81	3.94238	492933.91
3625898.14	3.89125		
492951.87	3625908.40	4.20718	492973.67
3625907.11	4.37682		
492993.55	3625914.17	4.53183	492996.11
3625897.50	4.38429		
493015.99	3625896.85	4.43404	493023.05
3625912.24	4.56381		
493044.21	3625907.11	4.51679	493066.66
3625907.76	4.56155		
493085.25	3625912.24	4.70967	493087.18
3625895.57	4.53035		
493108.98	3625911.60	4.88155	493112.19
3625897.50	4.72367		
493133.99	3625901.98	4.96141	492874.27
3625788.48	2.84056		
492894.15	3625789.12	2.91690	492910.18
3625790.40	2.95110		
492930.70	3625786.55	3.06713	492947.38
3625791.04	3.22345		
492963.41	3625787.84	3.33569	492982.65
3625787.84	3.46822		
492999.96	3625787.84	3.56216	493021.12
3625791.04	3.65100		
493036.52	3625789.12	3.65834	493055.75
3625789.76	3.66489		
493076.28	3625787.84	3.64926	493094.87
3625787.84	3.66930		
493112.83	3625788.48	3.70425	493129.50
3625787.19	3.73283		
493148.74	3625787.19	3.80904	493164.77
3625790.40	3.92158		
493184.65	3625789.12	4.02787	493201.97
3625791.04	4.15575		
493221.21	3625790.40	4.26694	493238.52
3625791.04	4.37495		
492780.00	3626415.01	23.70742	492778.72
3626388.08	18.15603		
492747.94	3626386.16	18.88688	492742.16
3626418.22	27.27184		
492699.20	3626422.71	28.27533	492697.92
3626391.93	21.99571		
492678.68	3626411.81	24.95849	492626.09

3626426.56	21.47087		
492606.85	3626435.54	19.66028	492599.16
3626405.39	18.54161		
492491.20	3626644.88	5.68775	492517.36
3626636.70	6.24262		
492521.18	3626603.45	7.05620	492521.72
3626582.19	7.62467		
492512.46	3626553.84	8.10131	492513.55
3626533.13	8.81255		
492501.01	3626506.42	9.08056	492490.65
3626485.70	9.39411		
492479.21	3626464.45	9.60660	492466.12
3626447.00	9.36765		
492447.59	3626418.66	9.12848	492431.78
3626430.65	8.31953		
492481.93	3626620.35	5.91311	492482.48
3626594.18	6.31735		
492479.21	3626572.92	6.71095	492477.02
3626546.76	7.27785		
492467.76	3626523.32	7.53745	492463.94
3626507.51	7.88839		
492450.86	3626492.79	7.83873	492427.42
3626474.80	7.66950		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 27

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	7.07228	492823.25
3626567.17	67.54724		
492838.34	3626526.92	82.95230	493039.78
3625834.45	3.95847		
492743.19	3626628.92	14.34865	492703.25

3626652.75	10.33531			
492723.78	3626582.16	22.17450		492761.18
3626553.82	42.93972			
493013.27	3625844.49	4.00889		492798.96
3626618.56	17.68195			
492794.41	3626665.12	13.35974		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 *** ***
 *** 06:13:04

PAGE 28

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD					X-COORD (METERS)
(METERS)		490879.18	491073.28	491267.38	491461.48 491655.58
491849.68		492043.78	492237.88	492431.98	

- - - - -
 - - - - -

3628507.56		0.19588	0.21880	0.23532	0.23619	0.25745
0.25350		0.24037	0.20846	0.24338		
3628311.70		0.21730	0.22590	0.25745	0.25975	0.28322
0.28674		0.28788	0.24844	0.25856		
3628115.84		0.25409	0.25146	0.26915	0.30551	0.29831
0.32966		0.32206	0.29589	0.27852		
3627919.98		0.28206	0.29108	0.28211	0.31734	0.34239
0.36838		0.36795	0.35404	0.29798		
3627724.12		0.30721	0.32721	0.33350	0.33391	0.37992
0.39513		0.42146	0.41883	0.33782		
3627528.26		0.31207	0.34674	0.38076	0.39357	0.39289
0.44654		0.46804	0.47808	0.43298		
3627332.40		0.28649	0.35443	0.41027	0.45347	0.45079
0.46920		0.51995	0.57281	0.59046		
3627136.54		0.30115	0.32434	0.39750	0.48517	0.52850
0.53169		0.56531	0.61657	0.64933		
3626940.68		0.39441	0.38919	0.38491	0.44122	0.55847
0.63803		0.64901	0.72112	0.79381		
3626744.82		0.41285	0.48650	0.51229	0.48725	0.51894

0.68879	0.85131	0.89926	0.94194		
3626548.96		0.49977	0.53715	0.56578	0.65703 0.67997
0.66756	0.94026	1.18686	1.20178		
3626353.10		0.54943	0.63623	0.71354	0.75753 0.90586
0.90444	1.08378	1.29642	1.82532		
3626157.24		0.54700	0.62968	0.76726	0.90179 1.09619
1.24435	1.42136	1.80087	2.00946		
3625961.38		0.57919	0.65066	0.76895	0.89161 1.10532
1.32554	1.54446	2.03257	2.89153		
3625765.52		0.76481	0.90766	1.07253	1.24347 1.49697
1.80177	2.29157	3.03697	4.76919		
3625569.66		0.89978	1.07337	1.29439	1.54285 1.75936
2.18916	2.78116	4.06735	6.05983		
3625373.80		0.96045	1.16054	1.37229	1.88627 2.50798
3.20663	3.56713	4.58677	5.38791		
3625177.94		1.16724	1.59391	1.89955	2.18646 2.78308
3.29155	3.71335	3.12388	3.18519		
3624982.08		1.43051	1.77169	1.97042	2.29402 2.72113
2.80295	2.63906	2.14836	2.05352		
3624786.22		1.51827	1.69327	2.04254	2.28618 2.16081
2.10168	1.88610	1.51989	1.50174		
3624590.36		1.53090	1.74955	1.76487	1.75014 1.66964
1.60499	1.40853	1.33579	1.27897		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 29

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)			
		492626.08	492820.18	493014.28	493208.38 493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56		0.27894	0.24441	0.21078	0.19851 0.20349
0.20036	0.17549	0.17765	0.11292		
3628311.70		0.29754	0.28518	0.23129	0.22222 0.22582

0.21727	0.20579	0.19991	0.07453		
3628115.84	0.33309	0.29322	0.26139	0.27397	0.26998
0.23664	0.23848	0.21278	0.07934		
3627919.98	0.34607	0.34324	0.29945	0.30921	0.31552
0.26014	0.26791	0.26291	0.10056		
3627724.12	0.37994	0.45392	0.38595	0.34398	0.31982
0.30258	0.28160	0.27221	0.16862		
3627528.26	0.44728	0.46038	0.43606	0.42239	0.39605
0.31979	0.28432	0.27842	0.33550		
3627332.40	0.47978	0.54768	0.49982	0.47012	0.44304
0.38236	0.31406	0.34272	0.28665		
3627136.54	0.54555	0.61589	0.53771	0.48971	0.40479
0.38271	0.41855	0.37992	0.30690		
3626940.68	0.71533	0.73408	0.66559	0.59908	0.48514
0.41055	0.45016	0.34234	0.34019		
3626744.82	1.05338	0.96025	0.89451	0.78186	0.60932
0.52960	0.43724	0.38773	0.34639		
3626548.96	1.34338	1.39046	1.24590	1.11772	0.84734
0.64055	0.58056	0.51104	0.43877		
3626353.10	2.15961	2.27416	1.88909	1.51637	1.20605
0.96986	0.83960	0.59872	0.46713		
3626157.24	2.91868	4.27781	4.03158	2.75009	2.05076
1.36153	0.99707	0.79025	0.69238		
3625961.38	4.67305	8.05215	12.57255	7.62526	3.35796
1.96631	1.36849	1.10629	0.95789		
3625765.52	8.12736	28.47545	46.24789	25.82185	7.55679
3.91811	2.62360	1.95773	1.55194		
3625569.66	8.76498	7.83973	10.29936	10.64646	8.14672
6.06859	3.68649	2.54467	1.82094		
3625373.80	4.18261	4.31217	3.90185	4.51655	4.39063
4.27344	4.17346	3.29114	2.58648		
3625177.94	2.46528	2.74363	2.93863	3.13972	3.62777
3.23229	3.12881	3.01656	2.75672		
3624982.08	2.03196	2.12023	2.27357	2.41097	2.54220
2.59774	2.50387	2.32937	2.22366		
3624786.22	1.49386	1.77880	1.84083	1.98526	1.99741
2.22392	2.00111	2.01075	1.86243		
3624590.36	1.36017	1.40121	1.50828	1.55943	1.61343
1.62853	1.86522	1.59049	1.65695		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 ***

*** 06:13:04

PAGE 30

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)

494372.98	494567.08	494761.18

3628507.56	0.05619	0.06943	0.07656
3628311.70	0.07063	0.07663	0.07988
3628115.84	0.08866	0.08699	0.07337
3627919.98	0.10574	0.09698	0.07556
3627724.12	0.13369	0.16037	0.09814
3627528.26	0.28600	0.24844	0.12854
3627332.40	0.26653	0.23538	0.18314
3627136.54	0.29960	0.28558	0.23827
3626940.68	0.31481	0.29081	0.30949
3626744.82	0.35769	0.31293	0.26510
3626548.96	0.33449	0.30054	0.28396
3626353.10	0.45978	0.38600	0.36592
3626157.24	0.56789	0.50291	0.39115
3625961.38	0.73202	0.72791	0.58366
3625765.52	1.18169	1.01137	0.77443
3625569.66	1.45629	1.13522	0.96326
3625373.80	2.00201	1.53900	1.24019
3625177.94	2.27077	1.93405	1.52617
3624982.08	2.22641	2.02096	1.69908
3624786.22	1.72144	1.75620	1.72411
3624590.36	1.55702	1.31157	1.40776

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 ***

*** 06:13:04

PAGE 31

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC	CONC	X-COORD (M)
492883.25	3625830.80	29.32408	492919.80
3625834.65	34.02772		
492955.07	3625845.55	24.61279	493069.86
3625832.73	104.37471		
493094.87	3625832.73	68.58691	493110.90
3625837.21	43.04331		
493151.95	3625834.01	27.86336	493166.70
3625837.86	22.57731		
493187.86	3625836.57	18.77872	493201.33
3625836.57	16.71680		
493240.44	3625836.57	12.82748	492881.32
3625908.40	12.62236		
492906.98	3625898.14	14.39100	492901.84
3625911.60	13.52802		
492928.14	3625914.81	14.48502	492933.91
3625898.14	15.41414		
492951.87	3625908.40	15.37192	492973.67
3625907.11	16.09717		
492993.55	3625914.17	16.93656	492996.11
3625897.50	17.51980		
493015.99	3625896.85	21.80806	493023.05
3625912.24	19.61069		
493044.21	3625907.11	21.21187	493066.66
3625907.76	21.68297		
493085.25	3625912.24	17.95507	493087.18
3625895.57	23.76327		
493108.98	3625911.60	17.01445	493112.19
3625897.50	19.32664		
493133.99	3625901.98	16.28261	492874.27
3625788.48	38.36979		
492894.15	3625789.12	44.42750	492910.18
3625790.40	48.88805		
492930.70	3625786.55	51.56574	492947.38
3625791.04	54.95082		
492963.41	3625787.84	50.39496	492982.65
3625787.84	51.22654		
492999.96	3625787.84	58.24440	493021.12
3625791.04	78.47407		
493036.52	3625789.12	80.12173	493055.75
3625789.76	85.24800		
493076.28	3625787.84	86.28154	493094.87
3625787.84	77.03139		
493112.83	3625788.48	57.98634	493129.50
3625787.19	50.03636		
493148.74	3625787.19	41.37317	493164.77

3625790.40	35.25945		
493184.65	3625789.12	29.17839	493201.97
3625791.04	24.76927		
493221.21	3625790.40	20.85268	493238.52
3625791.04	17.66427		
492780.00	3626415.01	1.94262	492778.72
3626388.08	2.09457		
492747.94	3626386.16	2.13559	492742.16
3626418.22	1.98703		
492699.20	3626422.71	1.97406	492697.92
3626391.93	2.10233		
492678.68	3626411.81	2.01261	492626.09
3626426.56	1.91171		
492606.85	3626435.54	1.81247	492599.16
3626405.39	1.92338		
492491.20	3626644.88	1.18416	492517.36
3626636.70	1.21786		
492521.18	3626603.45	1.28664	492521.72
3626582.19	1.31151		
492512.46	3626553.84	1.35557	492513.55
3626533.13	1.38178		
492501.01	3626506.42	1.40547	492490.65
3626485.70	1.44812		
492479.21	3626464.45	1.50091	492466.12
3626447.00	1.56374		
492447.59	3626418.66	1.68274	492431.78
3626430.65	1.62496		
492481.93	3626620.35	1.21447	492482.48
3626594.18	1.25617		
492479.21	3626572.92	1.28453	492477.02
3626546.76	1.31394		
492467.76	3626523.32	1.34700	492463.94
3626507.51	1.36181		
492450.86	3626492.79	1.39817	492427.42
3626474.80	1.46135		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 32

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3626567.17	492402.89	3626460.63	1.54147	492823.25
3625834.45	492838.34	3626526.92	1.44492	493039.78
3626652.75	492743.19	3626628.92	1.23533	492703.25
3626553.82	492723.78	3626582.16	1.39703	492761.18
3626618.56	493013.27	3625844.49	107.83633	492798.96
	492794.41	3626665.12	1.14108	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 ***
*** 06:13:04

PAGE 33

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

VALUES FOR SOURCE GROUP: STCK3 *** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
491849.68	490879.18 491073.28 491267.38 491461.48 491655.58
492043.78	492237.88 492431.98
3628507.56	0.28658 0.29185 0.28117 0.31316 0.33597
0.36381	0.32946 0.26575 0.32353
3628311.70	0.29303 0.32455 0.34606 0.32708 0.40573
0.42574	0.43258 0.35458 0.35546
3628115.84	0.32104 0.34580 0.39603 0.39268 0.41659
0.50610	0.51747 0.43635 0.37455
3627919.98	0.27637 0.34730 0.42186 0.45609 0.49448

0.53853	0.53800	0.62156	0.45741		
3627724.12		0.35378	0.33702	0.38581	0.48697 0.58793
0.58391	0.63674	0.78113	0.57353		
3627528.26		0.44380	0.47998	0.44163	0.48105 0.61303
0.72451	0.68203	0.81515	0.91069		
3627332.40		0.49050	0.49163	0.57867	0.65395 0.60585
0.67109	0.84584	1.02277	1.45950		
3627136.54		0.60851	0.65353	0.70797	0.71961 0.78138
0.84644	0.83881	1.15933	1.42893		
3626940.68		0.56069	0.63782	0.74463	0.87805 1.01215
1.18583	1.26509	1.49038	2.04632		
3626744.82		0.66778	0.77744	0.83554	0.98260 1.07534
1.49483	1.96732	2.88303	3.80774		
3626548.96		0.87013	1.04270	1.07072	1.43482 1.66072
1.86149	2.86196	4.37586	7.81619		
3626353.10		0.95933	1.22644	1.40891	1.51181 2.06125
2.29072	3.69152	5.46932	8.38051		
3626157.24		0.88996	1.14241	1.67265	2.03522 2.59933
3.01665	3.76579	4.25312	3.86254		
3625961.38		1.18186	1.33561	1.59893	1.91907 2.60395
2.95373	2.71332	2.45494	2.23460		
3625765.52		1.27991	1.60178	1.69015	1.82026 2.02455
1.91699	1.83744	1.60455	1.76545		
3625569.66		1.33107	1.62296	1.92336	1.95099 1.80038
1.66516	1.24344	1.18316	1.27362		
3625373.80		1.31065	1.49553	1.45129	1.58309 1.47128
1.32801	1.14044	1.13190	1.12687		
3625177.94		1.21293	1.40855	1.29044	1.19915 1.13674
1.03740	1.00467	0.87302	1.01188		
3624982.08		1.05009	1.17035	1.08253	1.03260 0.88646
0.88323	0.91027	0.84217	0.92659		
3624786.22		1.04920	0.93144	0.89134	0.82399 0.79771
0.78038	0.78328	0.72919	0.82082		
3624590.36		0.84437	0.84960	0.70349	0.70526 0.70770
0.72137	0.69227	0.64134	0.72211		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 34

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)						X-COORD (METERS)
		492626.08	492820.18	493014.28		493208.38 493402.48
493596.58		493790.68	493984.78	494178.88		

3628507.56		0.35975	0.32804	0.29251	0.29680	0.26046
0.23860		0.20476	0.25356	0.13465		
3628311.70		0.40851	0.36889	0.31372	0.30758	0.28636
0.24934		0.25715	0.30902	0.12877		
3628115.84		0.47129	0.39690	0.38958	0.39272	0.33112
0.29160		0.30652	0.30987	0.14097		
3627919.98		0.52381	0.46758	0.44408	0.43936	0.35343
0.37619		0.33174	0.26909	0.15529		
3627724.12		0.63765	0.70697	0.65088	0.51772	0.40599
0.42296		0.39355	0.34124	0.19831		
3627528.26		0.89928	0.75908	0.79320	0.58284	0.57244
0.48023		0.42413	0.44305	0.36515		
3627332.40		1.13190	1.04871	0.97599	0.79495	0.66543
0.58072		0.56713	0.51760	0.40162		
3627136.54		1.59640	1.44155	1.07188	0.86424	0.78527
0.78137		0.59582	0.51332	0.43777		
3626940.68		3.21323	2.80398	1.92453	1.53057	1.14519
0.92177		0.73294	0.59827	0.52281		
3626744.82		7.79046	10.06985	5.62795	2.70116	1.70324
1.09121		0.89339	0.76776	0.67704		
3626548.96		19.97525	28.92387	19.11885	7.39871	3.57895
2.20822		1.68901	1.31379	1.00552		
3626353.10		7.62077	8.01809	9.18448	8.27822	5.58893
3.54347		2.36420	1.70860	1.32295		
3626157.24		3.59659	3.84824	4.43196	4.50107	4.11325
3.79678		3.12069	2.27779	1.77947		
3625961.38		2.38462	2.53068	2.90193	3.34981	2.98344
2.78357		2.59373	2.45590	2.09774		
3625765.52		1.79913	1.93795	2.24882	2.11560	2.30966
2.17884		2.06860	1.93463	1.93477		
3625569.66		1.40458	1.45100	1.71066	1.66349	1.82624
1.70807		1.73038	1.63765	1.51837		
3625373.80		1.16364	1.22714	1.14326	1.21182	1.23109
1.66415		1.37987	1.45977	1.40307		
3625177.94		1.03733	1.04839	1.04646	1.14117	1.13712
1.27074		1.28279	1.21323	1.21824		
3624982.08		0.94863	0.87546	0.91765	0.94543	0.92230
0.95285		1.21354	1.06723	1.01199		
3624786.22		0.77422	0.78288	0.78994	0.89748	0.77938
0.81129		0.91803	1.03687	0.91040		
3624590.36		0.73369	0.71684	0.66251	0.75338	0.67012

0.64393 0.67437 0.86732 0.83284
^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 ***
*** 06:13:04

PAGE 35
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data
*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,
*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**
Y-COORD | X-COORD (METERS)
(METERS) | 494372.98 494567.08 494761.18

3628507.56 | 0.10065 0.09692 0.09602
3628311.70 | 0.10871 0.10148 0.09896
3628115.84 | 0.11916 0.11299 0.10798
3627919.98 | 0.13660 0.13205 0.14064
3627724.12 | 0.18249 0.20355 0.13081
3627528.26 | 0.30573 0.28808 0.15647
3627332.40 | 0.35228 0.35683 0.20947
3627136.54 | 0.39375 0.36794 0.37691
3626940.68 | 0.45160 0.39801 0.37780
3626744.82 | 0.60605 0.55749 0.48367
3626548.96 | 0.85210 0.73603 0.65673
3626353.10 | 1.09087 0.92989 0.79233
3626157.24 | 1.43017 1.13388 0.92789
3625961.38 | 1.72398 1.36443 1.21554
3625765.52 | 1.73772 1.51896 1.32549
3625569.66 | 1.51199 1.50852 1.33376
3625373.80 | 1.29498 1.21756 1.27669
3625177.94 | 1.22377 1.08058 1.02630
3624982.08 | 1.05842 1.02559 0.94692
3624786.22 | 0.87672 0.92336 0.90122
3624590.36 | 0.78607 0.72024 0.77447
^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 ***
*** 06:13:04

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
492883.25	3625830.80	2.16709	492919.80	
3625834.65	2.25404			
492955.07	3625845.55	2.48177	493069.86	
3625832.73	2.41307			
493094.87	3625832.73	2.42714	493110.90	
3625837.21	2.45789			
493151.95	3625834.01	2.41897	493166.70	
3625837.86	2.41682			
493187.86	3625836.57	2.35165	493201.33	
3625836.57	2.46369			
493240.44	3625836.57	2.58589	492881.32	
3625908.40	2.44091			
492906.98	3625898.14	2.54665	492901.84	
3625911.60	2.58159			
492928.14	3625914.81	2.67003	492933.91	
3625898.14	2.62265			
492951.87	3625908.40	2.67668	492973.67	
3625907.11	2.76172			
492993.55	3625914.17	2.78324	492996.11	
3625897.50	2.65969			
493015.99	3625896.85	2.71349	493023.05	
3625912.24	2.76146			
493044.21	3625907.11	2.68010	493066.66	
3625907.76	2.75257			
493085.25	3625912.24	2.72969	493087.18	
3625895.57	2.66202			
493108.98	3625911.60	2.70514	493112.19	
3625897.50	2.71115			
493133.99	3625901.98	2.64085	492874.27	
3625788.48	2.00261			
492894.15	3625789.12	2.08065	492910.18	
3625790.40	2.11275			
492930.70	3625786.55	2.12554	492947.38	

3625791.04	2.19076		
492963.41	3625787.84	2.23479	492982.65
3625787.84	2.21496		
492999.96	3625787.84	2.30224	493021.12
3625791.04	2.31406		
493036.52	3625789.12	2.29312	493055.75
3625789.76	2.27574		
493076.28	3625787.84	2.19642	493094.87
3625787.84	2.20257		
493112.83	3625788.48	2.28378	493129.50
3625787.19	2.22112		
493148.74	3625787.19	2.27994	493164.77
3625790.40	2.28311		
493184.65	3625789.12	2.26094	493201.97
3625791.04	2.26439		
493221.21	3625790.40	2.30865	493238.52
3625791.04	2.36014		
492780.00	3626415.01	10.55454	492778.72
3626388.08	9.18283		
492747.94	3626386.16	8.83054	492742.16
3626418.22	10.35209		
492699.20	3626422.71	10.79097	492697.92
3626391.93	8.91859		
492678.68	3626411.81	10.32416	492626.09
3626426.56	12.43561		
492606.85	3626435.54	13.70577	492599.16
3626405.39	11.02101		
492491.20	3626644.88	7.28577	492517.36
3626636.70	8.26368		
492521.18	3626603.45	10.11013	492521.72
3626582.19	11.21783		
492512.46	3626553.84	11.71893	492513.55
3626533.13	12.41216		
492501.01	3626506.42	12.15938	492490.65
3626485.70	12.01461		
492479.21	3626464.45	11.61731	492466.12
3626447.00	11.03286		
492447.59	3626418.66	10.01201	492431.78
3626430.65	9.64470		
492481.93	3626620.35	7.72070	492482.48
3626594.18	8.78318		
492479.21	3626572.92	9.37031	492477.02
3626546.76	10.08318		
492467.76	3626523.32	10.22582	492463.94
3626507.51	10.34248		
492450.86	3626492.79	10.13941	492427.42
3626474.80	9.39046		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 *** ***

*** 06:13:04

PAGE 37

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	8.66141	492823.25
3626567.17	41.26625		
492838.34	3626526.92	25.81998	493039.78
3625834.45	2.41824		
492743.19	3626628.92	47.07185	492703.25
3626652.75	23.98409		
492723.78	3626582.16	39.12576	492761.18
3626553.82	31.35185		
493013.27	3625844.49	2.47686	492798.96
3626618.56	98.60067		
492794.41	3626665.12	70.46009	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 ***

*** 06:13:04

PAGE 38

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002

, L0000003	, L0000004	, L0000005	,			
	L0000006	, L0000007	, L0000008	, L0000009	, L0000010	
, L0000011	, L0000012	, L0000013	,			
	L0000014	, L0000015	, L0000016	, L0000017	, L0000018	
, L0000019	, L0000020	, L0000021	,			
	L0000022	, L0000023	, L0000024	, L0000025	, L0000026	
, L0000027	, L0000028	, . . .	,			

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58	
491849.68	492043.78	492237.88	492431.98			

3628507.56	1.56778	1.69062	1.77783	1.94362	2.05096
2.16667	2.22970	2.16742	2.41695		
3628311.70	1.71834	1.85171	2.01929	2.11530	2.40538
2.55741	2.66834	2.59226	2.67985		
3628115.84	1.85885	2.03536	2.23769	2.42622	2.64237
3.01920	3.18841	3.13237	3.10186		
3627919.98	1.91243	2.19014	2.48255	2.72282	3.03517
3.48419	3.69229	4.00075	3.75746		
3627724.12	2.11407	2.28243	2.64196	3.07542	3.54488
3.91231	4.47089	5.12216	4.77409		
3627528.26	2.45286	2.67733	2.88333	3.33286	3.96866
4.64489	5.22606	6.22700	6.76040		
3627332.40	2.59041	2.93359	3.42357	3.85690	4.30507
5.19024	6.44012	8.11916	11.69022		
3627136.54	2.93954	3.27697	3.77668	4.35320	5.18273
6.09930	7.64525	10.37743	14.42331		
3626940.68	3.10441	3.53175	4.11649	4.95152	6.03217
7.54543	9.74902	13.69150	22.42025		
3626744.82	3.47062	4.25696	4.69906	5.60528	6.74538
9.58641	13.96530	21.83003	36.83837		
3626548.96	4.20284	5.05165	5.58592	7.69270	8.76685
11.12202	19.48457	35.73590	58.58659		
3626353.10	4.55121	6.03436	7.26701	8.18216	12.67674
13.73159	24.85270	23.82797	28.32601		
3626157.24	4.66549	5.77758	8.72246	11.08231	14.47425
17.65194	20.64971	22.22393	21.82628		
3625961.38	5.38548	6.41506	7.77432	9.60099	13.73388
15.11054	13.73590	13.62923	14.88941		
3625765.52	5.93608	7.57616	8.19264	8.81072	9.77536
10.15924	10.33341	10.60280	13.92254		
3625569.66	6.10256	7.26940	8.99524	9.82486	9.08439
9.41767	8.45280	9.54912	12.02672		
3625373.80	5.95887	6.68511	6.82616	8.48504	8.83563
9.22691	8.54563	9.74127	10.89689		
3625177.94	5.62990	7.10540	7.12695	6.75234	7.79308
7.95125	8.25076	6.98105	7.69096		
3624982.08	5.18683	6.22507	6.22373	6.52150	6.67305
6.63533	6.52478	5.74707	6.14230		

3624786.22		5.40538	5.11369	5.60868	5.78410	5.48733
5.41468		5.25864	4.75506	4.91288		
3624590.36		4.69350	4.84943	4.58286	4.61859	4.57032
4.49805		4.36800	4.28727	4.37060		

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 *** ***
 *** 06:13:04

PAGE 39

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)				
(METERS)		492626.08	492820.18	493014.28	493208.38	493402.48
493596.58		493790.68	493984.78	494178.88		

3628507.56		2.55267	2.43375	2.09555	2.22911	2.11921
2.08674		1.41737	0.92761	0.44385		
3628311.70		2.89248	2.82772	2.39256	2.31620	2.47156
2.34403		1.41413	0.97601	0.37033		
3628115.84		3.39872	3.02908	2.93284	3.33152	3.04925
2.55557		1.36534	0.99258	0.41080		
3627919.98		3.92854	3.75771	3.51235	3.97290	2.32298
2.23041		1.38426	0.87624	0.47048		
3627724.12		5.01354	6.00612	5.07207	4.96876	3.84715
2.29669		1.45350	1.08776	0.64052		
3627528.26		7.81906	6.61376	7.49370	3.97138	3.40182
4.13975		1.78284	1.44932	1.16547		
3627332.40		10.37254	9.80178	10.43635	8.27135	3.76622
2.57025		1.95641	1.73654	1.47752		
3627136.54		17.04349	16.11517	12.45115	9.09394	6.84159

4.92433	2.40932	2.03293	2.17288		
3626940.68		39.98196	37.13650	21.36166	12.89785 8.86246
7.34914	5.42294	4.50466	3.05756		
3626744.82		144.46251	197.72807	40.08083	19.48080 13.13004
7.72383	5.90359	4.76153	4.12741		
3626548.96		85.34457	179.18698	69.49288	26.43968 14.41653
11.69435	9.00194	7.02405	4.99277		
3626353.10		33.81327	31.14625	48.74081	30.85641 19.37284
13.73461	9.79265	7.28763	6.34686		
3626157.24		19.19729	18.33977	23.75589	19.17591 15.86358
15.90486	12.89541	8.51034	6.41350		
3625961.38		16.19561	16.48386	22.71276	19.75335 13.79728
10.98697	11.24898	8.89906	7.47199		
3625765.52		17.47894	34.62042	53.63699	33.85478 16.69391
11.48607	9.06539	7.99075	7.70969		
3625569.66		15.30179	14.83263	16.18636	18.14062 16.82916
12.10800	9.40999	7.69364	6.59963		
3625373.80		10.01321	8.86578	9.14842	10.27318 10.38218
11.54425	9.77967	8.04345	6.94695		
3625177.94		7.28045	7.20967	7.16726	8.25453 7.89624
8.40402	7.52228	6.88755	6.67376		
3624982.08		5.99942	5.70097	5.40670	6.51425 5.78411
5.94496	6.57497	5.85745	5.56771		
3624786.22		4.89917	5.02293	4.52173	4.95231 4.66664
4.94291	5.29367	5.46207	4.82480		
3624590.36		4.39772	4.45504	3.85592	3.89490 4.03879
4.26533	4.69388	4.62789	4.45597		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 40

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	494372.98	494567.08	494761.18

3628507.56	0.29201	0.29475	0.29983
3628311.70	0.32583	0.31563	0.31721
3628115.84	0.36624	0.35117	0.32821
3627919.98	0.42760	0.40396	0.37826
3627724.12	0.54255	0.63210	0.42051
3627528.26	1.03915	0.96740	0.49690
3627332.40	1.32622	1.18326	0.66218
3627136.54	1.68530	1.47537	1.19550
3626940.68	2.42421	2.08787	1.74879
3626744.82	3.72838	3.33386	2.54721
3626548.96	4.18620	3.62096	3.18328
3626353.10	4.54451	4.38484	3.47653
3626157.24	5.48485	4.17156	4.23199
3625961.38	7.28631	5.14647	5.15236
3625765.52	6.99620	5.94676	5.31382
3625569.66	6.33200	6.36606	5.73933
3625373.80	6.03069	5.48194	5.24406
3625177.94	5.99414	5.33738	4.86222
3624982.08	5.80632	5.22163	4.92899
3624786.22	4.61297	5.11464	4.88512
3624590.36	4.21979	4.33268	4.17521

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 ***
*** 06:13:04

PAGE 41

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
3625834.65	492883.25	3625830.80	36.21814	492919.80
	41.21732			
3625832.73	492955.07	3625845.55	32.53245	493069.86
	112.50580			
3625837.21	493094.87	3625832.73	76.79788	493110.90
	51.40725			
3625837.86	493151.95	3625834.01	36.45431	493166.70
	31.35615			
3625836.57	493187.86	3625836.57	27.67904	493201.33
	25.85263			
3625908.40	493240.44	3625836.57	22.47305	492881.32
	20.38826			
3625911.60	492906.98	3625898.14	22.31401	492901.84
	21.65868			
3625898.14	492928.14	3625914.81	23.03723	492933.91
	23.74222			
3625907.11	492951.87	3625908.40	24.17741	492973.67
	25.24782			
3625897.50	492993.55	3625914.17	26.35254	492996.11
	26.62664			
3625912.24	493015.99	3625896.85	30.88166	493023.05
	28.93468			
3625907.76	493044.21	3625907.11	30.41003	493066.66
	31.14130			
3625895.57	493085.25	3625912.24	27.50988	493087.18
	33.03485			
3625897.50	493108.98	3625911.60	26.72890	493112.19
	28.86251			
3625788.48	493133.99	3625901.98	26.13009	492874.27
	44.90072			
3625790.40	492894.15	3625789.12	51.09320	492910.18
	55.63285			
3625791.04	492930.70	3625786.55	58.45829	492947.38
	62.07696			
3625787.84	492963.41	3625787.84	57.68342	492982.65
	58.63068			
3625791.04	492999.96	3625787.84	65.82449	493021.12
	86.15008			
3625789.76	493036.52	3625789.12	87.78064	493055.75
	92.90159			
3625787.84	493076.28	3625787.84	93.84734	493094.87
	84.63589			
	493112.83	3625788.48	65.73238	493129.50

3625787.19	57.77453		
493148.74	3625787.19	49.28414	493164.77
3625790.40	43.32631		
493184.65	3625789.12	37.38611	493201.97
3625791.04	33.15473		
493221.21	3625790.40	29.44268	493238.52
3625791.04	26.48951		
492780.00	3626415.01	53.94001	492778.72
3626388.08	41.76545		
492747.94	3626386.16	41.63267	492742.16
3626418.22	56.48549		
492699.20	3626422.71	57.90079	492697.92
3626391.93	44.57148		
492678.68	3626411.81	50.20042	492626.09
3626426.56	46.66567		
492606.85	3626435.54	53.40244	492599.16
3626405.39	42.28890		
492491.20	3626644.88	79.92584	492517.36
3626636.70	92.14150		
492521.18	3626603.45	102.92810	492521.72
3626582.19	99.58267		
492512.46	3626553.84	88.32552	492513.55
3626533.13	80.19438		
492501.01	3626506.42	71.37553	492490.65
3626485.70	67.79303		
492479.21	3626464.45	61.75238	492466.12
3626447.00	52.16690		
492447.59	3626418.66	36.82604	492431.78
3626430.65	37.50931		
492481.93	3626620.35	82.26965	492482.48
3626594.18	86.89284		
492479.21	3626572.92	85.10528	492477.02
3626546.76	80.12507		
492467.76	3626523.32	72.71149	492463.94
3626507.51	69.41374		
492450.86	3626492.79	65.95911	492427.42
3626474.80	54.86529		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 *** ***
 *** 06:13:04

PAGE 42

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010

```

, L0000011      , L0000012      , L0000013      ,
                  L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
                  L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

```

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	37.78201	492823.25
3626567.17	178.60218		
492838.34	3626526.92	159.49852	493039.78
3625834.45	164.52276		
492743.19	3626628.92	204.06372	492703.25
3626652.75	243.76714		
492723.78	3626582.16	141.20238	492761.18
3626553.82	136.88447		
493013.27	3625844.49	116.14170	492798.96
3626618.56	236.72961		
492794.41	3626665.12	318.55978	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 43

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)				X-COORD (METERS)
	490879.18		491073.28	491267.38
491461.48		491655.58		

3628507.6		57.68415 (21011618)	57.97019 (21032421)	63.11346 (21012124)
71.61639	(22011623)	75.93872 (20090706)		
3628311.7		63.50970 (22120701)	67.42574 (21011618)	67.75856 (21032421)
72.53381	(21012124)	81.67732 (22102521)		
3628115.8		62.36404 (20010719)	72.89201 (22120701)	80.97307 (22120523)
81.22625	(21102603)	89.17079 (22011623)		
3627920.0		70.90007 (22120522)	76.86995 (22120522)	82.81320 (22120701)
99.29442	(22120523)	99.72127 (21102603)		
3627724.1		62.41058 (21012201)	82.07056 (22010221)	100.05120 (22120522)
102.48461	(20101702)	124.99304 (22120523)		
3627528.3		68.97143 (21011623)	81.27771 (21021307)	88.62110 (20040403)
119.55152	(22010221)	132.33201 (20010719)		
3627332.4		73.04493 (22011221)	81.62555 (20042502)	100.25261 (21011623)
116.60606	(21021307)	137.95563 (20040403)		
3627136.5		78.14433 (22120623)	89.90822 (22120623)	105.56901 (20121405)
123.95441	(20010821)	149.93377 (21011623)		
3626940.7		77.14637 (22031223)	90.10990 (22031223)	107.31476 (21122421)
133.75429	(22120524)	163.74006 (22120524)		
3626744.8		96.40977 (21012919)	115.92789 (21012919)	132.28767 (21012919)
159.81195	(21012919)	198.55616 (21012919)		
3626549.0		132.06424 (20122123)	199.66839 (20122123)	298.97272 (20122123)
434.40841	(20122123)	582.88733 (20122123)		
3626353.1		286.42154 (20122123)	256.59183 (20122123)	188.42398 (20122123)
165.13080	(20022501)	259.08687 (22010222)		
3626157.2		97.55714 (22011222)	109.91964 (22010222)	165.39367 (20021722)
197.76077	(20022324)	279.66778 (21030222)		
3625961.4		94.24282 (20021722)	105.94913 (20022324)	121.44388 (22012701)
359.49693	(21030222)	530.88024 (22010619)		
3625765.5		88.75340 (22012701)	209.12589 (21030222)	338.66726 (21030222)
355.58104	(20011520)	391.30099 (21110104)		
3625569.7		249.50898 (21030222)	262.20210 (22010619)	374.41440 (20011520)
392.14467	(21110104)	268.52183 (20100406)		
3625373.8		185.60232 (22010619)	291.39310 (20011520)	238.29484 (21110104)
260.02676	(20100406)	410.92232 (20111623)		
3625177.9		240.73707 (20011520)	219.26496 (21110104)	175.47241 (20102402)
278.74031	(20100406)	327.93879 (20111623)		
3624982.1		152.73270 (21110104)	151.84420 (20102402)	252.11409 (20100406)
311.79399	(20111623)	362.43249 (22012923)		
3624786.2		121.09665 (20102402)	208.94220 (20100406)	263.82306 (20111623)
281.71605	(22012923)	210.85452 (22012923)		
3624590.4		181.43205 (20100406)	197.49391 (20111623)	155.76645 (22012923)

223.13197 (22012923) 71.13751 (22122304)
▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 ***
*** 06:13:04

PAGE 44

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)		
492431.98	491849.68	492043.78
	492626.08	492237.88

3628507.6	86.10325 (21020820)	98.96191 (20022222)	87.42654 (22011621)
92.41059 (22102623)	63.95658 (21102918)		
3628311.7	100.54694 (21020820)	107.51725 (20022222)	106.10146 (20101705)
93.03820 (22102623)	69.08681 (21102918)		
3628115.8	100.81437 (21021402)	121.49895 (21020820)	130.80223 (22102624)
120.03086 (22011621)	76.95211 (21102918)		
3627920.0	121.72856 (22011623)	137.49282 (20090706)	165.75939 (20022222)
151.79003 (22011621)	105.37191 (22102623)		
3627724.1	126.73735 (21012124)	154.33511 (22011623)	189.83455 (21020820)
190.25471 (20101705)	153.77827 (22102623)		
3627528.3	164.82419 (22120701)	179.03551 (21012124)	215.34728 (20090706)
270.66585 (20022222)	261.14707 (22102623)		
3627332.4	196.20884 (22120522)	237.34156 (22120701)	263.86984 (21012124)
415.84481 (21020820)	320.66595 (22102623)		
3627136.5	187.89723 (22011624)	264.06478 (22010221)	360.83007 (22120701)
465.90610 (22011623)	525.60317 (22011621)		
3626940.7	212.94658 (22120623)	283.72994 (20010821)	407.71282 (21011623)
707.07428 (22120522)	981.07759 (21020820)		

3626744.8	263.40390 (21012919)	373.99097 (21012919)	564.61620 (21012919)
881.37154 (21012919)	2165.44771 (20011408)		
3626549.0	663.03092 (20122123)	696.63898 (20021206)	687.10689 (20021722)
1395.29898 (21030222)	1500.74088 (22012923)		
3626353.1	251.18768 (20120923)	619.28838 (21030222)	450.88913 (20100901)
414.36754 (21042703)	433.41705 (21020924)		
3626157.2	651.76906 (21030222)	769.18017 (20011520)	828.40798 (20100406)
649.00490 (22120504)	547.12283 (21041524)		
3625961.4	638.89522 (21110104)	531.26254 (20100406)	646.42245 (22012923)
275.40437 (22021320)	475.46805 (20090401)		
3625765.5	372.07906 (20100406)	479.38028 (20111623)	283.67829 (22012923)
240.32368 (21121921)	244.98163 (20012222)		
3625569.7	415.89277 (20111623)	425.58644 (22012923)	136.42225 (22021320)
143.59674 (21121921)	165.55253 (20012222)		
3625373.8	470.01915 (22012923)	151.31168 (22012923)	132.41457 (22120820)
269.64997 (20021220)	153.26867 (20012222)		
3625177.9	350.41747 (22012923)	119.53714 (22021320)	94.09240 (21121921)
263.80998 (20021220)	121.20381 (20012222)		
3624982.1	117.18185 (22012923)	102.02830 (22021320)	96.80796 (21121921)
121.53472 (20112124)	248.74511 (20011420)		
3624786.2	84.65480 (22021320)	90.72397 (22120820)	83.21187 (21121921)
85.50578 (22120222)	87.14110 (21040805)		
3624590.4	78.91817 (22021320)	75.21912 (21121921)	78.38612 (21120123)
80.34095 (22120222)	192.81904 (21030704)		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 *** ***
 *** 06:13:04

PAGE 45

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD |

X-COORD (METERS)

(METERS)	492820.18	493014.28	493208.38
493402.48	493596.58		
3628507.6	86.16387 (22102021)	36.67500 (20100318)	60.60107 (22102202)
34.93932 (20101418)	40.95412 (21080821)		
3628311.7	98.67048 (22102021)	47.12125 (22102202)	53.34132 (22102202)
43.44862 (20101418)	58.91854 (21080821)		
3628115.8	98.60924 (22102021)	67.66533 (22102202)	64.79144 (22102202)
58.76031 (21080821)	79.33618 (20092419)		
3627920.0	118.30230 (22102021)	86.46824 (22102202)	70.98333 (20101418)
183.48735 (21080821)	190.16162 (22010702)		
3627724.1	203.49487 (22102021)	184.24461 (22102202)	93.17780 (21080821)
97.10540 (20092419)	160.01449 (21122302)		
3627528.3	177.13838 (22102021)	139.59466 (22102202)	259.01636 (20121022)
245.31184 (21122302)	147.40846 (22091021)		
3627332.4	216.27092 (22102021)	180.73376 (21080821)	174.35701 (20092420)
346.28456 (22091021)	147.45441 (20032305)		
3627136.5	328.37867 (22102202)	250.05710 (20092419)	191.85423 (20092420)
166.69341 (22122819)	256.97536 (20081602)		
3626940.7	530.67730 (22102202)	412.16646 (20032305)	223.55711 (20040319)
188.66482 (21052124)	231.73434 (22120120)		
3626744.8	2584.26160 (22120120)	845.28538 (22120119)	453.23386 (21080723)
355.48793 (21080723)	203.44528 (21080723)		
3626549.0	1097.47831 (21052323)	680.08893 (22021419)	549.46044 (22100605)
466.46506 (20041206)	209.41333 (21072101)		
3626353.1	489.89185 (22052506)	534.18065 (20112119)	408.22817 (20071003)
312.45224 (22082122)	318.25121 (20090703)		
3626157.2	330.42859 (22052506)	377.96105 (21080802)	259.38292 (21021008)
215.71461 (20080822)	341.50720 (20092022)		
3625961.4	174.03890 (21061301)	164.99735 (21120822)	156.54487 (21092704)
202.19561 (21021008)	178.66477 (21081705)		
3625765.5	147.59138 (22102103)	158.78299 (22052206)	148.46475 (21080802)
223.29414 (21092804)	155.82933 (21071502)		
3625569.7	152.68345 (21102021)	203.63528 (22052506)	313.89415 (21111722)
153.88705 (21013119)	133.12937 (20080523)		
3625373.8	217.91070 (21081704)	116.77608 (22121919)	114.29925 (22021319)
113.45275 (21031721)	133.40061 (21013119)		
3625177.9	249.71700 (22081103)	209.74161 (21030703)	148.88903 (21080102)
168.71834 (20102503)	183.95825 (21072104)		
3624982.1	210.99157 (22081103)	125.51108 (20042523)	216.34208 (21080902)
117.46069 (21092803)	87.72855 (21080802)		
3624786.2	190.55526 (22081103)	113.52727 (20042523)	124.51866 (22101306)
96.29305 (21120822)	93.71379 (22052123)		
3624590.4	107.94862 (21040803)	117.11603 (22052124)	105.52423 (22052506)
114.09099 (22052206)	158.94209 (22040304)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***

*** 06:13:04

PAGE 46

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	493790.68	493984.78	494178.88
494372.98	494567.08		

3628507.6	106.26041 (20121022)	46.20159 (22011808)	10.60166 (20041221)
8.23421 (22022102)	7.96253 (20031823)		
3628311.7	138.72804 (22011808)	27.33171 (22100421)	9.79037 (22022102)
8.64104 (20031823)	5.98682 (22022205)		
3628115.8	114.04723 (21122302)	22.18706 (21041206)	11.55097 (20031823)
7.61754 (22022205)	8.00219 (20041219)		
3627920.0	64.24662 (20092420)	18.24704 (21011717)	10.12977 (22022205)
10.74994 (20041219)	7.16224 (22022202)		
3627724.1	62.69271 (21021324)	24.72090 (22042003)	13.48682 (22100522)
11.86767 (20051006)	13.65602 (22052821)		
3627528.3	106.41297 (22091021)	42.32678 (21030804)	23.94494 (21051703)
26.86839 (21070819)	28.28429 (20050101)		
3627332.4	103.41423 (22122819)	53.04701 (21070819)	56.68125 (20050101)
62.78080 (22102204)	42.54594 (20020308)		
3627136.5	109.21065 (22102204)	93.61672 (21091523)	140.35756 (22102203)
114.92692 (22102203)	88.96989 (22120120)		
3626940.7	263.05430 (22120120)	155.83526 (22120120)	195.51808 (20062123)
188.28033 (20062123)	167.01022 (20062123)		
3626744.8	157.77515 (21080723)	128.49490 (21080723)	113.98495 (21080723)
103.76689 (21080723)	100.72127 (22040302)		
3626549.0	197.28594 (21081523)	141.69963 (20101719)	100.07541 (21021002)
86.85585 (21021002)	74.77150 (21021002)		

3626353.1	317.11124 (22100605)	278.67954 (20041206)	107.88545 (20092521)
213.21170 (20121024)	134.07817 (20062522)		
3626157.2	327.50829 (21063023)	196.78110 (21081903)	151.02145 (22100605)
197.91917 (22100605)	144.77369 (21090204)		
3625961.4	279.36257 (22041522)	158.71480 (22101020)	143.96509 (21090701)
189.64278 (21052723)	126.73656 (22101204)		
3625765.5	124.54378 (21081705)	129.02267 (20053106)	135.27590 (21092401)
157.57971 (22101020)	134.90815 (21090701)		
3625569.7	118.71378 (21071502)	115.33492 (21081705)	116.13766 (20071003)
128.04401 (20092022)	163.68449 (20082201)		
3625373.8	216.24283 (22082704)	105.82340 (21071502)	108.84735 (21072106)
109.86465 (20071003)	111.40522 (21040405)		
3625177.9	103.22556 (21092804)	101.97969 (21021008)	92.37016 (21072106)
105.19000 (21072106)	105.29000 (22040123)		
3624982.1	91.01524 (21092704)	88.98432 (20041404)	109.77457 (21021008)
117.65773 (22082223)	105.07278 (21072106)		
3624786.2	105.95096 (20050806)	91.20699 (21092704)	86.54753 (20080523)
103.67755 (21021008)	144.88294 (22082223)		
3624590.4	149.18875 (22081002)	93.74285 (20100623)	85.84215 (21092804)
102.34641 (22082704)	128.98129 (22080701)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 47

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)	494761.18	

- - - - -
 - - - - -

3628507.6		7.02036	(21021519)
3628311.7		7.75608	(20060602)
3628115.8		7.16468	(20041219)
3627920.0		8.84365	(20100724)
3627724.1		12.31934	(20060406)
3627528.3		14.01694	(21051806)
3627332.4		15.35935	(20121718)
3627136.5		50.01572	(22120120)
3626940.7		125.01349	(21071321)
3626744.8		163.42261	(21070923)
3626549.0		67.01967	(20070922)
3626353.1		184.63827	(20070924)
3626157.2		68.72024	(20092521)
3625961.4		81.97170	(21110419)
3625765.5		159.60432	(21052723)
3625569.7		167.69436	(22091005)
3625373.8		105.49948	(20092022)
3625177.9		100.03899	(22061005)
3624982.1		142.01289	(22040123)
3624786.2		141.08928	(20032505)
3624590.4		116.36795	(22082223)

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 48

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

492883.25	3625830.80	189.46166	(22052506)	492919.80
3625834.65	224.00589	(22052506)		
492955.07	3625845.55	194.39585	(22052506)	493069.86
3625832.73	142.45706	(21120822)		
493094.87	3625832.73	146.46990	(22011906)	493110.90
3625837.21	153.16744	(22011906)		
493151.95	3625834.01	142.78837	(22052123)	493166.70
3625837.86	135.60872	(21080802)		
493187.86	3625836.57	150.43065	(20050806)	493201.33
3625836.57	165.16497	(20050806)		
493240.44	3625836.57	179.80519	(20050806)	492881.32
3625908.40	221.69537	(22052506)		
492906.98	3625898.14	230.60056	(22052506)	492901.84
3625911.60	238.97299	(22052506)		
492928.14	3625914.81	225.00112	(22052506)	492933.91
3625898.14	212.78456	(22052506)		
492951.87	3625908.40	182.25443	(22052506)	492973.67
3625907.11	171.61705	(22052206)		
492993.55	3625914.17	164.97537	(22052206)	492996.11
3625897.50	166.85633	(22052206)		
493015.99	3625896.85	146.20712	(21120822)	493023.05
3625912.24	155.15760	(21120822)		
493044.21	3625907.11	151.54765	(21120822)	493066.66
3625907.76	168.34514	(22011906)		
493085.25	3625912.24	166.51732	(22011906)	493087.18
3625895.57	167.16542	(22011906)		
493108.98	3625911.60	156.67141	(22052123)	493112.19
3625897.50	158.82079	(22052123)		
493133.99	3625901.98	153.94303	(21080802)	492874.27
3625788.48	159.41527	(22052506)		
492894.15	3625789.12	194.61023	(22052506)	492910.18
3625790.40	216.14115	(22052506)		
492930.70	3625786.55	226.70701	(22052506)	492947.38
3625791.04	219.37069	(22052506)		
492963.41	3625787.84	201.50893	(22052506)	492982.65
3625787.84	168.08835	(22052506)		
492999.96	3625787.84	161.51743	(22052206)	493021.12
3625791.04	154.15562	(22052206)		
493036.52	3625789.12	143.14563	(22052206)	493055.75
3625789.76	143.19807	(21120822)		
493076.28	3625787.84	147.95977	(21120822)	493094.87
3625787.84	140.98153	(21120822)		
493112.83	3625788.48	147.37660	(22011906)	493129.50
3625787.19	154.19146	(22011906)		
493148.74	3625787.19	153.81958	(22052123)	493164.77
3625790.40	151.81554	(22052123)		
493184.65	3625789.12	146.60745	(21080802)	493201.97
3625791.04	143.51741	(22081801)		
493221.21	3625790.40	164.64572	(20050806)	493238.52
3625791.04	181.04219	(20050806)		

492780.00	3626415.01	785.72505	(22052506)	492778.72
3626388.08	621.05917	(22052506)		
492747.94	3626386.16	559.74398	(21081704)	492742.16
3626418.22	754.01445	(21081704)		
492699.20	3626422.71	774.98571	(20052503)	492697.92
3626391.93	570.69588	(20052503)		
492678.68	3626411.81	598.03176	(21120821)	492626.09
3626426.56	539.74641	(22011908)		
492606.85	3626435.54	807.63979	(22052202)	492599.16
3626405.39	568.63257	(22011908)		
492491.20	3626644.88	1222.35201	(20021601)	492517.36
3626636.70	1270.98722	(20120923)		
492521.18	3626603.45	1867.00231	(21030222)	492521.72
3626582.19	1865.29234	(21030222)		
492512.46	3626553.84	1864.26162	(20011520)	492513.55
3626533.13	1672.74076	(21110104)		
492501.01	3626506.42	1492.86775	(21110104)	492490.65
3626485.70	1443.48335	(21110104)		
492479.21	3626464.45	1423.53782	(20100406)	492466.12
3626447.00	1137.81155	(20102402)		
492447.59	3626418.66	683.69653	(20102402)	492431.78
3626430.65	680.15787	(20100705)		
492481.93	3626620.35	1197.46673	(20120923)	492482.48
3626594.18	1524.68727	(21030222)		
492479.21	3626572.92	1814.02872	(21030222)	492477.02
3626546.76	1677.23670	(21030222)		
492467.76	3626523.32	1711.58732	(20011520)	492463.94
3626507.51	1733.85146	(20011520)		
492450.86	3626492.79	1805.59002	(20011520)	492427.42
3626474.80	1313.35536	(20011520)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 49

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	644.65540	(20102401)	492823.25
3626567.17	1265.84091	(21013119)		
492838.34	3626526.92	1043.38600	(21013119)	493039.78
3625834.45	143.74382	(21120822)		
492743.19	3626628.92	1622.19998	(22121919)	492703.25
3626652.75	2021.55066	(20111623)		
492723.78	3626582.16	1329.50772	(20012222)	492761.18
3626553.82	1173.16240	(22121919)		
493013.27	3625844.49	151.38795	(22052206)	492798.96
3626618.56	1593.01686	(21013119)		
492794.41	3626665.12	2102.81330	(22010618)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 ***
*** 06:13:04

PAGE 50

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,
*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
491461.48	490879.18	491073.28	491267.38
3628507.6	89.46084 (21011618)	96.63241 (21031402)	104.51765 (22090601)
113.78232	(22062102)	119.88660 (20090706)	
3628311.7	126.41060 (22051505)	103.37506 (21011618)	101.49743 (21031402)
99.53714	(21052422)	151.29749 (22062102)	
3628115.8	108.51920 (20101805)	147.41878 (22051505)	117.72773 (21011618)

106.46860 (22011702)	105.71684 (22080803)		
3627920.0 138.08606 (21052423)	130.65923 (22122902)	163.49564 (22032023)	
132.60540 (21011618)	120.69773 (22011702)		
3627724.1 163.47457 (21081604)	142.45420 (20101707)	171.90060 (22122902)	
193.39084 (22032023)	157.82980 (21011618)		
3627528.3 178.16604 (20081623)	180.66862 (22090223)	170.01830 (22120202)	
202.46033 (21052423)	205.61837 (22032023)		
3627332.4 147.44354 (21020722)	161.91590 (20061501)	204.97159 (20081623)	
198.14000 (21081604)	179.25132 (21120103)		
3627136.5 182.25969 (22101701)	183.33485 (21040202)	187.41744 (21020722)	
193.64464 (21021623)	231.18682 (20081623)		
3626940.7 166.14967 (22041606)	164.86949 (21092022)	206.57498 (21092022)	
207.45835 (20101220)	227.12357 (21040202)		
3626744.8 202.14667 (22040523)	227.59187 (22040523)	223.10177 (22062101)	
246.04319 (22062101)	240.79827 (22011703)		
3626549.0 207.01298 (21101721)	226.66991 (21101721)	216.70846 (20042724)	
272.02041 (20042724)	272.79626 (21090703)		
3626353.1 173.57856 (21061202)	223.60668 (20081402)	230.94899 (21112923)	
257.62626 (21112923)	293.16489 (20052123)		
3626157.2 175.85290 (20103021)	197.86251 (22043021)	253.40378 (20061223)	
255.74799 (22040823)	267.70516 (20121705)		
3625961.4 165.35254 (22110522)	169.78810 (22123102)	199.51641 (22081101)	
220.20972 (22092801)	263.95981 (22050405)		
3625765.5 166.42236 (20021723)	209.87884 (22040423)	200.07042 (22050405)	
192.89896 (22051302)	214.48630 (20101401)		
3625569.7 172.26439 (22050405)	199.68755 (22051302)	217.02970 (20022424)	
264.22839 (22042324)	250.11685 (20061423)		
3625373.8 165.78748 (20071603)	188.34363 (20101401)	196.92747 (20051324)	
236.76640 (20061423)	258.13927 (20052324)		
3625177.9 155.02649 (20032902)	212.14227 (21031622)	219.50233 (22120502)	
213.56102 (20052324)	243.97262 (22062801)		
3624982.1 155.52598 (22050401)	210.41871 (20050604)	207.70874 (21100901)	
209.69572 (20080806)	220.62725 (21071905)		
3624786.2 200.07139 (20050604)	181.95326 (21100901)	183.80839 (20080806)	
217.91245 (21071905)	204.34827 (20050524)		
3624590.4 180.51218 (21100901)	164.57721 (21081303)	177.42480 (20080624)	
188.29599 (21052501)	214.72871 (20092303)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 51

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
	491849.68		492043.78	492237.88
492431.98		492626.08		

3628507.6		117.03577 (20011701)	125.76568 (22122822)	123.88932 (20101705)
129.00545		(21081223)	184.61001 (22062723)	
3628311.7		166.72904 (20050702)	153.20875 (21113001)	155.73475 (20111805)
179.62520		(21081223)	198.21578 (22062723)	
3628115.8		171.45103 (22102622)	170.13015 (22102522)	152.48739 (22102624)
165.67225		(21081223)	186.78541 (22062723)	
3627920.0		159.17826 (22062102)	197.54655 (20090706)	182.43129 (22090703)
160.48983		(22080905)	171.91589 (21071322)	
3627724.1		149.89780 (22090601)	211.42377 (22062102)	260.33862 (22102522)
193.39362		(20111805)	199.22788 (22062022)	
3627528.3		175.36554 (21011618)	166.27009 (22090601)	205.50091 (20090706)
199.13419		(22122822)	291.87158 (22062022)	
3627332.4		185.69445 (20101805)	208.37019 (21081301)	186.50000 (22090601)
387.66225		(22102522)	279.92049 (22080905)	
3627136.5		250.16154 (21081604)	242.13412 (22122902)	251.86067 (21081301)
296.74886		(22062102)	282.42392 (20111805)	
3626940.7		219.82271 (21021623)	278.19260 (20081623)	257.13349 (20031323)
330.50112		(21040201)	447.89963 (22102522)	
3626744.8		293.47609 (22041606)	354.80267 (20051623)	391.24694 (21112321)
392.95865		(20081623)	670.15464 (21040201)	
3626549.0		278.06594 (21090703)	368.93492 (21090703)	422.09682 (21090703)
513.29236		(21090703)	681.26697 (22092802)	
3626353.1		272.19189 (22092203)	336.70721 (20061223)	370.35513 (20121705)
475.81782		(20011918)	693.68159 (20120120)	
3626157.2		308.43248 (21030901)	320.83999 (20011918)	352.80982 (20101401)
429.18014		(20081404)	519.04824 (21020303)	
3625961.4		277.18948 (20071603)	322.72518 (20051324)	337.00356 (20052324)
384.90508		(21040801)	402.87495 (20112021)	
3625765.5		226.37152 (20041701)	270.82080 (20052324)	306.18924 (21071905)
328.83352		(20112421)	337.08821 (20121620)	
3625569.7		277.60103 (20052324)	230.18919 (21071905)	254.92569 (20092303)
292.25441		(21040224)	289.60557 (20021621)	
3625373.8		256.83159 (22062801)	251.85519 (21040801)	259.89107 (20112421)
302.88118		(20112021)	270.89019 (20021220)	
3625177.9		250.84472 (22100802)	271.79923 (21031722)	240.03877 (21040224)
263.23984		(20121620)	238.37096 (20070424)	
3624982.1		244.01074 (20060802)	227.63258 (22081704)	208.91754 (22052202)
215.74659		(21020924)	251.27063 (20090401)	
3624786.2		239.85456 (22081602)	225.51537 (20021622)	231.90154 (20112021)

212.67232 (20021621) 223.71534 (20090401)
3624590.4 | 202.47476 (22081704) 209.76275 (20091424) 199.29679 (20070224)
212.94959 (20021220) 212.44667 (20101822)

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 *** ***
*** 06:13:04

PAGE 52

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD (METERS)			X-COORD (METERS)
	492820.18	493014.28	493208.38
493402.48		493596.58	

3628507.6 | 149.09289 (22050623) 144.72225 (20081922) 163.66901 (21100706)
145.08452 (22043024) 120.65531 (22050622)
3628311.7 | 160.99771 (22050623) 141.40369 (20081922) 171.22088 (20031321)
164.30237 (21081221) 163.37245 (22082322)
3628115.8 | 153.82615 (22050623) 181.32377 (20022901) 192.96603 (20022304)
185.36600 (21081221) 199.61341 (20101624)
3627920.0 | 168.73412 (22050623) 213.47623 (20022901) 203.96319 (22061421)
174.78824 (22082322) 160.52232 (21080821)
3627724.1 | 240.21207 (22090503) 280.03742 (20022901) 216.42885 (21081221)
246.44474 (20101624) 187.49346 (22081324)
3627528.3 | 237.27096 (22090503) 274.14057 (21100706) 225.85913 (21081221)
214.03346 (20100320) 221.48513 (21040924)
3627332.4 | 275.30839 (22090503) 307.53768 (20031321) 329.98746 (20101624)
293.68040 (22081324) 247.60441 (21052203)
3627136.5 | 274.62407 (22090503) 239.59576 (21081221) 215.31268 (22081324)
244.99741 (21052203) 255.87884 (22091021)
3626940.7 | 367.31684 (22103119) 375.11299 (20101624) 298.02597 (21052203)
265.90004 (20081923) 261.02519 (22051721)
3626744.8 | 768.96124 (22062723) 511.95665 (21052203) 374.49930 (22051721)
370.04981 (21072203) 189.89454 (21053101)
3626549.0 | 871.31910 (20121705) 600.15132 (20101806) 497.54839 (20090820)
365.14516 (20090820) 286.06179 (20090820)
3626353.1 | 857.71690 (21060405) 674.95035 (21071001) 519.13477 (21052723)

379.58175 (20092322)	322.15660 (21091323)		
3626157.2 598.29314 (20072601)	619.63386 (20082006)	443.69031 (20101720)	
365.23522 (22082502)	332.40359 (21052723)		
3625961.4 455.52314 (20072601)	473.25024 (21080102)	443.77263 (21082624)	
335.24673 (21071001)	300.64940 (22041522)		
3625765.5 383.01317 (20072601)	342.14636 (21091105)	383.80696 (21052323)	
333.11324 (22080903)	283.29948 (21071001)		
3625569.7 327.37015 (21101320)	298.43714 (22083004)	313.96165 (21082504)	
295.18221 (21071004)	234.13827 (20041520)		
3625373.8 306.37441 (22082605)	177.92058 (22083006)	230.38521 (20090822)	
254.42573 (21052323)	268.70508 (21082624)		
3625177.9 286.39620 (22082605)	228.56692 (20091122)	244.09167 (22071905)	
243.07152 (21103122)	261.31244 (21071004)		
3624982.1 265.51118 (22082605)	199.31856 (20082203)	196.36456 (22071905)	
198.65123 (20061224)	229.73208 (21052323)		
3624786.2 248.78467 (22082605)	186.53613 (20082203)	179.06358 (22121919)	
183.09936 (20090822)	171.29109 (20082006)		
3624590.4 231.73396 (22082605)	186.00108 (22081103)	165.31047 (21030703)	
164.79313 (21080102)	149.48368 (21103122)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 53

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,
 *** NETWORK ID: UCART1 ; NETWORK TYPE:
 GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD			X-COORD (METERS)
(METERS)			
	493790.68	493984.78	494178.88
494372.98	494567.08		

3628507.6 150.77438 (21072221)	135.97373 (20100320)	129.61899 (22081324)
83.40724 (21122302)	78.51290 (21070722)	
3628311.7 139.73359 (21080821)	129.86335 (22081324)	98.60381 (21040924)
77.84977 (21070722)	74.91868 (21052203)	
3628115.8 162.44951 (20100320)	165.52016 (22081324)	88.92749 (21070722)
80.32223 (21052203)	67.03738 (22061501)	
3627920.0 218.91597 (22081324)	118.54828 (22051722)	97.10721 (21052203)

76.99230 (22091021)	84.42035 (22091021)		
3627724.1 177.03560 (21122302)	164.50924 (21052203)	119.95118 (22091021)	
94.23509 (22082422)	131.21111 (20081923)		
3627528.3 210.57861 (21052203)	196.74325 (22091021)	126.22115 (20081923)	
142.64359 (20081923)	128.65220 (20071323)		
3627332.4 233.43221 (22091021)	204.06695 (20081923)	178.79326 (20071323)	
175.81438 (22051721)	135.37566 (21090103)		
3627136.5 219.00097 (20071323)	210.90656 (22051721)	166.77092 (22061422)	
209.09152 (20081602)	210.88132 (21072203)		
3626940.7 252.47125 (20081602)	259.93679 (21072203)	179.34195 (21091523)	
145.66284 (21012119)	171.71764 (21080324)		
3626744.8 224.16915 (22072121)	206.36754 (22072121)	167.36722 (21041922)	
171.71981 (21041922)	168.24648 (20062123)		
3626549.0 264.85229 (20090820)	237.24192 (21070923)	198.51194 (21070923)	
187.52212 (21070923)	178.60815 (21070923)		
3626353.1 284.66420 (20070924)	263.78598 (20070924)	203.35183 (22091223)	
204.19393 (22091223)	184.81550 (22091223)		
3626157.2 289.61903 (21072102)	249.34596 (21020719)	228.28465 (21091323)	
214.68589 (21091323)	195.82482 (21040722)		
3625961.4 284.77042 (22073105)	258.90141 (21052723)	227.37693 (21072222)	
229.34223 (20092322)	194.22372 (21020719)		
3625765.5 254.84391 (20071201)	247.20938 (22082502)	228.59078 (21063023)	
217.64583 (21052723)	194.49041 (20090703)		
3625569.7 245.98187 (21071001)	243.84141 (20071201)	237.90304 (22041522)	
217.52336 (22073105)	213.94552 (21063023)		
3625373.8 213.36750 (22062202)	219.48667 (21071001)	207.56371 (20042722)	
189.57338 (22041522)	187.93186 (21082924)		
3625177.9 230.01159 (22080903)	183.01489 (22092722)	198.19594 (22091302)	
181.79636 (20082121)	165.31643 (21071124)		
3624982.1 217.22215 (20090821)	170.56790 (22080903)	162.69475 (22092722)	
182.26323 (22091302)	152.13931 (20082121)		
3624786.2 203.30509 (21071002)	186.02701 (22080903)	146.55415 (20041520)	
147.04547 (22080901)	165.50758 (22091302)		
3624590.4 192.86044 (21052323)	178.78103 (20101621)	169.18211 (22080903)	
137.68792 (22081224)	133.12541 (22080901)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 54

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)

3628507.6	74.48462 (21052203)
3628311.7	69.23824 (22061501)
3628115.8	86.78178 (22091021)
3627920.0	74.85722 (20081923)
3627724.1	92.82909 (20071323)
3627528.3	113.93223 (22051721)
3627332.4	109.77440 (21110620)
3627136.5	138.81103 (21091523)
3626940.7	176.39160 (22072121)
3626744.8	148.16375 (20062123)
3626549.0	169.95609 (21070923)
3626353.1	167.74031 (21080724)
3626157.2	181.58479 (21040722)
3625961.4	176.41364 (20062523)
3625765.5	192.99227 (21072102)
3625569.7	188.43060 (21052723)
3625373.8	179.81394 (22073105)
3625177.9	176.47617 (22041522)
3624982.1	166.26528 (21071124)
3624786.2	143.30768 (20050501)
3624590.4	145.87029 (22091302)

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 ***
*** 06:13:04

PAGE 55

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

- - - - -	492883.25	3625830.80	406.39610	(22081103)	492919.80
3625834.65	373.46372	(21091302)			
	492955.07	3625845.55	376.74875	(22083006)	493069.86
3625832.73	402.37470	(20090822)			
	493094.87	3625832.73	379.46602	(21091104)	493110.90
3625837.21	387.66180	(21082504)			
	493151.95	3625834.01	380.91900	(22070522)	493166.70
3625837.86	397.39739	(20082006)			
	493187.86	3625836.57	417.82710	(21052323)	493201.33
3625836.57	408.44723	(22071603)			
	493240.44	3625836.57	407.51735	(21071004)	492881.32
3625908.40	428.43945	(22081103)			
	492906.98	3625898.14	409.74755	(21091302)	492901.84
3625911.60	417.21748	(21091302)			
	492928.14	3625914.81	411.04691	(20091122)	492933.91
3625898.14	398.17003	(20091122)			
	492951.87	3625908.40	406.02854	(22083004)	492973.67
3625907.11	400.73787	(22121919)			
	492993.55	3625914.17	417.56025	(22071905)	492996.11
3625897.50	406.51521	(22071905)			
	493015.99	3625896.85	429.91082	(22071905)	493023.05
3625912.24	445.45388	(21080102)			
	493044.21	3625907.11	439.09869	(20090822)	493066.66
3625907.76	412.60158	(22021319)			
	493085.25	3625912.24	422.43976	(21082504)	493087.18
3625895.57	411.47526	(21082504)			
	493108.98	3625911.60	426.88597	(21103122)	493112.19
3625897.50	423.44285	(21103122)			
	493133.99	3625901.98	425.49605	(20082006)	492874.27
3625788.48	385.11805	(22081103)			
	492894.15	3625789.12	388.20656	(22081103)	492910.18
3625790.40	364.94400	(21091302)			
	492930.70	3625786.55	354.72977	(20091122)	492947.38
3625791.04	356.90755	(20091122)			
	492963.41	3625787.84	354.44081	(22083006)	492982.65
3625787.84	361.40296	(22083004)			
	492999.96	3625787.84	351.64736	(22121919)	493021.12
3625791.04	362.26321	(22071905)			
	493036.52	3625789.12	380.71602	(22071905)	493055.75
3625789.76	390.01762	(21080102)			
	493076.28	3625787.84	389.63208	(20090822)	493094.87
3625787.84	366.73275	(20090822)			
	493112.83	3625788.48	365.05874	(21091104)	493129.50
3625787.19	369.99512	(21082504)			
	493148.74	3625787.19	380.97457	(21103122)	493164.77
3625790.40	369.75701	(22070522)			
	493184.65	3625789.12	376.60975	(20082006)	493201.97
3625791.04	397.95288	(21052323)			
	493221.21	3625790.40	394.94352	(21052323)	493238.52

3625791.04	385.46431	(22071603)		
492780.00	3626415.01	954.49049	(20112107)	492778.72
3626388.08	905.73466	(21040224)		
492747.94	3626386.16	883.55428	(21020303)	492742.16
3626418.22	933.22617	(22040504)		
492699.20	3626422.71	888.73920	(22120301)	492697.92
3626391.93	825.74395	(20081404)		
492678.68	3626411.81	826.91519	(22120301)	492626.09
3626426.56	693.34765	(20112420)		
492606.85	3626435.54	674.31876	(20102405)	492599.16
3626405.39	649.14222	(20112420)		
492491.20	3626644.88	566.98994	(21021501)	492517.36
3626636.70	589.76860	(21021501)		
492521.18	3626603.45	601.64063	(22011703)	492521.72
3626582.19	619.44338	(22062101)		
492512.46	3626553.84	619.36243	(22092802)	492513.55
3626533.13	607.93873	(20061101)		
492501.01	3626506.42	564.87370	(20010922)	492490.65
3626485.70	559.72958	(20050624)		
492479.21	3626464.45	542.36426	(22092203)	492466.12
3626447.00	527.56113	(21041723)		
492447.59	3626418.66	507.17471	(20121705)	492431.78
3626430.65	495.81839	(21041723)		
492481.93	3626620.35	554.86697	(20051623)	492482.48
3626594.18	582.03004	(22092202)		
492479.21	3626572.92	572.10511	(22040523)	492477.02
3626546.76	580.31630	(21090703)		
492467.76	3626523.32	568.13947	(20061101)	492463.94
3626507.51	538.46731	(20010922)		
492450.86	3626492.79	519.72900	(21112923)	492427.42
3626474.80	506.77063	(20050624)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 56

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³
 **

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

Y-COORD (M)	CONC	(YYMMDDHH)	
492402.89	3626460.63	485.22779	(22092203) 492823.25
3626567.17	937.43546	(22102522)	
492838.34	3626526.92	691.28217	(22012923) 493039.78
3625834.45	404.93255	(21080102)	
492743.19	3626628.92	1129.48209	(21081301) 492703.25
3626652.75	931.46024	(22032023)	
492723.78	3626582.16	1031.50416	(21011805) 492761.18
3626553.82	1130.39987	(22092802)	
493013.27	3625844.49	391.37553	(22071905) 492798.96
3626618.56	1311.70762	(22102522)	
492794.41	3626665.12	905.89616	(22062022)

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 57

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)
491461.48	490879.18	491073.28
	491655.58	491267.38

3628507.6	66.90792 (21052422)	76.59530 (22072901)	80.39053 (22062102)
92.71990 (20090706)	71.71806 (20122121)		
3628311.7	78.68910 (22090601)	76.22175 (22080803)	98.28531 (22072901)
90.27599 (22102622)	102.66074 (20050702)		
3628115.8	78.29932 (21092903)	96.13341 (22090601)	82.39374 (22080803)
109.85047 (22062102)	105.31989 (20090706)		
3627920.0	87.97643 (21011618)	89.53363 (21092903)	111.21111 (22090601)
93.45057 (22072901)	112.31635 (22062102)		
3627724.1	81.61046 (22051505)	100.49066 (21011618)	100.22385 (21092903)
120.02507 (22090601)	128.64269 (22072901)		
3627528.3	92.33916 (20101702)	94.23633 (22032023)	113.11721 (21011618)

110.98122 (21092903)	119.91568 (21052422)	
3627332.4 97.82607 (21052423)	108.35520 (22122902)	110.10362 (22032023)
125.40863 (21011618)	116.68072 (21092903)	
3627136.5 106.77087 (22042905)	109.00405 (22120522)	123.52937 (22122902)
119.40678 (22032023)	142.04705 (21040201)	
3626940.7 122.46634 (20081623)	126.50384 (22090223)	121.35794 (22092824)
136.04704 (21052423)	121.19434 (20101805)	
3626744.8 119.74187 (21021622)	131.75145 (20080201)	145.63885 (20081623)
144.55666 (21081604)	138.65378 (22120522)	
3626549.0 118.48136 (22011221)	135.52621 (21093023)	137.47307 (21012123)
160.92037 (20080201)	171.56133 (20081623)	
3626353.1 133.42504 (21022323)	155.04604 (22042401)	157.09212 (22101701)
163.10784 (21040202)	189.80939 (22090602)	
3626157.2 131.48006 (20080123)	145.43354 (20080123)	167.07953 (22111307)
186.13410 (20042623)	210.58134 (21022323)	
3625961.4 137.38186 (20101523)	148.11161 (20101523)	153.94101 (20101523)
181.69976 (22061923)	217.55206 (22061923)	
3625765.5 146.22031 (22081005)	168.27370 (22081005)	181.00284 (22081005)
193.63289 (20051622)	215.30710 (20051622)	
3625569.7 129.58465 (20121324)	151.30952 (20070603)	174.66250 (20052123)
193.37028 (22042923)	198.23591 (20103021)	
3625373.8 133.99191 (21050502)	145.28450 (20103020)	159.90038 (20021206)
193.06097 (20052024)	207.99473 (22092004)	
3625177.9 130.90907 (22110522)	155.77378 (22092004)	174.15116 (20041622)
177.83015 (22092801)	217.02612 (22050405)	
3624982.1 132.60117 (20021723)	150.97138 (22092801)	173.92268 (22050405)
184.17318 (20051323)	200.13851 (20041521)	
3624786.2 147.33701 (22050405)	148.63818 (20051323)	160.31311 (20122604)
188.39190 (21040222)	195.64646 (21031622)	
3624590.4 129.81839 (21030301)	148.78542 (20012122)	160.88992 (21110822)
165.64915 (21031622)	189.90328 (20050604)	

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 58

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD |

X-COORD (METERS)

(METERS)	491849.68	492043.78	492237.88
492431.98	492626.08		

3628507.6	113.37040 (22090703)	100.02872 (20111805)	81.76057 (21030323)
112.62120 (21081223)	104.82793 (21071322)		
3628311.7	106.85175 (22090703)	113.31212 (22122822)	117.85092 (20101705)
128.02146 (21081223)	117.55465 (21071322)		
3628115.8	88.46856 (20122121)	125.27390 (22090703)	139.09003 (20111805)
116.68884 (22080905)	120.53108 (21071322)		
3627920.0	124.85846 (20050702)	133.24420 (22090703)	126.03614 (20111805)
131.90970 (22080905)	110.27778 (22062022)		
3627724.1	118.39118 (22102622)	119.31571 (22102522)	146.22499 (22122822)
131.71965 (20101705)	126.17571 (22062022)		
3627528.3	143.28216 (22072901)	140.37110 (20090706)	160.72007 (22090703)
177.10101 (20111805)	182.14711 (21081223)		
3627332.4	123.64680 (22080803)	138.77074 (22062102)	161.59882 (22102522)
174.70076 (22122822)	186.56028 (22080905)		
3627136.5	128.33215 (22090601)	144.51202 (22072901)	157.67106 (20090706)
193.27595 (22090703)	171.23870 (22080905)		
3626940.7	164.77559 (21040201)	161.23293 (22090601)	187.98686 (22072901)
194.83970 (22102522)	218.26215 (20111805)		
3626744.8	160.37197 (22122902)	207.56637 (21040201)	217.80031 (22090601)
179.51991 (22062102)	248.67294 (22090703)		
3626549.0	175.69440 (21081604)	225.18176 (21052423)	255.20319 (21040201)
235.91513 (22090601)	257.47501 (22102522)		
3626353.1	175.30069 (20080201)	236.30447 (22090223)	236.15415 (22120522)
321.90538 (21040201)	355.85100 (22072901)		
3626157.2	225.76610 (22110520)	239.28696 (21040202)	279.11759 (21021622)
338.51023 (22090223)	396.37499 (22032023)		
3625961.4	237.77427 (22051301)	244.79818 (21010801)	275.05638 (20080123)
326.08544 (21092022)	473.14183 (21040202)		
3625765.5	234.97415 (20051622)	266.24676 (22090201)	288.43975 (22090201)
357.52144 (20070603)	453.39270 (20103021)		
3625569.7	219.46225 (20103020)	226.20578 (20021206)	261.21640 (22081101)
310.51047 (20011918)	388.10376 (20051324)		
3625373.8	232.75195 (20041622)	237.75336 (20011918)	248.38871 (20041521)
316.64108 (21031622)	347.17943 (21071905)		
3625177.9	221.66966 (22051302)	251.32443 (21040222)	225.96688 (22120502)
309.49382 (22062801)	332.30302 (21031722)		
3624982.1	229.84575 (21110822)	240.67063 (20050604)	242.64616 (21081303)
298.79655 (21040801)	344.08691 (20021622)		
3624786.2	219.86933 (20050604)	242.61767 (21081303)	230.19985 (22100802)
266.75780 (22081602)	266.72575 (20112021)		
3624590.4	217.34873 (21081303)	223.84234 (21071905)	249.61986 (20060802)
268.21734 (20021622)	267.94605 (22103002)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***

*** 06:13:04

PAGE 59

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
493402.48	492820.18	493596.58	493014.28	493208.38

3628507.6	114.34319 (22103119)	101.26114 (22050623)	106.74687 (20081922)	
102.01123 (20022901)	122.67233 (20031321)			
3628311.7	113.35002 (22103119)	111.32071 (22050623)	117.11664 (20081922)	
125.38188 (21100706)	127.73371 (20022304)			
3628115.8	116.80204 (22062723)	124.73047 (22050623)	152.44033 (20081922)	
162.72534 (21100706)	144.72663 (22061421)			
3627920.0	144.52506 (22062723)	134.77489 (22050623)	166.20734 (20081922)	
183.55620 (21100706)	164.48914 (22061421)			
3627724.1	198.60856 (22062723)	172.23814 (22050623)	169.01346 (20081922)	
160.28319 (20031321)	171.34543 (22043024)			
3627528.3	185.84182 (22062723)	179.11831 (22050623)	192.67960 (20022901)	
186.36863 (20031321)	188.97126 (21081221)			
3627332.4	186.49656 (22062723)	194.10874 (22050623)	225.56794 (20022901)	
210.22116 (22061421)	161.89893 (21081221)			
3627136.5	167.70290 (21071322)	188.79162 (22050623)	204.14413 (20022901)	
169.81763 (22043024)	239.10601 (20101624)			
3626940.7	194.29445 (22062022)	210.67275 (22050623)	219.21010 (21100706)	
207.48052 (21081221)	162.71417 (21080821)			
3626744.8	245.17817 (22062022)	247.33471 (22050623)	245.90589 (20031321)	
251.78988 (20101624)	183.39224 (22081324)			
3626549.0	326.81322 (22080905)	297.86217 (22090503)	290.49308 (22061421)	
230.22019 (20100320)	234.10643 (21122302)			
3626353.1	420.90369 (20111805)	376.57498 (22090503)	371.57891 (21081221)	
346.80221 (22081324)	338.00402 (22091021)			
3626157.2	512.16625 (22102522)	601.89866 (22090503)	486.63279 (22081324)	
447.10688 (22091021)	321.00310 (22051721)			
3625961.4	675.26301 (21052423)	1033.17368 (20022901)	761.99634 (20081923)	
589.90455 (21072203)	399.20460 (21110518)			
3625765.5	785.99574 (22092801)	1127.28280 (22092602)	911.30131 (21020719)	

649.64150	(21083001)	507.99963	(22091223)	
3625569.7		539.86114	(21040801)	797.75885 (22081103) 572.87576 (22100904)
490.70227	(22082502)	481.18539	(21070803)	
3625373.8		481.71482	(21040224)	452.23647 (21101320) 448.01163 (22070601)
399.95994	(22080701)	360.91586	(20071003)	
3625177.9		379.34351	(20121620)	440.74659 (21101320) 405.28522 (21061223)
406.56833	(22072201)	379.77281	(20051621)	
3624982.1		365.48180	(20021621)	406.10578 (22082605) 386.98895 (20031421)
349.82154	(21080802)	334.28974	(21092804)	
3624786.2		321.67435	(20021220)	372.67483 (22082605) 361.06492 (21030703)
329.81186	(21013120)	330.66681	(22080705)	
3624590.4		269.80422	(20070424)	344.15518 (22082605) 345.66698 (22090723)
314.54604	(21061223)	295.11890	(22081002)	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 *** ***
*** 06:13:04

PAGE 60

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***
INCLUDING SOURCE(S): STCK2 ,

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

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

**

Y-COORD			X-COORD (METERS)
(METERS)	493790.68	493984.78	494178.88
494372.98	494567.08		

3628507.6		112.20434 (22043024)	117.90569 (21081221)	92.24059 (22082322)
42.16724	(22091722)	60.51297 (20100320)		
3628311.7		132.23565 (22043024)	97.96706 (22050622)	95.33011 (21072221)
71.00841	(21080821)	60.96345 (20100320)		
3628115.8		156.37387 (21081221)	131.05950 (22082322)	57.68485 (22091722)
72.24491	(20100320)	84.53378 (22081324)		
3627920.0		147.92550 (21081221)	161.91790 (20101624)	92.90325 (21080821)
70.89413	(21081621)	88.68219 (21040924)		
3627724.1		144.24099 (22082322)	115.40099 (21072221)	116.31844 (20100320)
124.49028	(22081324)	112.21874 (22051722)		
3627528.3		197.18922 (20101624)	149.28954 (20100320)	190.15256 (22081324)
162.58826	(21122302)	164.28398 (21052203)		
3627332.4		144.90950 (21080821)	163.63386 (22081324)	197.81930 (21122302)

181.21145 (21052203)	157.38612 (22061501)	
3627136.5 195.06883 (20100320)	201.89083 (21040924)	185.77412 (21052203)
182.88071 (22061501)	227.78161 (22091021)	
3626940.7 250.74652 (22081324)	177.45632 (21070722)	200.72176 (22061501)
223.10802 (22091021)	167.10432 (20081923)	
3626744.8 174.14419 (21070722)	193.86745 (22061501)	162.25514 (22091021)
194.22297 (20081923)	180.04674 (20071323)	
3626549.0 253.10692 (22061501)	198.17922 (22121802)	192.88260 (20071323)
181.55150 (22051721)	162.06621 (21090103)	
3626353.1 308.84775 (20081923)	254.97126 (22051721)	188.83915 (21090103)
264.59196 (20081602)	256.87579 (21072203)	
3626157.2 334.15102 (20081602)	355.02755 (21072203)	229.22497 (22102102)
221.56300 (21012119)	246.37366 (21080324)	
3625961.4 307.41585 (20062123)	346.10435 (20062123)	306.56561 (20062123)
260.15646 (20031703)	279.86819 (20031703)	
3625765.5 440.21176 (21020619)	406.51706 (21020619)	350.96543 (21020619)
319.10678 (22091222)	289.08168 (22091222)	
3625569.7 429.46386 (21020719)	405.66196 (21091323)	356.23653 (21040722)
312.86029 (21040722)	314.66447 (20070924)	
3625373.8 370.90731 (20110219)	361.84042 (21052723)	347.77963 (21072102)
318.73805 (21020719)	280.79754 (20041206)	
3625177.9 332.62352 (20042722)	347.51245 (22082502)	322.44517 (21063023)
309.09947 (21052723)	284.04066 (21072222)	
3624982.1 341.07234 (20051621)	302.49913 (22040123)	298.40160 (22082523)
294.62226 (22073105)	282.91843 (21063023)	
3624786.2 292.79776 (20041404)	301.77334 (20110221)	252.39430 (22040123)
219.63858 (20071003)	251.90973 (22082502)	
3624590.4 281.92112 (22072201)	234.31991 (21111920)	272.56727 (20110221)
224.72142 (20050501)	224.49973 (20071003)	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 61

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD		X-COORD (METERS)
(METERS)	494761.18	

```

- - - - -
3628507.6 |      54.48585 (21081621)
3628311.7 |      94.24744 (22081324)
3628115.8 |      83.06121 (21122302)
3627920.0 |      69.23383 (22051722)
3627724.1 |     104.51280 (21052203)
3627528.3 |     104.18927 (22061501)
3627332.4 |     169.54165 (22091021)
3627136.5 |     129.85961 (22121802)
3626940.7 |     152.65218 (20071323)
3626744.8 |     178.02467 (22051721)
3626549.0 |     164.78398 (21110620)
3626353.1 |     187.48713 (22102102)
3626157.2 |     210.26279 (22072121)
3625961.4 |     240.34111 (20031703)
3625765.5 |     248.17617 (22091222)
3625569.7 |     231.62228 (22091124)
3625373.8 |     291.89851 (21091323)
3625177.9 |     272.19812 (20092322)
3624982.1 |     264.17214 (21052723)
3624786.2 |     220.17046 (20092021)
3624590.4 |     233.23112 (22041522)

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 *** ***
*** 06:13:04

```

PAGE 62

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***
INCLUDING SOURCE(S): STCK2 ,

```

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	983.49207	(22081005)	492919.80
3625834.65	909.70878	(21061601)		
492955.07	3625845.55	655.95337	(22092802)	493069.86
3625832.73	1714.13040	(22011423)		
493094.87	3625832.73	1540.70684	(21092324)	493110.90

3625837.21	1486.73131	(20101806)		
493151.95	3625834.01	1287.50854	(21092324)	493166.70
3625837.86	1226.39395	(20101806)		
493187.86	3625836.57	1141.24524	(20101806)	493201.33
3625836.57	1092.11496	(20101806)		
493240.44	3625836.57	977.09868	(20090820)	492881.32
3625908.40	812.43261	(21081604)		
492906.98	3625898.14	800.46915	(21081604)	492901.84
3625911.60	841.35904	(22032023)		
492928.14	3625914.81	823.02152	(21040201)	492933.91
3625898.14	856.76730	(21040201)		
492951.87	3625908.40	917.42059	(22102522)	492973.67
3625907.11	933.12857	(20111805)		
492993.55	3625914.17	1002.10337	(22090503)	492996.11
3625897.50	773.43375	(20011819)		
493015.99	3625896.85	820.65320	(22010702)	493023.05
3625912.24	1129.22407	(21081221)		
493044.21	3625907.11	1391.35349	(22010702)	493066.66
3625907.76	1242.31372	(22010702)		
493085.25	3625912.24	934.19048	(21052203)	493087.18
3625895.57	1128.14501	(20081923)		
493108.98	3625911.60	1009.23776	(20081923)	493112.19
3625897.50	1035.05140	(20071323)		
493133.99	3625901.98	954.08958	(20071323)	492874.27
3625788.48	893.28753	(20011918)		
492894.15	3625789.12	946.21878	(20011918)	492910.18
3625790.40	915.21201	(20011918)		
492930.70	3625786.55	978.79109	(22120301)	492947.38
3625791.04	1098.27876	(22120301)		
492963.41	3625787.84	934.07074	(20021622)	492982.65
3625787.84	925.72537	(22012923)		
492999.96	3625787.84	932.59716	(22012923)	493021.12
3625791.04	1128.50582	(22092602)		
493036.52	3625789.12	1167.91826	(21081022)	493055.75
3625789.76	1209.69491	(22051422)		
493076.28	3625787.84	1293.32340	(21072003)	493094.87
3625787.84	1442.81746	(22082504)		
493112.83	3625788.48	1234.76646	(20082306)	493129.50
3625787.19	1145.40962	(22092902)		
493148.74	3625787.19	1075.30479	(22092902)	493164.77
3625790.40	1072.80501	(20082305)		
493184.65	3625789.12	1014.88709	(20082305)	493201.97
3625791.04	1001.54677	(21040722)		
493221.21	3625790.40	964.75544	(21040722)	493238.52
3625791.04	920.52934	(21083001)		
492780.00	3626415.01	341.54217	(20111805)	492778.72
3626388.08	360.79881	(22090703)		
492747.94	3626386.16	376.97944	(22090703)	492742.16
3626418.22	370.54090	(22090703)		
492699.20	3626422.71	352.60494	(22102522)	492697.92

3626391.93	335.78407	(22102522)		
492678.68	3626411.81	321.83932	(20050702)	492626.09
3626426.56	302.33161	(22062102)		
492606.85	3626435.54	315.78330	(22072901)	492599.16
3626405.39	344.03950	(22072901)		
492491.20	3626644.88	221.71507	(22062102)	492517.36
3626636.70	216.71334	(20090706)		
492521.18	3626603.45	226.68829	(22062102)	492521.72
3626582.19	247.61868	(22062102)		
492512.46	3626553.84	275.87525	(22072901)	492513.55
3626533.13	278.92031	(22072901)		
492501.01	3626506.42	251.65507	(22072901)	492490.65
3626485.70	258.27195	(22090601)		
492479.21	3626464.45	284.81019	(22090601)	492466.12
3626447.00	276.00685	(22090601)		
492447.59	3626418.66	273.65090	(22092901)	492431.78
3626430.65	271.02464	(22092901)		
492481.93	3626620.35	248.39884	(22072901)	492482.48
3626594.18	266.63732	(22072901)		
492479.21	3626572.92	267.98009	(22072901)	492477.02
3626546.76	251.82746	(22072901)		
492467.76	3626523.32	237.18563	(22090601)	492463.94
3626507.51	261.21807	(22090601)		
492450.86	3626492.79	274.91848	(22090601)	492427.42
3626474.80	246.43029	(22090601)		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 *** ***
 *** 06:13:04

PAGE 63

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	264.84613	(22092901)	492823.25
3626567.17	316.05286	(22080905)		
492838.34	3626526.92	319.65092	(22080905)	493039.78

3625834.45	1506.87379	(22011423)		
492743.19	3626628.92	313.68403	(20111805)	492703.25
3626652.75	286.58666	(20111805)		
492723.78	3626582.16	295.29151	(20111805)	492761.18
3626553.82	335.58573	(20111805)		
493013.27	3625844.49	646.68587	(22090503)	492798.96
3626618.56	309.01860	(22080905)		
492794.41	3626665.12	295.23444	(22080905)	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 *** ***
 *** 06:13:04

PAGE 64

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	490879.18	491073.28	491267.38
491461.48	491655.58		

3628507.6	116.49099 (21011618)	136.57430 (21031402)	139.87882 (22090601)
150.85172 (22072901)	133.15968 (22102622)		
3628311.7	127.21427 (22032023)	126.07107 (21011618)	144.84119 (21031402)
127.82416 (22090601)	176.97025 (22072901)		
3628115.8	131.10954 (22122902)	138.14420 (22032023)	147.52325 (21040201)
151.05866 (21031402)	137.27996 (22060102)		
3627920.0	118.75684 (20101707)	146.81749 (21052423)	143.36586 (20101805)
172.23275 (21040201)	176.07695 (22011702)		
3627724.1	150.66344 (22090223)	141.79117 (22120202)	157.16036 (21052423)
150.21826 (20101805)	212.78719 (21040201)		
3627528.3	131.12441 (22053003)	168.17369 (20081623)	163.43655 (21081604)
155.77086 (20031323)	189.10508 (22122902)		
3627332.4	152.86580 (21093023)	147.68036 (21020722)	161.79397 (20061501)
198.88622 (20081623)	211.28490 (21081604)		
3627136.5	156.94639 (22110520)	160.10213 (20101220)	178.65462 (21040202)
180.25683 (22042601)	185.39162 (21021623)		
3626940.7	146.40151 (22092202)	165.03071 (22011703)	168.77752 (21010724)

170.99079	(21092022)	201.84436	(22110520)	
3626744.8		168.83510	(21052505)	184.35244 (21052505) 184.90240 (21101723)
193.92850	(22040523)	213.25059	(22040523)	
3626549.0		172.76765	(20061101)	181.49723 (20061101) 171.67077 (20051622)
207.50250	(20010922)	227.74971	(20010922)	
3626353.1		163.73030	(20070603)	202.47980 (20052123) 209.82719 (20103021)
218.76612	(21050502)	249.22631	(20061223)	
3626157.2		155.14908	(20061223)	165.34379 (22040823) 204.59322 (22110522)
232.82789	(22081101)	233.06103	(20102405)	
3625961.4		152.32187	(22081101)	159.58250 (22012620) 171.47882 (22040423)
184.44755	(22050405)	224.22098	(20071603)	
3625765.5		147.65056	(22040423)	173.07760 (20101105) 175.65432 (22051302)
174.98904	(20101401)	182.12767	(21071703)	
3625569.7		158.31383	(22051302)	163.91918 (20022424) 208.51927 (22042324)
206.48602	(21031622)	208.49370	(20052324)	
3625373.8		152.73276	(20101401)	180.08844 (20051324) 161.34306 (20061423)
210.33496	(20052324)	215.48533	(21081303)	
3625177.9		140.46022	(21071703)	176.43223 (20011322) 199.17482 (20052324)
192.79818	(21081303)	218.34277	(21071905)	
3624982.1		142.56318	(22120502)	190.23035 (20052324) 192.26295 (21081303)
178.64881	(21071905)	198.16307	(21040801)	
3624786.2		177.36112	(20052324)	170.90375 (21081303) 169.03727 (22111601)
189.17847	(22100802)	199.38891	(20060802)	
3624590.4		166.38593	(21081303)	158.81866 (22040601) 153.72997 (22100802)
180.26653	(20050524)	190.15245	(22081602)	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 *** ***
*** 06:13:04

PAGE 65

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)
491849.68		492043.78
492431.98		492237.88
492626.08		

- - - - -
- - - - -

3628507.6		135.67894	(22102522)	161.65879	(22122822)	135.29315	(20101705)

133.59461 (22062022)	179.99198 (22062723)	
3628311.7 172.93009 (20090706)	194.59272 (22090703)	199.96421 (20111805)
179.34339 (21081223)	208.69341 (22062723)	
3628115.8 162.17250 (22062102)	196.73107 (22102522)	179.75249 (22102624)
192.38493 (22080905)	213.78649 (22062723)	
3627920.0 174.65413 (22060102)	184.39488 (20090706)	240.94058 (22090703)
206.84256 (22080905)	168.27243 (22062723)	
3627724.1 193.94836 (22011702)	228.56663 (22072901)	261.38356 (22102522)
246.96835 (20111805)	195.46138 (21071322)	
3627528.3 236.30868 (21040201)	219.68473 (22090601)	195.76645 (21050323)
258.24341 (22122822)	297.22658 (22062022)	
3627332.4 209.35911 (21052423)	232.26340 (21040201)	263.62528 (22090601)
349.97865 (22102522)	355.12423 (22080905)	
3627136.5 213.38320 (20081623)	198.14569 (20031323)	259.36528 (22032023)
284.28595 (20070601)	378.86363 (20111805)	
3626940.7 220.83633 (21040202)	222.28485 (21020722)	261.75049 (20081623)
322.63967 (22032023)	424.09063 (22101422)	
3626744.8 274.01767 (22040523)	302.62168 (22062101)	357.32511 (22011703)
380.97327 (21021501)	620.14627 (21081604)	
3626549.0 235.38215 (20010922)	287.79924 (20081402)	352.70755 (21112923)
427.14769 (22010622)	554.40579 (21100302)	
3626353.1 227.65078 (22040823)	294.26877 (22081101)	320.12465 (20011918)
438.38782 (20051324)	540.55854 (20011823)	
3626157.2 242.14559 (22050405)	265.07150 (20101401)	317.26010 (20061423)
376.40967 (21071905)	407.12865 (21101920)	
3625961.4 265.66787 (22042324)	257.40518 (20120120)	270.50686 (22062801)
316.18921 (22081602)	317.59750 (20021621)	
3625765.5 207.59976 (20050604)	229.14384 (22062801)	252.78397 (22050923)
298.66321 (21040224)	294.11787 (20021220)	
3625569.7 224.45197 (21071602)	209.76393 (21040801)	215.50062 (21032821)
256.52521 (20112021)	247.52377 (20070424)	
3625373.8 218.57676 (21071905)	234.08464 (20092303)	233.82640 (20021622)
242.48136 (20121620)	240.27094 (20090401)	
3625177.9 218.88338 (20050524)	209.02407 (21092101)	189.53663 (20091424)
206.19332 (21020924)	234.82739 (20090401)	
3624982.1 215.18508 (21031722)	220.05418 (20021622)	212.86567 (20112021)
213.31450 (20021621)	216.99542 (20101822)	
3624786.2 179.13736 (21092101)	193.69132 (20091424)	175.39237 (20070224)
203.73295 (20021220)	220.65379 (20101822)	
3624590.4 193.53031 (20021622)	178.67265 (21102022)	175.16732 (20121620)
185.76245 (20021220)	221.77994 (20101822)	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 66

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	492820.18	493014.28	493208.38
493402.48		493596.58	

3628507.6	180.44566 (22050623)	140.77811 (20022901)	174.81543 (20031321)
138.87584 (22043024)	137.49233 (22082322)		
3628311.7	193.09803 (22050623)	173.95522 (20022901)	150.70728 (20022304)
157.25049 (21081221)	194.35620 (20101624)		
3628115.8	186.90619 (22050623)	209.93244 (20022901)	177.80414 (22061421)
139.50514 (22082322)	125.43882 (21080821)		
3627920.0	204.93154 (22050623)	187.39800 (21100706)	184.46206 (22043024)
238.09255 (20101624)	167.34836 (20100320)		
3627724.1	272.63917 (22090503)	239.40576 (20031321)	193.75723 (21081221)
153.86383 (20100320)	208.43501 (22081324)		
3627528.3	269.89657 (22090503)	257.48405 (20031321)	284.34837 (20101624)
243.31329 (22081324)	213.52838 (21052203)		
3627332.4	313.26132 (22090503)	257.89817 (22043024)	242.90147 (20100320)
234.42642 (21070722)	235.74955 (22091021)		
3627136.5	324.73930 (22090503)	273.85269 (20101624)	218.89990 (21122302)
246.34911 (22091021)	221.67644 (20071323)		
3626940.7	448.79473 (22090503)	377.36183 (22010702)	286.06449 (22091021)
251.69126 (22051721)	262.21751 (20081602)		
3626744.8	756.39269 (20022901)	464.72368 (22051721)	335.40089 (21072203)
266.47652 (22072121)	208.10424 (20062123)		
3626549.0	1125.72505 (20110320)	567.55244 (21072102)	448.64694 (21040722)
325.13835 (20070924)	257.11882 (22091223)		
3626353.1	669.06609 (21103123)	512.48967 (20092722)	412.47608 (22082523)
329.90854 (21052723)	291.10309 (20092322)		
3626157.2	451.49638 (22080704)	464.46943 (22121819)	381.33391 (22080701)
292.58773 (20071201)	284.84411 (22073105)		
3625961.4	358.86209 (22082605)	390.19523 (21061223)	392.46740 (22072201)
322.14830 (20051621)	265.68414 (20071201)		
3625765.5	320.16010 (22082605)	354.88080 (20052502)	309.18674 (22081002)
298.56488 (20080301)	280.20014 (20051621)		
3625569.7	286.84151 (22082605)	331.98737 (21030703)	281.34786 (22071602)
299.02461 (21071002)	210.08148 (20041404)		
3625373.8	271.59464 (22082605)	268.07046 (20042523)	251.25376 (20121619)
255.79323 (22081002)	266.70957 (22050521)		
3625177.9	254.96645 (22082605)	254.82273 (20042523)	261.56487 (21080902)

239.65022 (22071602)	246.77208 (21071002)		
3624982.1 237.94603 (22082605)	239.45403 (22052124)	233.37284 (20052502)	
199.14912 (20061224)	220.32386 (21041722)		
3624786.2 224.56358 (22082605)	212.08411 (22052124)	212.19122 (20052502)	
185.80632 (20121619)	169.94001 (22070601)		
3624590.4 212.21952 (22082605)	188.95153 (21103123)	203.93669 (21030703)	
159.07302 (21061223)	156.40682 (22071602)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 ***
*** 06:13:04

PAGE 67

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	493790.68	493984.78	494178.88
494372.98	494567.08		

3628507.6	105.34727 (21080821)	115.46384 (20100320)	111.49076 (21040924)
70.06941 (22051722)	93.17188 (21052203)		
3628311.7	147.21643 (20100320)	169.19730 (22081324)	86.60175 (22051722)
95.03564 (21052203)	75.87674 (22061501)		
3628115.8	171.11473 (22081324)	149.54323 (21122302)	117.45956 (21052203)
79.52501 (22061501)	99.01648 (22091021)		
3627920.0	174.90351 (21122302)	163.83528 (21052203)	95.54715 (22061501)
106.02153 (22091021)	76.15811 (21052202)		
3627724.1	194.98727 (21052203)	149.21326 (22061501)	123.00829 (22091021)
113.69040 (20081923)	120.12564 (20071323)		
3627528.3	178.11306 (22091021)	152.35039 (22121802)	149.53103 (20081923)
126.64566 (20071323)	144.16364 (22051721)		
3627332.4	195.68802 (20081923)	178.96456 (20071323)	175.12362 (22051721)
135.11734 (21090103)	165.17242 (20081602)		
3627136.5	212.61262 (22051721)	174.98014 (20081602)	197.86534 (21072203)
170.32928 (21072203)	128.64574 (21053101)		
3626940.7	216.65271 (21072203)	146.67108 (21020803)	172.33092 (21110518)
173.10188 (22072121)	145.35269 (22072121)		
3626744.8	192.39360 (20062123)	170.81482 (20031703)	171.21998 (20031703)

165.73145 (20031703)	157.78993 (20031703)	
3626549.0 228.78249 (21020619)	217.48823 (21020619)	191.59344 (21020619)
175.62431 (21020619)	163.74397 (22091222)	
3626353.1 255.39322 (21091323)	228.55005 (22070202)	208.11952 (21040722)
211.16518 (20070924)	189.57239 (20070924)	
3626157.2 261.45126 (21052723)	230.50795 (21072102)	214.10158 (20092322)
172.48015 (20062523)	194.92324 (21091323)	
3625961.4 240.31008 (22082502)	224.29738 (21063023)	216.22349 (21052723)
199.74435 (21072222)	179.38211 (20092322)	
3625765.5 221.40633 (20042722)	230.08048 (22041522)	213.63764 (22073105)
202.08663 (21063023)	187.52143 (21052723)	
3625569.7 240.97976 (20110221)	191.73705 (20050501)	165.43695 (21071124)
184.30955 (22082502)	179.58070 (22073105)	
3625373.8 205.86521 (21111920)	216.58027 (20110221)	183.29572 (20050501)
175.37820 (21071124)	186.19583 (22041522)	
3625177.9 228.03091 (20080301)	198.97170 (22081224)	189.23838 (20101720)
171.75052 (20050501)	175.15694 (20071201)	
3624982.1 230.03326 (22072201)	159.53411 (20041404)	173.80667 (22080701)
173.34491 (20101720)	158.39707 (20050501)	
3624786.2 187.76557 (21080103)	190.77421 (22050521)	145.83447 (20041404)
150.08605 (22080701)	160.88449 (22070621)	
3624590.4 189.29142 (21041722)	193.20595 (20101621)	174.70111 (20080301)
145.83286 (21111920)	147.89643 (21030821)	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 68

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD	X-COORD (METERS)
(METERS)	
494761.18	

3628507.6	76.59571 (22061501)
3628311.7	102.16190 (22091021)
3628115.8	71.17828 (22082422)
3627920.0	89.92700 (20081923)

3627724.1	77.82966 (22080822)
3627528.3	101.53518 (21090103)
3627332.4	141.45229 (21072203)
3627136.5	104.14536 (21012119)
3626940.7	121.79922 (20082204)
3626744.8	143.26254 (20031703)
3626549.0	154.76918 (22091222)
3626353.1	150.08968 (21083001)
3626157.2	175.17694 (22070202)
3625961.4	172.24795 (20092322)
3625765.5	170.70088 (20090703)
3625569.7	177.84671 (21063023)
3625373.8	161.71323 (22073105)
3625177.9	165.43834 (22041522)
3624982.1	166.23700 (20071201)
3624786.2	148.39643 (21050422)
3624590.4	145.40248 (22070621)

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 *** ***
 *** 06:13:04

PAGE 69

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	381.24690	(21103123)	492919.80
3625834.65	364.94239	(20042523)		
492955.07	3625845.55	390.96494	(21030703)	493069.86
3625832.73	354.39008	(20061224)		
493094.87	3625832.73	335.90685	(20061224)	493110.90
3625837.21	346.03168	(22071602)		
493151.95	3625834.01	329.77819	(22121819)	493166.70
3625837.86	322.95237	(22121819)		
493187.86	3625836.57	350.26014	(22081002)	493201.33
3625836.57	351.53041	(22081002)		
493240.44	3625836.57	342.70345	(21071002)	492881.32

3625908.40	389.10628	(21103123)		
492906.98	3625898.14	379.35785	(22052124)	492901.84
3625911.60	393.18638	(22052124)		
492928.14	3625914.81	387.57127	(20042523)	492933.91
3625898.14	385.87365	(21030703)		
492951.87	3625908.40	402.91700	(21030703)	492973.67
3625907.11	401.71560	(20052502)		
492993.55	3625914.17	405.93404	(21080902)	492996.11
3625897.50	399.29747	(21080902)		
493015.99	3625896.85	372.86748	(21080902)	493023.05
3625912.24	377.93797	(21061223)		
493044.21	3625907.11	374.98157	(20061224)	493066.66
3625907.76	362.00523	(20061224)		
493085.25	3625912.24	375.75905	(22071602)	493087.18
3625895.57	361.70453	(22071602)		
493108.98	3625911.60	357.37566	(22071602)	493112.19
3625897.50	360.14076	(22071602)		
493133.99	3625901.98	347.01484	(22121819)	492874.27
3625788.48	377.79704	(21103123)		
492894.15	3625789.12	353.99697	(21103123)	492910.18
3625790.40	369.05024	(22052124)		
492930.70	3625786.55	360.64451	(20042523)	492947.38
3625791.04	357.49827	(20042523)		
492963.41	3625787.84	374.93530	(21030703)	492982.65
3625787.84	355.75904	(21030703)		
492999.96	3625787.84	370.19970	(20052502)	493021.12
3625791.04	364.67450	(21080902)		
493036.52	3625789.12	364.36270	(21080902)	493055.75
3625789.76	340.84392	(21061223)		
493076.28	3625787.84	325.46923	(20061224)	493094.87
3625787.84	348.97537	(20061224)		
493112.83	3625788.48	319.53900	(20061224)	493129.50
3625787.19	331.49258	(22071602)		
493148.74	3625787.19	343.90122	(22071602)	493164.77
3625790.40	313.39740	(22070601)		
493184.65	3625789.12	316.56669	(22121819)	493201.97
3625791.04	327.60951	(22081002)		
493221.21	3625790.40	342.92750	(22081002)	493238.52
3625791.04	343.74995	(22010819)		
492780.00	3626415.01	751.49580	(21060405)	492778.72
3626388.08	711.44612	(21060405)		
492747.94	3626386.16	675.90983	(20021621)	492742.16
3626418.22	688.43848	(20121620)		
492699.20	3626422.71	653.69521	(20060722)	492697.92
3626391.93	631.26586	(20021622)		
492678.68	3626411.81	644.81354	(21020303)	492626.09
3626426.56	600.13943	(22062801)		
492606.85	3626435.54	586.72281	(20081404)	492599.16
3626405.39	562.39547	(22030622)		
492491.20	3626644.88	486.89398	(22092802)	492517.36

3626636.70	495.15916	(21090703)		
	492521.18	3626603.45	526.08795	(20010922) 492521.72
3626582.19	529.22524	(20051601)		
	492512.46	3626553.84	508.80485	(21041723) 492513.55
3626533.13	514.12947	(20121705)		
	492501.01	3626506.42	483.22356	(20022504) 492490.65
3626485.70	485.13085	(20011918)		
	492479.21	3626464.45	456.58381	(20112420) 492466.12
3626447.00	452.17603	(20112420)		
	492447.59	3626418.66	414.40360	(20071603) 492431.78
3626430.65	424.19436	(20112420)		
	492481.93	3626620.35	472.48133	(20061101) 492482.48
3626594.18	488.07325	(22111006)		
	492479.21	3626572.92	491.91221	(20051601) 492477.02
3626546.76	479.22595	(21041723)		
	492467.76	3626523.32	478.64271	(20121705) 492463.94
3626507.51	461.32311	(20082202)		
	492450.86	3626492.79	450.88341	(21030901) 492427.42
3626474.80	434.37667	(20102405)		
▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24 *** AERMET - VERSION 23132 *** *** 06:13:04				

PAGE 70

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

*** CONC OF PM₁₀ IN MICROGRAMS/M³
 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	415.03404	(20102405)	492823.25
3626567.17	1330.87906	(22102720)		
492838.34	3626526.92	1076.58317	(21061223)	493039.78
3625834.45	350.20718	(21061223)		
492743.19	3626628.92	846.67372	(20122123)	492703.25
3626652.75	920.71520	(21072304)		
492723.78	3626582.16	982.07681	(20011520)	492761.18
3626553.82	964.33079	(22012923)		
493013.27	3625844.49	384.51094	(21080902)	492798.96

3626618.56 786.83887 (20052624)
492794.41 3626665.12 969.65568 (22102522)

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 *** ***
 *** 06:13:04

PAGE 71
*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

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

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

Y-COORD (METERS)			X-COORD (METERS)
491461.48	490879.18	491073.28	491267.38

3628507.6	263.74828 (21011618)	267.45708 (21031402)	283.85996 (22090601)
291.65058 (22072901)	314.26624 (20090706)		
3628311.7	249.75106 (20040105)	296.94886 (21011618)	286.92026 (21031402)
295.19784 (21052422)	382.89167 (22062102)		
3628115.8	265.42117 (20101702)	275.45371 (22032023)	331.89326 (21011618)
313.97943 (21040602)	323.98908 (22080803)		
3627920.0	284.57183 (21021624)	300.96164 (22122902)	308.60030 (22032023)
371.96318 (21011618)	363.34118 (21040602)		
3627724.1	293.62162 (21031502)	303.23071 (22120202)	363.94071 (21122104)
326.13897 (22032023)	439.31284 (21011618)		
3627528.3	316.12058 (20050803)	328.58267 (22090223)	353.16576 (21031502)
378.65895 (21021624)	387.49659 (20101702)		
3627332.4	316.02460 (21020722)	323.82666 (21021622)	359.91999 (20050803)
398.29140 (22090223)	427.04481 (22120202)		
3627136.5	304.07211 (22042401)	326.38339 (22010806)	330.94582 (21031324)
363.15235 (21020722)	395.24884 (20050803)		

3626940.7	298.00464 (22091605)	308.01407 (22111307)	319.99945 (21022323)
367.12848 (22110520)	392.78501 (22010806)		
3626744.8	308.81300 (21031423)	362.44660 (22040523)	359.89623 (22040523)
388.66820 (21010801)	384.29895 (21040603)		
3626549.0	323.22636 (22081005)	354.62416 (22081005)	344.89186 (22081005)
445.29871 (20122123)	600.86180 (20122123)		
3626353.1	373.29558 (20122123)	410.04295 (20122123)	415.71164 (20122123)
386.23312 (20052123)	448.79826 (20103021)		
3626157.2	287.88947 (21050502)	317.42054 (20061223)	394.77818 (20040305)
414.96713 (22123102)	440.93626 (22012620)		
3625961.4	287.60989 (22123102)	299.70201 (22081101)	323.94012 (20021723)
367.15949 (21030222)	611.08592 (22010619)		
3625765.5	283.39381 (22092801)	348.76855 (20011918)	361.51327 (21030222)
364.93370 (22010619)	449.23073 (20011520)		
3625569.7	295.32529 (20051323)	338.07422 (21030222)	393.22511 (20011520)
487.97893 (21110104)	410.75425 (22120502)		
3625373.8	291.87689 (20022424)	318.55821 (20032902)	334.58026 (21031622)
425.51693 (20050604)	518.13746 (20100406)		
3625177.9	299.27267 (21110822)	357.91140 (21031622)	396.25927 (20050604)
360.88710 (21081303)	470.01059 (20111623)		
3624982.1	290.50895 (20011322)	369.74806 (20050604)	353.53119 (21081303)
392.53884 (20111623)	425.93384 (22100802)		
3624786.2	329.79581 (20050604)	309.36721 (22042922)	355.16769 (22040601)
371.66127 (22100802)	412.37109 (20050524)		
3624590.4	308.14255 (21100901)	328.99366 (22052503)	350.86686 (20080624)
337.10842 (20050524)	402.55115 (21101921)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 72

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD				X-COORD (METERS)
(METERS)		491849.68	492043.78	492237.88
	492431.98		492626.08	

3628507.6		286.50019 (20122121)	416.10978 (22102624)	389.01249 (20101705)
377.70159		(22033002)	446.90894 (22062723)	
3628311.7		415.09012 (20090706)	467.64116 (22090703)	541.79176 (20101705)
538.18486		(21081223)	487.95976 (22062723)	
3628115.8		424.89104 (22102622)	398.24068 (22102522)	518.70459 (21030806)
530.64664		(22011621)	478.12680 (22062723)	
3627920.0		371.72602 (20112323)	524.42957 (20090706)	571.71220 (22090524)
545.24518		(22080905)	457.41392 (21071322)	
3627724.1		421.77670 (22090601)	529.26409 (22062102)	566.96574 (22102522)
695.52332		(20101705)	531.07845 (22062022)	
3627528.3		494.76720 (21011618)	501.01316 (22090601)	584.21086 (22102622)
729.79236		(22102624)	798.44131 (21081223)	
3627332.4		458.83726 (21122104)	541.04794 (21011618)	621.37194 (22090601)
904.48869		(21020820)	926.73494 (22080905)	
3627136.5		445.25548 (22090223)	529.25556 (21122104)	646.37387 (21011618)
884.72935		(22062102)	1177.68657 (20101705)	
3626940.7		418.10686 (21020722)	477.82653 (21021622)	587.36642 (21031502)
894.34185		(21122104)	1570.20229 (20090706)	
3626744.8		472.38378 (22011703)	515.66511 (22091605)	618.57576 (22110520)
886.42077		(21012919)	2176.78681 (22031223)	
3626549.0		728.86131 (20122123)	703.09933 (20021206)	694.15139 (22010222)
1396.18706		(21030222)	1501.26429 (22012923)	
3626353.1		390.26210 (22043021)	620.22576 (21030222)	463.23589 (20071703)
541.09628		(20112420)	758.92163 (20081404)	
3626157.2		668.94953 (21030222)	789.05995 (20011520)	838.07821 (20100406)
713.63419		(22120504)	747.78133 (20021622)	
3625961.4		709.01093 (20011520)	539.39798 (20100406)	661.98929 (22012923)
584.93276		(20060802)	732.67656 (20121620)	
3625765.5		378.02957 (20100406)	549.90470 (20111623)	488.61073 (22012923)
592.86152		(20021622)	620.43366 (20021621)	
3625569.7		468.94758 (20100406)	500.15836 (22012923)	450.15604 (21031722)
472.62914		(21102022)	582.85920 (20021220)	
3625373.8		495.79245 (20111623)	453.12991 (20060802)	475.91124 (22081704)
625.31095		(22103002)	484.39842 (21020706)	
3625177.9		503.23225 (22012923)	464.94103 (22081602)	409.76290 (21040224)
541.68668		(21020924)	473.69368 (20090401)	
3624982.1		444.46755 (20092303)	444.66726 (22081704)	421.93033 (21102022)
475.45792		(20021621)	617.63658 (20090401)	
3624786.2		405.63156 (22081602)	414.56088 (22121021)	397.55016 (20092301)
418.99975		(20021220)	445.22346 (20101822)	
3624590.4		398.68129 (22081704)	364.95193 (20091424)	391.13504 (20111724)
449.89502		(20021220)	589.38430 (20101822)	

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 *** ***
*** 06:13:04

PAGE 73
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD (METERS)			X-COORD (METERS)
493402.48	492820.18	493014.28	493208.38

3628507.6	345.15851 (22050623)	280.09247 (20081922)	339.80745 (20031321)
290.94029 (22043024)	224.73942 (22070804)		
3628311.7	371.77363 (22050623)	307.30876 (20022901)	315.75343 (20031321)
331.44462 (21081221)	365.48575 (20101624)		
3628115.8	358.70818 (22050623)	404.96200 (20022901)	363.58439 (22061421)
287.61750 (22050622)	297.05241 (20101624)		
3627920.0	395.16832 (22050623)	415.07055 (20022901)	363.37251 (22043024)
555.87165 (20101624)	340.25590 (20100320)		
3627724.1	582.74594 (22090503)	529.25939 (21100706)	431.45820 (21081221)
343.46222 (20101624)	466.87469 (22081324)		
3627528.3	548.40068 (22090503)	539.90120 (20031321)	576.61627 (20101624)
442.12402 (22010702)	366.49740 (21122302)		
3627332.4	649.80337 (22090503)	500.10431 (22061421)	484.46589 (20101624)
430.16023 (21040924)	386.63636 (22091021)		
3627136.5	703.26778 (22090503)	493.40955 (21081221)	439.15869 (22010702)
367.61427 (22091021)	405.89016 (20081923)		
3626940.7	1042.93710 (22090503)	620.52889 (20101624)	462.43788 (22091021)
391.74032 (20071323)	361.25123 (22051721)		
3626744.8	2584.26476 (22120120)	849.28992 (22120119)	548.86782 (20081602)
491.91357 (21072203)	342.04495 (22072121)		

3626549.0	1658.95740 (22081103)	894.14730 (22060122)	756.83094 (22100605)
652.44188 (20121024)	450.05167 (22091222)		
3626353.1	1392.38444 (21101320)	1342.35721 (22081224)	916.43445 (20092022)
634.15727 (21072222)	623.97303 (20092322)		
3626157.2	1009.71121 (22082605)	1305.62607 (20082006)	909.25817 (22081701)
676.26073 (22041522)	722.53282 (21063023)		
3625961.4	813.61292 (22082605)	1034.51864 (20022901)	923.14889 (22072201)
753.89840 (22081701)	602.89505 (20071201)		
3625765.5	786.82686 (22081101)	1318.42454 (21080902)	912.34959 (21020719)
821.22633 (20080301)	630.13242 (22081701)		
3625569.7	667.03187 (22082605)	1110.86984 (22090723)	868.12183 (22071602)
673.08860 (21071002)	516.37072 (21111920)		
3625373.8	692.10174 (22082605)	604.12589 (20042523)	738.72870 (20061224)
559.52794 (21052323)	626.01321 (22050521)		
3625177.9	713.80379 (22082605)	699.19589 (22052124)	995.82595 (21080902)
609.41244 (22071602)	677.77719 (21071002)		
3624982.1	653.44670 (22082605)	584.75382 (22052124)	974.02824 (20052502)
632.64251 (22071602)	506.05503 (21041722)		
3624786.2	622.74334 (22082605)	513.46486 (21103123)	782.52354 (21030703)
742.93236 (20061224)	422.74161 (20102503)		
3624590.4	531.43254 (22082605)	499.67118 (21103123)	666.61091 (21030703)
702.69614 (21061223)	598.80414 (22071602)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 74

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	493790.68	493984.78	494178.88
494372.98	494567.08		

```

- - - - -
- - - - -
3628507.6 | 253.02151 (20101624) 262.71324 (20100320) 237.29300 (22081324)
142.66133 (21122302) 164.47423 (21052203)
3628311.7 | 290.75216 (21080821) 301.46951 (22081324) 175.71126 (21122302)
162.05319 (21052203) 122.62702 (22031619)
3628115.8 | 310.88620 (22011808) 280.76849 (21040924) 189.54629 (21052203)
128.08208 (22031619) 157.96591 (22091021)
3627920.0 | 356.29034 (22081324) 266.55831 (21070722) 156.26101 (22061501)
183.01383 (22091021) 136.30337 (22082422)
3627724.1 | 319.19017 (21070722) 254.15500 (22061501) 242.97495 (22091021)
151.45770 (22121802) 213.76806 (20081923)
3627528.3 | 345.44413 (22061501) 334.63161 (22091021) 277.27727 (20081923)
257.35905 (20071323) 240.96187 (22051721)
3627332.4 | 325.25561 (22091021) 307.29576 (20081923) 249.74346 (22051721)
268.98529 (21090103) 248.82013 (21110620)
3627136.5 | 334.75880 (20071323) 300.42326 (21090103) 402.36836 (20081602)
363.83757 (21072203) 278.92484 (21072203)
3626940.7 | 438.86068 (21072203) 345.77300 (21072203) 354.77465 (22072121)
354.31839 (21110518) 353.83808 (22072121)
3626744.8 | 338.31320 (22072121) 314.96375 (21041922) 304.34669 (21041922)
283.18004 (21041922) 291.55138 (20031703)
3626549.0 | 453.15457 (22091222) 414.10657 (22091222) 348.59390 (22091222)
327.89143 (22091222) 316.21248 (20090820)
3626353.1 | 587.81333 (21091323) 539.71273 (22070202) 423.53865 (20070924)
490.02412 (20070924) 386.81682 (20070924)
3626157.2 | 670.84539 (21052723) 532.84776 (21072102) 449.42096 (21020719)
456.65992 (21091323) 432.20246 (21091323)
3625961.4 | 681.50656 (22082502) 530.10620 (21063023) 475.46147 (21052723)
515.28287 (21072102) 438.48901 (20092322)
3625765.5 | 520.33605 (20071201) 502.73648 (22041522) 491.19678 (22073105)
497.34093 (21063023) 451.90081 (21052723)
3625569.7 | 522.01960 (20101720) 462.69474 (22040123) 453.12389 (22041522)
434.10220 (22082502) 457.78369 (20092021)
3625373.8 | 602.56284 (22081224) 474.82854 (20101720) 404.23950 (22040123)
397.52685 (21071124) 422.52988 (21082923)
3625177.9 | 537.79315 (20080301) 451.49884 (22081224) 427.45813 (20101720)
389.34716 (20050501) 399.33779 (21071124)
3624982.1 | 512.96786 (22072201) 379.29660 (20041404) 403.45096 (22081224)
421.67656 (20101720) 378.52401 (20050501)
3624786.2 | 479.15865 (21071002) 447.22210 (22050521) 344.97122 (20041404)
363.18480 (21030821) 415.03643 (20101720)
3624590.4 | 520.78179 (22081002) 452.10211 (20101621) 412.64882 (20080301)
370.22096 (21111920) 384.23112 (21030821)

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
*** AERMET - VERSION 23132 *** ***
*** 06:13:04

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)		494761.18	

3628507.6		123.37723 (22031619)
3628311.7		145.76483 (22091021)
3628115.8		134.99036 (22082422)
3627920.0		164.78423 (20081923)
3627724.1		163.50409 (20071323)
3627528.3		181.83779 (22051721)
3627332.4		213.69987 (20081602)
3627136.5		219.09827 (21053101)
3626940.7		308.48994 (22072121)
3626744.8		353.29301 (20031703)
3626549.0		304.92517 (20090820)
3626353.1		403.44518 (22091223)
3626157.2		327.46400 (20062522)
3625961.4		342.48092 (21020719)
3625765.5		438.20146 (21072222)
3625569.7		430.97779 (21063023)
3625373.8		419.21139 (22073105)
3625177.9		428.97351 (22041522)
3624982.1		438.25212 (20071201)
3624786.2		401.00473 (21081124)
3624590.4		361.24589 (21102120)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 ***

*** 06:13:04

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	984.25905	(22081005)	492919.80
3625834.65	910.80978	(21061601)		
492955.07	3625845.55	789.93480	(21030703)	493069.86
3625832.73	1718.96648	(22011423)		
493094.87	3625832.73	1542.39582	(21092324)	493110.90
3625837.21	1489.13552	(20101806)		
493151.95	3625834.01	1289.20466	(21092324)	493166.70
3625837.86	1228.76003	(20101806)		
493187.86	3625836.57	1143.59705	(20101806)	493201.33
3625836.57	1094.45977	(20101806)		
493240.44	3625836.57	978.15872	(20090820)	492881.32
3625908.40	813.56855	(21081604)		
492906.98	3625898.14	801.60857	(21081604)	492901.84
3625911.60	842.89007	(22032023)		
492928.14	3625914.81	824.19811	(21040201)	492933.91
3625898.14	857.95391	(21040201)		
492951.87	3625908.40	918.87717	(22102522)	492973.67
3625907.11	934.16609	(20111805)		
492993.55	3625914.17	1003.97842	(22090503)	492996.11
3625897.50	888.85472	(22071905)		
493015.99	3625896.85	856.97081	(22071905)	493023.05
3625912.24	1131.68500	(21081221)		
493044.21	3625907.11	1393.93143	(22010702)	493066.66
3625907.76	1244.80146	(22010702)		
493085.25	3625912.24	936.32076	(21052203)	493087.18

3625895.57	1130.65812	(20081923)	
493108.98	3625911.60	1011.75573	(20081923) 493112.19
3625897.50	1037.81727	(20071323)	
493133.99	3625901.98	956.91414	(20071323) 492874.27
3625788.48	894.35717	(20011918)	
492894.15	3625789.12	947.29234	(20011918) 492910.18
3625790.40	916.28825	(20011918)	
492930.70	3625786.55	980.84026	(22120301) 492947.38
3625791.04	1100.34379	(22120301)	
492963.41	3625787.84	935.10516	(20021622) 492982.65
3625787.84	971.76162	(21030703)	
492999.96	3625787.84	1143.20554	(20052502) 493021.12
3625791.04	1617.52300	(22082506)	
493036.52	3625789.12	1647.54024	(22082506) 493055.75
3625789.76	1367.52059	(20080623)	
493076.28	3625787.84	1296.98281	(21072003) 493094.87
3625787.84	1444.57252	(22082504)	
493112.83	3625788.48	1236.35952	(20082306) 493129.50
3625787.19	1147.73933	(22092902)	
493148.74	3625787.19	1077.63664	(22092902) 493164.77
3625790.40	1074.58975	(20082305)	
493184.65	3625789.12	1016.69074	(20082305) 493201.97
3625791.04	1002.61879	(21040722)	
493221.21	3625790.40	965.83255	(21040722) 493238.52
3625791.04	921.96558	(21083001)	
492780.00	3626415.01	1267.43257	(21040802) 492778.72
3626388.08	1224.48139	(21040802)	
492747.94	3626386.16	1055.40531	(21040224) 492742.16
3626418.22	1062.97478	(22040504)	
492699.20	3626422.71	954.10674	(22120301) 492697.92
3626391.93	921.45128	(22040504)	
492678.68	3626411.81	893.07103	(22120301) 492626.09
3626426.56	740.54480	(21120106)	
492606.85	3626435.54	814.15319	(20051704) 492599.16
3626405.39	715.66352	(21120106)	
492491.20	3626644.88	1228.05751	(20021601) 492517.36
3626636.70	1272.00774	(20120923)	
492521.18	3626603.45	1867.25451	(21030222) 492521.72
3626582.19	1866.82955	(21030222)	
492512.46	3626553.84	1864.99358	(20011520) 492513.55
3626533.13	1674.72838	(21110104)	
492501.01	3626506.42	1499.10241	(21110104) 492490.65
3626485.70	1455.95254	(21110104)	
492479.21	3626464.45	1424.07615	(20100406) 492466.12
3626447.00	1150.10585	(20102402)	
492447.59	3626418.66	702.70141	(20102402) 492431.78
3626430.65	689.53973	(20100705)	
492481.93	3626620.35	1198.87802	(20120923) 492482.48
3626594.18	1524.84460	(21030222)	
492479.21	3626572.92	1814.80346	(21030222) 492477.02

3626546.76	1681.56703	(21030222)		
492467.76	3626523.32	1712.62755	(20011520)	492463.94
3626507.51	1736.36662	(20011520)		
492450.86	3626492.79	1809.30051	(20011520)	492427.42
3626474.80	1317.72600	(20011520)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 77

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	650.23639	(20102401)	492823.25
3626567.17	1789.62649	(21092106)		
492838.34	3626526.92	1688.83442	(21013120)	493039.78
3625834.45	1511.72851	(22011423)		
492743.19	3626628.92	1805.61495	(21081301)	492703.25
3626652.75	2021.59024	(20111623)		
492723.78	3626582.16	1442.81872	(21011805)	492761.18
3626553.82	1429.06325	(21072304)		
493013.27	3625844.49	1004.03284	(21080902)	492798.96
3626618.56	1940.73023	(22102522)		
492794.41	3626665.12	2757.98325	(22062022)	

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG) OF TYPE	GRID-ID		
SLINE1	1ST HIGHEST VALUE IS	233.59887 AT (	492794.41, 3626665.12, 123.57,
123.57,	0.00) DC		
123.46,	2ND HIGHEST VALUE IS	208.21242 AT (	492703.25, 3626652.75, 123.46,
125.30,	0.00) DC		
125.30,	3RD HIGHEST VALUE IS	180.08200 AT (	492820.18, 3626744.82, 108.40,
123.93,	0.00) GC UCART1		
123.93,	4TH HIGHEST VALUE IS	141.40788 AT (	492743.19, 3626628.92, 123.93,
123.20,	0.00) DC		
123.20,	5TH HIGHEST VALUE IS	130.85330 AT (	492626.08, 3626744.82, 112.00,
124.36,	0.00) GC UCART1		
124.36,	6TH HIGHEST VALUE IS	119.22465 AT (	492798.96, 3626618.56, 124.36,
117.51,	0.00) DC		
117.51,	7TH HIGHEST VALUE IS	84.47512 AT (	492521.18, 3626603.45, 117.51,
118.28,	0.00) DC		
118.28,	8TH HIGHEST VALUE IS	79.42866 AT (	492521.72, 3626582.19, 118.28,
124.78,	0.00) DC		
124.78,	9TH HIGHEST VALUE IS	78.50509 AT (	492723.78, 3626582.16, 124.78,
133.70,	0.00) DC		
133.70,	10TH HIGHEST VALUE IS	76.41734 AT (	492517.36, 3626636.70, 113.55,
STCK1	1ST HIGHEST VALUE IS	90.90539 AT (	492820.18, 3626548.96, 125.40,
125.40,	0.00) GC UCART1		
125.45,	2ND HIGHEST VALUE IS	82.95230 AT (	492838.34, 3626526.92, 125.45,
125.08,	0.00) DC		
125.08,	3RD HIGHEST VALUE IS	67.54724 AT (	492823.25, 3626567.17, 125.08,
125.16,	0.00) DC		
125.16,	4TH HIGHEST VALUE IS	42.93972 AT (	492761.18, 3626553.82, 125.16,
129.76,	0.00) DC		
129.76,	5TH HIGHEST VALUE IS	28.27533 AT (	492699.20, 3626422.71, 129.76,
	0.00) DC		
	6TH HIGHEST VALUE IS	27.27184 AT (	492742.16, 3626418.22, 129.71,

129.71,	0.00) DC	24.95849 AT (	492678.68,	3626411.81,	130.96,
134.69,	0.00) DC				
	8TH HIGHEST VALUE IS	23.70742 AT (	492780.00,	3626415.01,	128.98,
135.14,	0.00) DC				
	9TH HIGHEST VALUE IS	22.17450 AT (	492723.78,	3626582.16,	124.78,
124.78,	0.00) DC				
	10TH HIGHEST VALUE IS	21.99571 AT (	492697.92,	3626391.93,	131.37,
134.78,	0.00) DC				
STCK2	1ST HIGHEST VALUE IS	156.36088 AT (	493039.78,	3625834.45,	141.93,
141.93,	0.00) DC				
	2ND HIGHEST VALUE IS	107.83633 AT (	493013.27,	3625844.49,	141.76,
141.76,	0.00) DC				
	3RD HIGHEST VALUE IS	104.37471 AT (	493069.86,	3625832.73,	142.17,
142.17,	0.00) DC				
	4TH HIGHEST VALUE IS	86.28154 AT (	493076.28,	3625787.84,	141.87,
141.87,	0.00) DC				
	5TH HIGHEST VALUE IS	85.24800 AT (	493055.75,	3625789.76,	141.87,
141.87,	0.00) DC				
	6TH HIGHEST VALUE IS	80.12173 AT (	493036.52,	3625789.12,	141.85,
141.85,	0.00) DC				
	7TH HIGHEST VALUE IS	78.47407 AT (	493021.12,	3625791.04,	141.82,
141.82,	0.00) DC				
	8TH HIGHEST VALUE IS	77.03139 AT (	493094.87,	3625787.84,	141.87,
141.87,	0.00) DC				
	9TH HIGHEST VALUE IS	68.58691 AT (	493094.87,	3625832.73,	142.17,
142.17,	0.00) DC				
	10TH HIGHEST VALUE IS	58.24440 AT (	492999.96,	3625787.84,	141.71,
141.71,	0.00) DC				
STCK3	1ST HIGHEST VALUE IS	98.60067 AT (	492798.96,	3626618.56,	124.36,
124.36,	0.00) DC				
	2ND HIGHEST VALUE IS	70.46009 AT (	492794.41,	3626665.12,	123.57,
123.57,	0.00) DC				
	3RD HIGHEST VALUE IS	47.07185 AT (	492743.19,	3626628.92,	123.93,
123.93,	0.00) DC				
	4TH HIGHEST VALUE IS	41.26625 AT (	492823.25,	3626567.17,	125.08,
125.08,	0.00) DC				
	5TH HIGHEST VALUE IS	39.12576 AT (	492723.78,	3626582.16,	124.78,
124.78,	0.00) DC				
	6TH HIGHEST VALUE IS	31.35185 AT (	492761.18,	3626553.82,	125.16,
125.16,	0.00) DC				
	7TH HIGHEST VALUE IS	28.92387 AT (	492820.18,	3626548.96,	125.40,
125.40,	0.00) GC UCART1				
	8TH HIGHEST VALUE IS	25.81998 AT (	492838.34,	3626526.92,	125.45,
125.45,	0.00) DC				
	9TH HIGHEST VALUE IS	23.98409 AT (	492703.25,	3626652.75,	123.46,
123.46,	0.00) DC				
	10TH HIGHEST VALUE IS	19.97525 AT (	492626.08,	3626548.96,	100.70,

136.60, 0.00) GC UCART1
 *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24
 *** AERMET - VERSION 23132 ***
 *** 06:13:04

PAGE 79

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG) OF TYPE	GRID-ID		
ALL	1ST HIGHEST VALUE IS	318.55978 AT (492794.41, 3626665.12, 123.57,	
123.57, 0.00) DC			
	2ND HIGHEST VALUE IS	243.76714 AT (492703.25, 3626652.75, 123.46,	
123.46, 0.00) DC			
	3RD HIGHEST VALUE IS	236.72961 AT (492798.96, 3626618.56, 124.36,	
124.36, 0.00) DC			
	4TH HIGHEST VALUE IS	204.06372 AT (492743.19, 3626628.92, 123.93,	
123.93, 0.00) DC			
	5TH HIGHEST VALUE IS	197.72807 AT (492820.18, 3626744.82, 108.40,	
125.30, 0.00) GC UCART1			
	6TH HIGHEST VALUE IS	179.18698 AT (492820.18, 3626548.96, 125.40,	
125.40, 0.00) GC UCART1			
	7TH HIGHEST VALUE IS	178.60218 AT (492823.25, 3626567.17, 125.08,	
125.08, 0.00) DC			
	8TH HIGHEST VALUE IS	164.52276 AT (493039.78, 3625834.45, 141.93,	
141.93, 0.00) DC			
	9TH HIGHEST VALUE IS	159.49852 AT (492838.34, 3626526.92, 125.45,	
125.45, 0.00) DC			
	10TH HIGHEST VALUE IS	144.46251 AT (492626.08, 3626744.82, 112.00,	
123.20, 0.00) GC UCART1			

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

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 *** ***

*** 06:13:04

PAGE 80

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

SLINE1 HIGH 1ST HIGH VALUE IS 2584.26160 ON 22120120: AT (492820.18,
3626744.82, 108.40, 125.30, 0.00) GC UCART1

STCK1 HIGH 1ST HIGH VALUE IS 1311.70762 ON 22102522: AT (492798.96,
3626618.56, 124.36, 124.36, 0.00) DC

STCK2 HIGH 1ST HIGH VALUE IS 1714.13040 ON 22011423: AT (493069.86,
3625832.73, 142.17, 142.17, 0.00) DC

STCK3 HIGH 1ST HIGH VALUE IS 1330.87906 ON 22102720: AT (492823.25,
3626567.17, 125.08, 125.08, 0.00) DC

ALL HIGH 1ST HIGH VALUE IS 2757.98325 ON 22062022: AT (492794.41,
3626665.12, 123.57, 123.57, 0.00) DC

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

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/22/24

*** AERMET - VERSION 23132 *** ***

*** 06:13:04

PAGE 81

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

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

A Total of 0 Fatal Error Message(s)
A Total of 3 Warning Message(s)
A Total of 1415 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 654 Calm Hours Identified

A Total of 761 Missing Hours Identified (2.89 Percent)

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

***** WARNING MESSAGES *****
SO W320 191 PPARM: Input Parameter May Be Out-of-Range for Parameter
 VS
SO W320 192 PPARM: Input Parameter May Be Out-of-Range for Parameter
 VS
MX W403 338 PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

*** AERMOD Finishes Successfully ***

HARP2 - HRACalc (dated 22118) 12/3/2024 3:12:40 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.5

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.5
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 3 HARP\hra\Phase 3

OffsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 3 HARP\hra\Phase 3

OffsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 3 HARP\hra\Phase 3

OffsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 3 HARP\hra\Phase 3

OffsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 3 HARP\hra\Phase 3

OffsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 3 HARP\hra\Phase 3

OffsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

470	ALL	493134	3625902	6.49E-08	1.5YrCance	6.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	492874.3	3625788	7.63E-08	1.5YrCance	7.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	492894.2	3625789	8.27E-08	1.5YrCance	8.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	492910.2	3625790	8.79E-08	1.5YrCance	8.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	492930.7	3625787	9.13E-08	1.5YrCance	9.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	492947.4	3625791	9.54E-08	1.5YrCance	9.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	492963.4	3625788	9.08E-08	1.5YrCance	9.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	492982.7	3625788	9.18E-08	1.5YrCance	9.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	493000	3625788	9.96E-08	1.5YrCance	9.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	493021.1	3625791	1.22E-07	1.5YrCance	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	493036.5	3625789	1.23E-07	1.5YrCance	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	493055.8	3625790	1.29E-07	1.5YrCance	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	493076.3	3625788	1.30E-07	1.5YrCance	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	493094.9	3625788	1.20E-07	1.5YrCance	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	493112.8	3625788	1.00E-07	1.5YrCance	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	493129.5	3625787	9.19E-08	1.5YrCance	9.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	493148.7	3625787	8.33E-08	1.5YrCance	8.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	493164.8	3625790	7.74E-08	1.5YrCance	7.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	493184.7	3625789	7.19E-08	1.5YrCance												

[illegible]

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEI RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL	UCART1	490879.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
2	ALL	UCART1	491073.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
3	ALL	UCART1	491267.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
4	ALL	UCART1	491461.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
5	ALL	UCART1	491655.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
6	ALL	UCART1	491849.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
7	ALL	UCART1	492043.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
8	ALL	UCART1	492237.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
9	ALL	UCART1	492432	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
10	ALL	UCART1	492626.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
11	ALL	UCART1	492820.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
12	ALL	UCART1	493014.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
13	ALL	UCART1	493208.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
14	ALL	UCART1	493402.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
15	ALL	UCART1	493596.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
16	ALL	UCART1	493790.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
17	ALL	UCART1	493984.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
18	ALL	UCART1	494178.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
19	ALL	UCART1	494373	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
20	ALL	UCART1	494567.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
21	ALL	UCART1	494761.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
22	ALL	UCART1	490879.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
23	ALL	UCART1	491073.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
24	ALL	UCART1	491267.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
25	ALL	UCART1	491461.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
26	ALL	UCART1	491655.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
27	ALL	UCART1	491849.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
28	ALL	UCART1	492043.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
29	ALL	UCART1	492237.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
30	ALL	UCART1	492432	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
31	ALL	UCART1	492626.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
32	ALL	UCART1	492820.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
33	ALL	UCART1	493014.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
34	ALL	UCART1	493208.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
35	ALL	UCART1	493402.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
36	ALL	UCART1	493596.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
37	ALL	UCART1	493790.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
38	ALL	UCART1	493984.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
39	ALL	UCART1	494178.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
40	ALL	UCART1	494373	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
41	ALL	UCART1	494567.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
42	ALL	UCART1	494761.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
43	ALL	UCART1	490879.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
44	ALL	UCART1	491073.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
45	ALL	UCART1	491267.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
46	ALL	UCART1	491461.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
47	ALL	UCART1	491655.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
48	ALL	UCART1	491849.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
49	ALL	UCART1	492043.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
50	ALL	UCART1	492237.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
51	ALL	UCART1	492432	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05

52		UCART1	492626.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
53	ALL	UCART1	492820.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
54	ALL	UCART1	493014.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
55	ALL	UCART1	493208.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
56	ALL	UCART1	493402.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
57	ALL	UCART1	493596.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
58	ALL	UCART1	493790.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
59	ALL	UCART1	493984.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
60	ALL	UCART1	494178.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
61	ALL	UCART1	494373	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
62	ALL	UCART1	494567.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
63	ALL	UCART1	494761.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
64	ALL	UCART1	490879.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
65	ALL	UCART1	491073.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
66	ALL	UCART1	491267.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
67	ALL	UCART1	491461.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
68	ALL	UCART1	491655.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
69	ALL	UCART1	491849.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
70	ALL	UCART1	492043.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
71	ALL	UCART1	492237.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
72	ALL	UCART1	492432	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
73	ALL	UCART1	492626.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
74	ALL	UCART1	492820.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
75	ALL	UCART1	493014.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
76	ALL	UCART1	493208.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
77	ALL	UCART1	493402.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
78	ALL	UCART1	493596.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
79	ALL	UCART1	493790.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
80	ALL	UCART1	493984.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
81	ALL	UCART1	494178.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
82	ALL	UCART1	494373	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
83	ALL	UCART1	494567.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
84	ALL	UCART1	494761.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
85	ALL	UCART1	490879.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
86	ALL	UCART1	491073.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
87	ALL	UCART1	491267.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
88	ALL	UCART1	491461.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
89	ALL	UCART1	491655.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
90	ALL	UCART1	491849.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
91	ALL	UCART1	492043.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
92	ALL	UCART1	492237.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
93	ALL	UCART1	492432	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
94	ALL	UCART1	492626.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05
95	ALL	UCART1	492820.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
96	ALL	UCART1	493014.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
97	ALL	UCART1	493208.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
98	ALL	UCART1	493402.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
99	ALL	UCART1	493596.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
100	ALL	UCART1	493790.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
101	ALL	UCART1	493984.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
102	ALL	UCART1	494178.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
103	ALL	UCART1	494373	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0						

312		UCART1	494178.9	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06
313	ALL	UCART1	494373	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-06
314	ALL	UCART1	494567.1	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-06
315	ALL	UCART1	494761.2	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-06
316	ALL	UCART1	490879.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
317	ALL	UCART1	491073.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
318	ALL	UCART1	491267.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
319	ALL	UCART1	491461.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
320	ALL	UCART1	491655.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
321	ALL	UCART1	491849.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05
322	ALL	UCART1	492043.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
323	ALL	UCART1	492237.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05
324	ALL	UCART1	492432	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05
325	ALL	UCART1	492626.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-05
326	ALL	UCART1	492820.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05
327	ALL	UCART1	493014.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05
328	ALL	UCART1	493208.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
329	ALL	UCART1	493402.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
330	ALL	UCART1	493596.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
331	ALL	UCART1	493790.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06
332	ALL	UCART1	493984.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06
333	ALL	UCART1	494178.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-06
334	ALL	UCART1	494373	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-06
335	ALL	UCART1	494567.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-06
336	ALL	UCART1	494761.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-06
337	ALL	UCART1	490879.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
338	ALL	UCART1	491073.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
339	ALL	UCART1	491267.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
340	ALL	UCART1	491461.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
341	ALL	UCART1	491655.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
342	ALL	UCART1	491849.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
343	ALL	UCART1	492043.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
344	ALL	UCART1	492237.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
345	ALL	UCART1	492432	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
346	ALL	UCART1	492626.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
347	ALL	UCART1	492820.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-05
348	ALL	UCART1	493014.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
349	ALL	UCART1	493208.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05
350	ALL	UCART1	493402.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
351	ALL	UCART1	493596.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
352	ALL	UCART1	493790.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-06
353	ALL	UCART1	493984.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-06
354	ALL	UCART1	494178.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-06
355	ALL	UCART1	494373	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-06
356	ALL	UCART1	494567.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-06
357	ALL	UCART1	494761.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-06
358	ALL	UCART1	490879.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

		493109	3625912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05
469	ALL	493112.2	3625898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05
470	ALL	493134	3625902	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05
471	ALL	492874.3	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05
472	ALL	492894.2	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05
473	ALL	492910.2	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05
474	ALL	492930.7	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05
475	ALL	492947.4	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05
476	ALL	492963.4	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05
477	ALL	492982.7	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-05
478	ALL	493000	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
479	ALL	493021.1	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05
480	ALL	493036.5	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05
481	ALL	493055.8	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
482	ALL	493076.3	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
483	ALL	493094.9	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05
484	ALL	493112.8	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-05
485	ALL	493129.5	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-05
486	ALL	493148.7	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-05
487	ALL	493164.8	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05
488	ALL	493184.7	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05
489	ALL	493202	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05
490	ALL	493221.2	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
491	ALL	493238.5	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
492	ALL	492780	3626415	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
493	ALL	492778.7	3626388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
494	ALL	492747.9	3626386	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
495	ALL	492742.2	3626418	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
496	ALL	492699.2	3626423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
497	ALL	492697.9	3626392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
498	ALL	492678.7	3626412	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
499	ALL	492626.1	3626427	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
500	ALL	492606.9	3626436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
501	ALL	492599.2	3626405	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
502	ALL	492491.2	3626645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-04
503	ALL	492517.4	3626637	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-04
504	ALL	492521.2	3626603	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
505	ALL	492521.7	3626582	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
506	ALL	492512.5	3626554	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-04
507	ALL	492513.6	3626533	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04
508	ALL	492501	3626506	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04
509	ALL	492490.7	3626486	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-04
510	ALL	492479.2	3626464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04
511	ALL	492466.1	3626447	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04
512	ALL	492447.6	3626419	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
513	ALL	492431.8	3626431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
514	ALL	492481.9	3626620	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04
515	ALL	492482.5	3626594	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-04
516	ALL	492479.2	3626573	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-04
517	ALL	492477	3626547	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-04
518	ALL	492467.8	3626523	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00											

[illegible]

HARP2 - HRACalc (dated 22118) 12/3/2024 3:12:21 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 1.5

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 1.5
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 3 HARP\hra\Phase 3

OnsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 3 HARP\hra\Phase 3

OnsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 3 HARP\hra\Phase 3

OnsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 3 HARP\hra\Phase 3

OnsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 3 HARP\hra\Phase 3

OnsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 3 HARP\hra\Phase 3

OnsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

470	ALL	493134	3625902	1.47E-09	1.5YrCance	1.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	492874.3	3625788	1.73E-09	1.5YrCance	1.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	492894.2	3625789	1.88E-09	1.5YrCance	1.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	492910.2	3625790	1.99E-09	1.5YrCance	1.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	492930.7	3625787	2.07E-09	1.5YrCance	2.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	492947.4	3625791	2.17E-09	1.5YrCance	2.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	492963.4	3625788	2.06E-09	1.5YrCance	2.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	492982.7	3625788	2.08E-09	1.5YrCance	2.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	493000	3625788	2.26E-09	1.5YrCance	2.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	493021.1	3625791	2.76E-09	1.5YrCance	2.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	493036.5	3625789	2.80E-09	1.5YrCance	2.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	493055.8	3625790	2.93E-09	1.5YrCance	2.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	493076.3	3625788	2.95E-09	1.5YrCance	2.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	493094.9	3625788	2.73E-09	1.5YrCance	2.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	493112.8	3625788	2.27E-09	1.5YrCance	2.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	493129.5	3625787	2.09E-09	1.5YrCance	2.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	493148.7	3625787	1.89E-09	1.5YrCance	1.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	493164.8	3625790	1.76E-09	1.5YrCance	1.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	493184.7	3625789	1.63E-09	1.5YrCance												

[illegible]

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEI RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL	UCART1	490879.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
2	ALL	UCART1	491073.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
3	ALL	UCART1	491267.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
4	ALL	UCART1	491461.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
5	ALL	UCART1	491655.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
6	ALL	UCART1	491849.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
7	ALL	UCART1	492043.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
8	ALL	UCART1	492237.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
9	ALL	UCART1	492432	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
10	ALL	UCART1	492626.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
11	ALL	UCART1	492820.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
12	ALL	UCART1	493014.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
13	ALL	UCART1	493208.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
14	ALL	UCART1	493402.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
15	ALL	UCART1	493596.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
16	ALL	UCART1	493790.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
17	ALL	UCART1	493984.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
18	ALL	UCART1	494178.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
19	ALL	UCART1	494373	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
20	ALL	UCART1	494567.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
21	ALL	UCART1	494761.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
22	ALL	UCART1	490879.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
23	ALL	UCART1	491073.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
24	ALL	UCART1	491267.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
25	ALL	UCART1	491461.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
26	ALL	UCART1	491655.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
27	ALL	UCART1	491849.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
28	ALL	UCART1	492043.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
29	ALL	UCART1	492237.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
30	ALL	UCART1	492432	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
31	ALL	UCART1	492626.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
32	ALL	UCART1	492820.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
33	ALL	UCART1	493014.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
34	ALL	UCART1	493208.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
35	ALL	UCART1	493402.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
36	ALL	UCART1	493596.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
37	ALL	UCART1	493790.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
38	ALL	UCART1	493984.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
39	ALL	UCART1	494178.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
40	ALL	UCART1	494373	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
41	ALL	UCART1	494567.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
42	ALL	UCART1	494761.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
43	ALL	UCART1	490879.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
44	ALL	UCART1	491073.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
45	ALL	UCART1	491267.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
46	ALL	UCART1	491461.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
47	ALL	UCART1	491655.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
48	ALL	UCART1	491849.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
49	ALL	UCART1	492043.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
50	ALL	UCART1	492237.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
51	ALL	UCART1	492432	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05

52		UCART1	492626.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
53	ALL	UCART1	492820.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
54	ALL	UCART1	493014.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
55	ALL	UCART1	493208.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
56	ALL	UCART1	493402.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
57	ALL	UCART1	493596.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
58	ALL	UCART1	493790.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
59	ALL	UCART1	493984.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
60	ALL	UCART1	494178.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
61	ALL	UCART1	494373	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
62	ALL	UCART1	494567.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
63	ALL	UCART1	494761.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
64	ALL	UCART1	490879.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
65	ALL	UCART1	491073.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
66	ALL	UCART1	491267.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
67	ALL	UCART1	491461.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
68	ALL	UCART1	491655.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
69	ALL	UCART1	491849.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
70	ALL	UCART1	492043.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
71	ALL	UCART1	492237.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
72	ALL	UCART1	492432	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
73	ALL	UCART1	492626.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
74	ALL	UCART1	492820.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
75	ALL	UCART1	493014.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
76	ALL	UCART1	493208.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
77	ALL	UCART1	493402.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
78	ALL	UCART1	493596.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
79	ALL	UCART1	493790.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
80	ALL	UCART1	493984.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
81	ALL	UCART1	494178.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
82	ALL	UCART1	494373	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
83	ALL	UCART1	494567.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
84	ALL	UCART1	494761.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
85	ALL	UCART1	490879.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
86	ALL	UCART1	491073.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
87	ALL	UCART1	491267.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
88	ALL	UCART1	491461.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
89	ALL	UCART1	491655.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
90	ALL	UCART1	491849.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
91	ALL	UCART1	492043.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
92	ALL	UCART1	492237.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
93	ALL	UCART1	492432	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
94	ALL	UCART1	492626.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05
95	ALL	UCART1	492820.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
96	ALL	UCART1	493014.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
97	ALL	UCART1	493208.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
98	ALL	UCART1	493402.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
99	ALL	UCART1	493596.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
100	ALL	UCART1	493790.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
101	ALL	UCART1	493984.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
102	ALL	UCART1	494178.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
103	ALL	UCART1	494373	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0						

312		UCART1	494178.9	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06
313	ALL	UCART1	494373	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-06
314	ALL	UCART1	494567.1	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-06
315	ALL	UCART1	494761.2	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-06
316	ALL	UCART1	490879.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
317	ALL	UCART1	491073.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
318	ALL	UCART1	491267.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
319	ALL	UCART1	491461.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
320	ALL	UCART1	491655.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
321	ALL	UCART1	491849.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05
322	ALL	UCART1	492043.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
323	ALL	UCART1	492237.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05
324	ALL	UCART1	492432	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05
325	ALL	UCART1	492626.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-05
326	ALL	UCART1	492820.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05
327	ALL	UCART1	493014.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05
328	ALL	UCART1	493208.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
329	ALL	UCART1	493402.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
330	ALL	UCART1	493596.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
331	ALL	UCART1	493790.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06
332	ALL	UCART1	493984.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06
333	ALL	UCART1	494178.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-06
334	ALL	UCART1	494373	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-06
335	ALL	UCART1	494567.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-06
336	ALL	UCART1	494761.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-06
337	ALL	UCART1	490879.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
338	ALL	UCART1	491073.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
339	ALL	UCART1	491267.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
340	ALL	UCART1	491461.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
341	ALL	UCART1	491655.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
342	ALL	UCART1	491849.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
343	ALL	UCART1	492043.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
344	ALL	UCART1	492237.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
345	ALL	UCART1	492432	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
346	ALL	UCART1	492626.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
347	ALL	UCART1	492820.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-05
348	ALL	UCART1	493014.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
349	ALL	UCART1	493208.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05
350	ALL	UCART1	493402.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
351	ALL	UCART1	493596.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
352	ALL	UCART1	493790.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-06
353	ALL	UCART1	493984.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-06
354	ALL	UCART1	494178.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-06
355	ALL	UCART1	494373	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-06
356	ALL	UCART1	494567.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-06
357	ALL	UCART1	494761.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-06
358	ALL	UCART1	490879.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

[illegible]

[illegible]

SDSU Evolve Phase 4 HRA 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
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
- 3. Construction Emissions Details
 - 3.1. Demolition (2029) - Unmitigated
 - 3.3. Site Preparation (2029) - Unmitigated
 - 3.5. Grading (2029) - Unmitigated
 - 3.7. Building Construction (2029) - Unmitigated
 - 3.9. Building Construction (2030) - Unmitigated

3.11. Paving (2030) - Unmitigated

3.13. Architectural Coating (2030) - Unmitigated

3.15. Trenching (2029) - Unmitigated

3.17. Trenching (2030) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

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

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	SDSU Evolve Phase 4 HRA
Construction Start Date	8/13/2029
Operational Year	2030
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	1.80
Location	32.77754140411972, -117.07772216206095
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6514
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	760	Dwelling Unit	12.3	729,600	21,626	—	2,120	—

Other Asphalt Surfaces	0.63	Acre	0.63	0.00	0.00	—	—	—
City Park	0.58	Acre	0.58	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	68.4	68.4	5.14	24.2	0.04	0.08	7.66	7.68	0.08	2.66	2.74	—	4,541	4,541	0.23	0.09	0.21	4,574
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	68.4	68.4	5.26	24.3	0.04	0.08	5.35	5.43	0.08	2.66	2.74	—	4,545	4,545	0.23	0.09	0.01	4,578
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.6	12.6	2.08	4.40	0.01	0.01	0.93	0.94	0.01	0.32	0.33	—	703	703	0.04	0.02	0.03	709
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.31	2.31	0.38	0.80	< 0.005	< 0.005	0.17	0.17	< 0.005	0.06	0.06	—	116	116	0.01	< 0.005	< 0.005	117

2.2. Construction Emissions by Year, Unmitigated

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

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

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.56	0.50	5.14	24.2	0.04	0.08	7.66	7.68	0.08	2.66	2.74	—	4,541	4,541	0.23	0.09	0.21	4,574
2030	68.4	68.4	3.34	6.87	0.01	0.02	0.02	0.03	0.02	< 0.005	0.02	—	1,086	1,086	0.06	0.03	0.10	1,096
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.55	0.48	5.26	24.3	0.04	0.08	5.35	5.43	0.08	2.66	2.74	—	4,545	4,545	0.23	0.09	0.01	4,578
2030	68.4	68.4	4.71	8.88	0.01	0.02	0.02	0.04	0.02	< 0.005	0.03	—	1,371	1,371	0.07	0.03	< 0.005	1,383
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.09	0.08	1.19	3.59	0.01	0.01	0.93	0.94	0.01	0.32	0.33	—	660	660	0.04	0.01	0.02	665
2030	12.6	12.6	2.08	4.40	0.01	0.01	0.01	0.02	0.01	< 0.005	0.01	—	703	703	0.04	0.02	0.03	709
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.02	0.01	0.22	0.65	< 0.005	< 0.005	0.17	0.17	< 0.005	0.06	0.06	—	109	109	0.01	< 0.005	< 0.005	110
2030	2.31	2.31	0.38	0.80	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	116	116	0.01	< 0.005	< 0.005	117

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.5	22.1	2.73	54.4	0.04	0.15	2.26	2.41	0.14	0.57	0.72	368	5,821	6,189	37.5	0.29	10.6	7,223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.6	18.4	2.41	10.7	0.03	0.13	2.26	2.39	0.13	0.57	0.70	368	5,598	5,966	37.5	0.29	5.36	6,995
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	20.4	20.1	2.50	31.2	0.03	0.14	2.25	2.39	0.13	0.57	0.70	368	5,512	5,880	37.5	0.29	7.54	6,911
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.73	3.68	0.46	5.69	0.01	0.02	0.41	0.44	0.02	0.10	0.13	60.9	913	973	6.20	0.05	1.25	1,144

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.49	1.38	0.84	9.44	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,452	2,452	0.11	0.09	5.37	2,488
Area	20.8	20.6	0.40	43.3	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	115	115	< 0.005	< 0.005	—	116
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	22.5	22.1	2.73	54.4	0.04	0.15	2.26	2.41	0.14	0.57	0.72	368	5,821	6,189	37.5	0.29	10.6	7,223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.47	1.35	0.92	8.96	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,344	2,344	0.12	0.10	0.14	2,377
Area	16.9	16.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223

Total	18.6	18.4	2.41	10.7	0.03	0.13	2.26	2.39	0.13	0.57	0.70	368	5,598	5,966	37.5	0.29	5.36	6,995
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.45	1.34	0.91	8.94	0.02	0.02	2.25	2.27	0.02	0.57	0.59	—	2,360	2,360	0.12	0.10	2.32	2,395
Area	18.8	18.7	0.20	21.3	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	56.9	56.9	< 0.005	< 0.005	—	57.1
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.02	0.02	0.04	0.32	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	63.4	63.4	< 0.005	< 0.005	0.00	63.6
Total	20.4	20.1	2.50	31.2	0.03	0.14	2.25	2.39	0.13	0.57	0.70	368	5,512	5,880	37.5	0.29	7.54	6,911
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.27	0.24	0.17	1.63	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	391	391	0.02	0.02	0.38	396
Area	3.43	3.41	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45
Energy	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	484	484	0.06	0.01	—	487
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5
Waste	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Stationary	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	3.73	3.68	0.46	5.69	0.01	0.02	0.41	0.44	0.02	0.10	0.13	60.9	913	973	6.20	0.05	1.25	1,144

3. Construction Emissions Details

3.1. Demolition (2029) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	2.13	5.00	0.01	0.01	—	0.01	0.01	—	0.01	—	716	716	0.03	0.01	—	718
Demolition	—	—	—	—	—	—	7.63	7.63	—	1.16	1.16	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.12	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.2	39.2	< 0.005	< 0.005	—	39.4
Demolition	—	—	—	—	—	—	0.42	0.42	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.49	6.49	< 0.005	< 0.005	—	6.52
Demolition	—	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.99	6.99	< 0.005	< 0.005	0.01	7.34
Hauling	0.16	0.10	2.10	1.52	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	338	338	0.06	0.05	0.20	356
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40
Hauling	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.07
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.08	3.08	< 0.005	< 0.005	< 0.005	3.25

3.3. Site Preparation (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,959	1,959	0.08	0.02	—	1,965
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.7	53.7	< 0.005	< 0.005	—	53.8
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.88	8.88	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.99	6.99	< 0.005	< 0.005	0.01	7.34
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.40	3.04	22.7	0.04	0.08	—	0.08	0.08	—	0.08	—	4,083	4,083	0.17	0.03	—	4,097
Dust From Material Movement	—	—	—	—	—	—	5.31	5.31	—	2.65	2.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.40	0.40	3.04	22.7	0.04	0.08	—	0.08	0.08	—	0.08	—	4,083	4,083	0.17	0.03	—	4,097
Dust From Material Movement	—	—	—	—	—	—	5.31	5.31	—	2.65	2.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.25	1.87	< 0.005	0.01	—	0.01	0.01	—	0.01	—	336	336	0.01	< 0.005	—	337
Dust From Material Movement	—	—	—	—	—	—	0.44	0.44	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	55.6	55.6	< 0.005	< 0.005	—	55.7
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.99	6.99	< 0.005	< 0.005	0.01	7.34

Hauling	0.16	0.10	2.07	1.50	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	333	333	0.06	0.05	0.20	351
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.06	7.06	< 0.005	< 0.005	< 0.005	7.41
Hauling	0.15	0.08	2.18	1.55	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	337	337	0.06	0.05	0.01	355
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.58	0.58	< 0.005	< 0.005	< 0.005	0.61
Hauling	0.01	0.01	0.17	0.12	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	27.5	27.5	< 0.005	< 0.005	0.01	29.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.56	4.56	< 0.005	< 0.005	< 0.005	4.80

3.7. Building Construction (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.26	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	93.7	93.7	< 0.005	< 0.005	—	94.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.05	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.5	15.5	< 0.005	< 0.005	—	15.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.06	0.04	0.87	0.63	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	145	145	0.02	0.02	< 0.005	152
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.2	15.2	< 0.005	< 0.005	0.01	16.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.52	2.52	< 0.005	< 0.005	< 0.005	2.64
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	1.49	3.74	0.01	0.01	—	0.01	0.01	—	0.01	—	531	531	0.02	< 0.005	—	533
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.27	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	87.9	87.9	< 0.005	< 0.005	—	88.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.06	0.04	0.82	0.59	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	140	140	0.02	0.02	0.10	147
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.06	0.04	0.86	0.62	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	142	142	0.02	0.02	< 0.005	149
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.03	0.02	0.50	0.36	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	84.4	84.4	0.01	0.01	0.03	88.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.0	14.0	< 0.005	< 0.005	< 0.005	14.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2030) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.08	0.08	1.22	4.72	0.01	0.01	—	0.01	0.01	—	0.01	—	673	673	0.03	0.01	—	675
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.07	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.9	36.9	< 0.005	< 0.005	—	37.0
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.10	6.10	< 0.005	< 0.005	—	6.12
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	< 0.005	7.27
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.07
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	12.5	12.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	2.29	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.84	6.84	< 0.005	< 0.005	< 0.005	7.17
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	< 0.005	7.27
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.26	1.26	< 0.005	< 0.005	< 0.005	1.33
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.22
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching (2029) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.14	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	30.0	30.0	< 0.005	< 0.005	—	30.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.96	4.96	< 0.005	< 0.005	—	4.98
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.06	7.06	< 0.005	< 0.005	< 0.005	7.41
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.78
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Trenching (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.44	4.44	< 0.005	< 0.005	—	4.46
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.74	0.74	< 0.005	< 0.005	—	0.74
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	< 0.005	7.27
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.49	1.38	0.84	9.44	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,452	2,452	0.11	0.09	5.37	2,488
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.49	1.38	0.84	9.44	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,452	2,452	0.11	0.09	5.37	2,488
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.47	1.35	0.92	8.96	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,344	2,344	0.12	0.10	0.14	2,377
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.47	1.35	0.92	8.96	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,344	2,344	0.12	0.10	0.14	2,377
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.27	0.24	0.17	1.63	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	391	391	0.02	0.02	0.38	396
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

City Park	0.00	0.00	0.00	0.00	0.00	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	0.27	0.24	0.17	1.63	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	391	391	0.02	0.02	0.38	396

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.04	< 0.005	—	201
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.04	< 0.005	—	201

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	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	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme nts High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	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	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	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	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consum er Product s	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.94	3.73	0.40	43.3	< 0.005	0.02	—	0.02	0.01	—	0.01	—	115	115	< 0.005	< 0.005	—	116
Total	20.8	20.6	0.40	43.3	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	115	115	< 0.005	< 0.005	—	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	16.9	16.9	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	2.85	2.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.35	0.34	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.45
Total	3.43	3.41	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	0.00	—	0.09
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	0.00	—	0.09
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	< 0.005	0.00	< 0.005	< 0.005	0.00	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5

Total	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. 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)

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	8/13/2029	9/10/2029	5.00	20.0	—
Site Preparation	Site Preparation	9/11/2029	9/25/2029	5.00	10.0	—
Grading	Grading	9/26/2029	11/7/2029	5.00	30.0	—
Building Construction	Building Construction	11/8/2029	11/2/2030	5.00	257	—
Paving	Paving	11/3/2030	11/30/2030	5.00	20.0	—
Architectural Coating	Architectural Coating	9/20/2030	12/23/2030	5.00	67.0	—
Trenching	Trenching	11/8/2029	1/8/2030	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	7.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	2.00	7.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	7.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37

Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	12.0	LDA,LDT1,LDT2
Demolition	Vendor	4.00	0.25	HHDT,MHDT
Demolition	Hauling	140	0.25	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	0.25	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	0.25	HHDT,MHDT
Grading	Hauling	138	0.25	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	82.0	0.25	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	0.25	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	0.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	0.25	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	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	1,477,440	492,480	0.00	0.00	1,634

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	11,043	—
Site Preparation	—	—	5.00	0.00	—
Grading	12,201	20,900	140	0.00	—
Paving	0.00	0.00	0.00	0.00	0.63

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%
Other Asphalt Surfaces	0.63	100%
City Park	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2029	27,456	589	0.03	< 0.005
2030	27,456	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
Apartments High Rise	420	420	420	153,455	3,195	3,195	3,195	1,166,260
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	760
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1477440	492,480	0.00	0.00	1,634

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments High Rise	2,577,061	170	0.0330	0.0040	5,379,612
Other Asphalt Surfaces	0.00	170	0.0330	0.0040	0.00
City Park	0.00	170	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)
Apartments High Rise	33,953,291	740,799
Other Asphalt Surfaces	0.00	0.00
City Park	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	562	—
Other Asphalt Surfaces	0.00	—
City Park	0.05	—

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
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	52.0	530	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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	9.08	annual days of extreme heat
Extreme Precipitation	2.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	4.89	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	46.0

AQ-DPM	78.3
Drinking Water	29.0
Lead Risk Housing	22.5
Pesticides	0.00
Toxic Releases	36.0
Traffic	83.2
Effect Indicators	—
CleanUp Sites	53.4
Groundwater	68.4
Haz Waste Facilities/Generators	37.7
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	38.4
Cardio-vascular	12.7
Low Birth Weights	9.08
Socioeconomic Factor Indicators	—
Education	—
Housing	96.5
Linguistic	—
Poverty	91.8
Unemployment	92.2

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	20.95470294

Employed	9.534197357
Median HI	17.43872706
Education	—
Bachelor's or higher	81.12408572
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	11.04837675
Active commuting	89.42640832
Social	—
2-parent households	99.56371102
Voting	22.66136276
Neighborhood	—
Alcohol availability	85.46131143
Park access	20.23610933
Retail density	97.62607468
Supermarket access	2.399589375
Tree canopy	71.71820865
Housing	—
Homeownership	27.87116643
Housing habitability	26.51097138
Low-inc homeowner severe housing cost burden	97.99820352
Low-inc renter severe housing cost burden	0.346464776
Uncrowded housing	50.16040036
Health Outcomes	—
Insured adults	68.95932247
Arthritis	97.1
Asthma ER Admissions	70.5

High Blood Pressure	98.1
Cancer (excluding skin)	89.7
Asthma	21.6
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	97.2
Life Expectancy at Birth	60.4
Cognitively Disabled	72.6
Physically Disabled	83.0
Heart Attack ER Admissions	96.5
Mental Health Not Good	34.8
Chronic Kidney Disease	95.6
Obesity	88.9
Pedestrian Injuries	19.6
Physical Health Not Good	81.0
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.6
Current Smoker	47.6
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	47.1
SLR Inundation Area	0.0
Children	96.5
Elderly	59.3
English Speaking	55.7
Foreign-born	45.8
Outdoor Workers	77.3

Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	96.7
Traffic Access	61.3
Other Indices	—
Hardship	53.0
Other Decision Support	—
2016 Voting	37.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	47.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Construction: Construction Phases	Based on applicant provided information.
Characteristics: Utility Information	Phase 1 is within the on-campus grid getting electricity from the cogen.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	Based on LLG traffic study.
Operations: Hearths	No stoves or fireplaces.
Operations: Generators + Pumps EF	Tier 4 Final
Operations: Water and Waste Water	Based on applicant provided information.
Construction: Dust From Material Movement	Based on applicant provided information.
Operations: Emergency Generators and Fire Pumps	Based on applicant provided information
Construction: Electricity	Estimated electricity use.

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 10/21/2024
** File: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU Evolve
Phase 4\SDSU Evolve Phase 1.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL "SDSU Evolve Phase 1.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC
** PREFIX
** Length of Side = 8.60
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 10
** 492675.959, 3626656.717, 122.26, 3.40, 4.00
** 492704.521, 3626670.998, 123.01, 3.40, 4.00
** 492699.481, 3626682.759, 122.63, 3.40, 4.00

```

** 492675.119, 3626670.158, 123.11, 3.40, 4.00
 ** 492675.119, 3626682.759, 121.82, 3.40, 4.00
 ** 492690.240, 3626689.479, 120.79, 3.40, 4.00
 ** 492654.958, 3626721.401, 116.00, 3.40, 4.00
 ** 492637.317, 3626752.483, 114.60, 3.40, 4.00
 ** 492656.638, 3626752.483, 116.77, 3.40, 4.00
 ** 492659.998, 3626728.962, 116.90, 3.40, 4.00
 **

LOCATION L0000001	VOLUME	492679.805	3626658.640	123.26
LOCATION L0000002	VOLUME	492687.498	3626662.486	123.22
LOCATION L0000003	VOLUME	492695.190	3626666.332	123.13
LOCATION L0000004	VOLUME	492702.882	3626670.178	123.00
LOCATION L0000005	VOLUME	492701.856	3626677.218	122.61
LOCATION L0000006	VOLUME	492697.197	3626681.577	122.31
LOCATION L0000007	VOLUME	492689.558	3626677.626	122.52
LOCATION L0000008	VOLUME	492681.920	3626673.675	122.82
LOCATION L0000009	VOLUME	492675.119	3626671.102	122.37
LOCATION L0000010	VOLUME	492675.119	3626679.702	121.61
LOCATION L0000011	VOLUME	492680.185	3626685.010	121.82
LOCATION L0000012	VOLUME	492688.044	3626688.503	121.68
LOCATION L0000013	VOLUME	492685.646	3626693.636	121.22
LOCATION L0000014	VOLUME	492679.269	3626699.406	120.53
LOCATION L0000015	VOLUME	492672.891	3626705.176	119.31
LOCATION L0000016	VOLUME	492666.514	3626710.946	117.99
LOCATION L0000017	VOLUME	492660.137	3626716.716	116.94
LOCATION L0000018	VOLUME	492654.160	3626722.807	116.28
LOCATION L0000019	VOLUME	492649.915	3626730.286	116.14
LOCATION L0000020	VOLUME	492645.670	3626737.765	115.23
LOCATION L0000021	VOLUME	492641.425	3626745.245	114.92
LOCATION L0000022	VOLUME	492637.593	3626752.483	115.34
LOCATION L0000023	VOLUME	492646.193	3626752.483	116.21
LOCATION L0000024	VOLUME	492654.793	3626752.483	116.94
LOCATION L0000025	VOLUME	492657.594	3626745.796	117.32
LOCATION L0000026	VOLUME	492658.810	3626737.283	117.77

** End of LINE VOLUME Source ID = SLINE1

LOCATION STCK1	POINT	492847.720	3626536.360	124.220

** DESCRSRC Phase 1A Generator

LOCATION STCK2	POINT	492991.100	3625839.681	141.860

** DESCRSRC Phase 1B Generator

LOCATION STCK3	POINT	492813.583	3626627.676	123.610

** DESCRSRC Phase 2 Generator

LOCATION STCK4	POINT	492774.272	3626745.821	115.890

** DESCRSRC Phase 3 Generator

** Source Parameters **

** LINE VOLUME Source ID = SLINE1

SRCPARAM L0000001	0.0384615385	3.40	4.00	3.16
SRCPARAM L0000002	0.0384615385	3.40	4.00	3.16
SRCPARAM L0000003	0.0384615385	3.40	4.00	3.16
SRCPARAM L0000004	0.0384615385	3.40	4.00	3.16
SRCPARAM L0000005	0.0384615385	3.40	4.00	3.16

SRCPARAM	L0000006	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000007	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000008	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000009	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000010	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000011	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000012	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000013	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000014	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000015	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000016	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000017	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000018	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000019	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000020	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000021	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000022	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000023	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000024	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000025	0.0384615385	3.40	4.00	3.16
SRCPARAM	L0000026	0.0384615385	3.40	4.00	3.16

SRCPARAM	STCK1	1.0	2.499	772.594	60.63624912892	0.13463016
SRCPARAM	STCK2	1.0	2.499	772.594	60.63624912892	0.13463016
SRCPARAM	STCK3	1.0	2.316	699.261	42.5980161814675	0.2033016
SRCPARAM	STCK4	1.0	2.316	699.261	42.5980161814675	0.2033016

BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	34.14	34.14	34.14	34.14	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	34.14	28.65	34.14	34.14	28.65

BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDWID	STCK1	55.84	65.58	73.32	78.84	81.95	83.80
BUILDWID	STCK1	84.85	84.05	83.01	79.44	73.46	65.25
BUILDWID	STCK1	55.05	47.77	64.77	73.28	83.93	44.41
BUILDWID	STCK1	55.84	65.58	73.32	78.84	81.95	83.80
BUILDWID	STCK1	84.85	84.05	83.01	79.44	73.46	65.25
BUILDWID	STCK1	55.05	47.77	30.92	73.28	83.93	44.41
BUILDWID	STCK2	57.08	60.17	61.43	60.83	58.38	54.16
BUILDWID	STCK2	48.29	40.95	32.88	41.34	48.91	54.99
BUILDWID	STCK2	59.40	62.01	62.73	61.55	58.50	53.67
BUILDWID	STCK2	57.08	60.17	61.43	60.83	58.38	54.16
BUILDWID	STCK2	48.29	40.95	32.88	41.34	48.91	54.99
BUILDWID	STCK2	59.40	62.01	62.73	61.55	58.50	53.67
BUILDWID	STCK3	54.33	65.08	73.86	80.40	84.49	87.86
BUILDWID	STCK3	89.50	90.52	89.65	86.05	79.84	71.20
BUILDWID	STCK3	60.40	47.77	64.77	73.28	83.93	41.92
BUILDWID	STCK3	54.33	65.08	73.86	80.40	84.49	87.86
BUILDWID	STCK3	89.50	90.52	89.65	86.05	79.84	71.20
BUILDWID	STCK3	60.40	47.77	64.77	73.28	83.93	41.92
BUILDWID	STCK4	131.06	149.20	165.65	177.07	183.10	185.41
BUILDWID	STCK4	183.04	175.11	161.86	143.69	127.55	109.34
BUILDWID	STCK4	91.56	73.91	64.77	73.28	83.93	41.92
BUILDWID	STCK4	131.06	149.20	165.65	177.07	183.10	185.41
BUILDWID	STCK4	183.04	175.11	161.86	143.69	127.55	109.34
BUILDWID	STCK4	91.56	73.91	64.77	73.28	83.93	41.92
BUILDLN	STCK1	79.44	73.46	65.25	55.05	43.18	30.92
BUILDLN	STCK1	25.51	32.34	44.41	55.84	65.58	73.32
BUILDLN	STCK1	78.84	84.49	185.41	183.04	175.11	83.01
BUILDLN	STCK1	79.44	73.46	65.25	55.05	43.18	30.92
BUILDLN	STCK1	25.51	32.34	44.41	55.84	65.58	73.32
BUILDLN	STCK1	78.84	84.49	83.80	183.04	175.11	83.01
BUILDLN	STCK2	41.34	48.91	54.99	59.40	62.01	62.73
BUILDLN	STCK2	61.55	58.50	53.67	57.08	60.17	61.43
BUILDLN	STCK2	60.83	58.38	54.16	48.29	40.95	32.88
BUILDLN	STCK2	41.34	48.91	54.99	59.40	62.01	62.73
BUILDLN	STCK2	61.55	58.50	53.67	57.08	60.17	61.43
BUILDLN	STCK2	60.83	58.38	54.16	48.29	40.95	32.88
BUILDLN	STCK3	86.05	79.84	71.20	60.40	47.77	33.68
BUILDLN	STCK3	25.62	28.24	41.92	54.33	65.08	73.86

BUILDLN	STCK3	80.40	84.49	185.41	183.04	175.11	89.65
BUILDLN	STCK3	86.05	79.84	71.20	60.40	47.77	33.68
BUILDLN	STCK3	25.62	28.24	41.92	54.33	65.08	73.86
BUILDLN	STCK3	80.40	84.49	185.41	183.04	175.11	89.65
BUILDLN	STCK4	143.69	127.55	109.34	91.56	73.91	64.77
BUILDLN	STCK4	73.28	83.93	109.15	131.06	149.20	165.65
BUILDLN	STCK4	177.07	183.10	185.41	183.04	175.11	89.65
BUILDLN	STCK4	143.69	127.55	109.34	91.56	73.91	64.77
BUILDLN	STCK4	73.28	83.93	109.15	131.06	149.20	165.65
BUILDLN	STCK4	177.07	183.10	185.41	183.04	175.11	89.65
XBADJ	STCK1	-34.99	-35.86	-35.65	-34.34	-32.00	-28.68
XBADJ	STCK1	-25.10	-33.78	-41.42	-47.81	-52.74	-56.07
XBADJ	STCK1	-57.70	-152.59	-254.75	-250.56	-238.75	-49.95
XBADJ	STCK1	-44.45	-37.60	-29.60	-20.71	-11.19	-2.24
XBADJ	STCK1	-0.41	1.44	-2.99	-8.04	-12.84	-17.25
XBADJ	STCK1	-21.14	68.10	-26.89	67.51	63.64	-33.06
XBADJ	STCK2	-21.67	-20.33	-18.37	-15.85	-12.86	-9.47
XBADJ	STCK2	-5.79	-1.94	1.97	0.66	-1.07	-2.77
XBADJ	STCK2	-4.39	-5.87	-7.17	-8.26	-9.09	-10.16
XBADJ	STCK2	-19.67	-28.58	-36.62	-43.55	-49.15	-53.27
XBADJ	STCK2	-55.76	-56.56	-55.64	-57.74	-59.10	-58.66
XBADJ	STCK2	-56.45	-52.51	-46.99	-40.03	-31.86	-22.72
XBADJ	STCK3	-33.74	-32.96	-31.19	-28.46	-24.87	-20.53
XBADJ	STCK3	-22.61	-24.03	-33.43	-41.81	-48.92	-54.54
XBADJ	STCK3	-58.51	-60.69	-158.60	-153.07	-142.89	-56.16
XBADJ	STCK3	-52.31	-46.88	-40.02	-31.94	-22.89	-13.15
XBADJ	STCK3	-3.01	-4.20	-8.49	-12.52	-16.17	-19.32
XBADJ	STCK3	-21.89	-23.80	-26.82	-29.98	-32.22	-33.49
XBADJ	STCK4	-143.26	-130.54	-113.85	-93.70	-70.70	-56.32
XBADJ	STCK4	-59.83	-61.52	-61.35	-59.31	-55.69	-53.21
XBADJ	STCK4	-49.12	-43.54	-36.63	-28.61	-19.72	61.98
XBADJ	STCK4	-0.43	2.99	4.50	2.14	-3.21	-8.46
XBADJ	STCK4	-13.45	-22.40	-47.80	-71.75	-93.51	-112.44
XBADJ	STCK4	-127.94	-139.56	-148.79	-154.44	-155.39	-151.63
YBADJ	STCK1	19.89	19.95	19.41	18.28	16.60	15.01
YBADJ	STCK1	13.85	11.91	8.45	4.73	0.87	-3.02
YBADJ	STCK1	-6.82	31.56	17.19	-20.57	-55.52	-19.22
YBADJ	STCK1	-19.89	-19.95	-19.41	-18.28	-16.60	-15.01
YBADJ	STCK1	-13.85	-11.91	-8.45	-4.73	-0.87	3.02
YBADJ	STCK1	6.82	-31.56	13.22	20.57	55.52	19.22
YBADJ	STCK2	-29.20	-29.01	-27.94	-26.03	-23.32	-19.91
YBADJ	STCK2	-15.89	-11.38	-6.28	-1.00	4.12	9.12
YBADJ	STCK2	13.85	18.15	21.90	24.98	27.31	28.81

YBADJ	STCK2	29.20	29.01	27.94	26.03	23.32	19.91
YBADJ	STCK2	15.89	11.38	6.28	1.00	-4.12	-9.12
YBADJ	STCK2	-13.85	-18.15	-21.90	-24.98	-27.31	-28.81
YBADJ	STCK3	14.65	16.38	17.61	18.31	18.45	17.11
YBADJ	STCK3	14.78	13.04	11.34	9.29	6.96	4.41
YBADJ	STCK3	1.74	-0.99	1.10	-19.72	-37.76	-12.47
YBADJ	STCK3	-14.65	-16.38	-17.61	-18.31	-18.45	-17.11
YBADJ	STCK3	-14.78	-13.04	-11.34	-9.29	-6.96	-4.41
YBADJ	STCK3	-1.74	0.99	-1.10	19.72	37.76	12.47
YBADJ	STCK4	-6.22	-18.91	-29.61	-39.41	-48.01	-56.08
YBADJ	STCK4	-62.91	-67.84	-70.70	-71.41	-66.76	-59.17
YBADJ	STCK4	-47.92	-33.75	-23.93	-23.19	-19.56	26.84
YBADJ	STCK4	6.22	18.91	29.61	39.41	48.01	56.08
YBADJ	STCK4	62.91	67.84	70.70	71.41	66.76	59.17
YBADJ	STCK4	47.92	33.75	23.93	23.19	19.56	-26.84

SRCGROUP SLINE1 L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
 SRCGROUP SLINE1 L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
 SRCGROUP SLINE1 L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
 SRCGROUP SLINE1 L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
 SRCGROUP SLINE1 L0000025 L0000026
 SRCGROUP STCK1 STCK1
 SRCGROUP STCK2 STCK2
 SRCGROUP STCK3 STCK3
 SRCGROUP STCK4 STCK4
 SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "SDSU Evolve Phase 1.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE ..\KVR_2020_2022_v23132.SFC

PROFFILE ..\KVR_2020_2022_v23132.PFL

SURFDATA 93107 2020

UAIRDATA 3190 2020

SITEDATA 1016 2020

PROFBASE 132.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

** Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST "SDSU Evolve Phase 1.AD\01H1GALL.PLT" 31

PLOTFILE 1 SLINE1 1ST "SDSU Evolve Phase 1.AD\01H1G001.PLT" 32

PLOTFILE 1 STCK1 1ST "SDSU Evolve Phase 1.AD\01H1G002.PLT" 33

PLOTFILE 1 STCK2 1ST "SDSU Evolve Phase 1.AD\01H1G003.PLT" 34

PLOTFILE 1 STCK3 1ST "SDSU Evolve Phase 1.AD\01H1G004.PLT" 35

PLOTFILE 1 STCK4 1ST "SDSU Evolve Phase 1.AD\01H1G005.PLT" 36

PLOTFILE PERIOD ALL "SDSU Evolve Phase 1.AD\PE00GALL.PLT" 37

PLOTFILE PERIOD SLINE1 "SDSU Evolve Phase 1.AD\PE00G001.PLT" 38

PLOTFILE PERIOD STCK1 "SDSU Evolve Phase 1.AD\PE00G002.PLT" 39

PLOTFILE PERIOD STCK2 "SDSU Evolve Phase 1.AD\PE00G003.PLT" 40

PLOTFILE PERIOD STCK3 "SDSU Evolve Phase 1.AD\PE00G004.PLT" 41

PLOTFILE PERIOD STCK4 "SDSU Evolve Phase 1.AD\PE00G005.PLT" 42

SUMMFILE "SDSU Evolve Phase 1.sum"

OU FINISHED

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

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

A Total of 0 Fatal Error Message(s)

A Total of 3 Warning Message(s)

A Total of 0 Informational Message(s)

***** FATAL ERROR MESSAGES *****

*** NONE ***

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

SO W320 121 PPARM: Input Parameter May Be Out-of-Range for Parameter
VS

SO W320 122 PPARM: Input Parameter May Be Out-of-Range for Parameter
VS

MX W403 300 PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

*** SETUP Finishes Successfully ***

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 *** ***
*** 14:43:40

PAGE 1
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses RURAL Dispersion Only.
- * CCVR_Sub - Meteorological data includes CCVR substitutions
- * TEMP_Sub - Meteorological data includes TEMP substitutions
- * Model Assumes No FLAGPOLE Receptor Heights.
- * The User Specified a Pollutant Type of: PM₁₀

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

**This Run Includes: 30 Source(s); 6 Source Group(s); and 530
Receptor(s)

with: 4 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 26 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

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

**The AERMET Input Meteorological Data Version Date: 23132

**Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)

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

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

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

Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 132.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.7 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: SDSU Evolve Phase 1.err

**File for Summary of Results: SDSU Evolve Phase 1.sum

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 2

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** POINT SOURCE DATA ***

STACK	STACK	NUMBER	EMISSION RATE			BASE	STACK	STACK	
SOURCE	STACK	BLDG	URBAN	CAP/	EMIS RATE				
		PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	TEMP.	EXIT

VEL.	DIAMETER	EXISTS	SOURCE	HOR	SCALAR	(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)
ID		CATS.								
(M/SEC)	(METERS)				VARY BY					

STCK1		0	0.10000E+01	492847.7	3626536.4	124.2	2.50	772.59
60.64	0.13	YES	NO NO					
STCK2		0	0.10000E+01	492991.1	3625839.7	141.9	2.50	772.59
60.64	0.13	YES	NO NO					
STCK3		0	0.10000E+01	492813.6	3626627.7	123.6	2.32	699.26
42.60	0.20	YES	NO NO					
STCK4		0	0.10000E+01	492774.3	3626745.8	115.9	2.32	699.26
42.60	0.20	YES	NO NO					

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 3

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** VOLUME SOURCE DATA ***

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

L0000001		0	0.38462E-01	492679.8	3626658.6	123.3	3.40	4.00
3.16	NO		NO					
L0000002		0	0.38462E-01	492687.5	3626662.5	123.2	3.40	4.00
3.16	NO		NO					
L0000003		0	0.38462E-01	492695.2	3626666.3	123.1	3.40	4.00
3.16	NO		NO					
L0000004		0	0.38462E-01	492702.9	3626670.2	123.0	3.40	4.00
3.16	NO		NO					
L0000005		0	0.38462E-01	492701.9	3626677.2	122.6	3.40	4.00
3.16	NO		NO					
L0000006		0	0.38462E-01	492697.2	3626681.6	122.3	3.40	4.00
3.16	NO		NO					
L0000007		0	0.38462E-01	492689.6	3626677.6	122.5	3.40	4.00
3.16	NO		NO					
L0000008		0	0.38462E-01	492681.9	3626673.7	122.8	3.40	4.00
3.16	NO		NO					

L0000009	0	0.38462E-01	492675.1	3626671.1	122.4	3.40	4.00
3.16 NO		NO					
L0000010	0	0.38462E-01	492675.1	3626679.7	121.6	3.40	4.00
3.16 NO		NO					
L0000011	0	0.38462E-01	492680.2	3626685.0	121.8	3.40	4.00
3.16 NO		NO					
L0000012	0	0.38462E-01	492688.0	3626688.5	121.7	3.40	4.00
3.16 NO		NO					
L0000013	0	0.38462E-01	492685.6	3626693.6	121.2	3.40	4.00
3.16 NO		NO					
L0000014	0	0.38462E-01	492679.3	3626699.4	120.5	3.40	4.00
3.16 NO		NO					
L0000015	0	0.38462E-01	492672.9	3626705.2	119.3	3.40	4.00
3.16 NO		NO					
L0000016	0	0.38462E-01	492666.5	3626710.9	118.0	3.40	4.00
3.16 NO		NO					
L0000017	0	0.38462E-01	492660.1	3626716.7	116.9	3.40	4.00
3.16 NO		NO					
L0000018	0	0.38462E-01	492654.2	3626722.8	116.3	3.40	4.00
3.16 NO		NO					
L0000019	0	0.38462E-01	492649.9	3626730.3	116.1	3.40	4.00
3.16 NO		NO					
L0000020	0	0.38462E-01	492645.7	3626737.8	115.2	3.40	4.00
3.16 NO		NO					
L0000021	0	0.38462E-01	492641.4	3626745.2	114.9	3.40	4.00
3.16 NO		NO					
L0000022	0	0.38462E-01	492637.6	3626752.5	115.3	3.40	4.00
3.16 NO		NO					
L0000023	0	0.38462E-01	492646.2	3626752.5	116.2	3.40	4.00
3.16 NO		NO					
L0000024	0	0.38462E-01	492654.8	3626752.5	116.9	3.40	4.00
3.16 NO		NO					
L0000025	0	0.38462E-01	492657.6	3626745.8	117.3	3.40	4.00
3.16 NO		NO					
L0000026	0	0.38462E-01	492658.8	3626737.3	117.8	3.40	4.00
3.16 NO		NO					

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 4

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

5	28.7,	82.0,	43.2,	-32.0,	16.6,	6	28.7,	83.8,	30.9,	-28.7,
15.0,										
7	28.7,	84.8,	25.5,	-25.1,	13.9,	8	28.7,	84.0,	32.3,	-33.8,
11.9,										
9	28.7,	83.0,	44.4,	-41.4,	8.5,	10	28.7,	79.4,	55.8,	-47.8,
4.7,										
11	28.7,	73.5,	65.6,	-52.7,	0.9,	12	28.7,	65.2,	73.3,	-56.1,
-3.0,										
13	28.7,	55.0,	78.8,	-57.7,	-6.8,	14	34.1,	47.8,	84.5,	-152.6,
31.6,										
15	34.1,	64.8,	185.4,	-254.8,	17.2,	16	34.1,	73.3,	183.0,	-250.6,
-20.6,										
17	34.1,	83.9,	175.1,	-238.8,	-55.5,	18	28.7,	44.4,	83.0,	-49.9,
-19.2,										
19	28.7,	55.8,	79.4,	-44.4,	-19.9,	20	28.7,	65.6,	73.5,	-37.6,
-19.9,										
21	28.7,	73.3,	65.2,	-29.6,	-19.4,	22	28.7,	78.8,	55.0,	-20.7,
-18.3,										
23	28.7,	82.0,	43.2,	-11.2,	-16.6,	24	28.7,	83.8,	30.9,	-2.2,
-15.0,										
25	28.7,	84.8,	25.5,	-0.4,	-13.9,	26	28.7,	84.0,	32.3,	1.4,
-11.9,										
27	28.7,	83.0,	44.4,	-3.0,	-8.5,	28	28.7,	79.4,	55.8,	-8.0,
-4.7,										
29	28.7,	73.5,	65.6,	-12.8,	-0.9,	30	28.7,	65.2,	73.3,	-17.2,
3.0,										
31	28.7,	55.0,	78.8,	-21.1,	6.8,	32	34.1,	47.8,	84.5,	68.1,
-31.6,										
33	28.7,	30.9,	83.8,	-26.9,	13.2,	34	34.1,	73.3,	183.0,	67.5,
20.6,										
35	34.1,	83.9,	175.1,	63.6,	55.5,	36	28.7,	44.4,	83.0,	-33.1,
19.2,										

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
YADJ										
1	28.0,	57.1,	41.3,	-21.7,	-29.2,	2	28.0,	60.2,	48.9,	-20.3,
-29.0,										
3	28.0,	61.4,	55.0,	-18.4,	-27.9,	4	28.0,	60.8,	59.4,	-15.9,
-26.0,										
5	28.0,	58.4,	62.0,	-12.9,	-23.3,	6	28.0,	54.2,	62.7,	-9.5,
-19.9,										
7	28.0,	48.3,	61.5,	-5.8,	-15.9,	8	28.0,	40.9,	58.5,	-1.9,
-11.4,										
9	28.0,	32.9,	53.7,	2.0,	-6.3,	10	28.0,	41.3,	57.1,	0.7,
-1.0,										
11	28.0,	48.9,	60.2,	-1.1,	4.1,	12	28.0,	55.0,	61.4,	-2.8,
9.1,										
13	28.0,	59.4,	60.8,	-4.4,	13.9,	14	28.0,	62.0,	58.4,	-5.9,

18.2, 15 25.0, 17 28.8, 19 29.0, 21 26.0, 23 19.9, 25 11.4, 27 1.0, 29 -9.1, 31 -18.2, 33 -25.0, 35 -28.8,	28.0,	62.7,	54.2,	-7.2,	21.9,	16	28.0,	61.5,	48.3,	-8.3,
	28.0,	58.5,	40.9,	-9.1,	27.3,	18	28.0,	53.7,	32.9,	-10.2,
	28.0,	57.1,	41.3,	-19.7,	29.2,	20	28.0,	60.2,	48.9,	-28.6,
	28.0,	61.4,	55.0,	-36.6,	27.9,	22	28.0,	60.8,	59.4,	-43.5,
	28.0,	58.4,	62.0,	-49.1,	23.3,	24	28.0,	54.2,	62.7,	-53.3,
	28.0,	48.3,	61.5,	-55.8,	15.9,	26	28.0,	40.9,	58.5,	-56.6,
	28.0,	32.9,	53.7,	-55.6,	6.3,	28	28.0,	41.3,	57.1,	-57.7,
	28.0,	48.9,	60.2,	-59.1,	-4.1,	30	28.0,	55.0,	61.4,	-58.7,
	28.0,	59.4,	60.8,	-56.4,	-13.9,	32	28.0,	62.0,	58.4,	-52.5,
	28.0,	62.7,	54.2,	-47.0,	-21.9,	34	28.0,	61.5,	48.3,	-40.0,
	28.0,	58.5,	40.9,	-31.9,	-27.3,	36	28.0,	53.7,	32.9,	-22.7,

SOURCE ID: STCK3

[illegible]

23	34.1,	84.5,	47.8,	-22.9,	-18.4,	24	34.1,	87.9,	33.7,	-13.2,
-17.1,										
25	34.1,	89.5,	25.6,	-3.0,	-14.8,	26	34.1,	90.5,	28.2,	-4.2,
-13.0,										
27	34.1,	89.6,	41.9,	-8.5,	-11.3,	28	34.1,	86.0,	54.3,	-12.5,
-9.3,										
29	34.1,	79.8,	65.1,	-16.2,	-7.0,	30	34.1,	71.2,	73.9,	-19.3,
-4.4,										
31	34.1,	60.4,	80.4,	-21.9,	-1.7,	32	34.1,	47.8,	84.5,	-23.8,
1.0,										
33	34.1,	64.8,	185.4,	-26.8,	-1.1,	34	34.1,	73.3,	183.0,	-30.0,
19.7,										
35	34.1,	83.9,	175.1,	-32.2,	37.8,	36	34.1,	41.9,	89.6,	-33.5,
12.5,										

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
YADJ										
1	34.1,	131.1,	143.7,	-143.3,	-6.2,	2	34.1,	149.2,	127.5,	-130.5,
-18.9,										
3	34.1,	165.7,	109.3,	-113.8,	-29.6,	4	34.1,	177.1,	91.6,	-93.7,
-39.4,										
5	34.1,	183.1,	73.9,	-70.7,	-48.0,	6	34.1,	185.4,	64.8,	-56.3,
-56.1,										
7	34.1,	183.0,	73.3,	-59.8,	-62.9,	8	34.1,	175.1,	83.9,	-61.5,
-67.8,										
9	34.1,	161.9,	109.1,	-61.3,	-70.7,	10	34.1,	143.7,	131.1,	-59.3,
-71.4,										
11	34.1,	127.5,	149.2,	-55.7,	-66.8,	12	34.1,	109.3,	165.7,	-53.2,
-59.2,										
13	34.1,	91.6,	177.1,	-49.1,	-47.9,	14	34.1,	73.9,	183.1,	-43.5,
-33.8,										
15	34.1,	64.8,	185.4,	-36.6,	-23.9,	16	34.1,	73.3,	183.0,	-28.6,
-23.2,										
17	34.1,	83.9,	175.1,	-19.7,	-19.6,	18	34.1,	41.9,	89.6,	62.0,
26.8,										
19	34.1,	131.1,	143.7,	-0.4,	6.2,	20	34.1,	149.2,	127.5,	3.0,
18.9,										
21	34.1,	165.7,	109.3,	4.5,	29.6,	22	34.1,	177.1,	91.6,	2.1,
39.4,										
23	34.1,	183.1,	73.9,	-3.2,	48.0,	24	34.1,	185.4,	64.8,	-8.5,
56.1,										
25	34.1,	183.0,	73.3,	-13.5,	62.9,	26	34.1,	175.1,	83.9,	-22.4,
67.8,										
27	34.1,	161.9,	109.1,	-47.8,	70.7,	28	34.1,	143.7,	131.1,	-71.8,
71.4,										
29	34.1,	127.5,	149.2,	-93.5,	66.8,	30	34.1,	109.3,	165.7,	-112.4,
59.2,										
31	34.1,	91.6,	177.1,	-127.9,	47.9,	32	34.1,	73.9,	183.1,	-139.6,

33.8,
33 34.1, 64.8, 185.4, -148.8, 23.9, 34 34.1, 73.3, 183.0, -154.4,
23.2,
35 34.1, 83.9, 175.1, -155.4, 19.6, 36 34.1, 41.9, 89.6, -151.6,
-26.8,

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 *** ***
*** 14:43:40

PAGE 6

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

490879.2, 491073.3, 491267.4, 491461.5, 491655.6, 491849.7, 492043.8,
492237.9, 492432.0, 492626.1,
492820.2, 493014.3, 493208.4, 493402.5, 493596.6, 493790.7, 493984.8,
494178.9, 494373.0, 494567.1,
494761.2,

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

3624590.4, 3624786.2, 3624982.1, 3625177.9, 3625373.8, 3625569.7, 3625765.5,
3625961.4, 3626157.2, 3626353.1,
3626549.0, 3626744.8, 3626940.7, 3627136.5, 3627332.4, 3627528.3, 3627724.1,
3627920.0, 3628115.8, 3628311.7,
3628507.6,

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 *** ***
*** 14:43:40

PAGE 7

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD |

X-COORD (METERS)

(METERS)	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

- - - - -

3628507.56		25.00	43.20	43.10	48.60	67.50
80.10	95.10	99.80	104.90			
3628311.70		34.20	42.30	48.30	58.60	67.70
87.00	93.50	96.80	99.40			
3628115.84		35.30	39.20	49.50	59.30	74.90
90.50	89.90	94.60	98.40			
3627919.98		34.40	39.40	51.20	57.10	81.40
91.30	79.50	97.40	94.00			
3627724.12		29.60	38.00	49.50	69.90	82.20
89.30	62.50	99.00	55.90			
3627528.26		26.30	38.20	56.90	78.80	82.40
81.00	60.00	55.50	92.00			
3627332.40		25.20	36.20	57.80	66.70	68.80
45.50	41.60	85.80	115.00			
3627136.54		23.70	25.40	27.40	29.00	34.00
34.90	34.80	34.80	40.30			
3626940.68		35.80	38.20	39.70	41.60	40.50
45.80	55.20	53.60	49.60			
3626744.82		84.80	99.10	84.90	86.90	68.40
105.30	110.40	113.00	74.40			
3626548.96		89.90	97.80	78.80	108.90	95.30
82.60	127.20	121.30	108.70			
3626353.10		66.40	106.30	107.60	97.70	120.40
84.80	122.30	133.50	133.80			
3626157.24		38.60	71.90	115.10	118.10	120.60
115.70	115.40	127.50	126.90			
3625961.38		53.40	50.50	63.30	86.80	120.70
119.20	100.10	103.40	114.00			
3625765.52		52.20	100.40	87.70	59.60	70.40
76.70	86.10	95.90	121.70			
3625569.66		80.60	94.20	115.10	119.50	106.20
110.80	76.20	86.10	100.00			
3625373.80		73.80	91.40	81.80	120.10	123.20
122.50	106.00	109.80	126.70			
3625177.94		64.10	115.10	113.40	99.90	122.20
121.80	120.30	97.10	128.30			
3624982.08		74.00	113.60	110.50	117.80	119.20
121.10	121.20	106.70	124.00			
3624786.22		109.50	96.90	115.30	117.60	118.70
120.30	120.60	109.90	111.30			
3624590.36		108.30	109.70	105.40	113.00	116.20
118.50	119.60	120.80	117.70			

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***

*** 14:43:40

PAGE 8

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48	
493596.58	493790.68	493984.78	494178.88			

3628507.56	106.80	107.70	93.20	107.90	111.20
118.20	128.90	146.10	192.00		
3628311.70	103.20	106.80	82.70	90.50	112.70
121.70	133.00	155.40	216.90		
3628115.84	100.50	85.20	94.30	121.30	121.10
124.20	138.60	157.00	216.70		
3627919.98	76.70	87.30	82.50	121.70	131.00
130.00	141.30	170.80	228.80		
3627724.12	71.90	122.60	125.30	119.50	108.60
132.70	144.30	164.50	197.70		
3627528.26	112.50	95.30	119.80	130.00	130.40
124.60	139.30	151.20	167.00		
3627332.40	106.20	98.30	119.00	122.00	131.90
136.80	143.30	149.40	146.80		
3627136.54	42.50	42.90	43.20	48.90	81.30
127.20	140.70	140.90	134.10		
3626940.68	48.30	57.70	56.90	63.20	91.90
114.10	125.50	112.20	129.40		
3626744.82	112.00	108.40	100.30	105.10	115.20
91.80	98.50	100.30	105.90		
3626548.96	100.70	125.40	110.00	132.60	132.60
111.90	123.60	119.40	102.90		
3626353.10	133.90	135.30	116.80	134.20	135.40
133.50	133.00	132.60	112.90		
3626157.24	130.90	136.40	133.20	138.60	138.90
131.70	130.10	137.20	139.30		
3625961.38	128.60	139.60	141.20	140.80	139.70
140.00	133.40	140.10	140.40		
3625765.52	116.60	141.00	141.80	140.70	137.00
141.00	143.30	142.70	140.40		
3625569.66	106.70	112.70	139.30	129.90	118.50
142.10	143.30	142.80	142.50		
3625373.80	116.10	136.50	108.00	115.20	114.50
122.80	134.00	143.50	143.10		

3625177.94		114.50	129.90	134.00	125.90	138.00
136.00		143.70	144.90	144.30		
3624982.08		129.20	132.80	140.40	129.60	142.20
144.40		144.30	144.80	143.80		
3624786.22		112.40	130.90	140.80	141.40	143.70
144.90		143.10	143.90	144.70		
3624590.36		128.90	125.80	139.80	146.80	140.40
135.80		136.30	143.60	144.90		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:43:40

PAGE 9

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)				X-COORD (METERS)
		494372.98	494567.08	494761.18
3628507.56		229.10	230.10	216.80
3628311.70		243.40	239.50	220.40
3628115.84		250.70	248.30	231.70
3627919.98		236.60	228.70	231.60
3627724.12		215.30	186.80	220.90
3627528.26		166.80	162.70	199.80
3627332.40		145.10	150.60	186.20
3627136.54		139.60	142.00	153.50
3626940.68		132.20	133.30	137.40
3626744.82		111.80	122.70	128.10
3626548.96		105.00	107.30	108.60
3626353.10		134.50	126.00	130.90
3626157.24		135.10	139.70	118.20
3625961.38		127.30	140.60	124.00
3625765.52		138.10	139.50	135.60
3625569.66		141.30	135.60	133.10
3625373.80		142.50	141.20	141.10
3625177.94		143.10	142.00	141.10
3624982.08		141.00	142.30	135.30
3624786.22		143.90	135.50	135.10
3624590.36		141.60	127.80	138.60

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***

*** 14:43:40

PAGE 10

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58	
491849.68	492043.78	492237.88	492431.98			

3628507.56	126.10	43.20	43.10	88.30	67.50
93.50	95.10	99.80	104.90		
3628311.70	125.30	42.30	49.80	58.60	93.50
93.50	93.50	96.80	99.40		
3628115.84	35.30	45.00	50.40	85.00	90.10
90.50	89.90	94.60	98.40		
3627919.98	34.40	39.40	79.50	89.70	81.40
91.30	100.00	97.40	96.40		
3627724.12	29.60	78.80	80.10	79.70	82.20
89.30	126.80	99.00	251.60		
3627528.26	109.80	79.50	79.50	78.80	82.40
85.80	127.50	127.80	127.80		
3627332.40	111.30	111.30	57.80	66.70	83.00
130.40	134.50	126.80	126.20		
3627136.54	117.50	120.10	131.00	134.50	134.70
134.70	134.70	136.60	136.60		
3626940.68	117.50	120.10	131.00	134.20	134.70
134.70	134.70	136.20	137.40		
3626744.82	111.30	111.30	112.70	118.80	134.20
126.60	126.00	119.90	136.60		
3626548.96	111.30	111.30	119.70	116.10	130.40
134.70	127.20	134.70	134.70		
3626353.10	119.20	109.30	116.30	121.40	120.40
134.70	132.60	133.50	133.80		
3626157.24	121.80	119.20	117.60	118.10	120.60
115.70	131.80	127.50	132.70		
3625961.38	119.80	123.20	123.30	122.50	120.70
119.20	131.80	133.20	128.30		
3625765.52	122.30	112.00	121.80	123.60	123.60
130.40	128.90	124.60	121.70		
3625569.66	115.20	116.40	115.10	121.50	123.60
121.80	128.40	136.50	141.00		
3625373.80	116.50	116.40	123.60	120.10	123.20
122.50	122.60	127.90	126.70		

3625177.94	116.50	115.10	115.20	123.10	122.20
121.80	120.30	129.20	128.30		
3624982.08	116.60	113.60	114.90	117.80	119.20
121.10	121.20	119.10	124.00		
3624786.22	109.50	114.70	115.30	117.60	118.70
120.30	120.60	121.10	125.30		
3624590.36	108.30	109.70	105.40	113.00	116.20
118.50	119.60	120.80	117.70		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 11

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	106.80	107.70	252.50	252.50	252.50
252.50	252.50	252.50	252.50		
3628311.70	103.20	106.80	252.50	252.50	252.50
252.50	252.50	252.50	252.50		
3628115.84	100.50	252.50	252.50	252.50	252.50
252.50	252.50	252.50	252.50		
3627919.98	252.10	252.50	252.50	252.50	252.50
252.50	252.50	252.50	239.10		
3627724.12	252.50	122.60	125.30	252.50	252.50
252.50	252.50	252.50	252.50		
3627528.26	127.80	129.10	127.50	130.00	252.50
252.50	252.50	252.50	252.50		
3627332.40	127.80	127.80	121.40	122.00	239.10
252.50	252.50	252.50	258.90		
3627136.54	252.50	252.50	252.50	258.90	252.50
250.90	244.20	252.50	258.90		
3626940.68	138.70	250.90	252.50	252.50	252.50
244.20	244.20	258.90	258.90		
3626744.82	123.20	125.30	133.70	134.30	132.80
251.40	252.10	258.90	258.90		
3626548.96	136.60	125.40	136.20	132.60	132.60
137.70	133.90	135.10	258.90		
3626353.10	133.90	135.30	137.90	134.20	139.00

135.00	134.90	135.30	140.40			
3626157.24	130.90	136.40	139.20	138.60	138.90	
140.50	130.10	137.20	139.30			
3625961.38	134.70	139.60	141.20	140.80	139.70	
140.00	133.40	140.10	140.40			
3625765.52	141.20	141.00	141.80	140.70	137.00	
141.00	143.30	142.70	140.40			
3625569.66	142.00	142.20	139.30	140.30	143.10	
142.10	143.30	142.80	142.50			
3625373.80	136.60	136.50	141.60	140.10	142.70	
143.80	134.00	143.50	143.10			
3625177.94	136.00	139.40	140.50	140.40	138.00	
143.70	143.70	144.90	144.30			
3624982.08	129.20	132.80	140.40	143.30	142.20	
144.40	144.30	144.80	143.80			
3624786.22	131.30	130.90	140.80	141.40	143.70	
144.90	143.10	143.90	144.70			
3624590.36	128.90	131.00	139.80	146.80	145.70	
137.70	136.30	143.60	144.90			

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 12

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)				X-COORD (METERS)
	494372.98	494567.08	494761.18	
3628507.56	229.10	230.10	232.70	
3628311.70	251.90	241.80	250.40	
3628115.84	250.70	248.30	246.90	
3627919.98	240.20	248.90	231.60	
3627724.12	244.20	258.90	232.50	
3627528.26	258.90	258.90	258.90	
3627332.40	258.90	258.90	258.90	
3627136.54	258.90	258.90	258.90	
3626940.68	258.90	258.90	258.90	
3626744.82	258.90	258.90	258.90	
3626548.96	258.90	258.90	258.90	
3626353.10	134.50	140.20	130.90	
3626157.24	138.10	139.70	140.80	

3625961.38	140.20	140.60	141.00
3625765.52	138.10	139.50	135.60
3625569.66	141.30	135.60	133.10
3625373.80	142.50	141.20	141.10
3625177.94	143.10	142.00	141.10
3624982.08	141.00	142.30	140.70
3624786.22	143.90	142.50	141.10
3624590.36	141.60	142.40	141.20

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 13

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

(492883.2, 3625830.8, 141.7, 141.7, 0.0);	(492919.8,
3625834.6, 142.1, 142.1, 0.0);	
(492955.1, 3625845.5, 142.1, 142.1, 0.0);	(493069.9,
3625832.7, 142.2, 142.2, 0.0);	
(493094.9, 3625832.7, 142.2, 142.2, 0.0);	(493110.9,
3625837.2, 142.1, 142.1, 0.0);	
(493152.0, 3625834.0, 141.9, 141.9, 0.0);	(493166.7,
3625837.9, 141.8, 141.8, 0.0);	
(493187.9, 3625836.6, 141.7, 141.7, 0.0);	(493201.3,
3625836.6, 141.6, 141.6, 0.0);	
(493240.4, 3625836.6, 141.0, 141.0, 0.0);	(492881.3,
3625908.4, 141.6, 141.6, 0.0);	
(492907.0, 3625898.1, 142.3, 142.3, 0.0);	(492901.8,
3625911.6, 141.8, 141.8, 0.0);	
(492928.1, 3625914.8, 141.7, 141.7, 0.0);	(492933.9,
3625898.1, 142.3, 142.3, 0.0);	
(492951.9, 3625908.4, 141.8, 141.8, 0.0);	(492973.7,
3625907.1, 141.3, 141.3, 0.0);	
(492993.5, 3625914.2, 141.0, 141.0, 0.0);	(492996.1,
3625897.5, 141.0, 141.0, 0.0);	
(493016.0, 3625896.8, 141.8, 141.8, 0.0);	(493023.0,
3625912.2, 141.7, 141.7, 0.0);	
(493044.2, 3625907.1, 141.7, 141.7, 0.0);	(493066.7,
3625907.8, 141.0, 141.0, 0.0);	
(493085.2, 3625912.2, 141.4, 141.4, 0.0);	(493087.2,
3625895.6, 141.3, 141.3, 0.0);	
(493109.0, 3625911.6, 141.5, 141.5, 0.0);	(493112.2,
3625897.5, 141.4, 141.4, 0.0);	
(493134.0, 3625902.0, 140.9, 140.9, 0.0);	(492874.3,
3625788.5, 140.9, 140.9, 0.0);	

(492894.1, 3625789.1, 141.3, 141.3,	0.0);	(492910.2,
3625790.4, 141.4, 141.4, 0.0);		
(492930.7, 3625786.5, 141.4, 141.4,	0.0);	(492947.4,
3625791.0, 141.6, 141.6, 0.0);		
(492963.4, 3625787.8, 141.6, 141.6,	0.0);	(492982.6,
3625787.8, 141.6, 141.6, 0.0);		
(493000.0, 3625787.8, 141.7, 141.7,	0.0);	(493021.1,
3625791.0, 141.8, 141.8, 0.0);		
(493036.5, 3625789.1, 141.9, 141.9,	0.0);	(493055.8,
3625789.8, 141.9, 141.9, 0.0);		
(493076.3, 3625787.8, 141.9, 141.9,	0.0);	(493094.9,
3625787.8, 141.9, 141.9, 0.0);		
(493112.8, 3625788.5, 141.8, 141.8,	0.0);	(493129.5,
3625787.2, 141.7, 141.7, 0.0);		
(493148.7, 3625787.2, 141.6, 141.6,	0.0);	(493164.8,
3625790.4, 141.5, 141.5, 0.0);		
(493184.6, 3625789.1, 141.2, 141.2,	0.0);	(493202.0,
3625791.0, 141.1, 141.1, 0.0);		
(493221.2, 3625790.4, 141.0, 141.0,	0.0);	(493238.5,
3625791.0, 140.7, 140.7, 0.0);		
(492780.0, 3626415.0, 129.0, 135.1,	0.0);	(492778.7,
3626388.1, 131.1, 135.1, 0.0);		
(492747.9, 3626386.2, 131.2, 134.8,	0.0);	(492742.2,
3626418.2, 129.7, 129.7, 0.0);		
(492699.2, 3626422.7, 129.8, 129.8,	0.0);	(492697.9,
3626391.9, 131.4, 134.8, 0.0);		
(492678.7, 3626411.8, 131.0, 134.7,	0.0);	(492626.1,
3626426.6, 132.8, 133.6, 0.0);		
(492606.8, 3626435.5, 128.9, 134.1,	0.0);	(492599.2,
3626405.4, 132.5, 132.5, 0.0);		
(492491.2, 3626644.9, 115.1, 116.5,	0.0);	(492517.4,
3626636.7, 113.5, 133.7, 0.0);		
(492521.2, 3626603.4, 117.5, 117.5,	0.0);	(492521.7,
3626582.2, 118.3, 118.3, 0.0);		
(492512.5, 3626553.8, 118.7, 133.7,	0.0);	(492513.5,
3626533.1, 118.0, 133.7, 0.0);		
(492501.0, 3626506.4, 118.3, 133.7,	0.0);	(492490.6,
3626485.7, 120.5, 133.7, 0.0);		
(492479.2, 3626464.4, 122.4, 133.7,	0.0);	(492466.1,
3626447.0, 126.2, 133.2, 0.0);		
(492447.6, 3626418.7, 131.4, 131.4,	0.0);	(492431.8,
3626430.6, 131.2, 131.2, 0.0);		
(492481.9, 3626620.3, 116.3, 134.1,	0.0);	(492482.5,
3626594.2, 117.8, 133.7, 0.0);		
(492479.2, 3626572.9, 118.5, 134.1,	0.0);	(492477.0,
3626546.8, 118.9, 134.1, 0.0);		
(492467.8, 3626523.3, 118.7, 134.4,	0.0);	(492463.9,
3626507.5, 119.3, 134.6, 0.0);		
(492450.9, 3626492.8, 121.3, 134.6,	0.0);	(492427.4,
3626474.8, 126.0, 133.7, 0.0);		

10/21/24

*** AERMET - VERSION 23132 ***

*** 14:43:40

PAGE 15

```
*** MODELOPTs:      RegDFault  CONC  ELEV  RURAL  SigA Data
```

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

DATA ***

Surface file: ..\KVR_2020_2022_v23132.SFC

Met Version: 23132

Profile file: ..\KVR_2020_2022_v23132.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 93107

Name: UNKNOWN

Upper air station no.: 3190

Name: UNKNOWN

Year: 2020

Year: 2020

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							

20	01	01	1	01	-18.2	0.163	-9.000	-9.000	-999.	158.	21.3	0.10	1.21
1.00		2.82	57.	10.0	283.1	10.0							

20 01 01	1 02	-8.1	0.093	-9.000	-9.000	-999.	70.	8.9	0.12	1.21
1.00	2.06	73.	10.0	282.6	10.0					

20 01 01	1 03	-10.2	0.104	-9.000	-9.000	-999.	80.	9.7	0.10	1.21
1.00	2.37	54.	10.0	283.5	10.0					

20 01 01	1 04	-8.0	0.092	-9.000	-9.000	-999.	67.	8.6	0.10	1.21
1.00	2.10	59.	10.0	283.0	10.0					

20 01 01	1 05	-11.2	0.109	-9.000	-9.000	-999.	86.	10.4	0.12	1.21
1.00	2.41	63.	10.0	282.4	10.0					

20	01	01	1	06	-7.4	0.089	-9.000	-9.000	-999.	64.	8.5	0.12	1.21
1.00		1.97	64.		10.0	282.6	10.0						

1	20	01	01	1	07	-7.1	0.087	-9.000	-9.000	-999.	61.	8.3	0.12	1.21
1	00	00	00	1	00	10.0	282.5	10.0						

20	01	01	1	08	-2.1	0.053	-9.000	-9.000	-999.	29.	6.3	0.14	1.21
0.50			1.12	129.	10.0	282.4	10.0						

20 01 01	1 09	36.2	0.144	0.391	0.005	59.	131.	-7.4	0.17	1.21
0.30	1.03	112.	10.0	286.4	10.0					

20	01	01	1	10	90.0	0.280	0.921	0.005	310.	356.	-21.8	0.14	1.21
02	23	2	46	148	10.0	289.0	10.0						

0.20	0.21	0.1	1	11	126.8	0.254	1.266	0.005	572.	308.	-11.6	0.16	1.21
0.21	2.01	225.			10.0	290.5	10.0						

20	01	01	1	12	144.1	0.324	1.461	0.005	774.	444.	-21.2	0.16	1.21
0.20					2.77	211.	10.0	291.3	10.0				
20	01	01	1	13	141.4	0.344	1.588	0.005	1011.	485.	-25.8	0.16	1.21
0.20					3.00	210.	10.0	291.2	10.0				
20	01	01	1	14	118.9	0.362	1.554	0.005	1126.	523.	-35.6	0.16	1.21
0.21					3.26	234.	10.0	290.8	10.0				
20	01	01	1	15	77.8	0.368	1.376	0.005	1195.	535.	-56.9	0.16	1.21
0.24					3.44	227.	10.0	290.3	10.0				
20	01	01	1	16	21.2	0.319	0.897	0.005	1212.	434.	-136.4	0.17	1.21
0.33					3.08	244.	10.0	289.4	10.0				
20	01	01	1	17	-7.3	0.092	-9.000	-9.000	-999.	146.	9.7	0.16	1.21
0.61					1.92	236.	10.0	288.2	10.0				
20	01	01	1	18	-8.4	0.098	-9.000	-9.000	-999.	74.	10.0	0.20	1.21
1.00					1.92	193.	10.0	287.3	10.0				
20	01	01	1	19	-6.6	0.086	-9.000	-9.000	-999.	61.	8.6	0.14	1.21
1.00					1.83	140.	10.0	286.6	10.0				
20	01	01	1	20	-2.9	0.057	-9.000	-9.000	-999.	33.	5.7	0.14	1.21
1.00					1.21	144.	10.0	286.2	10.0				
20	01	01	1	21	-3.2	0.060	-9.000	-9.000	-999.	35.	6.0	0.17	1.21
1.00					1.21	99.	10.0	285.3	10.0				
20	01	01	1	22	-5.1	0.075	-9.000	-9.000	-999.	49.	7.3	0.12	1.21
1.00					1.65	76.	10.0	284.8	10.0				
20	01	01	1	23	-2.1	0.048	-9.000	-9.000	-999.	26.	4.8	0.17	1.21
1.00					0.98	99.	10.0	284.5	10.0				
20	01	01	1	24	-4.4	0.069	-9.000	-9.000	-999.	43.	6.6	0.12	1.21
1.00					1.52	78.	10.0	283.8	10.0				

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
20	01	01	01	10.0	1	57.	2.82	283.2	6.0	-99.00	0.29

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

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 16

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026

,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

- - - - -
- - - - -

3628507.56		0.83219	0.90600	0.97660	1.05081	1.13381
1.20873		1.30826	1.38085	1.47170		
3628311.70		0.90385	1.00284	1.10107	1.19924	1.30429
1.42964		1.53010	1.60014	1.65715		
3628115.84		0.97522	1.09876	1.23661	1.37552	1.51915
1.69831		1.81727	1.91839	2.00053		
3627919.98		1.05391	1.19721	1.37296	1.57314	1.78954
2.02418		2.20432	2.41943	2.46336		
3627724.12		1.14856	1.30937	1.51496	1.77962	2.09864
2.43665		2.74195	3.13397	3.17847		
3627528.26		1.26108	1.44953	1.68637	2.00318	2.42180
2.94461		3.49567	4.07471	4.46683		
3627332.40		1.37019	1.60123	1.89575	2.27389	2.78212
3.50577		4.51507	5.69448	8.14128		
3627136.54		1.46770	1.73829	2.09506	2.57763	3.24878
4.21355		5.71446	8.14405	11.16063		
3626940.68		1.56362	1.86641	2.27632	2.85290	3.70262
5.03344		7.28170	11.48815	20.69886		
3626744.82		1.75739	2.22531	2.58543	3.27698	4.30449
6.34775		10.11060	18.15053	37.99077		
3626548.96		2.02358	2.53205	3.00390	4.45679	5.29613
7.61291		13.81655	31.14171	55.03416		
3626353.10		2.13253	3.01480	3.85484	4.58808	8.26036
9.30901		18.83839	13.44535	9.94217		
3626157.24		2.36500	2.97907	4.89560	6.57961	8.95603
10.95507		12.11151	10.79372	10.27347		
3625961.38		2.61434	3.21959	4.00865	4.98646	7.61152
7.86918		6.06212	5.96621	7.16319		
3625765.52		2.68820	3.50950	3.76455	4.03372	4.13643
4.06821		3.97699	3.99497	5.44762		
3625569.66		2.62215	2.98975	3.83610	3.98418	3.36597
3.47796		2.88740	2.96079	3.27423		
3625373.80		2.26375	2.40435	2.35423	3.04271	3.02836
2.98901		2.51241	2.75361	2.99441		
3625177.94		1.85901	2.40117	2.33077	1.96077	2.40291
2.35842		2.36955	1.98806	2.34149		

3624982.08	1.53632	1.92723	1.83051	1.92318	1.92424
1.92482	1.98322	1.83492	2.10911		
3624786.22	1.56543	1.35776	1.59268	1.61024	1.60237
1.62525	1.68747	1.62817	1.70030		
3624590.36	1.30409	1.30146	1.24207	1.33016	1.35184
1.39887	1.45616	1.50790	1.53384		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 17

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	1.49596	1.47139	1.25295	1.35890	1.33390
1.32494	0.79564	0.22246	0.04911		
3628311.70	1.70873	1.72727	1.44811	1.38957	1.57764
1.45719	0.68110	0.13326	0.04599		
3628115.84	2.02842	1.85671	1.79928	2.01662	1.91467
1.55159	0.47026	0.13013	0.05307		
3627919.98	2.42936	2.34813	2.19463	2.46265	1.20400
1.16669	0.39626	0.09741	0.05889		
3627724.12	3.21784	3.62615	2.96718	3.28559	2.54223
1.05415	0.34717	0.13299	0.07581		
3627528.26	5.33489	4.30752	4.92667	2.17573	1.74112
2.48014	0.60370	0.24974	0.13028		
3627332.40	7.29197	6.48802	6.95497	5.15613	1.82693

0.97604	0.49342	0.29927	0.31089		
3627136.54	12.51913	10.94101	8.22163	5.88047	4.29240
2.98382	0.67426	0.58983	0.93269		
3626940.68	31.51491	23.25054	13.03416	7.79940	5.21518
4.51948	3.06894	2.69988	1.52658		
3626744.82	399.52206	63.39559	20.23200	10.53758	7.67809
4.37650	3.31271	2.62170	2.24492		
3626548.96	68.49218	70.81328	29.45271	9.25699	5.56964
5.86862	4.36909	3.51504	2.37263		
3626353.10	9.34016	9.28552	20.87786	9.37056	6.06166
4.92881	3.63547	2.77669	2.87775		
3626157.24	8.06810	4.91984	7.06236	4.39091	4.01155
5.78118	4.86212	2.68578	1.89040		
3625961.38	6.37153	2.56804	2.47118	2.69016	2.90601
2.67649	3.90742	2.40100	1.99127		
3625765.52	5.54824	1.73853	1.78613	2.19876	2.74028
2.07015	1.68000	1.68632	1.93695		
3625569.66	3.59040	3.85575	1.81665	3.38411	3.77505
1.51206	1.45443	1.45171	1.39999		
3625373.80	3.18820	1.74277	2.81063	2.97853	2.90821
2.90460	2.08867	1.22840	1.22297		
3625177.94	2.52443	2.09111	1.83634	2.39944	1.51627
1.79179	1.05242	0.92848	1.02045		
3624982.08	1.91288	1.57993	1.07816	1.85625	0.98967
0.91278	0.95715	0.84769	0.88822		
3624786.22	1.72388	1.46700	0.91805	0.92610	0.79370
0.75662	0.93638	0.86651	0.75271		
3624590.36	1.41831	1.44579	0.86476	0.59042	0.84595
1.11727	1.15722	0.83010	0.72236		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 18

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)			X-COORD (METERS)
	494372.98	494567.08	494761.18

3628507.56	0.03789	0.03681	0.03727
3628311.70	0.04083	0.03984	0.03998
3628115.84	0.04582	0.04262	0.04056
3627919.98	0.05193	0.04793	0.04353
3627724.12	0.06124	0.06821	0.04968
3627528.26	0.11825	0.12193	0.06184
3627332.40	0.31956	0.21285	0.07235
3627136.54	0.54384	0.41761	0.18697
3626940.68	1.10443	0.90998	0.63061
3626744.82	1.99784	1.68671	1.20868
3626548.96	1.99856	1.72428	1.49513
3626353.10	1.61114	1.85628	1.32721
3626157.24	1.89140	1.25251	1.79074
3625961.38	2.66446	1.40254	1.89197
3625765.52	2.00404	1.60204	1.62974
3625569.66	1.50139	1.91493	1.83476
3625373.80	1.18704	1.26301	1.26268
3625177.94	1.07021	1.06163	1.08432
3624982.08	1.09699	0.99160	1.23982
3624786.22	0.79500	1.20883	1.17781
3624590.36	0.80069	1.21603	0.95107

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 19

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
3625834.65	492883.25	3625830.80	1.89002	492919.80
		1.84477		
3625832.73	492955.07	3625845.55	1.88294	493069.86
		1.94333		
3625837.21	493094.87	3625832.73	1.97741	493110.90
		2.02994		
3625837.86	493151.95	3625834.01	2.12163	493166.70
		2.17192		
3625836.57	493187.86	3625836.57	2.22050	493201.33
		2.24425		
3625908.40	493240.44	3625836.57	2.33472	492881.32
		2.08472		
3625911.60	492906.98	3625898.14	1.95662	492901.84
		2.07981		
3625898.14	492928.14	3625914.81	2.11657	492933.91
		1.97290		
3625907.11	492951.87	3625908.40	2.08530	492973.67
		2.18957		
3625897.50	492993.55	3625914.17	2.30254	492996.11
		2.25405		
3625912.24	493015.99	3625896.85	2.11827	493023.05
		2.21023		
3625907.76	493044.21	3625907.11	2.22367	493066.66
		2.39876		
3625895.57	493085.25	3625912.24	2.38207	493087.18
		2.33246		
3625897.50	493108.98	3625911.60	2.40589	493112.19
		2.37094		
3625788.48	493133.99	3625901.98	2.53274	492874.27
		1.91095		
3625790.40	492894.15	3625789.12	1.87563	492910.18
		1.86968		
3625791.04	492930.70	3625786.55	1.86109	492947.38
		1.85204		
3625787.84	492963.41	3625787.84	1.84429	492982.65
		1.84052		
3625791.04	492999.96	3625787.84	1.83757	493021.12
		1.84400		
3625789.76	493036.52	3625789.12	1.84848	493055.75
		1.86458		
	493076.28	3625787.84	1.87987	493094.87

3625787.84	1.89992		
493112.83	3625788.48	1.93499	493129.50
3625787.19	1.97134		
493148.74	3625787.19	2.02357	493164.77
3625790.40	2.07724		
493184.65	3625789.12	2.14396	493201.97
3625791.04	2.19114		
493221.21	3625790.40	2.22983	493238.52
3625791.04	2.28866		
492780.00	3626415.01	21.95627	492778.72
3626388.08	15.39948		
492747.94	3626386.16	14.57388	492742.16
3626418.22	20.80825		
492699.20	3626422.71	20.41665	492697.92
3626391.93	13.95499		
492678.68	3626411.81	15.82114	492626.09
3626426.56	13.47077		
492606.85	3626435.54	21.95638	492599.16
3626405.39	13.02850		
492491.20	3626644.88	95.02436	492517.36
3626636.70	106.34927		
492521.18	3626603.45	109.79011	492521.72
3626582.19	100.74060		
492512.46	3626553.84	82.64797	492513.55
3626533.13	69.82042		
492501.01	3626506.42	57.16594	492490.65
3626485.70	51.18483		
492479.21	3626464.45	44.14431	492466.12
3626447.00	33.99006		
492447.59	3626418.66	18.21743	492431.78
3626430.65	20.54581		
492481.93	3626620.35	91.66791	492482.48
3626594.18	89.94704		
492479.21	3626572.92	83.89594	492477.02
3626546.76	74.54078		
492467.76	3626523.32	63.92067	492463.94
3626507.51	58.50494		
492450.86	3626492.79	53.89592	492427.42
3626474.80	41.12750		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 20

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002

```

, L0000003      , L0000004      , L0000005      ,
                  L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000011      , L0000012      , L0000013      ,
                  L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
                  L0000022      , L0000023      , L0000024      , L0000025      , L0000026
,

```

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	24.04080	492803.94
3626616.07	122.77118		
492823.25	3626567.17	80.96521	492838.34
3626526.92	58.01221		
493039.78	3625834.45	1.95135	492791.92
3626663.04	145.30847		
492731.11	3626741.92	185.57707	492774.75
3626728.05	125.87860		
493013.27	3625844.49	1.97737	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 21

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: STCK1

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
491849.68	490879.18 491073.28 491267.38 491461.48 491655.58
492043.78	492237.88 492431.98

```

- - - - -
3628507.56 | 0.26811 0.28534 0.29302 0.35080 0.33037
0.36586 0.36961 0.37215 0.37610
3628311.70 | 0.32587 0.31871 0.32987 0.34022 0.42230
0.43116 0.42639 0.41406 0.40906
3628115.84 | 0.33451 0.36918 0.36441 0.37355 0.42381
0.50064 0.55656 0.47488 0.46643
3627919.98 | 0.32896 0.39055 0.44848 0.41839 0.43989
0.57774 0.60716 0.57930 0.54851
3627724.12 | 0.33508 0.34831 0.45962 0.54021 0.54580
0.54571 0.70692 0.81810 0.59634
3627528.26 | 0.47488 0.44669 0.43197 0.53422 0.64810
0.64598 0.66155 0.91768 0.79044
3627332.40 | 0.49375 0.54836 0.61506 0.57047 0.59627
0.73682 0.79269 0.99458 1.49282
3627136.54 | 0.62369 0.63970 0.67912 0.70784 0.80926
0.76575 0.93927 1.06602 1.56973
3626940.68 | 0.65173 0.72677 0.83281 0.95441 1.02076
1.10081 1.24679 1.27909 1.64183
3626744.82 | 0.69703 0.86009 0.88743 1.03747 1.12734
1.56986 2.12249 2.66122 2.77236
3626548.96 | 0.89599 1.06402 1.11705 1.44610 1.55680
1.74221 2.61891 3.65397 5.77003
3626353.10 | 1.01691 1.32408 1.53145 1.65562 2.15379
2.20182 3.41467 5.01742 9.18454
3626157.24 | 0.98218 1.19507 1.69105 2.02127 2.59570
3.30447 4.18372 5.58045 6.20874
3625961.38 | 1.14737 1.39982 1.66180 2.13785 2.90175
3.32643 3.72300 3.49507 3.11128
3625765.52 | 1.34666 1.74759 1.86369 1.91494 2.30461
2.53837 2.39415 2.16380 2.20298
3625569.66 | 1.36944 1.70914 2.08181 2.46759 2.26228
2.19409 1.64101 1.48647 1.59524
3625373.80 | 1.50588 1.70499 1.72184 2.05020 1.93221
1.80546 1.41057 1.39124 1.50132
3625177.94 | 1.44595 1.75918 1.65635 1.45288 1.55102
1.32112 1.23752 1.07764 1.21039
3624982.08 | 1.20682 1.39280 1.37530 1.30872 1.17435
1.07072 1.05502 0.98599 1.10418
3624786.22 | 1.30011 1.15610 1.11119 1.09197 0.95029
0.94879 0.94925 0.92763 0.93484
3624590.36 | 1.03425 0.97091 0.89673 0.85389 0.86487
0.80782 0.84816 0.83876 0.86758

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 *** ***
*** 14:43:40

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	0.35267	0.35493	0.29890	0.32786	0.27008
0.26282	0.21520	0.27039	0.14551		
3628311.70	0.38128	0.40213	0.34177	0.33853	0.31196
0.28636	0.24307	0.32920	0.11965		
3628115.84	0.43757	0.41668	0.40302	0.42949	0.36094
0.29702	0.33634	0.33596	0.13563		
3627919.98	0.46813	0.49928	0.45043	0.48141	0.39880
0.35717	0.38349	0.24373	0.15301		
3627724.12	0.55675	0.74945	0.68835	0.54505	0.40762
0.46454	0.42725	0.33628	0.19367		
3627528.26	0.82785	0.78434	0.82964	0.63853	0.56924
0.50585	0.46061	0.46850	0.32857		
3627332.40	1.08616	1.06964	1.04251	0.76620	0.71601
0.60151	0.56555	0.56453	0.46965		
3627136.54	1.35637	1.31788	1.07345	0.86067	0.74532
0.77531	0.69773	0.53262	0.45003		
3626940.68	3.01929	2.20623	1.65784	1.25607	1.16347
0.92181	0.76889	0.62256	0.55474		
3626744.82	4.86777	5.59971	3.94901	2.75995	1.71605
1.10553	0.89471	0.74616	0.68400		
3626548.96	12.34401	88.21702	13.00008	5.89630	3.17667
2.09430	1.66232	1.30281	0.98766		
3626353.10	16.24160	13.55796	17.43945	12.17622	6.02443
3.56797	2.41754	1.82846	1.40537		
3626157.24	5.35085	6.10332	8.81954	8.06038	5.86384
4.84264	3.41558	2.51781	1.87742		
3625961.38	3.05786	3.74874	4.93640	5.75248	4.85297
3.61326	3.43595	2.93250	2.31321		
3625765.52	2.22618	2.73430	3.37866	4.02564	3.99658
3.48934	2.71660	2.47949	2.34739		
3625569.66	1.68458	1.93433	2.43848	2.92567	3.05472
2.89948	2.63811	2.07290	1.88889		

3625373.80		1.56213	1.74499	1.51228	2.07524	2.24986
2.61931		2.22878	2.13377	1.74292		
3625177.94		1.31169	1.43893	1.46275	1.93574	1.98827
2.19443		2.05898	1.79613	1.72844		
3624982.08		1.11649	1.20583	1.23573	1.59192	1.66327
1.74887		1.88905	1.65672	1.48886		
3624786.22		0.93850	1.05474	1.09004	1.33478	1.43845
1.46333		1.58784	1.57962	1.35797		
3624590.36		0.88932	0.94662	0.94923	1.14295	1.25494
1.26989		1.30492	1.45264	1.30569		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:43:40

PAGE 23

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)
		494372.98	494567.08	494761.18	
3628507.56		0.09634	0.09070	0.08905	
3628311.70		0.10451	0.09646	0.09708	
3628115.84		0.11090	0.10684	0.10474	
3627919.98		0.13085	0.12493	0.11683	
3627724.12		0.16208	0.19724	0.13978	
3627528.26		0.32441	0.30451	0.14728	
3627332.40		0.38152	0.37292	0.19445	
3627136.54		0.43117	0.39360	0.38821	
3626940.68		0.48005	0.43540	0.40137	
3626744.82		0.62036	0.60183	0.53420	
3626548.96		0.86182	0.75118	0.66084	
3626353.10		1.22210	1.06578	0.89509	
3626157.24		1.41086	1.17643	0.99430	
3625961.38		1.92109	1.55538	1.32967	
3625765.52		2.00696	1.72367	1.48233	
3625569.66		1.91329	1.79000	1.50972	
3625373.80		1.55125	1.49460	1.49391	

3625177.94		1.43414	1.25228	1.24296
3624982.08		1.46189	1.18380	1.01163
3624786.22		1.25329	1.24470	1.06569
3624590.36		1.11750	1.08716	1.05945

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:43:40

PAGE 24

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

492883.25	3625830.80	2.98227	492919.80
3625834.65	3.04386		
492955.07	3625845.55	3.42296	493069.86
3625832.73	4.01683		
493094.87	3625832.73	4.09932	493110.90
3625837.21	4.20474		
493151.95	3625834.01	4.36206	493166.70
3625837.86	4.45887		
493187.86	3625836.57	4.52607	493201.33
3625836.57	4.56740		
493240.44	3625836.57	4.63246	492881.32
3625908.40	3.36756		
492906.98	3625898.14	3.38054	492901.84
3625911.60	3.46745		
492928.14	3625914.81	3.63061	492933.91
3625898.14	3.57441		
492951.87	3625908.40	3.87226	492973.67
3625907.11	4.09280		
492993.55	3625914.17	4.32776	492996.11
3625897.50	4.19934		
493015.99	3625896.85	4.31856	493023.05
3625912.24	4.48756		
493044.21	3625907.11	4.53180	493066.66
3625907.76	4.63949		

493085.25	3625912.24	4.78734	493087.18
3625895.57	4.62578		
493108.98	3625911.60	4.91673	493112.19
3625897.50	4.78271		
493133.99	3625901.98	4.94923	492874.27
3625788.48	2.82768		
492894.15	3625789.12	2.83174	492910.18
3625790.40	2.80877		
492930.70	3625786.55	2.86964	492947.38
3625791.04	3.00103		
492963.41	3625787.84	3.12757	492982.65
3625787.84	3.29064		
492999.96	3625787.84	3.42212	493021.12
3625791.04	3.57351		
493036.52	3625789.12	3.63313	493055.75
3625789.76	3.70067		
493076.28	3625787.84	3.73660	493094.87
3625787.84	3.77866		
493112.83	3625788.48	3.83828	493129.50
3625787.19	3.89161		
493148.74	3625787.19	3.96752	493164.77
3625790.40	4.05559		
493184.65	3625789.12	4.12218	493201.97
3625791.04	4.19701		
493221.21	3625790.40	4.24823	493238.52
3625791.04	4.29221		
492780.00	3626415.01	23.71054	492778.72
3626388.08	18.16523		
492747.94	3626386.16	18.88537	492742.16
3626418.22	27.26878		
492699.20	3626422.71	28.27319	492697.92
3626391.93	21.99347		
492678.68	3626411.81	24.95680	492626.09
3626426.56	21.47011		
492606.85	3626435.54	19.66001	492599.16
3626405.39	18.54130		
492491.20	3626644.88	5.68774	492517.36
3626636.70	6.24258		
492521.18	3626603.45	7.05618	492521.72
3626582.19	7.62466		
492512.46	3626553.84	8.10131	492513.55
3626533.13	8.81255		
492501.01	3626506.42	9.08056	492490.65
3626485.70	9.39411		
492479.21	3626464.45	9.60660	492466.12
3626447.00	9.36765		
492447.59	3626418.66	9.12848	492431.78
3626430.65	8.31953		
492481.93	3626620.35	5.91311	492482.48
3626594.18	6.31734		

492479.21	3626572.92	6.71095	492477.02
3626546.76	7.27785		
492467.76	3626523.32	7.53745	492463.94
3626507.51	7.88839		
492450.86	3626492.79	7.83873	492427.42
3626474.80	7.66950		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apol1\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:43:40

PAGE 25

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	7.07228	492803.94
3626616.07	14.14473		
492823.25	3626567.17	63.35507	492838.34
3626526.92	81.52801		
493039.78	3625834.45	3.94111	492791.92
3626663.04	9.22123		
492731.11	3626741.92	8.27338	492774.75
3626728.05	6.00659		
493013.27	3625844.49	3.89235	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apol1\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:43:40

PAGE 26

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58	
491849.68	492043.78	492237.88	492431.98			

3628507.56	0.19588	0.21880	0.23532	0.23619	0.25745
0.25350	0.24037	0.20846	0.24338		
3628311.70	0.21730	0.22590	0.25745	0.25975	0.28322
0.28674	0.28788	0.24844	0.25856		
3628115.84	0.25409	0.25146	0.26915	0.30551	0.29831
0.32966	0.32206	0.29589	0.27852		
3627919.98	0.28206	0.29108	0.28211	0.31734	0.34239
0.36838	0.36795	0.35404	0.29798		
3627724.12	0.30721	0.32721	0.33350	0.33391	0.37992
0.39513	0.42146	0.41883	0.33782		
3627528.26	0.31207	0.34674	0.38076	0.39357	0.39289
0.44654	0.46804	0.47808	0.43298		
3627332.40	0.28649	0.35443	0.41027	0.45347	0.45079
0.46920	0.51995	0.57281	0.59046		
3627136.54	0.30115	0.32434	0.39750	0.48517	0.52850
0.53169	0.56531	0.61657	0.64933		
3626940.68	0.39441	0.38919	0.38491	0.44122	0.55847
0.63803	0.64901	0.72112	0.79381		
3626744.82	0.41285	0.48650	0.51229	0.48725	0.51894
0.68879	0.85131	0.89926	0.94194		
3626548.96	0.49977	0.53715	0.56578	0.65703	0.67997
0.66756	0.94026	1.18686	1.20178		
3626353.10	0.54943	0.63623	0.71354	0.75753	0.90586
0.90444	1.08378	1.29642	1.82532		
3626157.24	0.54700	0.62968	0.76726	0.90179	1.09619
1.24435	1.42136	1.80087	2.00946		
3625961.38	0.57919	0.65066	0.76895	0.89161	1.10532
1.32554	1.54446	2.03257	2.89153		
3625765.52	0.76481	0.90766	1.07253	1.24347	1.49697
1.80177	2.29157	3.03697	4.76919		
3625569.66	0.89978	1.07337	1.29439	1.54285	1.75936
2.18916	2.78116	4.06735	6.05983		
3625373.80	0.96045	1.16054	1.37229	1.88627	2.50798
3.20663	3.56713	4.58677	5.38791		
3625177.94	1.16724	1.59391	1.89955	2.18646	2.78308
3.29155	3.71335	3.12388	3.18519		
3624982.08	1.43051	1.77169	1.97042	2.29402	2.72113
2.80295	2.63906	2.14836	2.05352		

3624786.22	1.51827	1.69327	2.04254	2.28618	2.16081
2.10168	1.88610	1.51989	1.50174		
3624590.36	1.53090	1.74955	1.76487	1.75014	1.66964
1.60499	1.40853	1.33579	1.27897		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 27

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)	X-COORD (METERS)				
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	0.27894	0.24441	0.21078	0.19851	0.20349
0.20036	0.17549	0.17765	0.11292		
3628311.70	0.29754	0.28518	0.23129	0.22222	0.22582
0.21727	0.20579	0.19991	0.07453		
3628115.84	0.33309	0.29322	0.26139	0.27397	0.26998
0.23664	0.23848	0.21278	0.07934		
3627919.98	0.34607	0.34324	0.29945	0.30921	0.31552
0.26014	0.26791	0.26291	0.10056		
3627724.12	0.37994	0.45392	0.38595	0.34398	0.31982
0.30258	0.28160	0.27221	0.16862		
3627528.26	0.44728	0.46038	0.43606	0.42239	0.39605
0.31979	0.28432	0.27842	0.33550		
3627332.40	0.47978	0.54768	0.49982	0.47012	0.44304
0.38236	0.31406	0.34272	0.28665		
3627136.54	0.54555	0.61589	0.53771	0.48971	0.40479
0.38271	0.41855	0.37992	0.30690		
3626940.68	0.71533	0.73408	0.66559	0.59908	0.48514
0.41055	0.45016	0.34234	0.34019		
3626744.82	1.05338	0.96025	0.89451	0.78186	0.60932
0.52960	0.43724	0.38773	0.34639		
3626548.96	1.34338	1.39046	1.24590	1.11772	0.84734
0.64055	0.58056	0.51104	0.43877		

3626353.10	2.15961	2.27416	1.88909	1.51637	1.20605
0.96986	0.83960	0.59872	0.46713		
3626157.24	2.91868	4.27781	4.03158	2.75009	2.05076
1.36153	0.99707	0.79025	0.69238		
3625961.38	4.67305	8.05215	12.57255	7.62526	3.35796
1.96631	1.36849	1.10629	0.95789		
3625765.52	8.12736	28.47545	46.24789	25.82185	7.55679
3.91811	2.62360	1.95773	1.55194		
3625569.66	8.76498	7.83973	10.29936	10.64646	8.14672
6.06859	3.68649	2.54467	1.82094		
3625373.80	4.18261	4.31217	3.90185	4.51655	4.39063
4.27344	4.17346	3.29114	2.58648		
3625177.94	2.46528	2.74363	2.93863	3.13972	3.62777
3.23229	3.12881	3.01656	2.75672		
3624982.08	2.03196	2.12023	2.27357	2.41097	2.54220
2.59774	2.50387	2.32937	2.22366		
3624786.22	1.49386	1.77880	1.84083	1.98526	1.99741
2.22392	2.00111	2.01075	1.86243		
3624590.36	1.36017	1.40121	1.50828	1.55943	1.61343
1.62853	1.86522	1.59049	1.65695		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 28

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)		
	494372.98	494567.08	494761.18

3628507.56	0.05619	0.06943	0.07656
3628311.70	0.07063	0.07663	0.07988
3628115.84	0.08866	0.08699	0.07337
3627919.98	0.10574	0.09698	0.07556
3627724.12	0.13369	0.16037	0.09814
3627528.26	0.28600	0.24844	0.12854
3627332.40	0.26653	0.23538	0.18314

3627136.54	0.29960	0.28558	0.23827
3626940.68	0.31481	0.29081	0.30949
3626744.82	0.35769	0.31293	0.26510
3626548.96	0.33449	0.30054	0.28396
3626353.10	0.45978	0.38600	0.36592
3626157.24	0.56789	0.50291	0.39115
3625961.38	0.73202	0.72791	0.58366
3625765.52	1.18169	1.01137	0.77443
3625569.66	1.45629	1.13522	0.96326
3625373.80	2.00201	1.53900	1.24019
3625177.94	2.27077	1.93405	1.52617
3624982.08	2.22641	2.02096	1.69908
3624786.22	1.72144	1.75620	1.72411
3624590.36	1.55702	1.31157	1.40776

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 29

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	29.32408	492919.80
3625834.65	34.02772		
492955.07	3625845.55	24.61279	493069.86
3625832.73	104.37471		
493094.87	3625832.73	68.58691	493110.90
3625837.21	43.04331		
493151.95	3625834.01	27.86336	493166.70
3625837.86	22.57731		
493187.86	3625836.57	18.77872	493201.33
3625836.57	16.71680		
493240.44	3625836.57	12.82748	492881.32
3625908.40	12.62236		
492906.98	3625898.14	14.39100	492901.84
3625911.60	13.52802		

492928.14	3625914.81	14.48502	492933.91
3625898.14	15.41414		
492951.87	3625908.40	15.37192	492973.67
3625907.11	16.09717		
492993.55	3625914.17	16.93656	492996.11
3625897.50	17.51980		
493015.99	3625896.85	21.80806	493023.05
3625912.24	19.61069		
493044.21	3625907.11	21.21187	493066.66
3625907.76	21.68297		
493085.25	3625912.24	17.95507	493087.18
3625895.57	23.76327		
493108.98	3625911.60	17.01445	493112.19
3625897.50	19.32664		
493133.99	3625901.98	16.28261	492874.27
3625788.48	38.36979		
492894.15	3625789.12	44.42750	492910.18
3625790.40	48.88805		
492930.70	3625786.55	51.56574	492947.38
3625791.04	54.95082		
492963.41	3625787.84	50.39496	492982.65
3625787.84	51.22654		
492999.96	3625787.84	58.24440	493021.12
3625791.04	78.47407		
493036.52	3625789.12	80.12173	493055.75
3625789.76	85.24800		
493076.28	3625787.84	86.28154	493094.87
3625787.84	77.03139		
493112.83	3625788.48	57.98634	493129.50
3625787.19	50.03636		
493148.74	3625787.19	41.37317	493164.77
3625790.40	35.25945		
493184.65	3625789.12	29.17839	493201.97
3625791.04	24.76927		
493221.21	3625790.40	20.85268	493238.52
3625791.04	17.66427		
492780.00	3626415.01	1.94262	492778.72
3626388.08	2.09457		
492747.94	3626386.16	2.13559	492742.16
3626418.22	1.98703		
492699.20	3626422.71	1.97406	492697.92
3626391.93	2.10233		
492678.68	3626411.81	2.01261	492626.09
3626426.56	1.91171		
492606.85	3626435.54	1.81247	492599.16
3626405.39	1.92338		
492491.20	3626644.88	1.18416	492517.36
3626636.70	1.21786		
492521.18	3626603.45	1.28664	492521.72
3626582.19	1.31151		

492512.46	3626553.84	1.35557	492513.55
3626533.13	1.38178		
492501.01	3626506.42	1.40547	492490.65
3626485.70	1.44812		
492479.21	3626464.45	1.50091	492466.12
3626447.00	1.56374		
492447.59	3626418.66	1.68274	492431.78
3626430.65	1.62496		
492481.93	3626620.35	1.21447	492482.48
3626594.18	1.25617		
492479.21	3626572.92	1.28453	492477.02
3626546.76	1.31394		
492467.76	3626523.32	1.34700	492463.94
3626507.51	1.36181		
492450.86	3626492.79	1.39817	492427.42
3626474.80	1.46135		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 30

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	1.54147	492803.94
3626616.07	1.24863		
492823.25	3626567.17	1.33111	492838.34
3626526.92	1.44492		
493039.78	3625834.45	156.36088	492791.92
3626663.04	1.12408		
492731.11	3626741.92	0.98843	492774.75
3626728.05	1.00739		
493013.27	3625844.49	107.83633	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 31

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	0.28658	0.29186	0.28412	0.34532	0.34213
0.41533	0.41108	0.36957	0.40953		
3628311.70	0.29303	0.32455	0.34611	0.33559	0.40003
0.44875	0.50152	0.43282	0.43507		
3628115.84	0.32104	0.34580	0.39603	0.39298	0.43419
0.49056	0.57334	0.52953	0.49096		
3627919.98	0.27637	0.34730	0.42186	0.45609	0.49610
0.58263	0.57455	0.68966	0.57153		
3627724.12	0.35378	0.33702	0.38581	0.48697	0.58794
0.59100	0.64548	0.82799	0.65039		
3627528.26	0.44380	0.47998	0.44163	0.48105	0.61303
0.72457	0.70222	0.79357	0.98704		
3627332.40	0.49050	0.49163	0.57867	0.65395	0.60585
0.67109	0.84622	1.07113	1.46123		
3627136.54	0.60851	0.65353	0.70797	0.71961	0.78138
0.84644	0.83881	1.16181	1.51535		
3626940.68	0.56069	0.63782	0.74463	0.87805	1.01215
1.18583	1.26509	1.49038	2.06478		
3626744.82	0.66778	0.77744	0.83554	0.98260	1.07534
1.49483	1.96732	2.88303	3.80775		
3626548.96	0.87013	1.04270	1.07072	1.43482	1.66072
1.86149	2.86196	4.37586	7.81619		
3626353.10	0.95933	1.22644	1.40891	1.51181	2.06125
2.29072	3.69152	5.46932	8.38051		
3626157.24	0.88996	1.14241	1.67265	2.03522	2.59933
3.01665	3.76579	4.25312	3.86254		
3625961.38	1.18186	1.33561	1.59893	1.91907	2.60395
2.95373	2.71332	2.45494	2.23460		

3625765.52		1.27991	1.60178	1.69015	1.82026	2.02455
1.91699		1.83744	1.60455	1.76545		
3625569.66		1.33107	1.62296	1.92336	1.95099	1.80038
1.66516		1.24344	1.18316	1.27363		
3625373.80		1.31065	1.49553	1.45129	1.58309	1.47128
1.32801		1.14044	1.13190	1.12687		
3625177.94		1.21293	1.40855	1.29044	1.19915	1.13674
1.03740		1.00467	0.87302	1.01188		
3624982.08		1.05009	1.17035	1.08253	1.03260	0.88646
0.88323		0.91027	0.84217	0.92659		
3624786.22		1.04920	0.93144	0.89134	0.82399	0.79771
0.78038		0.78328	0.72919	0.82082		
3624590.36		0.84437	0.84960	0.70349	0.70526	0.70770
0.72137		0.69227	0.64134	0.72211		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 32

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)	
		492626.08	492820.18	493014.28	493208.38	493402.48
493596.58		493790.68	493984.78	494178.88		

3628507.56		0.37037	0.33508	0.29251	0.29680	0.26046
0.23860		0.20476	0.25356	0.13465		
3628311.70		0.42458	0.37945	0.31372	0.30758	0.28636
0.24934		0.25715	0.30902	0.12877		
3628115.84		0.47874	0.41047	0.38958	0.39272	0.33112
0.29160		0.30652	0.30987	0.14097		
3627919.98		0.52055	0.48802	0.44408	0.43936	0.35343
0.37619		0.33174	0.26909	0.15529		
3627724.12		0.63122	0.74074	0.65089	0.51772	0.40599
0.42296		0.39355	0.34124	0.19831		
3627528.26		0.95757	0.80498	0.79322	0.58284	0.57244
0.48023		0.42413	0.44305	0.36515		

3627332.40	1.30602	1.12148	0.97603	0.79495	0.66543
0.58072	0.56713	0.51760	0.40162		
3627136.54	1.79328	1.54094	1.07195	0.86424	0.78527
0.78137	0.59582	0.51332	0.43777		
3626940.68	3.23832	3.02499	1.92459	1.53057	1.14519
0.92177	0.73294	0.59827	0.52281		
3626744.82	7.98255	10.64202	5.62788	2.70116	1.70324
1.09121	0.89339	0.76776	0.67704		
3626548.96	19.97434	21.14829	19.12963	7.39871	3.57895
2.20822	1.68901	1.31379	1.00552		
3626353.10	7.62067	8.16940	9.18058	8.28633	5.58893
3.54347	2.36420	1.70860	1.32295		
3626157.24	3.59855	4.29224	4.02052	4.74109	4.11467
3.79678	3.12069	2.27779	1.77947		
3625961.38	2.38721	2.79205	2.64032	2.87861	3.06371
2.78379	2.59373	2.45590	2.09774		
3625765.52	1.80145	2.14275	1.95379	2.02322	2.19531
2.20180	2.06863	1.93463	1.93477		
3625569.66	1.40644	1.63445	1.52611	1.53001	1.66784
1.81347	1.73550	1.63766	1.51837		
3625373.80	1.16518	1.35793	1.13665	1.25054	1.23648
1.45175	1.43762	1.46080	1.40307		
3625177.94	1.03849	1.15112	1.01985	1.12277	1.08875
1.20465	1.25413	1.23554	1.21842		
3624982.08	0.94951	0.94700	0.88559	0.97868	0.97107
0.98141	1.09688	1.06565	1.02059		
3624786.22	0.77482	0.84156	0.77673	0.86401	0.85262
0.83220	0.92656	0.93397	0.93814		
3624590.36	0.73414	0.76289	0.67582	0.78812	0.77043
0.72185	0.72667	0.84550	0.83566		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 33

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)	X-COORD (METERS)		
	494372.98	494567.08	494761.18

- - - - -
- - - - -

3628507.56	0.10065	0.09692	0.09602
3628311.70	0.10871	0.10148	0.09896
3628115.84	0.11916	0.11299	0.10798
3627919.98	0.13660	0.13205	0.14064
3627724.12	0.18249	0.20355	0.13081
3627528.26	0.30573	0.28808	0.15647
3627332.40	0.35228	0.35683	0.20947
3627136.54	0.39375	0.36794	0.37691
3626940.68	0.45160	0.39801	0.37780
3626744.82	0.60605	0.55749	0.48367
3626548.96	0.85210	0.73603	0.65673
3626353.10	1.09087	0.92989	0.79233
3626157.24	1.43017	1.13388	0.92789
3625961.38	1.72398	1.36443	1.21554
3625765.52	1.73772	1.51896	1.32549
3625569.66	1.51199	1.50852	1.33376
3625373.80	1.29498	1.21756	1.27669
3625177.94	1.22377	1.08058	1.02630
3624982.08	1.05845	1.02559	0.94692
3624786.22	0.87909	0.92337	0.90122
3624590.36	0.80978	0.72086	0.77447

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 *** ***
*** 14:43:40

PAGE 34

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	2.13351	492919.80
3625834.65	2.00066		
492955.07	3625845.55	2.10150	493069.86
3625832.73	2.20103		

493094.87	3625832.73	2.16950	493110.90
3625837.21	2.16974		
493151.95	3625834.01	2.14934	493166.70
3625837.86	2.17766		
493187.86	3625836.57	2.24255	493201.33
3625836.57	2.23654		
493240.44	3625836.57	2.31285	492881.32
3625908.40	2.32639		
492906.98	3625898.14	2.21761	492901.84
3625911.60	2.25882		
492928.14	3625914.81	2.27370	492933.91
3625898.14	2.22875		
492951.87	3625908.40	2.29616	492973.67
3625907.11	2.33954		
492993.55	3625914.17	2.40344	492996.11
3625897.50	2.34847		
493015.99	3625896.85	2.36566	493023.05
3625912.24	2.44475		
493044.21	3625907.11	2.42858	493066.66
3625907.76	2.39483		
493085.25	3625912.24	2.42543	493087.18
3625895.57	2.34439		
493108.98	3625911.60	2.40871	493112.19
3625897.50	2.35932		
493133.99	3625901.98	2.38710	492874.27
3625788.48	2.02964		
492894.15	3625789.12	1.96903	492910.18
3625790.40	1.92416		
492930.70	3625786.55	1.88364	492947.38
3625791.04	1.91733		
492963.41	3625787.84	1.93599	492982.65
3625787.84	1.96081		
492999.96	3625787.84	2.00589	493021.12
3625791.04	2.04366		
493036.52	3625789.12	2.05489	493055.75
3625789.76	2.05537		
493076.28	3625787.84	2.05631	493094.87
3625787.84	2.07531		
493112.83	3625788.48	2.04734	493129.50
3625787.19	2.03295		
493148.74	3625787.19	2.03241	493164.77
3625790.40	2.02763		
493184.65	3625789.12	2.04045	493201.97
3625791.04	2.07441		
493221.21	3625790.40	2.10460	493238.52
3625791.04	2.14023		
492780.00	3626415.01	11.61299	492778.72
3626388.08	10.13946		
492747.94	3626386.16	9.26419	492742.16
3626418.22	10.73140		

492699.20	3626422.71	10.80915	492697.92
3626391.93	8.94235		
492678.68	3626411.81	10.32824	492626.09
3626426.56	12.43496		
492606.85	3626435.54	13.70546	492599.16
3626405.39	11.02074		
492491.20	3626644.88	7.28575	492517.36
3626636.70	8.26363		
492521.18	3626603.45	10.11010	492521.72
3626582.19	11.21781		
492512.46	3626553.84	11.71892	492513.55
3626533.13	12.41215		
492501.01	3626506.42	12.15938	492490.65
3626485.70	12.01461		
492479.21	3626464.45	11.61731	492466.12
3626447.00	11.03286		
492447.59	3626418.66	10.01201	492431.78
3626430.65	9.64469		
492481.93	3626620.35	7.72069	492482.48
3626594.18	8.78317		
492479.21	3626572.92	9.37030	492477.02
3626546.76	10.08318		
492467.76	3626523.32	10.22582	492463.94
3626507.51	10.34248		
492450.86	3626492.79	10.13941	492427.42
3626474.80	9.39046		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 35

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	8.66141	492803.94
3626616.07	83.71425		

492823.25	3626567.17	27.58239	492838.34
3626526.92	18.49818		
493039.78	3625834.45	2.18737	492791.92
3626663.04	63.15476		
492731.11	3626741.92	12.22308	492774.75
3626728.05	11.07360		
493013.27	3625844.49	2.18715	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:43:40

PAGE 36

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	0.29481	0.30805	0.30245	0.32756	0.35215
0.38965	0.38638	0.34528	0.37683		
3628311.70	0.31492	0.33474	0.35500	0.35154	0.39293
0.44056	0.45645	0.41365	0.40501		
3628115.84	0.30635	0.35384	0.38989	0.41278	0.43454
0.49962	0.53947	0.50371	0.46443		
3627919.98	0.29988	0.33765	0.40856	0.45778	0.52738
0.56219	0.59735	0.64477	0.55060		
3627724.12	0.38379	0.37131	0.38912	0.49283	0.59680
0.67082	0.65311	0.82996	0.63054		
3627528.26	0.45455	0.48492	0.50059	0.53451	0.62157
0.73217	0.78357	0.85709	0.97822		
3627332.40	0.53619	0.57268	0.62745	0.67923	0.70045
0.70637	0.86817	1.19053	1.61226		
3627136.54	0.59737	0.66878	0.73254	0.79605	0.88109
0.95524	1.01657	1.29479	1.79393		
3626940.68	0.60212	0.66491	0.76155	0.86965	1.03666
1.26434	1.60609	2.04555	2.71348		

3626744.82	0.83837	0.97696	1.04190	1.20083	1.32003
1.83190	2.59001	3.95190	5.78796		
3626548.96	1.05385	1.22593	1.29610	1.65513	1.90847
2.28527	3.63896	6.12590	11.33620		
3626353.10	1.03113	1.31776	1.53468	1.84754	2.35853
2.82081	4.15547	5.59933	5.86384		
3626157.24	1.04465	1.35035	1.85468	2.16547	2.54498
3.08694	3.37263	3.27177	2.85494		
3625961.38	1.27561	1.37976	1.62259	2.07301	2.46567
2.50507	2.19619	1.88759	1.92244		
3625765.52	1.29052	1.65669	1.78974	1.69288	1.71526
1.61045	1.45623	1.37407	1.46131		
3625569.66	1.39888	1.59034	1.69410	1.60475	1.47701
1.34208	1.05894	1.10964	1.16554		
3625373.80	1.29568	1.32784	1.25775	1.26095	1.17147
1.02158	1.02011	1.02024	1.05881		
3625177.94	1.06614	1.19778	1.13327	1.01983	0.91077
0.89591	0.88087	0.87696	0.92639		
3624982.08	0.93202	0.98117	0.93177	0.84923	0.77998
0.78582	0.78695	0.77854	0.83416		
3624786.22	0.89295	0.80609	0.80802	0.72519	0.71887
0.70153	0.71167	0.71041	0.75128		
3624590.36	0.77173	0.73713	0.64051	0.64887	0.65502
0.63668	0.66675	0.67091	0.69647		

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:43:40

PAGE 37

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

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

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

Y-COORD (METERS)	X-COORD (METERS)				
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	0.37732	0.39647	0.31981	0.32351	0.28462
0.25881	0.26274	0.30123	0.15536		

3628311.70	0.42505	0.45767	0.35055	0.32784	0.31271
0.29486	0.30976	0.28873	0.14936		
3628115.84	0.48830	0.48637	0.42729	0.41168	0.35148
0.35428	0.35621	0.29810	0.16625		
3627919.98	0.52181	0.59479	0.47712	0.46242	0.43444
0.41040	0.39251	0.26673	0.18374		
3627724.12	0.62123	0.93644	0.66888	0.54707	0.51586
0.45665	0.45966	0.33832	0.25138		
3627528.26	0.95752	1.00210	0.82148	0.72025	0.62272
0.52408	0.52747	0.49681	0.34674		
3627332.40	1.33521	1.41332	1.12924	0.97015	0.80758
0.73811	0.66651	0.55065	0.47985		
3627136.54	1.91048	1.90565	1.41004	1.14164	1.03086
0.85314	0.74661	0.61868	0.49487		
3626940.68	4.30311	3.13011	2.87902	1.90578	1.37689
1.04028	0.81062	0.67803	0.59058		
3626744.82	20.01638	18.54391	8.42672	4.06008	2.49376
1.55633	1.19033	0.97650	0.82017		
3626548.96	14.59241	18.16964	15.42378	8.11911	4.18645
2.52419	1.76261	1.36182	1.08656		
3626353.10	4.98681	6.72663	7.57239	6.29713	4.94291
3.54947	2.48618	1.82453	1.41128		
3626157.24	2.89488	3.87545	3.90087	4.01178	3.59240
3.18620	2.81592	2.27731	1.80572		
3625961.38	1.94988	2.59853	2.55648	2.93520	2.69941
2.52787	2.30868	2.14783	1.95815		
3625765.52	1.46644	2.00283	1.96870	2.11181	2.25503
2.07661	1.94706	1.80007	1.70211		
3625569.66	1.18766	1.57716	1.61142	1.61447	1.82616
1.75976	1.67132	1.56352	1.47749		
3625373.80	1.07597	1.34678	1.26597	1.33054	1.39983
1.60029	1.39825	1.39437	1.33402		
3625177.94	0.93411	1.10298	1.09110	1.17467	1.20448
1.30872	1.32130	1.16961	1.16596		
3624982.08	0.83992	0.97342	0.96887	1.03868	1.05165
1.05850	1.16343	1.11008	0.99951		
3624786.22	0.75542	0.84168	0.86033	0.93493	0.90101
0.93313	1.00460	1.03817	0.92977		
3624590.36	0.70047	0.74414	0.78134	0.82813	0.81990
0.80760	0.81640	0.92349	0.91255		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***

*** 14:43:40

PAGE 38

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	494372.98	494567.08	494761.18

3628507.56	0.11970	0.11362	0.11146
3628311.70	0.12626	0.12024	0.12076
3628115.84	0.13931	0.12993	0.13503
3627919.98	0.16693	0.16755	0.14903
3627724.12	0.21226	0.20591	0.15180
3627528.26	0.29243	0.28413	0.19227
3627332.40	0.42533	0.37988	0.22544
3627136.54	0.46488	0.42921	0.38152
3626940.68	0.52248	0.47648	0.44367
3626744.82	0.72015	0.62771	0.56146
3626548.96	0.92394	0.80213	0.70440
3626353.10	1.12297	0.92486	0.78063
3626157.24	1.44718	1.17358	1.00287
3625961.38	1.64955	1.39740	1.17873
3625765.52	1.62874	1.50149	1.29663
3625569.66	1.38719	1.35387	1.30372
3625373.80	1.24847	1.16293	1.13673
3625177.94	1.14606	1.07732	1.01567
3624982.08	1.03394	0.99155	0.93174
3624786.22	0.90036	0.89885	0.88276
3624590.36	0.82448	0.76643	0.80972

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 39

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

	492883.25	3625830.80	2.14509	492919.80
3625834.65		2.10292		
	492955.07	3625845.55	2.13325	493069.86
3625832.73		2.14400		
	493094.87	3625832.73	2.16836	493110.90
3625837.21		2.19855		
	493151.95	3625834.01	2.23211	493166.70
3625837.86		2.27204		
	493187.86	3625836.57	2.30463	493201.33
3625836.57		2.32739		
	493240.44	3625836.57	2.38107	492881.32
3625908.40		2.37306		
	492906.98	3625898.14	2.28640	492901.84
3625911.60		2.32920		
	492928.14	3625914.81	2.32118	492933.91
3625898.14		2.27430		
	492951.87	3625908.40	2.31923	492973.67
3625907.11		2.33701		
	492993.55	3625914.17	2.37827	492996.11
3625897.50		2.33110		
	493015.99	3625896.85	2.34355	493023.05
3625912.24		2.39438		
	493044.21	3625907.11	2.39812	493066.66
3625907.76		2.39325		
	493085.25	3625912.24	2.42956	493087.18
3625895.57		2.37727		
	493108.98	3625911.60	2.43492	493112.19
3625897.50		2.39097		
	493133.99	3625901.98	2.47278	492874.27
3625788.48		2.03554		
	492894.15	3625789.12	2.01777	492910.18
3625790.40		2.00421		
	492930.70	3625786.55	1.97639	492947.38
3625791.04		1.99743		
	492963.41	3625787.84	2.00536	492982.65
3625787.84		2.02405		
	492999.96	3625787.84	2.03189	493021.12
3625791.04		2.04899		
	493036.52	3625789.12	2.05037	493055.75
3625789.76		2.06361		
	493076.28	3625787.84	2.06569	493094.87
3625787.84		2.05762		
	493112.83	3625788.48	2.04896	493129.50
3625787.19		2.05547		

493148.74	3625787.19	2.07515	493164.77
3625790.40	2.09701		
493184.65	3625789.12	2.11523	493201.97
3625791.04	2.14959		
493221.21	3625790.40	2.17835	493238.52
3625791.04	2.23925		
492780.00	3626415.01	8.53435	492778.72
3626388.08	7.62178		
492747.94	3626386.16	6.60465	492742.16
3626418.22	7.25473		
492699.20	3626422.71	6.38162	492697.92
3626391.93	5.65552		
492678.68	3626411.81	6.06922	492626.09
3626426.56	6.87252		
492606.85	3626435.54	7.39944	492599.16
3626405.39	6.32378		
492491.20	3626644.88	14.28573	492517.36
3626636.70	16.67246		
492521.18	3626603.45	17.06919	492521.72
3626582.19	16.40317		
492512.46	3626553.84	14.70873	492513.55
3626533.13	13.60135		
492501.01	3626506.42	11.96100	492490.65
3626485.70	10.76747		
492479.21	3626464.45	9.71748	492466.12
3626447.00	8.91809		
492447.59	3626418.66	7.78967	492431.78
3626430.65	8.18298		
492481.93	3626620.35	14.32144	492482.48
3626594.18	14.40846		
492479.21	3626572.92	13.87000	492477.02
3626546.76	13.16301		
492467.76	3626523.32	12.04916	492463.94
3626507.51	11.41648		
492450.86	3626492.79	10.63778	492427.42
3626474.80	9.65491		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:43:40

PAGE 40

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
492402.89	3626460.63		8.88626	492803.94
3626616.07	24.31135			
492823.25	3626567.17		20.59435	492838.34
3626526.92	16.18839			
493039.78	3625834.45		2.16259	492791.92
3626663.04	33.45300			
492731.11	3626741.92		30.77086	492774.75
3626728.05	29.90511			
493013.27	3625844.49		2.19694	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 41

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, STCK1 , STCK2 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
491849.68	490879.18 491073.28 491267.38 491461.48 491655.58
492043.78	492237.88 492431.98
3628507.56	1.87757 2.01004 2.09152 2.31069 2.41591

2.63306	2.71570	2.67631	2.87754		
3628311.70	2.05497	2.20674	2.38950	2.48634	2.80277
3.03684	3.20235	3.10912	3.16486		
3628115.84	2.19122	2.41904	2.65609	2.86033	3.10999
3.51879	3.80870	3.72240	3.70088		
3627919.98	2.24118	2.56380	2.93397	3.22273	3.59531
4.11512	4.35134	4.68720	4.43198		
3627724.12	2.52842	2.69322	3.08301	3.63353	4.20910
4.63930	5.16892	6.02885	5.39354		
3627528.26	2.94638	3.20785	3.44132	3.94653	4.69740
5.49387	6.11105	7.12113	7.65551		
3627332.40	3.17712	3.56833	4.12721	4.63102	5.13547
6.08925	7.54210	9.52353	13.29806		
3627136.54	3.59843	4.02464	4.61218	5.28630	6.24901
7.31267	9.07442	12.28324	16.68896		
3626940.68	3.77257	4.28510	5.00022	5.99622	7.33065
9.22245	12.04867	17.02429	27.91276		
3626744.82	4.37342	5.32631	5.86260	6.98514	8.34614
11.93313	17.64173	28.54594	51.30078		
3626548.96	5.34332	6.40185	7.05356	9.64986	11.10208
14.16943	23.87664	46.48429	81.15837		
3626353.10	5.68932	7.51931	9.04342	10.36058	15.73979
17.52680	31.18384	30.82783	35.19637		
3626157.24	5.82878	7.29658	10.88124	13.70335	17.79222
21.60748	24.85501	25.69993	25.20914		
3625961.38	6.79837	7.98543	9.66092	12.00800	16.68822
17.97996	16.23909	15.83639	17.32304		
3625765.52	7.37010	9.42322	10.18065	10.70527	11.67782
11.93580	11.95640	12.17437	15.64654		
3625569.66	7.62132	8.98556	10.82976	11.55036	10.66500
10.86845	9.61196	10.80742	13.36846		
3625373.80	7.33640	8.09324	8.15740	9.82322	10.11130
10.35070	9.65066	10.88376	12.06932		
3625177.94	6.75127	8.36060	8.31037	7.81908	8.78452
8.90440	9.20596	7.93956	8.67533		
3624982.08	6.15576	7.24324	7.19053	7.40775	7.48617
7.46754	7.37452	6.58998	7.02756		
3624786.22	6.32596	5.94465	6.44577	6.53757	6.23006
6.15764	6.01777	5.51530	5.70898		
3624590.36	5.48535	5.60864	5.24767	5.28831	5.24907
5.16973	5.07187	4.99470	5.09897		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 42

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, STCK1 , STCK2 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	2.87526	2.80227	2.37495	2.50558	2.35255
2.28553	1.65384	1.22529	0.59754		
3628311.70	3.23717	3.25170	2.68543	2.58574	2.71448
2.50503	1.69688	1.26012	0.51829		
3628115.84	3.76613	3.46345	3.28055	3.52449	3.22819
2.73113	1.70780	1.28684	0.57527		
3627919.98	4.28591	4.27347	3.86572	4.15506	2.70619
2.57060	1.77190	1.13988	0.65148		
3627724.12	5.40697	6.50671	5.36125	5.23941	4.19152
2.70089	1.90923	1.42104	0.88781		
3627528.26	8.52512	7.35931	7.80707	4.53973	3.90157
4.31008	2.30023	1.93652	1.50625		
3627332.40	11.49914	10.64014	10.60258	8.15755	4.45898
3.27874	2.60666	2.27477	1.94866		
3627136.54	18.12482	16.32137	12.31478	9.23674	7.25863
5.77634	3.13298	2.63437	2.62227		
3626940.68	42.79096	32.34595	20.16119	13.09091	9.38588
7.81388	5.83155	4.94107	3.53490		
3626744.82	433.44215	99.14149	39.13012	20.84064	14.20046
8.65917	6.72838	5.49985	4.77251		
3626548.96	116.74633	199.73870	78.25210	31.78882	17.35905
13.33588	10.06359	8.00449	5.89115		
3626353.10	40.34884	40.01368	56.95937	37.64661	23.82398
16.55958	11.74299	8.73700	7.48449		
3626157.24	22.83106	23.46865	27.83488	23.95425	19.63323
18.96832	15.21138	10.54894	8.04537		
3625961.38	18.43953	19.75951	25.17693	21.88172	16.88006
13.56772	13.61428	11.04351	9.31827		

3625765.52		19.16966	37.09386	55.33517	36.18128	18.74398
13.75602		11.03588	9.85824	9.47316		
3625569.66		16.63406	16.84142	17.69202	20.10072	18.47049
14.05335		11.18584	9.27045	8.10568		
3625373.80		11.17409	10.50464	10.62737	12.15140	12.18502
12.84940		11.32679	9.50848	8.28946		
3625177.94		8.27400	8.52776	8.34868	9.77235	9.42554
9.73187		8.81564	8.14631	7.88998		
3624982.08		6.85077	6.82641	6.44192	7.87650	7.21786
7.29930		7.61038	7.00950	6.62083		
3624786.22		5.68646	5.98377	5.48599	6.04508	5.98320
6.20920		6.45648	6.42902	5.84102		
3624590.36		5.10241	5.30066	4.77943	4.90906	5.30466
5.54514		5.87042	5.64223	5.43322		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 43

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , STCK1 , STCK2 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)
		494372.98	494567.08	494761.18	

3628507.56		0.41076	0.40748	0.41037
3628311.70		0.45094	0.43465	0.43666
3628115.84		0.50384	0.47937	0.46167
3627919.98		0.59204	0.56944	0.52559
3627724.12		0.75175	0.83528	0.57022
3627528.26		1.32681	1.24710	0.68639

3627332.40	1.74522	1.55787	0.88485
3627136.54	2.13323	1.89395	1.57188
3626940.68	2.87337	2.51068	2.16293
3626744.82	4.30209	3.78667	3.05310
3626548.96	4.97091	4.31415	3.80105
3626353.10	5.50686	5.16281	4.16119
3626157.24	6.74750	5.23931	5.10695
3625961.38	8.69111	6.44765	6.19957
3625765.52	8.55914	7.35753	6.50861
3625569.66	7.77015	7.70253	6.94522
3625373.80	7.28374	6.67710	6.41020
3625177.94	7.14495	6.40585	5.89542
3624982.08	6.87769	6.21349	5.82919
3624786.22	5.54918	6.03195	5.75160
3624590.36	5.10948	5.10206	5.00248

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 44

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , STCK1 , STCK2 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

492883.25	3625830.80	38.47497	492919.80
3625834.65	43.01993		
492955.07	3625845.55	34.15343	493069.86
3625832.73	114.67989		
493094.87	3625832.73	79.00150	493110.90
3625837.21	53.64629		

493151.95	3625834.01	38.72850	493166.70
3625837.86	33.65779		
493187.86	3625836.57	30.07247	493201.33
3625836.57	28.09239		
493240.44	3625836.57	24.48858	492881.32
3625908.40	22.77409		
492906.98	3625898.14	24.23217	492901.84
3625911.60	23.66330		
492928.14	3625914.81	24.82708	492933.91
3625898.14	25.46449		
492951.87	3625908.40	25.94487	492973.67
3625907.11	27.05609		
492993.55	3625914.17	28.34857	492996.11
3625897.50	28.65276		
493015.99	3625896.85	32.95410	493023.05
3625912.24	31.14762		
493044.21	3625907.11	32.79403	493066.66
3625907.76	33.50929		
493085.25	3625912.24	29.97947	493087.18
3625895.57	35.44317		
493108.98	3625911.60	29.18069	493112.19
3625897.50	31.23058		
493133.99	3625901.98	28.62447	492874.27
3625788.48	47.17360		
492894.15	3625789.12	53.12168	492910.18
3625790.40	57.49487		
492930.70	3625786.55	60.15651	492947.38
3625791.04	63.71864		
492963.41	3625787.84	59.30817	492982.65
3625787.84	60.34257		
492999.96	3625787.84	67.54186	493021.12
3625791.04	87.98422		
493036.52	3625789.12	89.70860	493055.75
3625789.76	94.93224		
493076.28	3625787.84	96.02001	493094.87
3625787.84	86.84291		
493112.83	3625788.48	67.85591	493129.50
3625787.19	59.98773		
493148.74	3625787.19	51.47181	493164.77
3625790.40	45.51693		
493184.65	3625789.12	39.60021	493201.97
3625791.04	35.38141		
493221.21	3625790.40	31.61369	493238.52
3625791.04	28.62461		
492780.00	3626415.01	67.75677	492778.72
3626388.08	53.42052		
492747.94	3626386.16	51.46367	492742.16
3626418.22	68.05020		
492699.20	3626422.71	67.85468	492697.92
3626391.93	52.64866		

492678.68	3626411.81	59.18800	492626.09
3626426.56	56.16007		
492606.85	3626435.54	64.53376	492599.16
3626405.39	50.83769		
492491.20	3626644.88	123.46774	492517.36
3626636.70	138.74579		
492521.18	3626603.45	145.31222	492521.72
3626582.19	137.29775		
492512.46	3626553.84	118.53251	492513.55
3626533.13	106.02825		
492501.01	3626506.42	91.77235	492490.65
3626485.70	84.80913		
492479.21	3626464.45	76.58661	492466.12
3626447.00	64.87240		
492447.59	3626418.66	46.83034	492431.78
3626430.65	48.31797		
492481.93	3626620.35	120.83762	492482.48
3626594.18	120.71220		
492479.21	3626572.92	115.13173	492477.02
3626546.76	106.37875		
492467.76	3626523.32	95.08011	492463.94
3626507.51	89.51411		
492450.86	3626492.79	83.91001	492427.42
3626474.80	69.30372		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 45

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , STCK1 , STCK2 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

Y-COORD (M)	CONC		
492402.89	3626460.63	50.20222	492803.94
3626616.07	246.19014		
492823.25	3626567.17	193.82813	492838.34
3626526.92	175.67170		
493039.78	3625834.45	166.60330	492791.92
3626663.04	252.26155		
492731.11	3626741.92	237.83282	492774.75
3626728.05	173.87129		
493013.27	3625844.49	118.09015	

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:43:40

PAGE 46

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)
490879.18		491073.28
491461.48	491655.58	491267.38

3628507.6	56.69204 (21011618)	55.77678 (21012124)	61.77965 (20112323)
69.60676	(22102521)	83.61562 (21020820)	
3628311.7	63.99333 (22120701)	66.84064 (21011618)	68.73292 (21012124)
79.69747	(22011623)	82.46118 (21021402)	
3628115.8	63.85657 (20101702)	77.14991 (22120701)	80.37284 (21011618)
85.70619	(21012124)	99.90025 (22011623)	

3627920.0	76.10676 (22120522)	75.35544 (20101702)	93.84575 (22120701)
99.12778 (21011618)	108.03213 (21012124)		
3627724.1	69.02177 (20040403)	86.83432 (22120522)	94.96475 (20010719)
114.75075 (22120701)	126.48777 (21011618)		
3627528.3	71.68889 (22011624)	80.79491 (21021307)	100.59722 (22010221)
130.04849 (22120522)	139.50112 (22120701)		
3627332.4	73.83541 (22123104)	88.89075 (21011623)	100.11656 (20010902)
117.43363 (21021307)	162.55626 (22010221)		
3627136.5	80.57224 (22120623)	92.56513 (21122422)	108.66931 (20010821)
124.85014 (22123104)	159.01844 (21011623)		
3626940.7	79.90371 (21122421)	93.16018 (21122421)	114.89029 (22120524)
137.03437 (22120524)	173.12388 (22120623)		
3626744.8	91.00620 (21012919)	108.99957 (21012919)	123.08135 (21012919)
147.06361 (21012919)	179.91278 (21012919)		
3626549.0	113.45843 (20122123)	173.12289 (20122123)	262.74778 (20122123)
391.46155 (20122123)	543.49678 (20122123)		
3626353.1	302.77200 (20122123)	289.74520 (20122123)	234.65971 (20122123)
170.58900 (20022501)	268.97689 (22010222)		
3626157.2	99.94598 (22011222)	113.19866 (20021601)	168.88465 (20021722)
201.27411 (20022324)	338.36026 (21030222)		
3625961.4	96.64436 (20021722)	108.42589 (20022324)	135.29544 (21030222)
378.28870 (21030222)	487.65718 (20011520)		
3625765.5	90.52747 (22012701)	229.90929 (21030222)	333.57142 (21030222)
385.53822 (20011520)	368.23413 (21110104)		
3625569.7	256.81163 (21030222)	255.13081 (22010619)	389.19922 (20011520)
346.18804 (21110104)	333.01851 (20100406)		
3625373.8	200.12842 (20011520)	286.27655 (20011520)	217.01167 (21110104)
323.53879 (20100406)	483.25519 (20111623)		
3625177.9	230.05060 (20011520)	194.80813 (21110104)	218.44837 (20100406)
264.68738 (20111623)	396.07297 (22012923)		
3624982.1	136.94855 (21110104)	173.52349 (20100406)	250.78778 (20100406)
272.84211 (20111623)	325.79771 (22012923)		
3624786.2	126.70021 (20100406)	214.60751 (20100406)	259.58526 (20111623)
303.45385 (22012923)	145.06233 (22012923)		
3624590.4	194.02783 (20100406)	210.54192 (20111623)	191.01516 (22012923)
193.79900 (22012923)	73.90630 (22122304)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 47

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,

L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD			X-COORD (METERS)
(METERS)			
	491849.68	492043.78	492237.88
492431.98	492626.08		

3628507.6		82.95000 (22090524)	91.19612 (22102624)	93.94260 (22011621)
89.16181	(22102623)	65.40840 (21102918)		
3628311.7		104.37913 (21020820)	115.40186 (20022222)	103.42775 (22011621)
101.49913	(22102623)	72.18116 (21102918)		
3628115.8		111.81016 (20090706)	122.89755 (20022222)	124.49422 (20101705)
117.93390	(22102623)	82.56509 (21102918)		
3627920.0		120.65988 (22102521)	153.53770 (21020820)	160.82312 (22102624)
131.51693	(22011621)	96.27075 (21102918)		
3627724.1		136.37348 (21012124)	162.22841 (20090706)	206.94373 (20022222)
191.12205	(22011621)	121.44205 (21102918)		
3627528.3		169.24816 (21011618)	195.78533 (22011623)	258.19575 (21020820)
246.94070	(20101705)	187.42186 (21102918)		
3627332.4		186.94554 (20101702)	243.33989 (21011618)	294.25319 (22011623)
468.06209	(22102624)	242.40880 (22102623)		
3627136.5		194.53389 (21021307)	306.20310 (22120522)	394.59731 (21011618)
569.66458	(21020820)	470.76764 (22102623)		
3626940.7		222.68194 (20121405)	297.92200 (21011623)	440.83138 (20040403)
816.37675	(22120523)	1019.99773 (22102623)		
3626744.8		241.96313 (20122207)	345.88506 (22012506)	541.57342 (22120624)
851.97482	(22120524)	2910.24415 (22120701)		
3626549.0		673.52946 (20122123)	663.40974 (20122123)	689.72110 (20021722)
1070.63242	(21030222)	1253.01674 (22120820)		
3626353.1		257.77189 (20120923)	709.97605 (21030222)	424.84380 (20100901)
454.34054	(20111623)	546.28757 (21120821)		
3626157.2		639.70857 (21030222)	714.14392 (21110104)	765.72048 (20100406)
506.94340	(22121021)	589.42215 (20052503)		
3625961.4		588.87437 (21110104)	589.16491 (20100406)	636.33931 (22012923)
290.01649	(21121921)	517.81818 (20011420)		
3625765.5		442.98771 (20100406)	474.65227 (22012923)	168.50016 (22021320)
261.21679	(21121921)	235.82930 (21040805)		
3625569.7		412.89405 (20111623)	346.72339 (22012923)	138.12150 (22120820)
145.29141	(20021922)	158.97315 (21031805)		
3625373.8		508.01375 (22012923)	120.18060 (22122304)	129.65249 (21121921)

224.76131 (20021220) 146.54171 (21031805)
3625177.9 | 240.66817 (22012923) 129.06463 (22021320) 104.17333 (21121921)
228.62020 (20090401) 120.45441 (21031805)
3624982.1 | 102.98360 (22122304) 116.51495 (22120820) 92.96045 (21121921)
140.38772 (20012222) 230.46757 (20072601)
3624786.2 | 95.27404 (22021320) 91.71015 (21121921) 85.98653 (21120123)
94.09916 (20012222) 86.70897 (21031805)
3624590.4 | 76.34648 (22120820) 83.67870 (21121921) 84.21711 (20021922)
89.17180 (20012222) 182.34798 (21101320)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 48

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	492820.18	493014.28	493208.38
493402.48	493596.58		

3628507.6 | 79.75190 (22102021) 44.85581 (22102202) 53.04174 (22102202)
35.91388 (20101418) 43.31244 (21080821)
3628311.7 | 87.18784 (22102021) 55.68970 (22102202) 41.56574 (22102202)
40.72613 (20101418) 63.05414 (21080821)
3628115.8 | 81.71483 (22102021) 72.77283 (22102202) 63.13883 (20101418)
70.58120 (21080821) 80.72877 (20092419)
3627920.0 | 89.49880 (22102021) 80.43062 (22102202) 76.21574 (20101418)
159.66593 (20121022) 169.58949 (21122302)
3627724.1 | 134.68641 (20022901) 119.99475 (20101624) 97.00702 (21080821)
81.49701 (20092419) 146.21217 (20092420)

3627528.3	127.12265 (22102202)	108.13229 (20101418)	213.20705 (22010702)
183.29375 (20092420)	180.76321 (22091021)		
3627332.4	203.96235 (22102202)	181.82433 (21080821)	229.44460 (20092420)
324.73111 (22091021)	134.89852 (20032305)		
3627136.5	258.46190 (22102202)	216.03808 (20092420)	147.00999 (20032305)
144.26326 (22122819)	193.59192 (20081602)		
3626940.7	426.03778 (20092419)	316.66713 (20032305)	171.31690 (20040319)
151.91143 (21052124)	188.75611 (22120120)		
3626744.8	812.62650 (22120120)	538.83070 (22120120)	348.80387 (22120119)
295.16126 (22120119)	178.09694 (21080723)		
3626549.0	1529.54635 (22010618)	554.36818 (20020619)	499.99585 (20041206)
386.45044 (20041923)	189.73831 (20101719)		
3626353.1	547.43496 (22011906)	564.30665 (22010618)	406.17448 (21070303)
293.28670 (21020922)	321.64576 (22100605)		
3626157.2	392.38036 (22052506)	448.14583 (21092704)	331.68951 (21072106)
242.08368 (20053106)	329.03482 (22101020)		
3625961.4	326.46854 (22052506)	200.85926 (22011907)	194.91210 (20080523)
255.19360 (21072106)	183.67848 (21090402)		
3625765.5	176.93962 (22052506)	173.83174 (21120822)	200.31638 (20050806)
225.22572 (21082802)	203.04871 (21072106)		
3625569.7	167.49534 (22011921)	204.43150 (22052206)	303.85597 (22081002)
150.36655 (21082624)	154.21393 (21021008)		
3625373.8	202.19647 (22052124)	117.87671 (21052503)	122.93614 (21103122)
118.65279 (21013119)	153.46149 (20011419)		
3625177.9	247.97090 (21103123)	220.16473 (22052506)	148.68485 (21120822)
181.83221 (21080802)	187.88467 (21092704)		
3624982.1	220.34609 (21103123)	167.69009 (22052506)	202.45342 (20080623)
119.74188 (22100905)	108.40755 (20050806)		
3624786.2	203.35108 (22081103)	124.02201 (22052506)	135.96977 (22052206)
105.02125 (21092803)	93.13879 (21080802)		
3624590.4	106.84810 (20082203)	128.93685 (20042523)	83.27066 (22101306)
115.75669 (21120822)	156.62477 (22100505)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 49

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
	493790.68		493984.78	494178.88
494372.98		494567.08		

3628507.6	95.37549 (20121022)	42.92279 (22011808)	10.61744 (20041221)
7.85094 (22022102)	8.17243 (20031823)		
3628311.7	129.45310 (22010702)	25.45694 (21050722)	9.42338 (22022102)
8.69420 (20031823)	6.25645 (22022205)		
3628115.8	111.83815 (21122302)	22.39175 (21041206)	11.19879 (20031823)
7.58456 (22022205)	7.94421 (20041219)		
3627920.0	75.78416 (20092420)	17.32382 (21011717)	9.46932 (22022205)
9.75452 (20041219)	6.68140 (22022202)		
3627724.1	59.98754 (21021324)	22.98483 (22102022)	12.68578 (22100522)
11.15587 (20051006)	12.83951 (22052821)		
3627528.3	99.54976 (22091021)	38.66812 (21030804)	21.94972 (21051703)
23.89987 (21070819)	26.07698 (20050101)		
3627332.4	92.51836 (22122819)	47.23252 (21070819)	53.55691 (20050101)
60.17549 (22102204)	40.26061 (20020308)		
3627136.5	98.50805 (22102204)	85.06050 (21091523)	143.98402 (21072203)
103.80439 (22102203)	81.25073 (22102203)		
3626940.7	227.94129 (22120120)	144.74076 (22120120)	161.60600 (20062123)
163.05136 (20062123)	151.01658 (20062123)		
3626744.8	145.06731 (21080723)	121.52928 (21080723)	109.54035 (21080723)
100.51256 (21080723)	108.97424 (22040302)		
3626549.0	196.48637 (21041404)	128.93129 (21021002)	91.31332 (21021002)
79.85142 (20070922)	72.65882 (20070922)		
3626353.1	278.29944 (21090204)	256.04416 (20121024)	100.11190 (20051521)
188.72773 (21040722)	119.36941 (21081523)		
3626157.2	304.18174 (21052723)	189.35789 (22101204)	166.20939 (22100605)
178.80696 (21100704)	144.56553 (20041206)		
3625961.4	264.71333 (22082502)	162.60671 (22082122)	143.57357 (21090701)
141.55098 (20090703)	121.82812 (22100605)		
3625765.5	122.46965 (21090402)	125.88825 (21040405)	139.02978 (22101020)
162.02313 (21091622)	131.81380 (21090701)		
3625569.7	156.58266 (21072106)	120.43923 (20080822)	120.82555 (20053106)
116.03523 (21092401)	165.92877 (22091005)		
3625373.8	223.26999 (21021008)	140.89148 (21072106)	110.16693 (22040123)
105.74033 (20071003)	122.36672 (20092022)		
3625177.9	107.60486 (20041404)	106.84621 (21021008)	123.88427 (21072106)
104.89320 (21081705)	112.43351 (20071003)		
3624982.1	94.57594 (21092804)	95.60780 (20080523)	103.11866 (21021008)

134.27316 (21072106) 101.35875 (21081705)
3624786.2 | 107.40634 (20100623) 98.86189 (21092804) 87.87665 (21082802)
92.24573 (21071502) 138.30971 (21072106)
3624590.4 | 151.88200 (22082604) 99.04653 (21092704) 85.86578 (20041404)
105.99882 (21021008) 106.89005 (22081701)
▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 50
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	6.70115 (21021519)
3628311.7	6.93802 (20041219)
3628115.8	6.22660 (20041219)
3627920.0	8.34535 (20100724)
3627724.1	11.69784 (20060406)
3627528.3	12.97057 (21051806)
3627332.4	14.39062 (20121718)
3627136.5	42.78266 (22120120)
3626940.7	120.99838 (20062123)
3626744.8	137.34632 (21070923)
3626549.0	65.31712 (20070922)
3626353.1	177.78897 (21083001)
3626157.2	66.47122 (20092521)
3625961.4	85.30116 (21043024)
3625765.5	154.67394 (21081903)

3625569.7 | 158.29804 (21091622)
3625373.8 | 104.43083 (21070303)
3625177.9 | 105.24075 (21040405)
3624982.1 | 139.83356 (20071003)
3624786.2 | 119.73648 (20102302)
3624590.4 | 119.65637 (21072106)

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 51

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	242.00338	(22052506)	492919.80
3625834.65	176.03265	(22052206)		
492955.07	3625845.55	154.52603	(22052206)	493069.86
3625832.73	172.28056	(22011907)		
493094.87	3625832.73	158.07269	(21020206)	493110.90
3625837.21	157.68757	(20050806)		
493151.95	3625834.01	198.86568	(20050806)	493166.70
3625837.86	194.16544	(20050806)		
493187.86	3625836.57	173.51716	(20100623)	493201.33
3625836.57	162.49607	(20100623)		
493240.44	3625836.57	176.62947	(22061105)	492881.32
3625908.40	216.28923	(22052506)		
492906.98	3625898.14	177.30109	(22052206)	492901.84
3625911.60	188.74512	(22052206)		
492928.14	3625914.81	173.00158	(22052206)	492933.91

3625898.14	160.60783	(22052206)	
492951.87	3625908.40	184.33736	(22080506) 492973.67
3625907.11	190.42939	(21120822)	
492993.55	3625914.17	203.68374	(22011906) 492996.11
3625897.50	196.08659	(22011906)	
493015.99	3625896.85	196.06770	(22011906) 493023.05
3625912.24	192.86941	(22011907)	
493044.21	3625907.11	180.53451	(22011907) 493066.66
3625907.76	177.67946	(21020206)	
493085.25	3625912.24	200.17856	(20050806) 493087.18
3625895.57	187.73333	(20050806)	
493108.98	3625911.60	216.62622	(20050806) 493112.19
3625897.50	214.80068	(20050806)	
493133.99	3625901.98	214.20679	(20050806) 492874.27
3625788.48	267.48046	(22052506)	
492894.15	3625789.12	237.52710	(22052506) 492910.18
3625790.40	199.69377	(22052506)	
492930.70	3625786.55	185.37383	(22052206) 492947.38
3625791.04	181.51162	(22052206)	
492963.41	3625787.84	170.17719	(22052206) 492982.65
3625787.84	164.16332	(21120822)	
492999.96	3625787.84	175.99484	(21120822) 493021.12
3625791.04	168.85030	(21120822)	
493036.52	3625789.12	165.48725	(22011906) 493055.75
3625789.76	181.04425	(22011906)	
493076.28	3625787.84	174.08600	(22011906) 493094.87
3625787.84	168.97791	(22052123)	
493112.83	3625788.48	156.90363	(21080802) 493129.50
3625787.19	156.64123	(22081801)	
493148.74	3625787.19	176.91223	(20050806) 493164.77
3625790.40	196.00668	(20050806)	
493184.65	3625789.12	201.62378	(20050806) 493201.97
3625791.04	189.68770	(20050806)	
493221.21	3625790.40	175.19929	(20100623) 493238.52
3625791.04	173.17445	(21092704)	
492780.00	3626415.01	1089.50452	(21120822) 492778.72
3626388.08	824.05654	(21120822)	
492747.94	3626386.16	932.81135	(22052506) 492742.16
3626418.22	1113.43744	(22052506)	
492699.20	3626422.71	1024.69540	(22080423) 492697.92
3626391.93	735.77914	(21081704)	
492678.68	3626411.81	794.24476	(22011802) 492626.09
3626426.56	684.34026	(21120821)	
492606.85	3626435.54	949.24447	(21020924) 492599.16
3626405.39	656.00488	(21020924)	
492491.20	3626644.88	1393.04058	(20122123) 492517.36
3626636.70	1297.43090	(20122123)	
492521.18	3626603.45	1248.64402	(21110104) 492521.72
3626582.19	1429.56561	(21030222)	
492512.46	3626553.84	1393.58336	(20011520) 492513.55

3626533.13	1353.68911	(21110104)		
492501.01	3626506.42	1287.05646	(20100406)	492490.65
3626485.70	1330.77313	(20100406)		
492479.21	3626464.45	1356.49777	(20100406)	492466.12
3626447.00	1108.46893	(20100406)		
492447.59	3626418.66	738.66761	(20102402)	492431.78
3626430.65	679.83919	(20102402)		
492481.93	3626620.35	1223.45206	(21030222)	492482.48
3626594.18	1269.03404	(20011520)		
492479.21	3626572.92	1259.25947	(21030222)	492477.02
3626546.76	1333.08806	(21030222)		
492467.76	3626523.32	1309.19469	(20011520)	492463.94
3626507.51	1326.84785	(20011520)		
492450.86	3626492.79	1392.98697	(20011520)	492427.42
3626474.80	1216.25712	(20011520)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 52

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	627.35390	(20102401)	492803.94
3626616.07	1836.06323	(22120419)		
492823.25	3626567.17	1623.98060	(22011821)	492838.34
3626526.92	1353.84230	(21102120)		
493039.78	3625834.45	186.31254	(22011906)	492791.92
3626663.04	1666.51480	(21061221)		

492731.11 3626741.92 1461.68189 (22040302) 492774.75
3626728.05 1191.29781 (22122819)
493013.27 3625844.49 171.88320 (22011906)

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 *** ***
*** 14:43:40

PAGE 53

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD			X-COORD (METERS)
(METERS)	490879.18	491073.28	491267.38
491461.48	491655.58		

- - - - -
- - - - -

3628507.6	89.46084 (21011618)	96.63241 (21031402)	104.51765 (22090601)
113.78232 (22062102)	119.88660 (20090706)		
3628311.7	126.41060 (22051505)	103.37506 (21011618)	101.49743 (21031402)
99.53714 (21052422)	151.29749 (22062102)		
3628115.8	108.51920 (20101805)	147.41878 (22051505)	117.72773 (21011618)
106.46860 (22011702)	105.71684 (22080803)		
3627920.0	138.08606 (21052423)	130.65923 (22122902)	163.49564 (22032023)
132.60540 (21011618)	120.69773 (22011702)		
3627724.1	163.47457 (21081604)	142.45420 (20101707)	171.90060 (22122902)
193.39084 (22032023)	157.82980 (21011618)		
3627528.3	178.16604 (20081623)	180.66862 (22090223)	170.01830 (22120202)
202.46033 (21052423)	205.61837 (22032023)		
3627332.4	147.44354 (21020722)	161.91590 (20061501)	204.97159 (20081623)
198.14000 (21081604)	179.25132 (21120103)		
3627136.5	182.25969 (22101701)	183.33485 (21040202)	187.41744 (21020722)
193.64464 (21021623)	231.18682 (20081623)		
3626940.7	166.14967 (22041606)	164.86949 (21092022)	206.57498 (21092022)
207.45835 (20101220)	227.12357 (21040202)		
3626744.8	202.14667 (22040523)	227.59187 (22040523)	223.10177 (22062101)
246.04319 (22062101)	240.79827 (22011703)		
3626549.0	207.01298 (21101721)	226.66991 (21101721)	216.70846 (20042724)
272.02041 (20042724)	272.79626 (21090703)		

3626353.1	173.57856 (21061202)	223.60668 (20081402)	230.94899 (21112923)
257.62626 (21112923)	293.16489 (20052123)		
3626157.2	175.85290 (20103021)	197.86251 (22043021)	253.40378 (20061223)
255.74799 (22040823)	267.70516 (20121705)		
3625961.4	165.35254 (22110522)	169.78810 (22123102)	199.51641 (22081101)
220.20972 (22092801)	263.95981 (22050405)		
3625765.5	166.42236 (20021723)	209.87884 (22040423)	200.07042 (22050405)
192.89896 (22051302)	214.48630 (20101401)		
3625569.7	172.26439 (22050405)	199.68755 (22051302)	217.02970 (20022424)
264.22839 (22042324)	250.11685 (20061423)		
3625373.8	165.78748 (20071603)	188.34363 (20101401)	196.92747 (20051324)
236.76640 (20061423)	258.13927 (20052324)		
3625177.9	155.02649 (20032902)	212.14227 (21031622)	219.50233 (22120502)
213.56102 (20052324)	243.97262 (22062801)		
3624982.1	155.52598 (22050401)	210.41871 (20050604)	207.70874 (21100901)
209.69572 (20080806)	220.62725 (21071905)		
3624786.2	200.07139 (20050604)	181.95326 (21100901)	183.80839 (20080806)
217.91245 (21071905)	204.34827 (20050524)		
3624590.4	180.51218 (21100901)	164.57721 (21081303)	177.42480 (20080624)
188.29599 (21052501)	214.72871 (20092303)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 54

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)			
491849.68		492043.78	492237.88
492431.98	492626.08		

3628507.6	117.03577 (20011701)	107.25546 (22122822)	100.02566 (20101705)
103.26772 (22062022)	113.89899 (22062723)		
3628311.7	166.72904 (20050702)	153.20875 (21113001)	131.90967 (20111805)
104.70087 (22062022)	123.40726 (22062723)		
3628115.8	171.45103 (22102622)	170.13015 (22102522)	119.42670 (20111805)
133.19376 (22080905)	128.46135 (22062723)		

3627920.0	159.17826 (22062102)	197.54655 (20090706)	174.71646 (21113001)
135.78232 (22080905)	113.19473 (22062723)		
3627724.1	149.89780 (22090601)	211.42377 (22062102)	260.33862 (22102522)
142.50643 (20111805)	100.32368 (21071322)		
3627528.3	175.36554 (21011618)	166.27009 (22090601)	205.50091 (20090706)
147.21441 (22090703)	149.30370 (22062022)		
3627332.4	185.69445 (20101805)	208.37019 (21081301)	186.50000 (22090601)
387.66225 (22102522)	202.70901 (22080905)		
3627136.5	250.16154 (21081604)	242.13412 (22122902)	251.86067 (21081301)
296.74886 (22062102)	203.85465 (20111805)		
3626940.7	219.82271 (21021623)	278.19260 (20081623)	257.13349 (20031323)
330.50112 (21040201)	447.89963 (22102522)		
3626744.8	293.47609 (22041606)	354.80267 (20051623)	391.24694 (21112321)
392.95865 (20081623)	670.15464 (21040201)		
3626549.0	278.06594 (21090703)	368.93492 (21090703)	422.09682 (21090703)
513.29236 (21090703)	681.26697 (22092802)		
3626353.1	272.19189 (22092203)	336.70721 (20061223)	370.35513 (20121705)
475.81782 (20011918)	693.68159 (20120120)		
3626157.2	308.43248 (21030901)	320.83999 (20011918)	352.80982 (20101401)
429.18014 (20081404)	519.04824 (21020303)		
3625961.4	277.18948 (20071603)	322.72518 (20051324)	337.00356 (20052324)
384.90508 (21040801)	402.87495 (20112021)		
3625765.5	226.37152 (20041701)	270.82080 (20052324)	306.18924 (21071905)
328.83352 (20112421)	337.08821 (20121620)		
3625569.7	277.60103 (20052324)	230.18919 (21071905)	254.92569 (20092303)
292.25441 (21040224)	289.60557 (20021621)		
3625373.8	256.83159 (22062801)	251.85519 (21040801)	259.89107 (20112421)
302.88118 (20112021)	270.89019 (20021220)		
3625177.9	250.84472 (22100802)	271.79923 (21031722)	240.03877 (21040224)
263.23984 (20121620)	238.37096 (20070424)		
3624982.1	244.01074 (20060802)	227.63258 (22081704)	208.91754 (22052202)
215.74659 (21020924)	251.27063 (20090401)		
3624786.2	239.85456 (22081602)	225.51537 (20021622)	231.90154 (20112021)
212.67232 (20021621)	223.71534 (20090401)		
3624590.4	202.47476 (22081704)	209.76275 (20091424)	199.29679 (20070224)
212.94959 (20021220)	212.44667 (20101822)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 55

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)				X-COORD (METERS)
	492820.18		493014.28	493208.38
493402.48		493596.58		

3628507.6	149.09289 (22050623)	144.72225 (20081922)	163.66901 (21100706)	
145.08452 (22043024)	120.65531 (22050622)			
3628311.7	160.99771 (22050623)	141.40369 (20081922)	171.22088 (20031321)	
164.30237 (21081221)	163.37245 (22082322)			
3628115.8	153.82615 (22050623)	181.32377 (20022901)	192.96603 (20022304)	
185.36600 (21081221)	199.61341 (20101624)			
3627920.0	168.73412 (22050623)	213.47623 (20022901)	203.96319 (22061421)	
174.78824 (22082322)	160.52232 (21080821)			
3627724.1	240.21207 (22090503)	280.03742 (20022901)	216.42885 (21081221)	
246.44474 (20101624)	187.49346 (22081324)			
3627528.3	237.27096 (22090503)	274.14057 (21100706)	225.85913 (21081221)	
214.03346 (20100320)	221.48513 (21040924)			
3627332.4	275.30839 (22090503)	307.53768 (20031321)	329.98746 (20101624)	
293.68040 (22081324)	247.60441 (21052203)			
3627136.5	274.62407 (22090503)	239.59576 (21081221)	215.31268 (22081324)	
244.99741 (21052203)	255.87884 (22091021)			
3626940.7	367.31684 (22103119)	375.11299 (20101624)	298.02597 (21052203)	
265.90004 (20081923)	261.02519 (22051721)			
3626744.8	650.85219 (22090503)	511.95665 (21052203)	374.49930 (22051721)	
370.04981 (21072203)	189.89454 (21053101)			
3626549.0	871.31910 (20121705)	600.15132 (20101806)	497.54839 (20090820)	
365.14516 (20090820)	286.06179 (20090820)			
3626353.1	857.71690 (21060405)	674.95035 (21071001)	519.13477 (21052723)	
379.58175 (20092322)	322.15660 (21091323)			
3626157.2	598.29314 (20072601)	522.85633 (20082006)	443.69031 (20101720)	
365.23522 (22082502)	332.40359 (21052723)			
3625961.4	455.52314 (20072601)	420.46545 (22071905)	378.26889 (22050521)	
335.24673 (21071001)	300.64940 (22041522)			
3625765.5	383.01317 (20072601)	301.45650 (21080902)	321.25567 (21052323)	
285.68536 (22072124)	283.29948 (21071001)			
3625569.7	327.37015 (21101320)	243.52933 (22083006)	270.50453 (21091104)	
258.06896 (21071002)	234.13827 (20041520)			
3625373.8	306.37441 (22082605)	174.66643 (22083006)	228.52991 (20090822)	
222.08425 (21052323)	226.18263 (22050521)			
3625177.9	286.39620 (22082605)	185.12760 (20091122)	242.21278 (22071905)	
224.08144 (21103122)	221.45108 (21071002)			
3624982.1	265.51118 (22082605)	170.21024 (20082203)	197.07928 (22071905)	
192.90317 (20061224)	197.04407 (21052323)			
3624786.2	248.78467 (22082605)	174.33163 (22081103)	154.26441 (21030703)	
180.63285 (20090822)	169.22200 (22070522)			

3624590.4 | 231.73396 (22082605) 186.00108 (22081103) 142.11538 (21030703)
178.65699 (21080102) 168.62537 (21103122)
^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 56
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data
*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,
*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**
Y-COORD | X-COORD (METERS)
(METERS) | 493790.68 493984.78 494178.88
494372.98 494567.08

3628507.6	150.77438 (21072221)	135.97373 (20100320)	129.61899 (22081324)
83.40724 (21122302)	78.51290 (21070722)		
3628311.7	139.73359 (21080821)	129.86335 (22081324)	98.60381 (21040924)
77.84977 (21070722)	74.91868 (21052203)		
3628115.8	162.44951 (20100320)	165.52016 (22081324)	88.92749 (21070722)
80.32223 (21052203)	67.03738 (22061501)		
3627920.0	218.91597 (22081324)	118.54828 (22051722)	97.10721 (21052203)
76.99230 (22091021)	84.42035 (22091021)		
3627724.1	177.03560 (21122302)	164.50924 (21052203)	119.95118 (22091021)
94.23509 (22082422)	131.21111 (20081923)		
3627528.3	210.57861 (21052203)	196.74325 (22091021)	126.22115 (20081923)
142.64359 (20081923)	128.65220 (20071323)		
3627332.4	233.43221 (22091021)	204.06695 (20081923)	178.79326 (20071323)
175.81438 (22051721)	135.37566 (21090103)		
3627136.5	219.00097 (20071323)	210.90656 (22051721)	166.77092 (22061422)
209.09152 (20081602)	210.88132 (21072203)		
3626940.7	252.47125 (20081602)	259.93679 (21072203)	179.34195 (21091523)
145.66284 (21012119)	171.71764 (21080324)		
3626744.8	224.16915 (22072121)	206.36754 (22072121)	167.36722 (21041922)
171.71981 (21041922)	168.24648 (20062123)		
3626549.0	264.85229 (20090820)	237.24192 (21070923)	198.51194 (21070923)
187.52212 (21070923)	178.60815 (21070923)		
3626353.1	284.66420 (20070924)	263.78598 (20070924)	203.35183 (22091223)
204.19393 (22091223)	184.81550 (22091223)		

3626157.2	289.61903 (21072102)	249.34596 (21020719)	228.28465 (21091323)
214.68589 (21091323)	195.82482 (21040722)		
3625961.4	284.77042 (22073105)	258.90141 (21052723)	227.37693 (21072222)
229.34223 (20092322)	194.22372 (21020719)		
3625765.5	254.84391 (20071201)	247.20938 (22082502)	228.59078 (21063023)
217.64583 (21052723)	194.49041 (20090703)		
3625569.7	245.98187 (21071001)	243.84141 (20071201)	237.90304 (22041522)
217.52336 (22073105)	213.94552 (21063023)		
3625373.8	213.36750 (22062202)	219.48667 (21071001)	207.56371 (20042722)
189.57338 (22041522)	187.93186 (21082924)		
3625177.9	197.29715 (22080903)	183.01489 (22092722)	198.19594 (22091302)
181.79636 (20082121)	165.31643 (21071124)		
3624982.1	186.81132 (20090821)	162.33361 (22040623)	162.69475 (22092722)
182.26323 (22091302)	152.13931 (20082121)		
3624786.2	178.14475 (21071002)	163.75616 (22080903)	146.55415 (20041520)
147.04547 (22080901)	165.50758 (22091302)		
3624590.4	174.64005 (21052323)	160.25671 (20101621)	154.27171 (22080903)
137.68792 (22081224)	133.12541 (22080901)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 57

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	74.48462 (21052203)
3628311.7	69.23824 (22061501)
3628115.8	86.78178 (22091021)
3627920.0	74.85722 (20081923)
3627724.1	92.82909 (20071323)
3627528.3	113.93223 (22051721)
3627332.4	109.77440 (21110620)
3627136.5	138.81103 (21091523)
3626940.7	176.39160 (22072121)

3626744.8		148.16375	(20062123)
3626549.0		169.95609	(21070923)
3626353.1		167.74031	(21080724)
3626157.2		181.58479	(21040722)
3625961.4		176.41364	(20062523)
3625765.5		192.99227	(21072102)
3625569.7		188.43060	(21052723)
3625373.8		179.81394	(22073105)
3625177.9		176.47617	(22041522)
3624982.1		166.26528	(21071124)
3624786.2		143.30768	(20050501)
3624590.4		145.87029	(22091302)

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:43:40

PAGE 58
 *** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

 *** DISCRETE CARTESIAN RECEPTOR POINTS

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

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

492883.25	3625830.80	406.39610	(22081103)	492919.80
3625834.65	308.13078	(20082203)		
492955.07	3625845.55	313.47101	(22083006)	493069.86
3625832.73	333.56005	(20061224)		
493094.87	3625832.73	341.77477	(20061224)	493110.90
3625837.21	328.27821	(20061224)		
493151.95	3625834.01	320.79996	(20082006)	493166.70
3625837.86	338.82953	(20082006)		
493187.86	3625836.57	348.42060	(21052323)	493201.33
3625836.57	342.25793	(22010819)		
493240.44	3625836.57	348.16109	(21071002)	492881.32
3625908.40	428.43945	(22081103)		
492906.98	3625898.14	351.96674	(22081103)	492901.84
3625911.60	373.32153	(22081103)		
492928.14	3625914.81	323.65856	(22083006)	492933.91
3625898.14	322.10564	(22083006)		

492951.87	3625908.40	334.81769	(22083006)	492973.67
3625907.11	326.68225	(21080902)		
492993.55	3625914.17	387.65129	(22071905)	492996.11
3625897.50	377.27816	(22071905)		
493015.99	3625896.85	398.95599	(22071905)	493023.05
3625912.24	402.02702	(22071905)		
493044.21	3625907.11	364.33543	(21080102)	493066.66
3625907.76	372.60627	(20061224)		
493085.25	3625912.24	357.79490	(21103122)	493087.18
3625895.57	353.44487	(20061224)		
493108.98	3625911.60	362.53044	(21103122)	493112.19
3625897.50	360.28311	(21103122)		
493133.99	3625901.98	362.15653	(20082006)	492874.27
3625788.48	385.11805	(22081103)		
492894.15	3625789.12	388.20656	(22081103)	492910.18
3625790.40	346.05625	(22081103)		
492930.70	3625786.55	287.95629	(20082203)	492947.38
3625791.04	286.38270	(22083006)		
492963.41	3625787.84	296.06912	(22083006)	492982.65
3625787.84	286.44713	(22083006)		
492999.96	3625787.84	288.06203	(21080902)	493021.12
3625791.04	335.01690	(22071905)		
493036.52	3625789.12	353.19595	(22071905)	493055.75
3625789.76	354.18028	(22071905)		
493076.28	3625787.84	331.49567	(21080102)	493094.87
3625787.84	326.78215	(20061224)		
493112.83	3625788.48	326.69860	(20061224)	493129.50
3625787.19	312.73022	(20061224)		
493148.74	3625787.19	328.44390	(21103122)	493164.77
3625790.40	317.77085	(21103122)		
493184.65	3625789.12	321.49197	(20082006)	493201.97
3625791.04	332.54745	(21052323)		
493221.21	3625790.40	330.11170	(21052323)	493238.52
3625791.04	325.53128	(21071002)		
492780.00	3626415.01	954.49049	(20112107)	492778.72
3626388.08	905.73466	(21040224)		
492747.94	3626386.16	883.55428	(21020303)	492742.16
3626418.22	933.22617	(22040504)		
492699.20	3626422.71	888.73920	(22120301)	492697.92
3626391.93	825.74395	(20081404)		
492678.68	3626411.81	826.91519	(22120301)	492626.09
3626426.56	693.34765	(20112420)		
492606.85	3626435.54	674.31876	(20102405)	492599.16
3626405.39	649.14222	(20112420)		
492491.20	3626644.88	566.98994	(21021501)	492517.36
3626636.70	589.76860	(21021501)		
492521.18	3626603.45	601.64063	(22011703)	492521.72
3626582.19	619.44338	(22062101)		
492512.46	3626553.84	619.36243	(22092802)	492513.55
3626533.13	607.93873	(20061101)		

492501.01	3626506.42	564.87370	(20010922)	492490.65
3626485.70	559.72958	(20050624)		
492479.21	3626464.45	542.36426	(22092203)	492466.12
3626447.00	527.56113	(21041723)		
492447.59	3626418.66	507.17471	(20121705)	492431.78
3626430.65	495.81839	(21041723)		
492481.93	3626620.35	554.86697	(20051623)	492482.48
3626594.18	582.03004	(22092202)		
492479.21	3626572.92	572.10511	(22040523)	492477.02
3626546.76	580.31630	(21090703)		
492467.76	3626523.32	568.13947	(20061101)	492463.94
3626507.51	538.46731	(20010922)		
492450.86	3626492.79	519.72900	(21112923)	492427.42
3626474.80	506.77063	(20050624)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 59

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	485.22779	(22092203)	492803.94
3626616.07	1361.72319	(22102522)		
492823.25	3626567.17	937.43546	(22102522)	492838.34
3626526.92	691.28217	(22012923)		
493039.78	3625834.45	372.16210	(22071905)	492791.92
3626663.04	943.87460	(21113001)		
492731.11	3626741.92	909.53619	(22102522)	492774.75
3626728.05	597.32520	(21113001)		
493013.27	3625844.49	362.50573	(22071905)	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
 *** 14:43:40

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	490879.18	491073.28	491267.38
491461.48	491655.58		

3628507.6	66.90792 (21052422)	76.59530 (22072901)	80.39053 (22062102)
92.71990 (20090706)	71.71806 (20122121)		
3628311.7	78.68910 (22090601)	76.22175 (22080803)	98.28531 (22072901)
90.27599 (22102622)	102.66074 (20050702)		
3628115.8	78.29932 (21092903)	96.13341 (22090601)	82.39374 (22080803)
109.85047 (22062102)	105.31989 (20090706)		
3627920.0	87.97643 (21011618)	89.53363 (21092903)	111.21111 (22090601)
93.45057 (22072901)	112.31635 (22062102)		
3627724.1	81.61046 (22051505)	100.49066 (21011618)	100.22385 (21092903)
120.02507 (22090601)	128.64269 (22072901)		
3627528.3	92.33916 (20101702)	94.23633 (22032023)	113.11721 (21011618)
110.98122 (21092903)	119.91568 (21052422)		
3627332.4	97.82607 (21052423)	108.35520 (22122902)	110.10362 (22032023)
125.40863 (21011618)	116.68072 (21092903)		
3627136.5	106.77087 (22042905)	109.00405 (22120522)	123.52937 (22122902)
119.40678 (22032023)	142.04705 (21040201)		
3626940.7	122.46634 (20081623)	126.50384 (22090223)	121.35794 (22092824)
136.04704 (21052423)	121.19434 (20101805)		
3626744.8	119.74187 (21021622)	131.75145 (20080201)	145.63885 (20081623)
144.55666 (21081604)	138.65378 (22120522)		
3626549.0	118.48136 (22011221)	135.52621 (21093023)	137.47307 (21012123)
160.92037 (20080201)	171.56133 (20081623)		
3626353.1	133.42504 (21022323)	155.04604 (22042401)	157.09212 (22101701)
163.10784 (21040202)	189.80939 (22090602)		
3626157.2	131.48006 (20080123)	145.43354 (20080123)	167.07953 (22111307)
186.13410 (20042623)	210.58134 (21022323)		
3625961.4	137.38186 (20101523)	148.11161 (20101523)	153.94101 (20101523)
181.69976 (22061923)	217.55206 (22061923)		
3625765.5	146.22031 (22081005)	168.27370 (22081005)	181.00284 (22081005)
193.63289 (20051622)	215.30710 (20051622)		

3625569.7		129.58465	(20121324)	151.30952	(20070603)	174.66250	(20052123)
193.37028		(22042923)	198.23591	(20103021)			
3625373.8		133.99191	(21050502)	145.28450	(20103020)	159.90038	(20021206)
193.06097		(20052024)	207.99473	(22092004)			
3625177.9		130.90907	(22110522)	155.77378	(22092004)	174.15116	(20041622)
177.83015		(22092801)	217.02612	(22050405)			
3624982.1		132.60117	(20021723)	150.97138	(22092801)	173.92268	(22050405)
184.17318		(20051323)	200.13851	(20041521)			
3624786.2		147.33701	(22050405)	148.63818	(20051323)	160.31311	(20122604)
188.39190		(21040222)	195.64646	(21031622)			
3624590.4		129.81839	(21030301)	148.78542	(20012122)	160.88992	(21110822)
165.64915		(21031622)	189.90328	(20050604)			

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 61

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***
INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD				X-COORD (METERS)
(METERS)		491849.68	492043.78	492237.88
492431.98		492626.08		

3628507.6		113.37040	(22090703)	100.02872	(20111805)	81.76057	(21030323)
112.62120		(21081223)	104.82793	(21071322)			
3628311.7		106.85175	(22090703)	113.31212	(22122822)	117.85092	(20101705)
128.02146		(21081223)	117.55465	(21071322)			
3628115.8		88.46856	(20122121)	125.27390	(22090703)	139.09003	(20111805)
116.68884		(22080905)	120.53108	(21071322)			
3627920.0		124.85846	(20050702)	133.24420	(22090703)	126.03614	(20111805)
131.90970		(22080905)	110.27778	(22062022)			
3627724.1		118.39118	(22102622)	119.31571	(22102522)	146.22499	(22122822)
131.71965		(20101705)	126.17571	(22062022)			
3627528.3		143.28216	(22072901)	140.37110	(20090706)	160.72007	(22090703)
177.10101		(20111805)	182.14711	(21081223)			
3627332.4		123.64680	(22080803)	138.77074	(22062102)	161.59882	(22102522)
174.70076		(22122822)	186.56028	(22080905)			

3627136.5	128.33215 (22090601)	144.51202 (22072901)	157.67106 (20090706)
193.27595 (22090703)	171.23870 (22080905)		
3626940.7	164.77559 (21040201)	161.23293 (22090601)	187.98686 (22072901)
194.83970 (22102522)	218.26215 (20111805)		
3626744.8	160.37197 (22122902)	207.56637 (21040201)	217.80031 (22090601)
179.51991 (22062102)	248.67294 (22090703)		
3626549.0	175.69440 (21081604)	225.18176 (21052423)	255.20319 (21040201)
235.91513 (22090601)	257.47501 (22102522)		
3626353.1	175.30069 (20080201)	236.30447 (22090223)	236.15415 (22120522)
321.90538 (21040201)	355.85100 (22072901)		
3626157.2	225.76610 (22110520)	239.28696 (21040202)	279.11759 (21021622)
338.51023 (22090223)	396.37499 (22032023)		
3625961.4	237.77427 (22051301)	244.79818 (21010801)	275.05638 (20080123)
326.08544 (21092022)	473.14183 (21040202)		
3625765.5	234.97415 (20051622)	266.24676 (22090201)	288.43975 (22090201)
357.52144 (20070603)	453.39270 (20103021)		
3625569.7	219.46225 (20103020)	226.20578 (20021206)	261.21640 (22081101)
310.51047 (20011918)	388.10376 (20051324)		
3625373.8	232.75195 (20041622)	237.75336 (20011918)	248.38871 (20041521)
316.64108 (21031622)	347.17943 (21071905)		
3625177.9	221.66966 (22051302)	251.32443 (21040222)	225.96688 (22120502)
309.49382 (22062801)	332.30302 (21031722)		
3624982.1	229.84575 (21110822)	240.67063 (20050604)	242.64616 (21081303)
298.79655 (21040801)	344.08691 (20021622)		
3624786.2	219.86933 (20050604)	242.61767 (21081303)	230.19985 (22100802)
266.75780 (22081602)	266.72575 (20112021)		
3624590.4	217.34873 (21081303)	223.84234 (21071905)	249.61986 (20060802)
268.21734 (20021622)	267.94605 (22103002)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 62

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)
493402.48	492820.18	493014.28
	493596.58	493208.38

```

- - - - -
3628507.6 | 114.34319 (22103119) 101.26114 (22050623) 106.74687 (20081922)
102.01123 (20022901) 122.67233 (20031321)
3628311.7 | 113.35002 (22103119) 111.32071 (22050623) 117.11664 (20081922)
125.38188 (21100706) 127.73371 (20022304)
3628115.8 | 116.80204 (22062723) 124.73047 (22050623) 152.44033 (20081922)
162.72534 (21100706) 144.72663 (22061421)
3627920.0 | 144.52506 (22062723) 134.77489 (22050623) 166.20734 (20081922)
183.55620 (21100706) 164.48914 (22061421)
3627724.1 | 198.60856 (22062723) 172.23814 (22050623) 169.01346 (20081922)
160.28319 (20031321) 171.34543 (22043024)
3627528.3 | 185.84182 (22062723) 179.11831 (22050623) 192.67960 (20022901)
186.36863 (20031321) 188.97126 (21081221)
3627332.4 | 186.49656 (22062723) 194.10874 (22050623) 225.56794 (20022901)
210.22116 (22061421) 161.89893 (21081221)
3627136.5 | 167.70290 (21071322) 188.79162 (22050623) 204.14413 (20022901)
169.81763 (22043024) 239.10601 (20101624)
3626940.7 | 194.29445 (22062022) 210.67275 (22050623) 219.21010 (21100706)
207.48052 (21081221) 162.71417 (21080821)
3626744.8 | 245.17817 (22062022) 247.33471 (22050623) 245.90589 (20031321)
251.78988 (20101624) 183.39224 (22081324)
3626549.0 | 326.81322 (22080905) 297.86217 (22090503) 290.49308 (22061421)
230.22019 (20100320) 234.10643 (21122302)
3626353.1 | 420.90369 (20111805) 376.57498 (22090503) 371.57891 (21081221)
346.80221 (22081324) 338.00402 (22091021)
3626157.2 | 512.16625 (22102522) 601.89866 (22090503) 486.63279 (22081324)
447.10688 (22091021) 321.00310 (22051721)
3625961.4 | 675.26301 (21052423) 1033.17368 (20022901) 761.99634 (20081923)
589.90455 (21072203) 399.20460 (21110518)
3625765.5 | 785.99574 (22092801) 1127.28280 (22092602) 911.30131 (21020719)
649.64150 (21083001) 507.99963 (22091223)
3625569.7 | 539.86114 (21040801) 797.75885 (22081103) 572.87576 (22100904)
490.70227 (22082502) 481.18539 (21070803)
3625373.8 | 481.71482 (21040224) 452.23647 (21101320) 448.01163 (22070601)
399.95994 (22080701) 360.91586 (20071003)
3625177.9 | 379.34351 (20121620) 440.74659 (21101320) 405.28522 (21061223)
406.56833 (22072201) 379.77281 (20051621)
3624982.1 | 365.48180 (20021621) 406.10578 (22082605) 386.98895 (20031421)
349.82154 (21080802) 334.28974 (21092804)
3624786.2 | 321.67435 (20021220) 372.67483 (22082605) 361.06492 (21030703)
329.81186 (21013120) 330.66681 (22080705)
3624590.4 | 269.80422 (20070424) 344.15518 (22082605) 345.66698 (22090723)
314.54604 (21061223) 295.11890 (22081002)

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 *** ***
*** 14:43:40

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	493790.68	493984.78	494178.88
494372.98	494567.08		

3628507.6	112.20434 (22043024)	117.90569 (21081221)	92.24059 (22082322)
42.16724	(22091722)	60.51297 (20100320)	
3628311.7	132.23565 (22043024)	97.96706 (22050622)	95.33011 (21072221)
71.00841	(21080821)	60.96345 (20100320)	
3628115.8	156.37387 (21081221)	131.05950 (22082322)	57.68485 (22091722)
72.24491	(20100320)	84.53378 (22081324)	
3627920.0	147.92550 (21081221)	161.91790 (20101624)	92.90325 (21080821)
70.89413	(21081621)	88.68219 (21040924)	
3627724.1	144.24099 (22082322)	115.40099 (21072221)	116.31844 (20100320)
124.49028	(22081324)	112.21874 (22051722)	
3627528.3	197.18922 (20101624)	149.28954 (20100320)	190.15256 (22081324)
162.58826	(21122302)	164.28398 (21052203)	
3627332.4	144.90950 (21080821)	163.63386 (22081324)	197.81930 (21122302)
181.21145	(21052203)	157.38612 (22061501)	
3627136.5	195.06883 (20100320)	201.89083 (21040924)	185.77412 (21052203)
182.88071	(22061501)	227.78161 (22091021)	
3626940.7	250.74652 (22081324)	177.45632 (21070722)	200.72176 (22061501)
223.10802	(22091021)	167.10432 (20081923)	
3626744.8	174.14419 (21070722)	193.86745 (22061501)	162.25514 (22091021)
194.22297	(20081923)	180.04674 (20071323)	
3626549.0	253.10692 (22061501)	198.17922 (22121802)	192.88260 (20071323)
181.55150	(22051721)	162.06621 (21090103)	
3626353.1	308.84775 (20081923)	254.97126 (22051721)	188.83915 (21090103)
264.59196	(20081602)	256.87579 (21072203)	
3626157.2	334.15102 (20081602)	355.02755 (21072203)	229.22497 (22102102)
221.56300	(21012119)	246.37366 (21080324)	
3625961.4	307.41585 (20062123)	346.10435 (20062123)	306.56561 (20062123)
260.15646	(20031703)	279.86819 (20031703)	
3625765.5	440.21176 (21020619)	406.51706 (21020619)	350.96543 (21020619)
319.10678	(22091222)	289.08168 (22091222)	
3625569.7	429.46386 (21020719)	405.66196 (21091323)	356.23653 (21040722)
312.86029	(21040722)	314.66447 (20070924)	

3625373.8		370.90731 (20110219)	361.84042 (21052723)	347.77963 (21072102)
318.73805		(21020719)	280.79754 (20041206)	
3625177.9		332.62352 (20042722)	347.51245 (22082502)	322.44517 (21063023)
309.09947		(21052723)	284.04066 (21072222)	
3624982.1		341.07234 (20051621)	302.49913 (22040123)	298.40160 (22082523)
294.62226		(22073105)	282.91843 (21063023)	
3624786.2		292.79776 (20041404)	301.77334 (20110221)	252.39430 (22040123)
219.63858		(20071003)	251.90973 (22082502)	
3624590.4		281.92112 (22072201)	234.31991 (21111920)	272.56727 (20110221)
224.72142		(20050501)	224.49973 (20071003)	

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 *** ***
*** 14:43:40

PAGE 64

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)		494761.18	

3628507.6		54.48585 (21081621)
3628311.7		94.24744 (22081324)
3628115.8		83.06121 (21122302)
3627920.0		69.23383 (22051722)
3627724.1		104.51280 (21052203)
3627528.3		104.18927 (22061501)
3627332.4		169.54165 (22091021)
3627136.5		129.85961 (22121802)
3626940.7		152.65218 (20071323)
3626744.8		178.02467 (22051721)
3626549.0		164.78398 (21110620)
3626353.1		187.48713 (22102102)
3626157.2		210.26279 (22072121)
3625961.4		240.34111 (20031703)
3625765.5		248.17617 (22091222)
3625569.7		231.62228 (22091124)
3625373.8		291.89851 (21091323)

3625177.9		272.19812	(20092322)
3624982.1		264.17214	(21052723)
3624786.2		220.17046	(20092021)
3624590.4		233.23112	(22041522)

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:43:40

PAGE 65

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

 *** DISCRETE CARTESIAN RECEPTOR POINTS

 ** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

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

492883.25	3625830.80	983.49207	(22081005)	492919.80
3625834.65	909.70878	(21061601)		
492955.07	3625845.55	655.95337	(22092802)	493069.86
3625832.73	1714.13040	(22011423)		
493094.87	3625832.73	1540.70684	(21092324)	493110.90
3625837.21	1486.73131	(20101806)		
493151.95	3625834.01	1287.50854	(21092324)	493166.70
3625837.86	1226.39395	(20101806)		
493187.86	3625836.57	1141.24524	(20101806)	493201.33
3625836.57	1092.11496	(20101806)		
493240.44	3625836.57	977.09868	(20090820)	492881.32
3625908.40	812.43261	(21081604)		
492906.98	3625898.14	800.46915	(21081604)	492901.84
3625911.60	841.35904	(22032023)		
492928.14	3625914.81	823.02152	(21040201)	492933.91
3625898.14	856.76730	(21040201)		
492951.87	3625908.40	917.42059	(22102522)	492973.67
3625907.11	933.12857	(20111805)		
492993.55	3625914.17	1002.10337	(22090503)	492996.11
3625897.50	773.43375	(20011819)		
493015.99	3625896.85	820.65320	(22010702)	493023.05
3625912.24	1129.22407	(21081221)		
493044.21	3625907.11	1391.35349	(22010702)	493066.66
3625907.76	1242.31372	(22010702)		

493085.25	3625912.24	934.19048	(21052203)	493087.18
3625895.57	1128.14501	(20081923)		
493108.98	3625911.60	1009.23776	(20081923)	493112.19
3625897.50	1035.05140	(20071323)		
493133.99	3625901.98	954.08958	(20071323)	492874.27
3625788.48	893.28753	(20011918)		
492894.15	3625789.12	946.21878	(20011918)	492910.18
3625790.40	915.21201	(20011918)		
492930.70	3625786.55	978.79109	(22120301)	492947.38
3625791.04	1098.27876	(22120301)		
492963.41	3625787.84	934.07074	(20021622)	492982.65
3625787.84	925.72537	(22012923)		
492999.96	3625787.84	932.59716	(22012923)	493021.12
3625791.04	1128.50582	(22092602)		
493036.52	3625789.12	1167.91826	(21081022)	493055.75
3625789.76	1209.69491	(22051422)		
493076.28	3625787.84	1293.32340	(21072003)	493094.87
3625787.84	1442.81746	(22082504)		
493112.83	3625788.48	1234.76646	(20082306)	493129.50
3625787.19	1145.40962	(22092902)		
493148.74	3625787.19	1075.30479	(22092902)	493164.77
3625790.40	1072.80501	(20082305)		
493184.65	3625789.12	1014.88709	(20082305)	493201.97
3625791.04	1001.54677	(21040722)		
493221.21	3625790.40	964.75544	(21040722)	493238.52
3625791.04	920.52934	(21083001)		
492780.00	3626415.01	341.54217	(20111805)	492778.72
3626388.08	360.79881	(22090703)		
492747.94	3626386.16	376.97944	(22090703)	492742.16
3626418.22	370.54090	(22090703)		
492699.20	3626422.71	352.60494	(22102522)	492697.92
3626391.93	335.78407	(22102522)		
492678.68	3626411.81	321.83932	(20050702)	492626.09
3626426.56	302.33161	(22062102)		
492606.85	3626435.54	315.78330	(22072901)	492599.16
3626405.39	344.03950	(22072901)		
492491.20	3626644.88	221.71507	(22062102)	492517.36
3626636.70	216.71334	(20090706)		
492521.18	3626603.45	226.68829	(22062102)	492521.72
3626582.19	247.61868	(22062102)		
492512.46	3626553.84	275.87525	(22072901)	492513.55
3626533.13	278.92031	(22072901)		
492501.01	3626506.42	251.65507	(22072901)	492490.65
3626485.70	258.27195	(22090601)		
492479.21	3626464.45	284.81019	(22090601)	492466.12
3626447.00	276.00685	(22090601)		
492447.59	3626418.66	273.65090	(22092901)	492431.78
3626430.65	271.02464	(22092901)		
492481.93	3626620.35	248.39884	(22072901)	492482.48
3626594.18	266.63732	(22072901)		

492479.21	3626572.92	267.98009	(22072901)	492477.02
3626546.76	251.82746	(22072901)		
492467.76	3626523.32	237.18563	(22090601)	492463.94
3626507.51	261.21807	(22090601)		
492450.86	3626492.79	274.91848	(22090601)	492427.42
3626474.80	246.43029	(22090601)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 66

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***
INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	264.84613	(22092901)	492803.94
3626616.07	309.26215	(22080905)		
492823.25	3626567.17	316.05286	(22080905)	492838.34
3626526.92	319.65092	(22080905)		
493039.78	3625834.45	1506.87379	(22011423)	492791.92
3626663.04	297.22195	(22080905)		
492731.11	3626741.92	243.51013	(20111805)	492774.75
3626728.05	278.69353	(22080905)		
493013.27	3625844.49	646.68587	(22090503)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 67

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
	490879.18		491073.28	491267.38
491461.48		491655.58		

3628507.6		116.49099 (21011618)	136.57430 (21031402)	139.87882 (22090601)
150.85172	(22072901)	101.62572 (22102622)		
3628311.7		127.21427 (22032023)	126.07107 (21011618)	144.84119 (21031402)
127.82416	(22090601)	176.97025 (22072901)		
3628115.8		131.10954 (22122902)	138.14420 (22032023)	147.52325 (21040201)
151.05866	(21031402)	137.27996 (22060102)		
3627920.0		118.75684 (20101707)	146.81749 (21052423)	143.36586 (20101805)
172.23275	(21040201)	176.07695 (22011702)		
3627724.1		150.66344 (22090223)	141.79117 (22120202)	157.16036 (21052423)
150.21826	(20101805)	212.78719 (21040201)		
3627528.3		131.12441 (22053003)	168.17369 (20081623)	163.43655 (21081604)
155.77086	(20031323)	189.10508 (22122902)		
3627332.4		152.86580 (21093023)	147.68036 (21020722)	161.79397 (20061501)
198.88622	(20081623)	211.28490 (21081604)		
3627136.5		156.94639 (22110520)	160.10213 (20101220)	178.65462 (21040202)
180.25683	(22042601)	185.39162 (21021623)		
3626940.7		146.40151 (22092202)	165.03071 (22011703)	168.77752 (21010724)
170.99079	(21092022)	201.84436 (22110520)		
3626744.8		168.83510 (21052505)	184.35244 (21052505)	184.90240 (21101723)
193.92850	(22040523)	213.25059 (22040523)		
3626549.0		172.76765 (20061101)	181.49723 (20061101)	171.67077 (20051622)
207.50250	(20010922)	227.74971 (20010922)		
3626353.1		163.73030 (20070603)	202.47980 (20052123)	209.82719 (20103021)
218.76612	(21050502)	249.22631 (20061223)		
3626157.2		155.14908 (20061223)	165.34379 (22040823)	204.59322 (22110522)
232.82789	(22081101)	233.06103 (20102405)		
3625961.4		152.32187 (22081101)	159.58250 (22012620)	171.47882 (22040423)
184.44755	(22050405)	224.22098 (20071603)		
3625765.5		147.65056 (22040423)	173.07760 (20101105)	175.65432 (22051302)
174.98904	(20101401)	182.12767 (21071703)		
3625569.7		158.31383 (22051302)	163.91918 (20022424)	208.51927 (22042324)
206.48602	(21031622)	208.49370 (20052324)		
3625373.8		152.73276 (20101401)	180.08844 (20051324)	161.34306 (20061423)
210.33496	(20052324)	215.48533 (21081303)		
3625177.9		140.46022 (21071703)	176.43223 (20011322)	199.17482 (20052324)
192.79818	(21081303)	218.34277 (21071905)		
3624982.1		142.56318 (22120502)	190.23035 (20052324)	192.26295 (21081303)
178.64881	(21071905)	198.16307 (21040801)		

3624786.2 | 177.36112 (20052324) 170.90375 (21081303) 169.03727 (22111601)
189.17847 (22100802) 199.38891 (20060802)
3624590.4 | 166.38593 (21081303) 158.81866 (22040601) 153.72997 (22100802)
180.26653 (20050524) 190.15245 (22081602)

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 *** ***
*** 14:43:40

PAGE 68

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD (METERS)			X-COORD (METERS)
	491849.68	492043.78	492237.88
492431.98	492626.08		

3628507.6	120.49024 (22102522)	122.89390 (22122822)	117.20823 (22080905)
126.17091 (22062022)	133.62321 (22062723)		
3628311.7	126.15591 (20090706)	146.19772 (22090703)	149.84839 (20111805)
128.48832 (22062022)	150.04974 (22062723)		
3628115.8	129.95593 (22062102)	148.95377 (22102522)	135.50173 (20111805)
147.91912 (22080905)	161.61049 (22062723)		
3627920.0	174.65413 (22060102)	131.44582 (20090706)	166.25943 (22090703)
163.94683 (22080905)	146.06234 (22062723)		
3627724.1	193.94836 (22011702)	228.56663 (22072901)	180.80546 (22102522)
160.17048 (20111805)	131.60389 (22062723)		
3627528.3	236.30868 (21040201)	219.68473 (22090601)	167.66604 (22072901)
172.09421 (22090703)	185.51358 (22062022)		
3627332.4	209.35911 (21052423)	232.26340 (21040201)	263.62528 (22090601)
231.64498 (22101422)	233.17378 (22080905)		
3627136.5	213.38320 (20081623)	198.14569 (20031323)	259.36528 (22032023)
284.28595 (20070601)	236.06588 (20111805)		
3626940.7	220.83633 (21040202)	222.28485 (21020722)	261.75049 (20081623)
322.63967 (22032023)	337.92190 (22072901)		
3626744.8	274.01767 (22040523)	302.62168 (22062101)	357.32511 (22011703)
380.97327 (21021501)	620.14627 (21081604)		
3626549.0	235.38215 (20010922)	287.79924 (20081402)	352.70755 (21112923)
427.14769 (22010622)	554.40579 (21100302)		

3626353.1		227.65078	(22040823)	294.26877	(22081101)	320.12465	(20011918)
438.38782	(20051324)	540.55854	(20011823)				
3626157.2		242.14559	(22050405)	265.07150	(20101401)	317.26010	(20061423)
376.40967	(21071905)	407.12865	(21101920)				
3625961.4		265.66787	(22042324)	257.40518	(20120120)	270.50686	(22062801)
316.18921	(22081602)	317.59750	(20021621)				
3625765.5		207.59976	(20050604)	229.14384	(22062801)	252.78397	(22050923)
298.66321	(21040224)	294.11787	(20021220)				
3625569.7		224.45197	(21071602)	209.76393	(21040801)	215.50062	(21032821)
256.52521	(20112021)	247.52377	(20070424)				
3625373.8		218.57676	(21071905)	234.08464	(20092303)	233.82640	(20021622)
242.48136	(20121620)	240.27094	(20090401)				
3625177.9		218.88338	(20050524)	209.02407	(21092101)	189.53663	(20091424)
206.19332	(21020924)	234.82739	(20090401)				
3624982.1		215.18508	(21031722)	220.05418	(20021622)	212.86567	(20112021)
213.31450	(20021621)	216.99542	(20101822)				
3624786.2		179.13736	(21092101)	193.69132	(20091424)	175.39237	(20070224)
203.73295	(20021220)	220.65379	(20101822)				
3624590.4		193.53031	(20021622)	178.67265	(21102022)	175.16732	(20121620)
185.76245	(20021220)	221.77994	(20101822)				

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 69

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)			
493402.48		492820.18	493014.28
		493596.58	493208.38

3628507.6		180.44566	(22050623)	140.77811	(20022901)	174.81543	(20031321)
138.87584	(22043024)	137.49233	(22082322)				
3628311.7		193.09803	(22050623)	173.95522	(20022901)	150.70728	(20022304)
157.25049	(21081221)	194.35620	(20101624)				
3628115.8		186.90619	(22050623)	209.93244	(20022901)	177.80414	(22061421)
139.50514	(22082322)	125.43882	(21080821)				

3627920.0	204.93154 (22050623)	187.39800 (21100706)	184.46206 (22043024)
238.09255 (20101624)	167.34836 (20100320)		
3627724.1	272.63917 (22090503)	239.40576 (20031321)	193.75723 (21081221)
153.86383 (20100320)	208.43501 (22081324)		
3627528.3	269.89657 (22090503)	257.48405 (20031321)	284.34837 (20101624)
243.31329 (22081324)	213.52838 (21052203)		
3627332.4	313.26132 (22090503)	257.89817 (22043024)	242.90147 (20100320)
234.42642 (21070722)	235.74955 (22091021)		
3627136.5	324.73930 (22090503)	273.85269 (20101624)	218.89990 (21122302)
246.34911 (22091021)	221.67644 (20071323)		
3626940.7	448.79473 (22090503)	377.36183 (22010702)	286.06449 (22091021)
251.69126 (22051721)	262.21751 (20081602)		
3626744.8	756.39269 (20022901)	464.72368 (22051721)	335.40089 (21072203)
266.47652 (22072121)	208.10424 (20062123)		
3626549.0	972.94743 (22081103)	567.55244 (21072102)	448.64694 (21040722)
325.13835 (20070924)	257.11882 (22091223)		
3626353.1	664.71951 (22081103)	501.16717 (22122323)	412.47608 (22082523)
329.90854 (21052723)	291.10309 (20092322)		
3626157.2	451.49638 (22080704)	279.07402 (22121819)	381.33391 (22080701)
292.58773 (20071201)	284.84411 (22073105)		
3625961.4	358.86209 (22082605)	225.90126 (21061223)	245.42024 (22072201)
322.14830 (20051621)	265.68414 (20071201)		
3625765.5	320.16010 (22082605)	207.96797 (21080902)	196.59816 (22081002)
218.70541 (20041404)	280.20014 (20051621)		
3625569.7	286.84151 (22082605)	181.46558 (21030703)	183.43259 (22071602)
188.15467 (21071002)	210.08148 (20041404)		
3625373.8	271.59464 (22082605)	157.64481 (21030703)	160.08114 (21060903)
162.28685 (22081002)	170.29998 (22072201)		
3625177.9	254.96645 (22082605)	152.05709 (20042523)	160.92421 (21080902)
151.92678 (22071602)	157.88884 (21071002)		
3624982.1	237.94603 (22082605)	134.75981 (22052124)	147.26252 (21080902)
130.63197 (21013120)	143.51216 (22081002)		
3624786.2	224.56358 (22082605)	132.38859 (22052124)	139.65636 (20052502)
129.27884 (20121619)	124.12219 (22121819)		
3624590.4	212.21952 (22082605)	123.05340 (22052124)	125.36690 (21030703)
125.27970 (21061223)	126.96852 (22071602)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 70

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)				X-COORD (METERS)
	493790.68		493984.78	494178.88
494372.98		494567.08		

3628507.6	105.34727 (21080821)	115.46384 (20100320)	111.49076 (21040924)	
70.06941 (22051722)	93.17188 (21052203)			
3628311.7	147.21643 (20100320)	169.19730 (22081324)	86.60175 (22051722)	
95.03564 (21052203)	75.87674 (22061501)			
3628115.8	171.11473 (22081324)	149.54323 (21122302)	117.45956 (21052203)	
79.52501 (22061501)	99.01648 (22091021)			
3627920.0	174.90351 (21122302)	163.83528 (21052203)	95.54715 (22061501)	
106.02153 (22091021)	76.15811 (21052202)			
3627724.1	194.98727 (21052203)	149.21326 (22061501)	123.00829 (22091021)	
113.69040 (20081923)	120.12564 (20071323)			
3627528.3	178.11306 (22091021)	152.35039 (22121802)	149.53103 (20081923)	
126.64566 (20071323)	144.16364 (22051721)			
3627332.4	195.68802 (20081923)	178.96456 (20071323)	175.12362 (22051721)	
135.11734 (21090103)	165.17242 (20081602)			
3627136.5	212.61262 (22051721)	174.98014 (20081602)	197.86534 (21072203)	
170.32928 (21072203)	128.64574 (21053101)			
3626940.7	216.65271 (21072203)	146.67108 (21020803)	172.33092 (21110518)	
173.10188 (22072121)	145.35269 (22072121)			
3626744.8	192.39360 (20062123)	170.81482 (20031703)	171.21998 (20031703)	
165.73145 (20031703)	157.78993 (20031703)			
3626549.0	228.78249 (21020619)	217.48823 (21020619)	191.59344 (21020619)	
175.62431 (21020619)	163.74397 (22091222)			
3626353.1	255.39322 (21091323)	228.55005 (22070202)	208.11952 (21040722)	
211.16518 (20070924)	189.57239 (20070924)			
3626157.2	261.45126 (21052723)	230.50795 (21072102)	214.10158 (20092322)	
172.48015 (20062523)	194.92324 (21091323)			
3625961.4	240.31008 (22082502)	224.29738 (21063023)	216.22349 (21052723)	
199.74435 (21072222)	179.38211 (20092322)			
3625765.5	221.40633 (20042722)	230.08048 (22041522)	213.63764 (22073105)	
202.08663 (21063023)	187.52143 (21052723)			
3625569.7	240.97976 (20110221)	191.73705 (20050501)	165.43695 (21071124)	
184.30955 (22082502)	179.58070 (22073105)			
3625373.8	205.86521 (21111920)	216.58027 (20110221)	183.29572 (20050501)	
175.37820 (21071124)	186.19583 (22041522)			
3625177.9	145.21694 (20080301)	198.97170 (22081224)	189.23838 (20101720)	
171.75052 (20050501)	175.15694 (20071201)			
3624982.1	152.16022 (22072201)	159.53411 (20041404)	173.80667 (22080701)	
173.34491 (20101720)	158.39707 (20050501)			
3624786.2	131.72594 (22010819)	131.02798 (22050521)	145.83447 (20041404)	
150.08605 (22080701)	160.88449 (22070621)			

3624590.4 | 129.39921 (22081002) 132.43213 (20101621) 120.39609 (20080301)
145.83286 (21111920) 147.89643 (21030821)
^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 71
*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data
*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,
*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**
Y-COORD | X-COORD (METERS)
(METERS) | 494761.18

3628507.6 | 76.59571 (22061501)
3628311.7 | 102.16190 (22091021)
3628115.8 | 71.17828 (22082422)
3627920.0 | 89.92700 (20081923)
3627724.1 | 77.82966 (22080822)
3627528.3 | 101.53518 (21090103)
3627332.4 | 141.45229 (21072203)
3627136.5 | 104.14536 (21012119)
3626940.7 | 121.79922 (20082204)
3626744.8 | 143.26254 (20031703)
3626549.0 | 154.76918 (22091222)
3626353.1 | 150.08968 (21083001)
3626157.2 | 175.17694 (22070202)
3625961.4 | 172.24795 (20092322)
3625765.5 | 170.70088 (20090703)
3625569.7 | 177.84671 (21063023)
3625373.8 | 161.71323 (22073105)
3625177.9 | 165.43834 (22041522)
3624982.1 | 166.23700 (20071201)
3624786.2 | 148.39643 (21050422)
3624590.4 | 145.40248 (22070621)

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 ***
*** 14:43:40

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	307.79902	(22081103)	492919.80
3625834.65	203.31330	(20042523)		
492955.07	3625845.55	211.89757	(21030703)	493069.86
3625832.73	210.88725	(21060903)		
493094.87	3625832.73	200.16984	(22071602)	493110.90
3625837.21	212.21937	(22071602)		
493151.95	3625834.01	201.22462	(22121819)	493166.70
3625837.86	196.58377	(22081002)		
493187.86	3625836.57	216.18660	(22081002)	493201.33
3625836.57	219.27332	(22010819)		
493240.44	3625836.57	214.32972	(21071002)	492881.32
3625908.40	307.72901	(22081103)		
492906.98	3625898.14	210.74256	(20042523)	492901.84
3625911.60	222.98747	(22081103)		
492928.14	3625914.81	221.13615	(21030703)	492933.91
3625898.14	219.06228	(21030703)		
492951.87	3625908.40	219.27477	(20052502)	492973.67
3625907.11	222.15761	(21080902)		
492993.55	3625914.17	233.60588	(21080902)	492996.11
3625897.50	231.26441	(21080902)		
493015.99	3625896.85	220.74429	(21080902)	493023.05
3625912.24	221.13189	(21061223)		
493044.21	3625907.11	221.36848	(21060903)	493066.66
3625907.76	212.08362	(21060903)		
493085.25	3625912.24	223.61617	(22071602)	493087.18
3625895.57	220.30892	(22071602)		
493108.98	3625911.60	212.62968	(22071602)	493112.19
3625897.50	212.91072	(22071602)		
493133.99	3625901.98	206.59369	(22121819)	492874.27
3625788.48	333.35872	(22081103)		
492894.15	3625789.12	274.15433	(22081103)	492910.18
3625790.40	215.77776	(22081103)		

492930.70	3625786.55	198.00771	(20042523)	492947.38
3625791.04	204.27238	(21030703)		
492963.41	3625787.84	205.51779	(21030703)	492982.65
3625787.84	205.99611	(20052502)		
492999.96	3625787.84	204.57323	(20052502)	493021.12
3625791.04	216.57167	(21080902)		
493036.52	3625789.12	212.89032	(21080902)	493055.75
3625789.76	205.45476	(21061223)		
493076.28	3625787.84	203.14280	(21060903)	493094.87
3625787.84	204.00457	(21060903)		
493112.83	3625788.48	195.79240	(22071602)	493129.50
3625787.19	205.81403	(22071602)		
493148.74	3625787.19	203.89172	(22071602)	493164.77
3625790.40	195.84574	(22121819)		
493184.65	3625789.12	191.68955	(22121819)	493201.97
3625791.04	204.97182	(22081002)		
493221.21	3625790.40	213.42758	(22081002)	493238.52
3625791.04	218.77623	(22010819)		
492780.00	3626415.01	751.49580	(21060405)	492778.72
3626388.08	711.44612	(21060405)		
492747.94	3626386.16	675.90983	(20021621)	492742.16
3626418.22	688.43848	(20121620)		
492699.20	3626422.71	653.69521	(20060722)	492697.92
3626391.93	631.26586	(20021622)		
492678.68	3626411.81	644.81354	(21020303)	492626.09
3626426.56	600.13943	(22062801)		
492606.85	3626435.54	586.72281	(20081404)	492599.16
3626405.39	562.39547	(22030622)		
492491.20	3626644.88	486.89398	(22092802)	492517.36
3626636.70	495.15916	(21090703)		
492521.18	3626603.45	526.08795	(20010922)	492521.72
3626582.19	529.22524	(20051601)		
492512.46	3626553.84	508.80485	(21041723)	492513.55
3626533.13	514.12947	(20121705)		
492501.01	3626506.42	483.22356	(20022504)	492490.65
3626485.70	485.13085	(20011918)		
492479.21	3626464.45	456.58381	(20112420)	492466.12
3626447.00	452.17603	(20112420)		
492447.59	3626418.66	414.40360	(20071603)	492431.78
3626430.65	424.19436	(20112420)		
492481.93	3626620.35	472.48133	(20061101)	492482.48
3626594.18	488.07325	(22111006)		
492479.21	3626572.92	491.91221	(20051601)	492477.02
3626546.76	479.22595	(21041723)		
492467.76	3626523.32	478.64271	(20121705)	492463.94
3626507.51	461.32311	(20082202)		
492450.86	3626492.79	450.88341	(21030901)	492427.42
3626474.80	434.37667	(20102405)		

*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 73

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	415.03404	(20102405)	492803.94
3626616.07	781.94879	(22090105)		
492823.25	3626567.17	919.60956	(22090105)	492838.34
3626526.92	643.27880	(22081103)		
493039.78	3625834.45	211.23045	(21061223)	492791.92
3626663.04	891.77541	(20070601)		
492731.11	3626741.92	971.23627	(20070601)	492774.75
3626728.05	616.00203	(22072901)		
493013.27	3625844.49	223.19656	(21080902)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 74

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***
INCLUDING SOURCE(S): STCK4 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
490879.18	491073.28
	491267.38

491461.48

491655.58

3628507.6 | 78.39532 (21040201) 85.07858 (22092901) 99.12499 (22090601)
97.25440 (22072901) 91.56698 (22102622)
3628311.7 | 79.46553 (22032023) 88.52264 (21040201) 89.97621 (22092901)
104.13458 (22090601) 119.01952 (22072901)
3628115.8 | 83.89088 (22122902) 80.62707 (22032023) 98.19686 (21040201)
96.95325 (22092901) 105.84136 (22090601)
3627920.0 | 75.91373 (22092824) 92.60144 (21052423) 84.45053 (20101805)
108.77961 (21040201) 111.45315 (22092901)
3627724.1 | 90.31872 (22090223) 92.02610 (21081604) 83.52201 (21052423)
105.02834 (22122902) 129.63474 (21040201)
3627528.3 | 88.37816 (21021622) 98.43247 (20050803) 107.76291 (22090223)
110.40803 (21081604) 130.48565 (21052423)
3627332.4 | 97.12907 (21040202) 104.03429 (21093023) 102.29003 (21021622)
117.61923 (20050803) 128.78141 (22090223)
3627136.5 | 97.76023 (21092022) 115.07528 (21092022) 120.88918 (22110520)
116.97075 (21040202) 123.58367 (21093023)
3626940.7 | 105.80918 (21010801) 117.15436 (21112924) 122.48724 (21112924)
126.83770 (22011703) 131.95167 (21010724)
3626744.8 | 147.67079 (20042724) 162.95997 (20042724) 162.39146 (20042724)
172.49951 (20042724) 168.56369 (20042724)
3626549.0 | 161.01545 (20010922) 169.99446 (21061202) 162.94832 (20081402)
199.52387 (20070603) 204.78478 (20052123)
3626353.1 | 149.87036 (20103021) 179.09716 (21050502) 188.70102 (20061223)
197.20588 (22040823) 212.74901 (21113004)
3626157.2 | 133.22681 (22110522) 156.61260 (21113004) 190.46432 (22012620)
196.94142 (22040423) 214.22393 (20051323)
3625961.4 | 137.17904 (20021723) 150.54528 (20011918) 157.90261 (20051323)
183.48508 (20071603) 208.24713 (20032322)
3625765.5 | 135.37133 (20101105) 169.27312 (22051302) 178.07217 (20101401)
160.47905 (20051324) 167.22225 (20112224)
3625569.7 | 147.79041 (20071603) 163.87962 (21040222) 166.74271 (20041701)
179.79171 (20050604) 178.41665 (22030622)
3625373.8 | 147.88698 (20051324) 148.66256 (20102401) 156.80966 (20050604)
164.83687 (22042922) 157.78327 (20012207)
3625177.9 | 124.35987 (20061423) 156.70870 (20050604) 155.72683 (22042922)
152.24199 (21042703) 159.81014 (22100802)
3624982.1 | 124.61507 (20050604) 147.46990 (22042922) 150.16500 (22062801)
146.47711 (22100802) 156.32423 (20060802)
3624786.2 | 139.42769 (22042922) 139.60219 (22062801) 151.00546 (21071905)
140.36073 (20091306) 151.36892 (21031722)
3624590.4 | 129.35736 (22062801) 143.37486 (21071905) 134.81819 (21040801)
143.68304 (20092303) 134.50781 (21032821)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***

*** 14:43:40

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	491849.68	492043.78	492237.88
492431.98	492626.08		

3628507.6		119.75835 (22102522)	117.09914 (22122822)	114.01872 (22080905)
118.48196	(22062022)	114.29530 (22062723)		
3628311.7		121.40836 (20090706)	135.37295 (22090703)	142.49606 (20111805)
122.50579	(22062022)	133.01853 (22062723)		
3628115.8		131.97678 (22062102)	150.60566 (22102522)	132.23350 (20111805)
127.84828	(22080905)	150.55575 (22062723)		
3627920.0		123.94656 (20070601)	122.37588 (20090706)	161.54642 (22090703)
156.90138	(22080905)	144.76961 (22062723)		
3627724.1		130.84895 (22011702)	146.77495 (22072901)	186.11472 (22102522)
155.59584	(20111805)	141.99285 (22062723)		
3627528.3		136.63651 (21040201)	132.50777 (22090601)	151.33021 (22062102)
181.47984	(22090703)	186.93220 (22062022)		
3627332.4		114.56690 (21052423)	136.71949 (22032023)	183.63542 (22090601)
241.15957	(22102522)	225.51056 (22080905)		
3627136.5		124.08210 (20061501)	142.44999 (22090223)	157.77080 (21052423)
208.92870	(22090601)	256.35164 (20111805)		
3626940.7		152.38989 (21092022)	172.58822 (22110520)	185.29876 (21093023)
221.82158	(22090223)	325.75858 (21072302)		
3626744.8		206.98073 (20042724)	240.64572 (20042724)	290.04730 (22092802)
307.69836	(22092802)	713.46323 (22092802)		
3626549.0		206.21513 (20103021)	258.17427 (21041723)	316.31067 (20121705)
403.73519	(20112420)	458.16948 (22040504)		
3626353.1		198.99306 (20102405)	258.41329 (20051323)	292.66364 (20051324)
323.74916	(20082223)	305.98007 (21040224)		
3626157.2		219.11762 (20101401)	228.39762 (20100107)	249.58195 (22030622)
262.52498	(21031722)	246.60811 (20121620)		
3625961.4		210.38470 (20061423)	211.16945 (22030622)	206.32745 (21040801)
211.44808	(20112521)	207.69645 (21041524)		
3625765.5		177.67300 (22030622)	179.16964 (21071905)	192.75262 (22081602)
196.38334	(20112021)	179.24477 (20070424)		

3625569.7	191.00861 (21071905)	165.90243 (20060802)	168.44043 (20021622)
165.99693 (20121620)	175.44823 (20090401)		
3625373.8	164.41655 (20091306)	167.82520 (20041324)	167.03002 (22052202)
154.55551 (20021621)	173.87952 (20101822)		
3625177.9	164.85179 (20092303)	163.80686 (20021622)	161.38479 (20112021)
153.43875 (20021621)	182.59610 (20101822)		
3624982.1	151.08369 (21032821)	153.45590 (20112521)	143.45314 (22103002)
151.17450 (20021220)	183.58768 (20101822)		
3624786.2	147.29377 (20021622)	144.51048 (22052202)	136.49841 (20121620)
133.77789 (21020706)	176.23224 (20101822)		
3624590.4	140.53138 (20112521)	145.88835 (20112021)	129.88299 (21020924)
128.09597 (20070424)	164.77303 (20011420)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 76

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)			
	492820.18	493014.28	493208.38
493402.48	493596.58		

3628507.6	133.26066 (22102021)	88.13686 (20022901)	91.15242 (22061421)
90.26188 (21081221)	109.39536 (20101624)		
3628311.7	149.08188 (22102021)	88.54542 (20022901)	91.44464 (22061421)
82.63749 (22082322)	94.09989 (21080821)		
3628115.8	149.90173 (22102021)	104.75876 (21100706)	105.40183 (22043024)
126.38054 (20101624)	104.32691 (20100320)		
3627920.0	172.34214 (22102021)	102.69326 (21100706)	114.71538 (21081221)
112.62248 (21080821)	137.31998 (22081324)		
3627724.1	264.13915 (22102021)	137.14005 (22061421)	150.19413 (20101624)
134.10150 (22081324)	111.62210 (21070722)		
3627528.3	233.83112 (22102021)	149.80992 (22061421)	138.46967 (21080821)
140.00981 (21040924)	124.16564 (22061501)		
3627332.4	267.23367 (22102021)	201.69927 (20101624)	206.17905 (22081324)
156.42464 (22091021)	154.76524 (20081923)		

3627136.5	284.13531 (20061122)	207.27420 (22081324)	180.69221 (22091021)
185.96113 (20081923)	170.68014 (22051721)		
3626940.7	258.80939 (22043024)	263.39223 (22091021)	219.47310 (22051721)
236.26509 (21072203)	172.72591 (21110518)		
3626744.8	379.47112 (20081602)	396.05683 (20101806)	302.36564 (20090820)
244.27775 (20101806)	191.64297 (20101806)		
3626549.0	554.31066 (22081103)	330.31725 (22082523)	260.54329 (21072102)
227.40329 (21091323)	199.66555 (21040722)		
3626353.1	427.09752 (22081103)	334.78385 (20092323)	232.42611 (20071201)
194.01542 (21063023)	173.07860 (21072222)		
3626157.2	315.92656 (22081103)	264.92272 (22070601)	218.52705 (22080701)
185.46044 (22040123)	170.78757 (22041522)		
3625961.4	248.79190 (22082605)	223.95726 (20061224)	232.69888 (20101621)
198.48208 (22080701)	160.75658 (22040123)		
3625765.5	228.24685 (22082605)	213.78247 (21080902)	198.67270 (22081002)
195.65778 (21092804)	177.20779 (20051621)		
3625569.7	218.23907 (22082605)	194.36954 (20052502)	188.98310 (22071602)
196.63294 (21071002)	167.33472 (20041404)		
3625373.8	200.20134 (22082605)	187.08320 (21030703)	181.41113 (20061224)
178.29013 (22081002)	181.26949 (22072201)		
3625177.9	190.75309 (22082605)	174.95240 (20042523)	166.06994 (21080902)
164.48864 (22071602)	160.82653 (21071002)		
3624982.1	178.42867 (22082605)	157.14061 (20042523)	163.89312 (21080902)
143.30679 (20061224)	150.08209 (22081002)		
3624786.2	169.43861 (22082605)	151.03579 (22052124)	158.12145 (20052502)
143.31658 (20061224)	139.12601 (22070601)		
3624590.4	161.56361 (22082605)	145.86385 (22052124)	139.94601 (21030703)
134.48100 (21061223)	136.03877 (22071602)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 77

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	493790.68	493984.78	494178.88
494372.98	494567.08		

```

- - - - -
3628507.6 |      88.83118 (21080821)      102.48119 (22081324)      66.24650 (21122302)
      58.82532 (21052203)      45.61281 (22031619)
3628311.7 |      97.44173 (22081324)      90.05268 (21040924)      65.64478 (21052203)
      46.71113 (22061501)      59.69913 (22091021)
3628115.8 |      109.90026 (22081324)      92.54748 (21052203)      59.17441 (22061501)
      65.41709 (22091021)      51.99408 (22082422)
3627920.0 |      102.88155 (21070722)      83.09904 (22061501)      80.44470 (22091021)
      53.77572 (20081923)      74.28557 (20081923)
3627724.1 |      103.44512 (22061501)      117.19436 (22091021)      93.72978 (20081923)
      78.14991 (20071323)      74.70702 (22051721)
3627528.3 |      126.00330 (22091021)      133.13123 (20081923)      102.17893 (20071323)
      105.56090 (22051721)      95.95273 (22061422)
3627332.4 |      143.67684 (20071323)      131.85519 (22051721)      115.76274 (20081602)
      137.46863 (20081602)      131.89214 (21072203)
3627136.5 |      172.85690 (20081602)      166.68686 (21072203)      117.20873 (22102102)
      109.91091 (21012119)      122.82100 (21080324)
3626940.7 |      175.86933 (22072121)      155.25110 (22072121)      129.37712 (20082204)
      124.31556 (20062123)      118.78947 (20062123)
3626744.8 |      175.20768 (20101806)      162.97134 (20101806)      153.95211 (20101806)
      145.54332 (20101806)      137.05048 (20101806)
3626549.0 |      182.57273 (20070924)      163.09078 (22091223)      153.39308 (22091223)
      137.73820 (22091223)      132.88075 (21020619)
3626353.1 |      167.98849 (20092322)      151.30503 (20041206)      159.09739 (21091323)
      145.53786 (21040722)      137.25009 (21040722)
3626157.2 |      160.46271 (21063023)      144.48116 (21070803)      139.74794 (21072102)
      134.17913 (20092322)      124.65298 (21090204)
3625961.4 |      167.33059 (22041522)      143.77617 (22073105)      132.46787 (21063023)
      124.71933 (21070803)      126.05535 (21072222)
3625765.5 |      145.50322 (21081124)      130.88887 (20071003)      127.56574 (22082502)
      122.66419 (21091322)      111.98923 (21063023)
3625569.7 |      165.58219 (20051621)      137.56765 (21081124)      130.98895 (20071003)
      133.00981 (22041522)      122.63887 (22073105)
3625373.8 |      139.54856 (20041404)      152.75467 (22081701)      130.28537 (21081124)
      126.09494 (20071201)      125.44088 (22041522)
3625177.9 |      150.49232 (21092804)      131.39148 (22081224)      139.13030 (22081701)
      123.73348 (21081124)      118.47343 (20071201)
3624982.1 |      152.18652 (22072201)      129.76347 (21092804)      128.48882 (22081224)
      127.03340 (22081701)      117.65553 (21081124)
3624786.2 |      138.55445 (22082604)      138.08628 (22050521)      126.39178 (20041404)
      117.30715 (22080701)      120.38214 (20101720)
3624590.4 |      137.39283 (22081002)      138.19050 (20101621)      124.13995 (21092804)
      105.49684 (20041404)      107.21002 (21072301)

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 *** ***
*** 14:43:40

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	57.17924 (22091021)
3628311.7	58.29283 (22091021)
3628115.8	65.59712 (20081923)
3627920.0	65.48876 (20071323)
3627724.1	71.33280 (22051721)
3627528.3	91.22605 (20081602)
3627332.4	81.04954 (22102102)
3627136.5	121.97675 (22072121)
3626940.7	108.01062 (20062123)
3626744.8	128.83109 (20101806)
3626549.0	135.79858 (21020619)
3626353.1	138.09864 (20070924)
3626157.2	135.12197 (21091323)
3625961.4	125.90370 (20092322)
3625765.5	112.87255 (21052723)
3625569.7	117.11059 (21063023)
3625373.8	106.73969 (22082502)
3625177.9	98.62592 (22041522)
3624982.1	113.43073 (22040123)
3624786.2	112.24782 (21081124)
3624590.4	112.39803 (20101720)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 79

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	231.73136	(22081103)	492919.80
3625834.65	210.26376	(20042523)		
492955.07	3625845.55	214.93291	(20052502)	493069.86
3625832.73	214.67221	(20061224)		
493094.87	3625832.73	203.95143	(20061224)	493110.90
3625837.21	211.28290	(22071602)		
493151.95	3625834.01	204.48725	(22070601)	493166.70
3625837.86	201.97961	(21080802)		
493187.86	3625836.57	213.88884	(22081002)	493201.33
3625836.57	215.10789	(22081002)		
493240.44	3625836.57	208.25271	(22082604)	492881.32
3625908.40	232.67404	(22081103)		
492906.98	3625898.14	217.25533	(22090723)	492901.84
3625911.60	220.85621	(22090723)		
492928.14	3625914.81	225.03275	(21030703)	492933.91
3625898.14	222.17590	(21030703)		
492951.87	3625908.40	224.97934	(20052502)	492973.67
3625907.11	226.41832	(21080902)		
492993.55	3625914.17	225.51239	(21080902)	492996.11
3625897.50	224.85752	(21080902)		
493015.99	3625896.85	216.81165	(21061223)	493023.05
3625912.24	214.80205	(21061223)		
493044.21	3625907.11	222.27719	(20061224)	493066.66
3625907.76	213.75425	(20061224)		
493085.25	3625912.24	221.16303	(22071602)	493087.18
3625895.57	217.40431	(22071602)		
493108.98	3625911.60	216.07911	(22071602)	493112.19
3625897.50	216.28785	(22071602)		
493133.99	3625901.98	207.48585	(21080802)	492874.27
3625788.48	244.24220	(22081103)		
492894.15	3625789.12	211.94214	(22081103)	492910.18
3625790.40	211.77800	(22090723)		
492930.70	3625786.55	208.07781	(21030703)	492947.38
3625791.04	214.53481	(21030703)		
492963.41	3625787.84	209.22494	(21030703)	492982.65
3625787.84	214.82017	(20052502)		
492999.96	3625787.84	212.16798	(21080902)	493021.12
3625791.04	215.38571	(21080902)		
493036.52	3625789.12	205.85187	(21080902)	493055.75
3625789.76	204.28774	(21061223)		

493076.28	3625787.84	208.61386	(20061224)	493094.87
3625787.84	209.40276	(20061224)		
493112.83	3625788.48	197.95476	(20061224)	493129.50
3625787.19	206.13728	(22071602)		
493148.74	3625787.19	208.63739	(22071602)	493164.77
3625790.40	202.22598	(22070601)		
493184.65	3625789.12	195.43991	(21080802)	493201.97
3625791.04	205.40464	(22081002)		
493221.21	3625790.40	211.02467	(22081002)	493238.52
3625791.04	212.17907	(22010819)		
492780.00	3626415.01	481.30896	(20072601)	492778.72
3626388.08	462.71291	(20072601)		
492747.94	3626386.16	426.56485	(20101822)	492742.16
3626418.22	417.98552	(20101822)		
492699.20	3626422.71	346.23927	(20021621)	492697.92
3626391.93	331.13536	(20021621)		
492678.68	3626411.81	341.26756	(22103002)	492626.09
3626426.56	361.69770	(22043006)		
492606.85	3626435.54	373.64887	(21020303)	492599.16
3626405.39	347.54637	(20112421)		
492491.20	3626644.88	472.44410	(20121705)	492517.36
3626636.70	485.33748	(22090705)		
492521.18	3626603.45	487.57002	(20050622)	492521.72
3626582.19	473.49605	(20081703)		
492512.46	3626553.84	451.28062	(22042324)	492513.55
3626533.13	443.54036	(20102603)		
492501.01	3626506.42	428.92055	(22120301)	492490.65
3626485.70	417.45412	(20120120)		
492479.21	3626464.45	401.31811	(20081404)	492466.12
3626447.00	389.80001	(20081404)		
492447.59	3626418.66	368.93536	(20081404)	492431.78
3626430.65	366.85084	(20120120)		
492481.93	3626620.35	450.73264	(22090705)	492482.48
3626594.18	461.97324	(21100302)		
492479.21	3626572.92	444.64418	(20112420)	492477.02
3626546.76	421.59737	(21080906)		
492467.76	3626523.32	415.96057	(22042324)	492463.94
3626507.51	401.65949	(22042106)		
492450.86	3626492.79	388.82132	(22042106)	492427.42
3626474.80	369.29432	(22042106)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***

*** 14:43:40

PAGE 80

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	352.58349	(20051324)	492803.94
3626616.07	376.27839	(20113022)		
492823.25	3626567.17	462.74654	(22102720)	492838.34
3626526.92	463.70524	(21013120)		
493039.78	3625834.45	209.39953	(21061223)	492791.92
3626663.04	253.21202	(21081022)		
492731.11	3626741.92	469.78470	(21100302)	492774.75
3626728.05	426.18899	(20031811)		
493013.27	3625844.49	217.36184	(21080902)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 81

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, STCK1 , STCK2 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
491461.48	490879.18
	491655.58
	491073.28
	491267.38


```

- - - - -
- - - - -
3628507.6 | 337.46794 (21011618) 342.14687 (21031402) 380.48780 (22090601)
388.92314 (22072901) 376.53152 (20090706)
3628311.7 | 313.57964 (22051505) 375.18963 (21011618) 367.23314 (21031402)
379.50793 (21052422) 456.64630 (22072901)
3628115.8 | 331.58828 (20101702) 356.24239 (22032023) 414.62073 (21011618)
391.83125 (21031402) 410.29167 (22080803)
3627920.0 | 349.94795 (21021624) 381.45010 (22122902) 386.28675 (22032023)
460.06728 (21011618) 451.99386 (21040602)
3627724.1 | 349.48669 (21031502) 379.72859 (22120202) 448.25766 (21122104)
405.25996 (20101805) 541.11501 (21011618)
3627528.3 | 383.22213 (20050803) 391.36332 (22090223) 429.47127 (21031502)
466.64035 (21021624) 483.35915 (20101702)
3627332.4 | 380.55814 (21020722) 392.94353 (21021622) 430.33906 (20050803)
480.37896 (22090223) 524.28489 (22120202)
3627136.5 | 382.09876 (22042401) 397.73130 (22101701) 400.95483 (21031324)
452.29972 (21020722) 464.04704 (20050803)
3626940.7 | 356.95796 (22091605) 369.78811 (22111307) 383.53322 (22102523)
438.24374 (21022323) 464.64805 (22042401)
3626744.8 | 377.72681 (21031423) 415.95558 (21031423) 409.16347 (22051301)
442.31834 (22051301) 456.53902 (21010801)
3626549.0 | 396.34837 (22081005) 421.88703 (22081005) 400.10285 (22081005)
503.20748 (20122123) 698.85105 (20122123)
3626353.1 | 482.27643 (20122123) 527.70206 (20122123) 511.13056 (20122123)
423.03282 (20103021) 500.95381 (22120302)
3626157.2 | 323.07484 (20103020) 356.32596 (20021206) 426.10618 (22120302)
452.21313 (20021723) 476.64626 (20021723)
3625961.4 | 314.51793 (21113004) 341.25175 (22012620) 343.73391 (20021723)
469.11284 (21030222) 692.86169 (22010619)
3625765.5 | 308.63325 (22092801) 371.25292 (22050405) 481.24692 (21030222)
461.65401 (20011520) 549.09204 (21110104)
3625569.7 | 347.37926 (21030222) 428.64413 (22010619) 516.11683 (20011520)
570.99042 (21110104) 445.67939 (20050604)
3625373.8 | 338.30638 (20101401) 414.76438 (20011520) 405.99253 (21110104)
453.71531 (20050604) 580.67017 (20111623)
3625177.9 | 359.92144 (20011520) 409.53758 (20011322) 418.45259 (20050604)
436.64777 (20100406) 483.33360 (21071905)
3624982.1 | 324.30870 (20011322) 387.49945 (20050604) 430.29726 (21081303)
459.76031 (20111623) 462.25635 (22100802)
3624786.2 | 401.10473 (20052324) 384.93177 (21081303) 412.73599 (22040601)
453.14256 (22100802) 477.10506 (20060802)
3624590.4 | 383.50388 (21081303) 383.04598 (22040601) 391.47585 (20080624)
434.00350 (20050524) 463.50634 (21101921)

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 *** ***
*** 14:43:40

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , STCK1 , STCK2 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	491849.68	492043.78	492237.88
492431.98	492626.08		

3628507.6	362.12832 (22102522)	459.87530 (22102624)	434.95825 (22080905)
417.07153 (22062022)	439.24051 (22062723)		
3628311.7	475.80163 (20090706)	523.95042 (22090703)	575.27983 (20101705)
489.20505 (21081223)	482.02951 (22062723)		
3628115.8	480.80824 (22102622)	501.12418 (22102522)	606.59124 (20111805)
553.79636 (22080905)	511.82626 (22062723)		
3627920.0	462.02951 (22072901)	579.54318 (20090706)	591.61737 (22090703)
628.65056 (22080905)	471.41301 (22062723)		
3627724.1	542.14206 (22090601)	596.64530 (22072901)	672.63178 (22102522)
659.55319 (20111805)	471.68395 (22062022)		
3627528.3	603.85404 (21011618)	629.48891 (22090601)	642.80399 (20090706)
743.11525 (20111805)	697.69923 (22062022)		
3627332.4	570.64460 (21122104)	657.71226 (21011618)	770.93853 (22090601)
943.12670 (22102522)	916.30233 (22080905)		
3627136.5	545.99952 (22090223)	674.90884 (21122104)	825.19997 (21011618)
931.43588 (22062102)	968.98452 (20111805)		
3626940.7	513.73731 (21122503)	624.56814 (21021622)	815.83659 (22042905)
1282.04469 (21011618)	1240.57513 (20101705)		
3626744.8	548.19511 (21040603)	629.80367 (21010801)	808.63730 (21010801)
1094.50163 (22120201)	3588.52316 (21011618)		
3626549.0	886.33326 (20122123)	957.45186 (20122123)	867.17410 (20122420)
1328.26095 (21030222)	1437.49444 (22012923)		
3626353.1	432.64217 (22012620)	784.20138 (21030222)	723.31365 (20071703)
701.79576 (21042703)	774.82706 (21030220)		

3626157.2	815.62549 (21030222)	897.21093 (20011520)	931.73623 (20100406)
611.82534 (20080701)	810.74360 (21040224)		
3625961.4	765.13981 (21110104)	697.98149 (20100406)	764.76939 (22012923)
628.52331 (21031722)	788.34303 (20121620)		
3625765.5	513.09164 (20100406)	601.29672 (20111623)	509.76074 (21040801)
660.28987 (20021622)	745.83454 (20021621)		
3625569.7	562.22796 (20111623)	529.83682 (22012923)	495.49384 (22081602)
568.15960 (20112021)	659.24200 (20021220)		
3625373.8	612.47457 (22012923)	511.12937 (20060802)	563.65338 (20021622)
615.81845 (22103002)	605.99498 (20070424)		
3625177.9	509.38948 (21010321)	520.86667 (22081602)	481.27888 (20091424)
586.01487 (21020924)	619.17885 (20090401)		
3624982.1	509.06365 (21101921)	533.12043 (20021622)	519.06786 (20112021)
585.28727 (20021621)	659.14597 (20090401)		
3624786.2	470.76963 (21092101)	498.72749 (20112521)	487.67083 (22103002)
543.12818 (20021220)	615.74055 (20101822)		
3624590.4	463.81636 (20021622)	464.29461 (21102022)	483.81050 (20121620)
542.43433 (20021220)	694.22166 (20101822)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 83

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , STCK1 , STCK2 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD		X-COORD (METERS)
(METERS)	492820.18	493014.28
493402.48	493596.58	493208.38

- - - - -
 - - - - -

3628507.6	446.27498 (22050623)	364.06791 (20081922)	413.87913 (20031321)

360.28948 (22043024)	281.40934 (22082322)		
3628311.7 479.46733 (22050623)	395.45750 (20022901)	375.41771 (20031321)	
408.27464 (21081221)	451.79887 (20101624)		
3628115.8 462.64194 (22050623)	499.16336 (20022901)	456.43311 (22061421)	
347.28779 (22050622)	329.70595 (20101624)		
3627920.0 509.46960 (22050623)	498.15976 (20022901)	453.18752 (22043024)	
589.18136 (20101624)	405.80580 (20100320)		
3627724.1 730.91419 (22090503)	610.60651 (21100706)	518.21053 (21081221)	
387.86263 (20101624)	524.47658 (22081324)		
3627528.3 694.09500 (22090503)	647.49519 (20031321)	600.59745 (20101624)	
511.59471 (22081324)	414.52594 (21052203)		
3627332.4 822.76138 (22090503)	587.44253 (22043024)	511.40574 (20101624)	
493.94971 (22091021)	497.39640 (22091021)		
3627136.5 885.72714 (22090503)	557.50735 (21081221)	470.02775 (22010702)	
426.89938 (22091021)	450.61738 (20081923)		
3626940.7 1150.76162 (22090503)	623.31763 (22010702)	474.91802 (22091021)	
416.33869 (20071323)	425.83691 (20081602)		
3626744.8 1759.14304 (22090503)	748.11311 (22120120)	542.82438 (20081602)	
486.89854 (21072203)	382.06947 (20062123)		
3626549.0 2073.22658 (20113022)	1029.04281 (22111819)	1061.64804 (20121024)	
880.51960 (20070924)	498.44678 (22091222)		
3626353.1 1677.90993 (22080704)	1465.21991 (22081224)	1200.20470 (22073105)	
851.29166 (21070803)	831.25388 (20092322)		
3626157.2 1239.41775 (22082605)	1185.11488 (22010819)	1074.11681 (22081701)	
868.73186 (22041522)	930.02156 (21063023)		
3625961.4 1021.54478 (22082605)	1035.15297 (20022901)	887.38398 (22072201)	
901.54216 (22081701)	753.79128 (20071201)		
3625765.5 920.46347 (22082605)	1354.35923 (22082506)	912.83533 (21020719)	
794.43887 (20041404)	771.47452 (22081701)		
3625569.7 870.29515 (22082605)	1078.47111 (22090723)	862.58751 (22071602)	
711.11900 (21071002)	641.30972 (21111920)		
3625373.8 819.71065 (22082605)	644.44146 (20042523)	859.98176 (20061224)	
587.90100 (21052323)	675.24718 (22050521)		
3625177.9 815.49935 (22082605)	672.38334 (22090723)	999.45689 (21080902)	
637.18477 (22070601)	673.70655 (21071002)		
3624982.1 757.41589 (22082605)	558.23675 (22052124)	1005.27895 (21080902)	
776.07514 (22071602)	533.60445 (22081002)		
3624786.2 726.92893 (22082605)	527.98835 (22052124)	785.44251 (20052502)	
824.35430 (20061224)	508.36237 (20102503)		
3624590.4 658.05199 (22082605)	533.48271 (22081103)	686.04938 (21030703)	
797.51634 (21061223)	713.51895 (22070601)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***

*** 14:43:40

PAGE 84

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002

, L0000003 , L0000004 , L0000005 ,

L0000006 , L0000007 , L0000008 , L0000009 , L0000010

, L0000011 , L0000012 , L0000013 ,

L0000014 , L0000015 , L0000016 , L0000017 , L0000018

, L0000019 , L0000020 , L0000021 ,

L0000022 , L0000023 , L0000024 , L0000025 , L0000026

, STCK1 , STCK2 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
494372.98	493790.68	494567.08	493984.78	494178.88

3628507.6	296.63463 (21080821)	314.91564 (20100320)	283.48383 (22081324)	
169.97997 (21122302)	206.84348 (21052203)			
3628311.7	320.05823 (21080821)	378.13485 (22081324)	211.24141 (21122302)	
205.48695 (21052203)	155.98979 (22061501)			
3628115.8	391.53640 (22081324)	334.56391 (21040924)	243.67311 (21052203)	
161.50131 (22061501)	204.84499 (22091021)			
3627920.0	407.31376 (22081324)	327.16246 (21070722)	203.36969 (22061501)	
225.75881 (22091021)	168.03853 (22121802)			
3627724.1	396.22067 (21070722)	317.75237 (22061501)	284.65692 (22091021)	
211.96408 (20081923)	245.44195 (20081923)			
3627528.3	448.27529 (22091021)	370.00822 (22091021)	333.05333 (20081923)	
306.28001 (20071323)	307.27770 (22051721)			
3627332.4	374.58914 (20081923)	366.87256 (20071323)	325.73207 (22051721)	
322.04187 (21090103)	321.43181 (20081602)			
3627136.5	388.39257 (22051721)	398.82674 (20081602)	504.62396 (21072203)	
428.72872 (21072203)	339.56199 (22102102)			
3626940.7	462.19394 (21072203)	355.72400 (21072203)	456.86533 (22072121)	
415.09620 (22072121)	404.98751 (22072121)			
3626744.8	389.62031 (21041922)	368.70825 (21041922)	365.54978 (20031703)	
355.43180 (20031703)	383.85826 (20031703)			
3626549.0	551.07684 (21020619)	474.56550 (22091222)	418.56065 (22091222)	
409.10452 (22091222)	386.51435 (22091222)			
3626353.1	763.80345 (21091323)	700.14847 (22070202)	488.54623 (20070924)	
624.66316 (20070924)	504.20356 (20070924)			
3626157.2	828.42238 (21052723)	693.07076 (21072102)	588.39222 (21020719)	
573.33352 (20041206)	562.11024 (21091323)			
3625961.4	839.63818 (22082502)	681.45292 (21063023)	617.26197 (21052723)	
576.86531 (21072222)	555.34330 (20092322)			

3625765.5		653.86870	(20071201)	645.66175	(22041522)	627.65597	(22073105)
629.82555		(21063023)	577.23815	(21052723)			
3625569.7		651.68138	(22081701)	598.77414	(22040123)	571.39801	(22041522)
557.67770		(22082502)	567.72949	(20092021)			
3625373.8		725.04680	(22081224)	594.80198	(20101720)	526.60829	(22040123)
505.61026		(21071124)	531.80127	(21082923)			
3625177.9		547.07244	(20080301)	569.33587	(22081224)	541.81993	(20101720)
499.35835		(20050501)	504.62572	(20071201)			
3624982.1		543.87108	(22072201)	500.03035	(20041404)	506.99736	(22081224)
530.16110		(22070621)	482.32985	(20050501)			
3624786.2		520.92108	(21071002)	481.68128	(22050521)	447.90670	(20041404)
465.03734		(21030821)	522.16836	(22070621)			
3624590.4		558.98676	(22010819)	495.63975	(20101621)	455.28341	(20080301)
469.77050		(21111920)	475.31836	(21030821)			

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 85

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, STCK1 , STCK2 , . . . ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)		494761.18

3628507.6		159.56852	(22061501)
3628311.7		204.05767	(22091021)
3628115.8		162.00431	(22082422)
3627920.0		205.04578	(20081923)
3627724.1		192.89505	(20071323)
3627528.3		211.75576	(21090103)

3627332.4		265.06452 (21072203)
3627136.5		260.64257 (21053101)
3626940.7		389.72928 (20062123)
3626744.8		409.45807 (20031703)
3626549.0		374.62330 (22091222)
3626353.1		514.71946 (21083001)
3626157.2		413.42663 (22070202)
3625961.4		469.41458 (21020719)
3625765.5		547.85093 (21070803)
3625569.7		543.67200 (21063023)
3625373.8		530.12171 (22073105)
3625177.9		542.98182 (22041522)
3624982.1		544.68053 (20071201)
3624786.2		491.53662 (21081124)
3624590.4		464.46291 (22070621)

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 86

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , STCK1 , STCK2 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	984.65537	(22081005)	492919.80
3625834.65	911.37991	(21061601)		
492955.07	3625845.55	721.78736	(21030703)	493069.86
3625832.73	1722.45999	(22011423)		
493094.87	3625832.73	1543.21282	(21092324)	493110.90
3625837.21	1490.54356	(20101806)		

493151.95	3625834.01	1289.99582	(21092324)	493166.70
3625837.86	1230.12649	(20101806)		
493187.86	3625836.57	1144.94197	(20101806)	493201.33
3625836.57	1095.79277	(20101806)		
493240.44	3625836.57	978.63127	(20090820)	492881.32
3625908.40	971.95442	(22081103)		
492906.98	3625898.14	802.30697	(21081604)	492901.84
3625911.60	843.87135	(22032023)		
492928.14	3625914.81	824.95285	(21040201)	492933.91
3625898.14	858.71315	(21040201)		
492951.87	3625908.40	919.95341	(22102522)	492973.67
3625907.11	934.82529	(20111805)		
492993.55	3625914.17	1005.20487	(22090503)	492996.11
3625897.50	851.11702	(21080902)		
493015.99	3625896.85	826.02291	(22071905)	493023.05
3625912.24	1132.83619	(21081221)		
493044.21	3625907.11	1396.02019	(22010702)	493066.66
3625907.76	1246.78851	(22010702)		
493085.25	3625912.24	937.41541	(21052203)	493087.18
3625895.57	1132.05990	(20081923)		
493108.98	3625911.60	1013.17928	(20081923)	493112.19
3625897.50	1039.23726	(20071323)		
493133.99	3625901.98	958.28699	(20071323)	492874.27
3625788.48	973.81146	(22081103)		
492894.15	3625789.12	948.01279	(20011918)	492910.18
3625790.40	917.01200	(20011918)		
492930.70	3625786.55	982.39261	(22120301)	492947.38
3625791.04	1101.90841	(22120301)		
492963.41	3625787.84	935.72591	(20021622)	492982.65
3625787.84	930.05697	(22012923)		
492999.96	3625787.84	1164.32430	(21080902)	493021.12
3625791.04	1630.03377	(22082506)		
493036.52	3625789.12	1714.21426	(20080623)	493055.75
3625789.76	1423.83203	(20080623)		
493076.28	3625787.84	1299.57830	(21072003)	493094.87
3625787.84	1445.77011	(22082504)		
493112.83	3625788.48	1237.25229	(20082306)	493129.50
3625787.19	1148.96854	(22092902)		
493148.74	3625787.19	1078.85151	(22092902)	493164.77
3625790.40	1075.42121	(20082305)		
493184.65	3625789.12	1017.50728	(20082305)	493201.97
3625791.04	1003.12556	(21040722)		
493221.21	3625790.40	966.33196	(21040722)	493238.52
3625791.04	922.71084	(21083001)		
492780.00	3626415.01	1452.23485	(21060405)	492778.72
3626388.08	1405.56694	(21060405)		
492747.94	3626386.16	1189.57599	(21020521)	492742.16
3626418.22	1183.18470	(22052506)		
492699.20	3626422.71	1083.50315	(21103123)	492697.92
3626391.93	960.96403	(20122205)		

492678.68	3626411.81	902.82533	(22120301)	492626.09
3626426.56	837.99363	(21020924)		
492606.85	3626435.54	1084.35478	(20091423)	492599.16
3626405.39	823.25604	(22052202)		
492491.20	3626644.88	1794.31404	(20122123)	492517.36
3626636.70	1719.09940	(20122123)		
492521.18	3626603.45	1516.04818	(21030222)	492521.72
3626582.19	1797.83798	(21030222)		
492512.46	3626553.84	1710.76363	(20011520)	492513.55
3626533.13	1686.84816	(21110104)		
492501.01	3626506.42	1523.99892	(21110104)	492490.65
3626485.70	1513.61991	(20100406)		
492479.21	3626464.45	1550.88444	(20100406)	492466.12
3626447.00	1300.74604	(20100406)		
492447.59	3626418.66	1029.85423	(20102402)	492431.78
3626430.65	1011.41512	(20100705)		
492481.93	3626620.35	1380.10093	(20122123)	492482.48
3626594.18	1426.82909	(21030222)		
492479.21	3626572.92	1563.03973	(21030222)	492477.02
3626546.76	1672.76999	(21030222)		
492467.76	3626523.32	1587.10261	(20011520)	492463.94
3626507.51	1624.26350	(20011520)		
492450.86	3626492.79	1687.63009	(20011520)	492427.42
3626474.80	1496.19785	(20011520)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24

*** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 87

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , STCK1 , STCK2 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

Y-COORD (M)	CONC	(YYMMDDHH)
492402.89	3626460.63	950.24645 (20071703)
3626616.07	2178.46408	(20021620)
492823.25	3626567.17	1929.69684 (22010618)
3626526.92	1813.65318	(22010618)
493039.78	3625834.45	1515.20987 (22011423)
3626663.04	2037.89475	(20070601)
492731.11	3626741.92	2759.72717 (20070601)
3626728.05	1819.99764	(20070601)
493013.27	3625844.49	983.78438 (21080902)

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:43:40

PAGE 88

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (26304

HRS) RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE	GRID-ID	
SLINE1	1ST HIGHEST VALUE IS	399.52206 AT (	492626.08, 3626744.82, 112.00,
123.20,	0.00) GC UCART1		
	2ND HIGHEST VALUE IS	185.57707 AT (	492731.11, 3626741.92, 118.49,
121.20,	0.00) DC		
	3RD HIGHEST VALUE IS	145.30847 AT (	492791.92, 3626663.04, 123.58,
123.58,	0.00) DC		
	4TH HIGHEST VALUE IS	125.87860 AT (	492774.75, 3626728.05, 120.29,
120.29,	0.00) DC		
	5TH HIGHEST VALUE IS	122.77118 AT (	492803.94, 3626616.07, 124.66,
124.66,	0.00) DC		
	6TH HIGHEST VALUE IS	109.79011 AT (	492521.18, 3626603.45, 117.51,
117.51,	0.00) DC		
	7TH HIGHEST VALUE IS	106.34927 AT (	492517.36, 3626636.70, 113.55,
133.70,	0.00) DC		
	8TH HIGHEST VALUE IS	100.74060 AT (	492521.72, 3626582.19, 118.28,

118.28,	0.00) DC	95.02436 AT (	492491.20,	3626644.88,	115.09,
116.49,	0.00) DC				
	10TH HIGHEST VALUE IS	91.66791 AT (	492481.93,	3626620.35,	116.30,
134.09,	0.00) DC				
STCK1	1ST HIGHEST VALUE IS	88.21702 AT (	492820.18,	3626548.96,	125.40,
125.40,	0.00) GC UCART1				
	2ND HIGHEST VALUE IS	81.52801 AT (	492838.34,	3626526.92,	125.45,
125.45,	0.00) DC				
	3RD HIGHEST VALUE IS	63.35507 AT (	492823.25,	3626567.17,	125.08,
125.08,	0.00) DC				
	4TH HIGHEST VALUE IS	28.27319 AT (	492699.20,	3626422.71,	129.76,
129.76,	0.00) DC				
	5TH HIGHEST VALUE IS	27.26878 AT (	492742.16,	3626418.22,	129.71,
129.71,	0.00) DC				
	6TH HIGHEST VALUE IS	24.95680 AT (	492678.68,	3626411.81,	130.96,
134.69,	0.00) DC				
	7TH HIGHEST VALUE IS	23.71054 AT (	492780.00,	3626415.01,	128.98,
135.14,	0.00) DC				
	8TH HIGHEST VALUE IS	21.99347 AT (	492697.92,	3626391.93,	131.37,
134.78,	0.00) DC				
	9TH HIGHEST VALUE IS	21.47011 AT (	492626.09,	3626426.56,	132.75,
133.61,	0.00) DC				
	10TH HIGHEST VALUE IS	19.66001 AT (	492606.85,	3626435.54,	128.92,
134.13,	0.00) DC				
STCK2	1ST HIGHEST VALUE IS	156.36088 AT (	493039.78,	3625834.45,	141.93,
141.93,	0.00) DC				
	2ND HIGHEST VALUE IS	107.83633 AT (	493013.27,	3625844.49,	141.76,
141.76,	0.00) DC				
	3RD HIGHEST VALUE IS	104.37471 AT (	493069.86,	3625832.73,	142.17,
142.17,	0.00) DC				
	4TH HIGHEST VALUE IS	86.28154 AT (	493076.28,	3625787.84,	141.87,
141.87,	0.00) DC				
	5TH HIGHEST VALUE IS	85.24800 AT (	493055.75,	3625789.76,	141.87,
141.87,	0.00) DC				
	6TH HIGHEST VALUE IS	80.12173 AT (	493036.52,	3625789.12,	141.85,
141.85,	0.00) DC				
	7TH HIGHEST VALUE IS	78.47407 AT (	493021.12,	3625791.04,	141.82,
141.82,	0.00) DC				
	8TH HIGHEST VALUE IS	77.03139 AT (	493094.87,	3625787.84,	141.87,
141.87,	0.00) DC				
	9TH HIGHEST VALUE IS	68.58691 AT (	493094.87,	3625832.73,	142.17,
142.17,	0.00) DC				
	10TH HIGHEST VALUE IS	58.24440 AT (	492999.96,	3625787.84,	141.71,
141.71,	0.00) DC				
STCK3	1ST HIGHEST VALUE IS	83.71425 AT (	492803.94,	3626616.07,	124.66,
124.66,	0.00) DC				

123.58,	2ND HIGHEST VALUE IS	63.15476 AT (	492791.92,	3626663.04,	123.58,
0.00)	DC				
125.08,	3RD HIGHEST VALUE IS	27.58239 AT (	492823.25,	3626567.17,	125.08,
0.00)	DC				
125.40,	4TH HIGHEST VALUE IS	21.14829 AT (	492820.18,	3626548.96,	125.40,
0.00)	GC UCART1				
136.60,	5TH HIGHEST VALUE IS	19.97434 AT (	492626.08,	3626548.96,	100.70,
0.00)	GC UCART1				
136.20,	6TH HIGHEST VALUE IS	19.12963 AT (	493014.28,	3626548.96,	110.00,
0.00)	GC UCART1				
125.45,	7TH HIGHEST VALUE IS	18.49818 AT (	492838.34,	3626526.92,	125.45,
0.00)	DC				
134.13,	8TH HIGHEST VALUE IS	13.70546 AT (	492606.85,	3626435.54,	128.92,
0.00)	DC				
133.61,	9TH HIGHEST VALUE IS	12.43496 AT (	492626.09,	3626426.56,	132.75,
0.00)	DC				
133.70,	10TH HIGHEST VALUE IS	12.41215 AT (	492513.55,	3626533.13,	118.00,
0.00)	DC				

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:43:40

PAGE 89

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (26304

HRS) RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR	(XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE GRID-ID			
STCK4	1ST HIGHEST VALUE IS	33.45300 AT (	492791.92,	3626663.04,
123.58,	0.00) DC			123.58,
	2ND HIGHEST VALUE IS	30.77086 AT (	492731.11,	3626741.92,
121.20,	0.00) DC			118.49,
	3RD HIGHEST VALUE IS	29.90511 AT (	492774.75,	3626728.05,
120.29,	0.00) DC			120.29,
	4TH HIGHEST VALUE IS	24.31135 AT (	492803.94,	3626616.07,
124.66,	0.00) DC			124.66,
	5TH HIGHEST VALUE IS	20.59435 AT (	492823.25,	3626567.17,
125.08,	0.00) DC			125.08,

123.20,	6TH HIGHEST VALUE IS	20.01638 AT (	492626.08,	3626744.82,	112.00,
0.00)	GC UCART1				
125.30,	7TH HIGHEST VALUE IS	18.54391 AT (	492820.18,	3626744.82,	108.40,
0.00)	GC UCART1				
125.40,	8TH HIGHEST VALUE IS	18.16964 AT (	492820.18,	3626548.96,	125.40,
0.00)	GC UCART1				
117.51,	9TH HIGHEST VALUE IS	17.06919 AT (	492521.18,	3626603.45,	117.51,
0.00)	DC				
133.70,	10TH HIGHEST VALUE IS	16.67246 AT (	492517.36,	3626636.70,	113.55,
0.00)	DC				
ALL	1ST HIGHEST VALUE IS	433.44215 AT (	492626.08,	3626744.82,	112.00,
123.20,	0.00)	GC UCART1			
123.58,	2ND HIGHEST VALUE IS	252.26155 AT (	492791.92,	3626663.04,	123.58,
0.00)	DC				
124.66,	3RD HIGHEST VALUE IS	246.19014 AT (	492803.94,	3626616.07,	124.66,
0.00)	DC				
121.20,	4TH HIGHEST VALUE IS	237.83282 AT (	492731.11,	3626741.92,	118.49,
0.00)	DC				
125.40,	5TH HIGHEST VALUE IS	199.73870 AT (	492820.18,	3626548.96,	125.40,
0.00)	GC UCART1				
125.08,	6TH HIGHEST VALUE IS	193.82813 AT (	492823.25,	3626567.17,	125.08,
0.00)	DC				
125.45,	7TH HIGHEST VALUE IS	175.67170 AT (	492838.34,	3626526.92,	125.45,
0.00)	DC				
120.29,	8TH HIGHEST VALUE IS	173.87129 AT (	492774.75,	3626728.05,	120.29,
0.00)	DC				
141.93,	9TH HIGHEST VALUE IS	166.60330 AT (	493039.78,	3625834.45,	141.93,
0.00)	DC				
117.51,	10TH HIGHEST VALUE IS	145.31222 AT (	492521.18,	3626603.45,	117.51,
0.00)	DC				

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

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
 *** AERMET - VERSION 23132 ***
 *** 14:43:40

PAGE 90

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	NETWORK GRID-ID	DATE (YYMMDDHH)	RECEPTOR
SLINE1 HIGH 1ST HIGH VALUE IS 3626744.82, 112.00, 123.20, 0.00	GC	UCART1	2910.24415 ON 22120701: AT (	492626.08,
STCK1 HIGH 1ST HIGH VALUE IS 3626616.07, 124.66, 124.66, 0.00	DC		1361.72319 ON 22102522: AT (	492803.94,
STCK2 HIGH 1ST HIGH VALUE IS 3625832.73, 142.17, 142.17, 0.00	DC		1714.13040 ON 22011423: AT (	493069.86,
STCK3 HIGH 1ST HIGH VALUE IS 3626548.96, 125.40, 125.40, 0.00	GC	UCART1	972.94743 ON 22081103: AT (	492820.18,
STCK4 HIGH 1ST HIGH VALUE IS 3626744.82, 112.00, 123.20, 0.00	GC	UCART1	713.46323 ON 22092802: AT (	492626.08,
ALL HIGH 1ST HIGH VALUE IS 3626744.82, 112.00, 123.20, 0.00	GC	UCART1	3588.52316 ON 21011618: AT (	492626.08,

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

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/21/24
*** AERMET - VERSION 23132 ***
*** 14:43:40

PAGE 91

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

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

A Total of 0 Fatal Error Message(s)
A Total of 3 Warning Message(s)
A Total of 1415 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 654 Calm Hours Identified

A Total of 761 Missing Hours Identified (2.89 Percent)

***** FATAL ERROR MESSAGES *****

*** NONE ***

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

SO W320 121 PPARM: Input Parameter May Be Out-of-Range for Parameter
VS

SO W320 122 PPARM: Input Parameter May Be Out-of-Range for Parameter
VS

MX W403 300 PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

*** AERMOD Finishes Successfully ***

HARP2 - HRACalc (dated 22118) 12/3/2024 3:13:28 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.42

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.42
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 4 HARP\hra\Phase 4

OffsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 4 HARP\hra\Phase 4

OffsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 4 HARP\hra\Phase 4

OffsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 4 HARP\hra\Phase 4

OffsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 4 HARP\hra\Phase 4

OffsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 4 HARP\hra\Phase 4

OffsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

[illegible]

[illegible]

94	ALL	UCART1	492626.1	3625374	7.10E-08	1.42YrCanc	7.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	UCART1	492820.2	3625374	4.42E-08	1.42YrCanc	4.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	UCART1	493014.3	3625374	6.37E-08	1.42YrCanc	6.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	UCART1	493208.4	3625374	6.84E-08	1.42YrCanc	6.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	UCART1	493402.5	3625374	6.72E-08	1.42YrCanc	6.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	UCART1	493596.6	3625374	6.80E-08	1.42YrCanc	6.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	UCART1	493790.7	3625374	5.14E-08	1.42YrCanc	5.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	UCART1	493984.8	3625374	3.38E-08	1.42YrCanc	3.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	UCART1	494178.9	3625374	3.24E-08	1.42YrCanc	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	UCART1	494373	3625374	3.06E-08	1.42YrCanc	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	UCART1	494567.1	3625374	3.13E-08	1.42YrCanc	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	UCART1	494761.2	3625374	3.10E-08	1.42YrCanc	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	UCART1	490879.2	3625570	5.73E-08	1.42YrCanc	5.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	UCART1	491073.3	3625570	6.57E-08	1.42YrCanc	6.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	UCART1	491267.4	3625570	8.33E-08	1.42YrCanc	8.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	UCART1	491461.5	3625570	8.67E-08	1.42YrCanc	8.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	UCART1	491655.6	3625570	7.43E-08	1.42YrCanc	7.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	UCART1	491849.7	3625570	7.64E-08	1.42YrCanc	7.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	UCART1	492043.8	3625570	6.40E-08	1.42YrCanc	6.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	UCART1	492237.9	3625570	6.65E-08	1.42YrCanc	6.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	UCART1	492432	3625570	7.50E-08	1.42YrCanc	7.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	UCART1	492626.1	3625570	8.42E-08	1.42YrCanc	8.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	UCART1	492820.2	3625570	8.96E-08	1.42YrCanc	8.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	UCART1	493014.3	3625570	5.32E-08	1.42YrCanc	5.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	UCART1	493208.4	3625570	8.43E-08	1.42YrCanc	8.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	UCART1	493402.5	3625570	9.00E-08	1.42YrCanc	9.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	UCART1	493596.6	3625570	4.41E-08	1.42YrCanc	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	UCART1	493790.7	3625570	4.00E-08	1.42YrCanc	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	UCART1	493984.8	3625570	3.78E-08	1.42YrCanc	3.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	UCART1	494178.9	3625570	3.56E-08	1.42YrCanc	3.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	UCART1	494373	3625570	3.70E-08	1.42YrCanc	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	UCART1	494567.1	3625570	4.45E-08	1.42YrCanc	4.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	UCART1	494761.2	3625570	4.21E-08	1.42YrCanc	4.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	UCART1	490879.2	3625766	5.81E-08	1.42YrCanc	5.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	UCART1	491073.3	3625766	7.57E-08	1.42YrCanc	7.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	UCART1	491267.4	3625766	8.12E-08	1.42YrCanc	8.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	UCART1	491461.5	3625766	8.67E-08	1.42YrCanc	8.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	UCART1	491655.6	3625766	8.97E-08	1.42YrCanc	8.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	UCART1	491849.7	3625766	8.86E-08	1.42YrCanc	8.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	UCART1	492043.8	3625766	8.68E-08	1.42YrCanc	8.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	UCART1	492237.9	3625766	8.72E-08	1.42YrCanc	8.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	UCART1	492432	3625766	1.17E-07	1.42YrCanc	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	UCART1	492626.1	3625766	1.23E-07	1.42YrCanc	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	UCART1	492820.2	3625766	7.23E-08	1.42YrCanc	7.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	UCART1	493014.3	3625766	9.19E-08	1.42YrCanc	9.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	UCART1	493208.4	3625766	7.98E-08	1.42YrCanc	7.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	UCART1	493402.5	3625766	7.19E-08	1.42YrCanc	7.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

141	ALL	UCART1	493596.6	3625766	5.44E-08	1.42YrCanc	5.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	UCART1	493790.7	3625766	4.43E-08	1.42YrCanc	4.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	UCART1	493984.8	3625766	4.30E-08	1.42YrCanc	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	UCART1	494178.9	3625766	4.72E-08	1.42YrCanc	4.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	UCART1	494373	3625766	4.73E-08	1.42YrCanc	4.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	UCART1	494567.1	3625766	3.85E-08	1.42YrCanc	3.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	UCART1	494761.2	3625766	3.79E-08	1.42YrCanc	3.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	UCART1	490879.2	3625961	5.61E-08	1.42YrCanc	5.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	UCART1	491073.3	3625961	6.86E-08	1.42YrCanc	6.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	UCART1	491267.4	3625961	8.50E-08	1.42YrCanc	8.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	UCART1	491461.5	3625961	1.06E-07	1.42YrCanc	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	UCART1	491655.6	3625961	1.59E-07	1.42YrCanc	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	UCART1	491849.7	3625961	1.65E-07	1.42YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	UCART1	492043.8	3625961	1.30E-07	1.42YrCanc	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	UCART1	492237.9	3625961	1.28E-07	1.42YrCanc	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	UCART1	492432	3625961	1.51E-07	1.42YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	UCART1	492626.1	3625961	1.38E-07	1.42YrCanc	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	UCART1	492820.2	3625961	7.03E-08	1.42YrCanc	7.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	UCART1	493014.3	3625961	7.40E-08	1.42YrCanc	7.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	UCART1	493208.4	3625961	7.49E-08	1.42YrCanc	7.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	UCART1	493402.5	3625961	7.37E-08	1.42YrCanc	7.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	UCART1	493596.6	3625961	6.58E-08	1.42YrCanc	6.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	UCART1	493790.7	3625961	8.81E-08	1.42YrCanc	8.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	UCART1	493984.8	3625961	5.78E-08	1.42YrCanc	5.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	UCART1	494178.9	3625961	4.82E-08	1.42YrCanc	4.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	UCART1	494373	3625961	5.95E-08	1.42YrCanc	5.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	UCART1	494567.1	3625961	3.38E-08	1.42YrCanc	3.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	UCART1	494761.2	3625961	4.23E-08	1.42YrCanc	4.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	UCART1	490879.2	3626157	5.03E-08	1.42YrCanc	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	UCART1	491073.3	3626157	6.33E-08	1.42YrCanc	6.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	UCART1	491267.4	3626157	1.03E-07	1.42YrCanc	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	UCART1	491461.5	3626157	1.37E-07	1.42YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	UCART1	491655.6	3626157	1.85E-07	1.42YrCanc	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	UCART1	491849.7	3626157	2.26E-07	1.42YrCanc	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	UCART1	492043.8	3626157	2.51E-07	1.42YrCanc	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	UCART1	492237.9	3626157	2.28E-07	1.42YrCanc	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	UCART1	492432	3626157	2.17E-07	1.42YrCanc	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	UCART1	492626.1	3626157	1.75E-07	1.42YrCanc	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	UCART1	492820.2	3626157	1.19E-07	1.42YrCanc	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	UCART1	493014.3	3626157	1.62E-07	1.42YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	UCART1	493208.4	3626157	1.10E-07	1.42YrCanc	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	UCART1	493402.5	3626157	9.78E-08	1.42YrCanc	9.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	UCART1	493596.6	3626157	1.29E-07	1.42YrCanc	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	UCART1	493790.7	3626157	1.08E-07	1.42YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	UCART1	493984.8	3626157	6.25E-08	1.42YrCanc	6.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	UCART1	494178.9	3626157	4.48E-08	1.42YrCanc	4.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	UCART1	494373	3626157	4.31E-08	1.42YrCanc	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

188	ALL	UCART1	494567.1	3626157	2.96E-08	1.42YrCanc	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	UCART1	494761.2	3626157	3.91E-08	1.42YrCanc	3.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	UCART1	490879.2	3626353	4.59E-08	1.42YrCanc	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	UCART1	491073.3	3626353	6.43E-08	1.42YrCanc	6.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	UCART1	491267.4	3626353	8.14E-08	1.42YrCanc	8.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	UCART1	491461.5	3626353	9.64E-08	1.42YrCanc	9.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	UCART1	491655.6	3626353	1.70E-07	1.42YrCanc	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	UCART1	491849.7	3626353	1.91E-07	1.42YrCanc	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	UCART1	492043.8	3626353	3.81E-07	1.42YrCanc	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	UCART1	492237.9	3626353	2.84E-07	1.42YrCanc	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	UCART1	492432	3626353	2.26E-07	1.42YrCanc	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	UCART1	492626.1	3626353	2.19E-07	1.42YrCanc	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	UCART1	492820.2	3626353	2.19E-07	1.42YrCanc	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	UCART1	493014.3	3626353	4.50E-07	1.42YrCanc	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	UCART1	493208.4	3626353	2.18E-07	1.42YrCanc	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	UCART1	493402.5	3626353	1.41E-07	1.42YrCanc	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	UCART1	493596.6	3626353	1.11E-07	1.42YrCanc	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	UCART1	493790.7	3626353	8.12E-08	1.42YrCanc	8.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+							

[illegible]

282	ALL	UCART1	492432	3627137	2.23E-07	1.42YrCanc	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	UCART1	492626.1	3627137	2.50E-07	1.42YrCanc	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	UCART1	492820.2	3627137	2.19E-07	1.42YrCanc	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	UCART1	493014.3	3627137	1.64E-07	1.42YrCanc	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	UCART1	493208.4	3627137	1.18E-07	1.42YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	UCART1	493402.5	3627137	8.69E-08	1.42YrCanc	8.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	UCART1	493596.6	3627137	6.14E-08	1.42YrCanc	6.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	UCART1	493790.7	3627137	1.63E-08	1.42YrCanc	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	UCART1	493984.8	3627137	1.41E-08	1.42YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	UCART1	494178.9	3627137	2.03E-08	1.42YrCanc	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	UCART1	494373	3627137	1.26E-08	1.42YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	UCART1	494567.1	3627137	1.00E-08	1.42YrCanc	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	UCART1	494761.2	3627137	5.45E-09	1.42YrCanc	5.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	UCART1	490879.2	3627332	2.89E-08	1.42YrCanc	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	UCART1	491073.3	3627332	3.35E-08	1.42YrCanc	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	UCART1	491267.4	3627332	3.96E-08	1.42YrCanc	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	UCART1	491461.5	3627332	4.71E-08	1.42YrCanc	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	UCART1	491655.6	3627332	5.69E-08	1.42YrCanc	5.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

329	ALL	UCART1	493402.5	3627528	3.65E-08	1.42YrCanc	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	UCART1	493596.6	3627528	5.03E-08	1.42YrCanc	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	UCART1	493790.7	3627528	1.39E-08	1.42YrCanc	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	UCART1	493984.8	3627528	7.07E-09	1.42YrCanc	7.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	UCART1	494178.9	3627528	4.32E-09	1.42YrCanc	4.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	UCART1	494373	3627528	3.86E-09	1.42YrCanc	3.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	UCART1	494567.1	3627528	3.83E-09	1.42YrCanc	3.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	UCART1	494761.2	3627528	2.03E-09	1.42YrCanc	2.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	UCART1	490879.2	3627724	2.40E-08	1.42YrCanc	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	UCART1	491073.3	3627724	2.71E-08	1.42YrCanc	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	UCART1	491267.4	3627724	3.13E-08	1.42YrCanc	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	UCART1	491461.5	3627724	3.68E-08	1.42YrCanc	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	UCART1	491655.6	3627724	4.34E-08	1.42YrCanc	4.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	UCART1	491849.7	3627724	5.00E-08	1.42YrCanc	5.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	UCART1	492043.8	3627724	5.62E-08	1.42YrCanc	5.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	UCART1	492237.9	3627724	6.44E-08	1.42YrCanc	6.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	UCART1	492432	3627724	6.44E-08	1.42YrCanc	6.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	UCART1	492626.1	3627724	6.51E-08	1.42YrCanc	6.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

376	ALL	UCART1	494373	3627920	1.73E-09	1.42YrCanc	1.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	UCART1	494567.1	3627920	1.63E-09	1.42YrCanc	1.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	UCART1	494761.2	3627920	1.50E-09	1.42YrCanc	1.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	UCART1	490879.2	3628116	2.04E-08	1.42YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	UCART1	491073.3	3628116	2.30E-08	1.42YrCanc	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	UCART1	491267.4	3628116	2.58E-08	1.42YrCanc	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	UCART1	491461.5	3628116	2.85E-08	1.42YrCanc	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	UCART1	491655.6	3628116	3.15E-08	1.42YrCanc	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	UCART1	491849.7	3628116	3.52E-08	1.42YrCanc	3.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	UCART1	492043.8	3628116	3.78E-08	1.42YrCanc	3.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	UCART1	492237.9	3628116	3.95E-08	1.42YrCanc	3.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	UCART1	492432	3628116	4.09E-08	1.42YrCanc	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	UCART1	492626.1	3628116	4.15E-08	1.42YrCanc	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	UCART1	492820.2	3628116	3.80E-08	1.42YrCanc	3.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	UCART1	493014.3	3628116	3.67E-08	1.42YrCanc	3.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	UCART1	493208.4	3628116	4.09E-08	1.42YrCanc	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	UCART1	493402.5	3628116	3.87E-08	1.42YrCanc	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	UCART1	493596.6	3628116	3.15E-08	1.42YrCanc	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

423	ALL	UCART1	491267.4	3628508	2.03E-08	1.42YrCanc	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	UCART1	491461.5	3628508	2.20E-08	1.42YrCanc	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	UCART1	491655.6	3628508	2.36E-08	1.42YrCanc	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	UCART1	491849.7	3628508	2.53E-08	1.42YrCanc	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	UCART1	492043.8	3628508	2.72E-08	1.42YrCanc	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	UCART1	492237.9	3628508	2.84E-08	1.42YrCanc	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	UCART1	492432	3628508	3.03E-08	1.42YrCanc	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	UCART1	492626.1	3628508	3.07E-08	1.42YrCanc	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	UCART1	492820.2	3628508	3.02E-08	1.42YrCanc	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	UCART1	493014.3	3628508	2.57E-08	1.42YrCanc	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	UCART1	493208.4	3628508	2.78E-08	1.42YrCanc	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	UCART1	493402.5	3628508	2.71E-08	1.42YrCanc	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	UCART1	493596.6	3628508	2.69E-08	1.42YrCanc	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	UCART1	493790.7	3628508	1.65E-08	1.42YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	UCART1	493984.8	3628508	5.63E-09	1.42YrCanc	5.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	UCART1	494178.9	3628508	1.67E-09	1.42YrCanc	1.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	UCART1	494373	3628508	1.24E-09	1.42YrCanc	1.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	UCART1	494567.1	3628508	1.21E-09	1.42YrCanc	1.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	UCART1	494761.2	3628508	1.22E-09	1.42YrCanc	1.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL		492883.3	3625831	7.66E-08	1.42YrCanc	7.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL		492919.8	3625835	8.04E-08	1.42YrCanc	8.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL		492955.1	3625846	7.20E-08	1.42YrCanc	7.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL		493069.9	3625833	1.56E-07	1.42YrCanc	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL		493094.9	3625833	1.20E-07	1.42YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL		493110.9	3625837	9.49E-08	1.42YrCanc	9.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL		493152	3625834	8.11E-08	1.42YrCanc	8.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL		493166.7	3625838	7.69E-08	1.42YrCanc	7.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL		493187.9	3625837	7.41E-08	1.42YrCanc	7.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL		493201.3	3625837	7.25E-08	1.42YrCanc	7.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL		493240.4	3625837	7.05E-08	1.42YrCanc	7.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL		492881.3	3625908	6.42E-08	1.42YrCanc	6.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL		492907	3625898	6.32E-08	1.42YrCanc	6.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL		492901.8	3625912	6.49E-08	1.42YrCanc	6.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL		492928.1	3625915	6.68E-08	1.42YrCanc	6.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL		492933.9	3625898	6.48E-08	1.42YrCanc	6.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL		492951.9	3625908	6.74E-08	1.42YrCanc	6.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL		492973.7	3625907	7.05E-08	1.42YrCanc	7.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL		492993.6	3625914	7.40E-08	1.42YrCanc	7.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL		492996.1	3625898	7.33E-08	1.42YrCanc	7.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL		493016	3625897	7.53E-08	1.42YrCanc	7.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL		493023.1	3625912	7.52E-08	1.42YrCanc	7.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL		493044.2	3625907	7.71E-08	1.42YrCanc	7.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL		493066.7	3625908	8.10E-08	1.42YrCanc	8.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL		493085.3	3625912	7.71E-08	1.42YrCanc	7.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL		493087.2	3625896	8.18E-08	1.42YrCanc	8.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL		493109	3625912	7.67E-08	1.42YrCanc	7.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL		493112.2	3625898	7.82E-08	1.42YrCanc	7.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

470	ALL	493134	3625902	7.85E-08	1.42YrCanc	7.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	492874.3	3625788	8.58E-08	1.42YrCanc	8.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	492894.2	3625789	9.13E-08	1.42YrCanc	9.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	492910.2	3625790	9.57E-08	1.42YrCanc	9.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	492930.7	3625787	9.82E-08	1.42YrCanc	9.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	492947.4	3625791	1.02E-07	1.42YrCanc	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	492963.4	3625788	9.71E-08	1.42YrCanc	9.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	492982.7	3625788	9.81E-08	1.42YrCanc	9.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	493000	3625788	1.06E-07	1.42YrCanc	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	493021.1	3625791	1.27E-07	1.42YrCanc	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	493036.5	3625789	1.29E-07	1.42YrCanc	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	493055.8	3625790	1.34E-07	1.42YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	493076.3	3625788	1.36E-07	1.42YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	493094.9	3625788	1.27E-07	1.42YrCanc	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	493112.8	3625788	1.08E-07	1.42YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	493129.5	3625787	1.00E-07	1.42YrCanc	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	493148.7	3625787	9.24E-08	1.42YrCanc	9.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	493164.8	3625790	8.72E-08	1.42YrCanc	8.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	493184.7	3625789	8.23E													

[illegible]

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEI RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL	UCART1	490879.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
2	ALL	UCART1	491073.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
3	ALL	UCART1	491267.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
4	ALL	UCART1	491461.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
5	ALL	UCART1	491655.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
6	ALL	UCART1	491849.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
7	ALL	UCART1	492043.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
8	ALL	UCART1	492237.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
9	ALL	UCART1	492432	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
10	ALL	UCART1	492626.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
11	ALL	UCART1	492820.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
12	ALL	UCART1	493014.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
13	ALL	UCART1	493208.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
14	ALL	UCART1	493402.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
15	ALL	UCART1	493596.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
16	ALL	UCART1	493790.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
17	ALL	UCART1	493984.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
18	ALL	UCART1	494178.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
19	ALL	UCART1	494373	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
20	ALL	UCART1	494567.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
21	ALL	UCART1	494761.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
22	ALL	UCART1	490879.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
23	ALL	UCART1	491073.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
24	ALL	UCART1	491267.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
25	ALL	UCART1	491461.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
26	ALL	UCART1	491655.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
27	ALL	UCART1	491849.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05
28	ALL	UCART1	492043.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
29	ALL	UCART1	492237.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
30	ALL	UCART1	492432	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
31	ALL	UCART1	492626.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
32	ALL	UCART1	492820.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
33	ALL	UCART1	493014.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
34	ALL	UCART1	493208.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
35	ALL	UCART1	493402.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
36	ALL	UCART1	493596.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
37	ALL	UCART1	493790.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
38	ALL	UCART1	493984.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
39	ALL	UCART1	494178.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
40	ALL	UCART1	494373	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
41	ALL	UCART1	494567.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
42	ALL	UCART1	494761.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
43	ALL	UCART1	490879.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
44	ALL	UCART1	491073.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
45	ALL	UCART1	491267.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
46	ALL	UCART1	491461.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
47	ALL	UCART1	491655.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
48	ALL	UCART1	491849.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
49	ALL	UCART1	492043.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
50	ALL	UCART1	492237.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
51	ALL	UCART1	492432	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05

52		UCART1	492626.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
53	ALL	UCART1	492820.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
54	ALL	UCART1	493014.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
55	ALL	UCART1	493208.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
56	ALL	UCART1	493402.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
57	ALL	UCART1	493596.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
58	ALL	UCART1	493790.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
59	ALL	UCART1	493984.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
60	ALL	UCART1	494178.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
61	ALL	UCART1	494373	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
62	ALL	UCART1	494567.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
63	ALL	UCART1	494761.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
64	ALL	UCART1	490879.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
65	ALL	UCART1	491073.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
66	ALL	UCART1	491267.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05
67	ALL	UCART1	491461.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
68	ALL	UCART1	491655.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
69	ALL	UCART1	491849.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
70	ALL	UCART1	492043.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05
71	ALL	UCART1	492237.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
72	ALL	UCART1	492432	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05
73	ALL	UCART1	492626.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
74	ALL	UCART1	492820.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
75	ALL	UCART1	493014.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
76	ALL	UCART1	493208.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
77	ALL	UCART1	493402.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
78	ALL	UCART1	493596.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
79	ALL	UCART1	493790.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
80	ALL	UCART1	493984.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
81	ALL	UCART1	494178.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
82	ALL	UCART1	494373	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
83	ALL	UCART1	494567.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
84	ALL	UCART1	494761.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
85	ALL	UCART1	490879.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
86	ALL	UCART1	491073.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05
87	ALL	UCART1	491267.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
88	ALL	UCART1	491461.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05
89	ALL	UCART1	491655.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05
90	ALL	UCART1	491849.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05
91	ALL	UCART1	492043.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
92	ALL	UCART1	492237.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
93	ALL	UCART1	492432	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05
94	ALL	UCART1	492626.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
95	ALL	UCART1	492820.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
96	ALL	UCART1	493014.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05
97	ALL	UCART1	493208.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05
98	ALL	UCART1	493402.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05
99	ALL	UCART1	493596.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05
100	ALL	UCART1	493790.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
101	ALL	UCART1	493984.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
102	ALL	UCART1	494178.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
103	ALL	UCART1	494373	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0						

156		UCART1	492432	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
157	ALL	UCART1	492626.1	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
158	ALL	UCART1	492820.2	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05
159	ALL	UCART1	493014.3	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05
160	ALL	UCART1	493208.4	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
161	ALL	UCART1	493402.5	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05
162	ALL	UCART1	493596.6	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
163	ALL	UCART1	493790.7	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05
164	ALL	UCART1	493984.8	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
165	ALL	UCART1	494178.9	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
166	ALL	UCART1	494373	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05
167	ALL	UCART1	494567.1	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
168	ALL	UCART1	494761.2	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
169	ALL	UCART1	490879.2	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
170	ALL	UCART1	491073.3	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05
171	ALL	UCART1	491267.4	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05
172	ALL	UCART1	491461.5	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
173	ALL	UCART1	491655.6	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
174	ALL	UCART1	491849.7	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
175	ALL	UCART1	492043.8	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
176	ALL	UCART1	492237.9	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
177	ALL	UCART1	492432	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
178	ALL	UCART1	492626.1	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
179	ALL	UCART1	492820.2	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05
180	ALL	UCART1	493014.3	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
181	ALL	UCART1	493208.4	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05
182	ALL	UCART1	493402.5	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05
183	ALL	UCART1	493596.6	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
184	ALL	UCART1	493790.7	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-05
185	ALL	UCART1	493984.8	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-05
186	ALL	UCART1	494178.9	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
187	ALL	UCART1	494373	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
188	ALL	UCART1	494567.1	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
189	ALL	UCART1	494761.2	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
190	ALL	UCART1	490879.2	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
191	ALL	UCART1	491073.3	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05
192	ALL	UCART1	491267.4	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05
193	ALL	UCART1	491461.5	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-05
194	ALL	UCART1	491655.6	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
195	ALL	UCART1	491849.7	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
196	ALL	UCART1	492043.8	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
197	ALL	UCART1	492237.9	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
198	ALL	UCART1	492432	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
199	ALL	UCART1	492626.1	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
200	ALL	UCART1	492820.2	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
201	ALL	UCART1	493014.3	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04
202	ALL	UCART1	493208.4	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

[illegible]

[illegible]

HARP2 - HRACalc (dated 22118) 12/3/2024 3:13:46 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 1.42

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 1.42
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 4 HARP\hra\Phase 4

OnsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 4 HARP\hra\Phase 4

OnsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 4 HARP\hra\Phase 4

OnsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 4 HARP\hra\Phase 4

OnsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 4 HARP\hra\Phase 4

OnsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 4 HARP\hra\Phase 4

OnsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

[illegible]

[illegible]

94	ALL	UCART1	492626.1	3625374	1.61E-09	1.42YrCanc	1.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	UCART1	492820.2	3625374	9.99E-10	1.42YrCanc	9.99E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	UCART1	493014.3	3625374	1.44E-09	1.42YrCanc	1.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	UCART1	493208.4	3625374	1.55E-09	1.42YrCanc	1.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	UCART1	493402.5	3625374	1.52E-09	1.42YrCanc	1.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	UCART1	493596.6	3625374	1.54E-09	1.42YrCanc	1.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	UCART1	493790.7	3625374	1.16E-09	1.42YrCanc	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	UCART1	493984.8	3625374	7.65E-10	1.42YrCanc	7.65E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	UCART1	494178.9	3625374	7.33E-10	1.42YrCanc	7.33E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	UCART1	494373	3625374	6.92E-10	1.42YrCanc	6.92E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	UCART1	494567.1	3625374	7.08E-10	1.42YrCanc	7.08E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	UCART1	494761.2	3625374	7.02E-10	1.42YrCanc	7.02E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	UCART1	490879.2	3625570	1.30E-09	1.42YrCanc	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	UCART1	491073.3	3625570	1.49E-09	1.42YrCanc	1.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	UCART1	491267.4	3625570	1.88E-09	1.42YrCanc	1.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	UCART1	491461.5	3625570	1.96E-09	1.42YrCanc	1.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	UCART1	491655.6	3625570	1.68E-09	1.42YrCanc	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	UCART1	491849.7	3625570	1.73E-09	1.42YrCanc	1.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

141	ALL	UCART1	493596.6	3625766	1.23E-09	1.42YrCanc	1.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	UCART1	493790.7	3625766	1.00E-09	1.42YrCanc	1.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	UCART1	493984.8	3625766	9.74E-10	1.42YrCanc	9.74E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	UCART1	494178.9	3625766	1.07E-09	1.42YrCanc	1.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	UCART1	494373	3625766	1.07E-09	1.42YrCanc	1.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	UCART1	494567.1	3625766	8.72E-10	1.42YrCanc	8.72E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	UCART1	494761.2	3625766	8.58E-10	1.42YrCanc	8.58E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	UCART1	490879.2	3625961	1.27E-09	1.42YrCanc	1.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	UCART1	491073.3	3625961	1.55E-09	1.42YrCanc	1.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	UCART1	491267.4	3625961	1.92E-09	1.42YrCanc	1.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	UCART1	491461.5	3625961	2.39E-09	1.42YrCanc	2.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	UCART1	491655.6	3625961	3.60E-09	1.42YrCanc	3.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	UCART1	491849.7	3625961	3.74E-09	1.42YrCanc	3.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	UCART1	492043.8	3625961	2.95E-09	1.42YrCanc	2.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	UCART1	492237.9	3625961	2.89E-09	1.42YrCanc	2.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	UCART1	492432	3625961	3.42E-09	1.42YrCanc	3.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	UCART1	492626.1	3625961	3.12E-09	1.42YrCanc	3.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	UCART1	492820.2	3625961	1.59E-09	1.42YrCanc	1.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

188	ALL	UCART1	494567.1	3626157	6.69E-10	1.42YrCanc	6.69E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	UCART1	494761.2	3626157	8.84E-10	1.42YrCanc	8.84E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	UCART1	490879.2	3626353	1.04E-09	1.42YrCanc	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	UCART1	491073.3	3626353	1.45E-09	1.42YrCanc	1.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	UCART1	491267.4	3626353	1.84E-09	1.42YrCanc	1.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	UCART1	491461.5	3626353	2.18E-09	1.42YrCanc	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	UCART1	491655.6	3626353	3.84E-09	1.42YrCanc	3.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	UCART1	491849.7	3626353	4.32E-09	1.42YrCanc	4.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	UCART1	492043.8	3626353	8.62E-09	1.42YrCanc	8.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	UCART1	492237.9	3626353	6.42E-09	1.42YrCanc	6.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	UCART1	492432	3626353	5.11E-09	1.42YrCanc	5.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	UCART1	492626.1	3626353	4.96E-09	1.42YrCanc	4.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	UCART1	492820.2	3626353	4.96E-09	1.42YrCanc	4.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	UCART1	493014.3	3626353	1.02E-08	1.42YrCanc	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	UCART1	493208.4	3626353	4.93E-09	1.42YrCanc	4.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	UCART1	493402.5	3626353	3.19E-09	1.42YrCanc	3.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	UCART1	493596.6	3626353	2.51E-09	1.42YrCanc	2.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	UCART1	493790.7	3626353	1.84E-09	1.42YrCanc	1.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+							

[illegible]

282	ALL	UCART1	492432	3627137	5.05E-09	1.42YrCanc	5.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	UCART1	492626.1	3627137	5.65E-09	1.42YrCanc	5.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	UCART1	492820.2	3627137	4.95E-09	1.42YrCanc	4.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	UCART1	493014.3	3627137	3.72E-09	1.42YrCanc	3.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	UCART1	493208.4	3627137	2.67E-09	1.42YrCanc	2.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	UCART1	493402.5	3627137	1.97E-09	1.42YrCanc	1.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	UCART1	493596.6	3627137	1.39E-09	1.42YrCanc	1.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	UCART1	493790.7	3627137	3.69E-10	1.42YrCanc	3.69E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	UCART1	493984.8	3627137	3.19E-10	1.42YrCanc	3.19E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	UCART1	494178.9	3627137	4.58E-10	1.42YrCanc	4.58E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	UCART1	494373	3627137	2.85E-10	1.42YrCanc	2.85E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	UCART1	494567.1	3627137	2.27E-10	1.42YrCanc	2.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	UCART1	494761.2	3627137	1.23E-10	1.42YrCanc	1.23E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	UCART1	490879.2	3627332	6.54E-10	1.42YrCanc	6.54E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	UCART1	491073.3	3627332	7.59E-10	1.42YrCanc	7.59E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	UCART1	491267.4	3627332	8.95E-10	1.42YrCanc	8.95E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	UCART1	491461.5	3627332	1.07E-09	1.42YrCanc	1.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	UCART1	491655.6	3627332	1.29E-09	1.42YrCanc	1.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

329	ALL	UCART1	493402.5	3627528	8.26E-10	1.42YrCanc	8.26E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	UCART1	493596.6	3627528	1.14E-09	1.42YrCanc	1.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	UCART1	493790.7	3627528	3.15E-10	1.42YrCanc	3.15E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	UCART1	493984.8	3627528	1.60E-10	1.42YrCanc	1.60E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	UCART1	494178.9	3627528	9.78E-11	1.42YrCanc	9.78E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	UCART1	494373	3627528	8.72E-11	1.42YrCanc	8.72E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	UCART1	494567.1	3627528	8.66E-11	1.42YrCanc	8.66E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	UCART1	494761.2	3627528	4.59E-11	1.42YrCanc	4.59E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	UCART1	490879.2	3627724	5.43E-10	1.42YrCanc	5.43E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	UCART1	491073.3	3627724	6.13E-10	1.42YrCanc	6.13E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	UCART1	491267.4	3627724	7.08E-10	1.42YrCanc	7.08E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	UCART1	491461.5	3627724	8.33E-10	1.42YrCanc	8.33E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	UCART1	491655.6	3627724	9.81E-10	1.42YrCanc	9.81E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	UCART1	491849.7	3627724	1.13E-09	1.42YrCanc	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	UCART1	492043.8	3627724	1.27E-09	1.42YrCanc	1.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	UCART1	492237.9	3627724	1.46E-09	1.42YrCanc	1.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	UCART1	492432	3627724	1.46E-09	1.42YrCanc	1.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	UCART1	492626.1	3627724	1.47E-09	1.42YrCanc	1.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

376	ALL	UCART1	494373	3627920	3.90E-11	1.42YrCanc	3.90E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	UCART1	494567.1	3627920	3.68E-11	1.42YrCanc	3.68E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	UCART1	494761.2	3627920	3.38E-11	1.42YrCanc	3.38E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	UCART1	490879.2	3628116	4.62E-10	1.42YrCanc	4.62E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	UCART1	491073.3	3628116	5.20E-10	1.42YrCanc	5.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	UCART1	491267.4	3628116	5.83E-10	1.42YrCanc	5.83E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	UCART1	491461.5	3628116	6.46E-10	1.42YrCanc	6.46E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	UCART1	491655.6	3628116	7.12E-10	1.42YrCanc	7.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	UCART1	491849.7	3628116	7.97E-10	1.42YrCanc	7.97E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	UCART1	492043.8	3628116	8.54E-10	1.42YrCanc	8.54E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	UCART1	492237.9	3628116	8.93E-10	1.42YrCanc	8.93E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	UCART1	492432	3628116	9.26E-10	1.42YrCanc	9.26E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	UCART1	492626.1	3628116	9.39E-10	1.42YrCanc	9.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	UCART1	492820.2	3628116	8.60E-10	1.42YrCanc	8.60E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	UCART1	493014.3	3628116	8.31E-10	1.42YrCanc	8.31E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	UCART1	493208.4	3628116	9.26E-10	1.42YrCanc	9.26E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	UCART1	493402.5	3628116	8.76E-10	1.42YrCanc	8.76E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	UCART1	493596.6	3628116	7.13E-10	1.42YrCanc	7.13E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

423	ALL	UCART1	491267.4	3628508	4.60E-10	1.42YrCanc	4.60E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	UCART1	491461.5	3628508	4.97E-10	1.42YrCanc	4.97E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	UCART1	491655.6	3628508	5.34E-10	1.42YrCanc	5.34E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	UCART1	491849.7	3628508	5.71E-10	1.42YrCanc	5.71E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	UCART1	492043.8	3628508	6.14E-10	1.42YrCanc	6.14E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	UCART1	492237.9	3628508	6.42E-10	1.42YrCanc	6.42E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	UCART1	492432	3628508	6.86E-10	1.42YrCanc	6.86E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	UCART1	492626.1	3628508	6.95E-10	1.42YrCanc	6.95E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	UCART1	492820.2	3628508	6.83E-10	1.42YrCanc	6.83E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	UCART1	493014.3	3628508	5.81E-10	1.42YrCanc	5.81E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	UCART1	493208.4	3628508	6.28E-10	1.42YrCanc	6.28E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	UCART1	493402.5	3628508	6.13E-10	1.42YrCanc	6.13E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	UCART1	493596.6	3628508	6.08E-10	1.42YrCanc	6.08E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	UCART1	493790.7	3628508	3.73E-10	1.42YrCanc	3.73E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	UCART1	493984.8	3628508	1.27E-10	1.42YrCanc	1.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	UCART1	494178.9	3628508	3.78E-11	1.42YrCanc	3.78E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	UCART1	494373	3628508	2.80E-11	1.42YrCanc	2.80E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	UCART1	494567.1	3628508	2.73E-11	1.42YrCanc	2.73E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	UCART1	494761.2	3628508	2.75E-11	1.42YrCanc	2.75E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL		492883.3	3625831	1.73E-09	1.42YrCanc	1.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL		492919.8	3625835	1.82E-09	1.42YrCanc	1.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL		492955.1	3625846	1.63E-09	1.42YrCanc	1.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL		493069.9	3625833	3.54E-09	1.42YrCanc	3.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL		493094.9	3625833	2.72E-09	1.42YrCanc	2.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL		493110.9	3625837	2.15E-09	1.42YrCanc	2.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL		493152	3625834	1.84E-09	1.42YrCanc	1.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL		493166.7	3625838	1.74E-09	1.42YrCanc	1.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL		493187.9	3625837	1.68E-09	1.42YrCanc	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL		493201.3	3625837	1.64E-09	1.42YrCanc	1.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL		493240.4	3625837	1.60E-09	1.42YrCanc	1.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL		492881.3	3625908	1.45E-09	1.42YrCanc	1.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL		492907	3625898	1.43E-09	1.42YrCanc	1.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL		492901.8	3625912	1.47E-09	1.42YrCanc	1.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL		492928.1	3625915	1.51E-09	1.42YrCanc	1.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL		492933.9	3625898	1.47E-09	1.42YrCanc	1.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL		492951.9	3625908	1.53E-09	1.42YrCanc	1.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL		492973.7	3625907	1.60E-09	1.42YrCanc	1.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL		492993.6	3625914	1.67E-09	1.42YrCanc	1.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL		492996.1	3625898	1.66E-09	1.42YrCanc	1.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL		493016	3625897	1.70E-09	1.42YrCanc	1.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL		493023.1	3625912	1.70E-09	1.42YrCanc	1.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL		493044.2	3625907	1.74E-09	1.42YrCanc	1.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL		493066.7	3625908	1.83E-09	1.42YrCanc	1.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL		493085.3	3625912	1.75E-09	1.42YrCanc	1.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL		493087.2	3625896	1.85E-09	1.42YrCanc	1.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL		493109	3625912	1.74E-09	1.42YrCanc	1.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL		493112.2	3625898	1.77E-09	1.42YrCanc	1.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

470	ALL	493134	3625902	1.78E-09	1.42YrCanc	1.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	492874.3	3625788	1.94E-09	1.42YrCanc	1.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	492894.2	3625789	2.07E-09	1.42YrCanc	2.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	492910.2	3625790	2.16E-09	1.42YrCanc	2.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	492930.7	3625787	2.22E-09	1.42YrCanc	2.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	492947.4	3625791	2.30E-09	1.42YrCanc	2.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	492963.4	3625788	2.20E-09	1.42YrCanc	2.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	492982.7	3625788	2.22E-09	1.42YrCanc	2.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	493000	3625788	2.39E-09	1.42YrCanc	2.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	493021.1	3625791	2.87E-09	1.42YrCanc	2.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	493036.5	3625789	2.91E-09	1.42YrCanc	2.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	493055.8	3625790	3.04E-09	1.42YrCanc	3.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	493076.3	3625788	3.07E-09	1.42YrCanc	3.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	493094.9	3625788	2.87E-09	1.42YrCanc	2.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	493112.8	3625788	2.44E-09	1.42YrCanc	2.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	493129.5	3625787	2.27E-09	1.42YrCanc	2.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	493148.7	3625787	2.09E-09	1.42YrCanc	2.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	493164.8	3625790	1.97E-09	1.42YrCanc	1.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	493184.7	3625789	1.86E													

[illegible]

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEI RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL	UCART1	490879.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
2	ALL	UCART1	491073.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
3	ALL	UCART1	491267.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
4	ALL	UCART1	491461.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
5	ALL	UCART1	491655.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
6	ALL	UCART1	491849.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
7	ALL	UCART1	492043.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
8	ALL	UCART1	492237.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
9	ALL	UCART1	492432	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
10	ALL	UCART1	492626.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
11	ALL	UCART1	492820.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
12	ALL	UCART1	493014.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
13	ALL	UCART1	493208.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
14	ALL	UCART1	493402.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
15	ALL	UCART1	493596.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
16	ALL	UCART1	493790.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
17	ALL	UCART1	493984.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
18	ALL	UCART1	494178.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
19	ALL	UCART1	494373	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
20	ALL	UCART1	494567.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
21	ALL	UCART1	494761.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
22	ALL	UCART1	490879.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
23	ALL	UCART1	491073.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
24	ALL	UCART1	491267.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
25	ALL	UCART1	491461.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
26	ALL	UCART1	491655.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
27	ALL	UCART1	491849.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05
28	ALL	UCART1	492043.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
29	ALL	UCART1	492237.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
30	ALL	UCART1	492432	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
31	ALL	UCART1	492626.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
32	ALL	UCART1	492820.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
33	ALL	UCART1	493014.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
34	ALL	UCART1	493208.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
35	ALL	UCART1	493402.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
36	ALL	UCART1	493596.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
37	ALL	UCART1	493790.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
38	ALL	UCART1	493984.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
39	ALL	UCART1	494178.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
40	ALL	UCART1	494373	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
41	ALL	UCART1	494567.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
42	ALL	UCART1	494761.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
43	ALL	UCART1	490879.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
44	ALL	UCART1	491073.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
45	ALL	UCART1	491267.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
46	ALL	UCART1	491461.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
47	ALL	UCART1	491655.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
48	ALL	UCART1	491849.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
49	ALL	UCART1	492043.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
50	ALL	UCART1	492237.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
51	ALL	UCART1	492432	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05

52		UCART1	492626.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
53	ALL	UCART1	492820.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
54	ALL	UCART1	493014.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
55	ALL	UCART1	493208.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
56	ALL	UCART1	493402.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
57	ALL	UCART1	493596.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
58	ALL	UCART1	493790.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
59	ALL	UCART1	493984.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
60	ALL	UCART1	494178.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
61	ALL	UCART1	494373	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
62	ALL	UCART1	494567.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
63	ALL	UCART1	494761.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
64	ALL	UCART1	490879.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
65	ALL	UCART1	491073.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
66	ALL	UCART1	491267.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05
67	ALL	UCART1	491461.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
68	ALL	UCART1	491655.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
69	ALL	UCART1	491849.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
70	ALL	UCART1	492043.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05
71	ALL	UCART1	492237.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
72	ALL	UCART1	492432	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05
73	ALL	UCART1	492626.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
74	ALL	UCART1	492820.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
75	ALL	UCART1	493014.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
76	ALL	UCART1	493208.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
77	ALL	UCART1	493402.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
78	ALL	UCART1	493596.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
79	ALL	UCART1	493790.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
80	ALL	UCART1	493984.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
81	ALL	UCART1	494178.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
82	ALL	UCART1	494373	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
83	ALL	UCART1	494567.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
84	ALL	UCART1	494761.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
85	ALL	UCART1	490879.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
86	ALL	UCART1	491073.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05
87	ALL	UCART1	491267.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
88	ALL	UCART1	491461.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05
89	ALL	UCART1	491655.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05
90	ALL	UCART1	491849.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05
91	ALL	UCART1	492043.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
92	ALL	UCART1	492237.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
93	ALL	UCART1	492432	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05
94	ALL	UCART1	492626.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
95	ALL	UCART1	492820.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
96	ALL	UCART1	493014.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05
97	ALL	UCART1	493208.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05
98	ALL	UCART1	493402.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05
99	ALL	UCART1	493596.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05
100	ALL	UCART1	493790.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-0

156		UCART1	492432	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
157	ALL	UCART1	492626.1	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
158	ALL	UCART1	492820.2	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05
159	ALL	UCART1	493014.3	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05
160	ALL	UCART1	493208.4	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
161	ALL	UCART1	493402.5	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05
162	ALL	UCART1	493596.6	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
163	ALL	UCART1	493790.7	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05
164	ALL	UCART1	493984.8	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
165	ALL	UCART1	494178.9	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
166	ALL	UCART1	494373	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05
167	ALL	UCART1	494567.1	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
168	ALL	UCART1	494761.2	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
169	ALL	UCART1	490879.2	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
170	ALL	UCART1	491073.3	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05
171	ALL	UCART1	491267.4	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05
172	ALL	UCART1	491461.5	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
173	ALL	UCART1	491655.6	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
174	ALL	UCART1	491849.7	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
175	ALL	UCART1	492043.8	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
176	ALL	UCART1	492237.9	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
177	ALL	UCART1	492432	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
178	ALL	UCART1	492626.1	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
179	ALL	UCART1	492820.2	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05
180	ALL	UCART1	493014.3	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
181	ALL	UCART1	493208.4	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05
182	ALL	UCART1	493402.5	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05
183	ALL	UCART1	493596.6	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
184	ALL	UCART1	493790.7	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-05
185	ALL	UCART1	493984.8	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-05
186	ALL	UCART1	494178.9	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
187	ALL	UCART1	494373	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
188	ALL	UCART1	494567.1	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
189	ALL	UCART1	494761.2	3626157	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
190	ALL	UCART1	490879.2	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
191	ALL	UCART1	491073.3	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05
192	ALL	UCART1	491267.4	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05
193	ALL	UCART1	491461.5	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-05
194	ALL	UCART1	491655.6	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
195	ALL	UCART1	491849.7	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
196	ALL	UCART1	492043.8	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
197	ALL	UCART1	492237.9	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
198	ALL	UCART1	492432	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
199	ALL	UCART1	492626.1	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
200	ALL	UCART1	492820.2	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
201	ALL	UCART1	493014.3	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04
202	ALL	UCART1	493208.4	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

[illegible]

[illegible]

SDSU Evolve Phase 5 HRA 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
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
- 3. Construction Emissions Details
 - 3.1. Site Preparation (2031) - Unmitigated
 - 3.3. Grading (2031) - Unmitigated
 - 3.5. Building Construction (2031) - Unmitigated
 - 3.7. Building Construction (2032) - Unmitigated
 - 3.9. Paving (2032) - Unmitigated

3.11. Architectural Coating (2032) - Unmitigated

3.13. Trenching (2031) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

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

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	SDSU Evolve Phase 5 HRA
Construction Start Date	1/22/2031
Operational Year	2032
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	1.80
Location	32.77754140411972, -117.07772216206095
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6514
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	760	Dwelling Unit	12.3	729,600	21,626	—	2,120	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	68.3	68.3	4.65	8.84	0.01	0.02	0.02	0.04	0.02	< 0.005	0.03	—	1,371	1,371	0.07	0.03	0.09	1,382
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.36	0.34	4.69	19.1	0.03	0.06	2.77	2.83	0.06	1.34	1.40	—	3,228	3,228	0.14	0.04	< 0.005	3,243
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.6	12.6	2.41	5.96	0.01	0.02	0.31	0.32	0.02	0.15	0.16	—	972	972	0.05	0.02	0.02	979
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.29	2.29	0.44	1.09	< 0.005	< 0.005	0.06	0.06	< 0.005	0.03	0.03	—	161	161	0.01	< 0.005	< 0.005	162

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.22	0.20	4.65	8.84	0.01	0.02	0.02	0.04	0.02	< 0.005	0.03	—	1,371	1,371	0.07	0.03	0.09	1,382

2032	68.3	68.3	3.30	6.86	0.01	0.02	0.02	0.03	0.02	< 0.005	0.02	—	1,115	1,115	0.06	0.03	0.08	1,125
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.36	0.34	4.69	19.1	0.03	0.06	2.77	2.83	0.06	1.34	1.40	—	3,228	3,228	0.14	0.04	< 0.005	3,243
2032	0.17	0.15	3.31	6.86	0.01	0.02	0.02	0.03	0.02	< 0.005	0.02	—	1,110	1,110	0.06	0.03	< 0.005	1,120
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.14	0.12	2.41	5.96	0.01	0.02	0.31	0.32	0.02	0.15	0.16	—	972	972	0.05	0.02	0.02	979
2032	12.6	12.6	0.94	2.08	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	354	354	0.02	0.01	0.01	357
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.02	0.02	0.44	1.09	< 0.005	< 0.005	0.06	0.06	< 0.005	0.03	0.03	—	161	161	0.01	< 0.005	< 0.005	162
2032	2.29	2.29	0.17	0.38	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	58.6	58.6	< 0.005	< 0.005	< 0.005	59.1

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.4	22.0	2.64	53.8	0.04	0.15	2.26	2.40	0.14	0.57	0.71	368	5,732	6,100	37.5	0.28	9.27	7,130
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.4	18.3	2.31	10.0	0.03	0.13	2.26	2.38	0.13	0.57	0.70	368	5,512	5,880	37.5	0.29	5.33	6,908
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.3	20.0	2.41	30.6	0.03	0.13	2.25	2.39	0.13	0.57	0.70	368	5,426	5,793	37.5	0.29	6.97	6,822
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.71	3.66	0.44	5.58	0.01	0.02	0.41	0.44	0.02	0.10	0.13	60.9	898	959	6.20	0.05	1.15	1,129

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.38	1.27	0.75	8.81	0.02	0.01	2.26	2.27	0.01	0.57	0.59	—	2,363	2,363	0.10	0.09	4.04	2,396
Area	20.8	20.6	0.40	43.3	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	115	115	< 0.005	< 0.005	—	116
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	22.4	22.0	2.64	53.8	0.04	0.15	2.26	2.40	0.14	0.57	0.71	368	5,732	6,100	37.5	0.28	9.27	7,130
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.36	1.26	0.83	8.34	0.02	0.01	2.26	2.27	0.01	0.57	0.59	—	2,258	2,258	0.11	0.09	0.10	2,289
Area	16.9	16.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	18.4	18.3	2.31	10.0	0.03	0.13	2.26	2.38	0.13	0.57	0.70	368	5,512	5,880	37.5	0.29	5.33	6,908
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.35	1.24	0.81	8.33	0.02	0.01	2.25	2.27	0.01	0.57	0.58	—	2,274	2,274	0.11	0.09	1.75	2,306

Area	18.8	18.7	0.20	21.4	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	56.9	56.9	< 0.005	< 0.005	—	57.1
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.02	0.02	0.04	0.32	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	63.4	63.4	< 0.005	< 0.005	0.00	63.6
Total	20.3	20.0	2.41	30.6	0.03	0.13	2.25	2.39	0.13	0.57	0.70	368	5,426	5,793	37.5	0.29	6.97	6,822
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.25	0.23	0.15	1.52	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	377	377	0.02	0.02	0.29	382
Area	3.43	3.41	0.04	3.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45
Energy	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	484	484	0.06	0.01	—	487
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5
Waste	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Stationary	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	3.71	3.66	0.44	5.58	0.01	0.02	0.41	0.44	0.02	0.10	0.13	60.9	898	959	6.20	0.05	1.15	1,129

3. Construction Emissions Details

3.1. Site Preparation (2031) - Unmitigated

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

[illegible]

SDSU Evolve Phase 5 HRA Detailed Report, 12/3/2024

[illegible]

SDSU Evolve Phase 5 HRA Detailed Report, 12/3/2024

[illegible]

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.78	6.78	< 0.005	< 0.005	< 0.005	7.12
Hauling	0.03	0.02	0.46	0.34	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	70.8	70.8	0.01	0.01	< 0.005	74.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.55	0.55	< 0.005	< 0.005	< 0.005	0.58
Hauling	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.78	5.78	< 0.005	< 0.005	< 0.005	6.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.10
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.96	0.96	< 0.005	< 0.005	< 0.005	1.01

3.5. Building Construction (2031) - Unmitigated

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

[illegible]

SDSU Evolve Phase 5 HRA Detailed Report, 12/3/2024

[illegible]

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.03	0.02	0.46	0.34	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	77.8	77.8	0.01	0.01	0.02	81.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.9	12.9	< 0.005	< 0.005	< 0.005	13.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2032) - Unmitigated

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

[illegible]

Off-Road	0.03	0.03	0.64	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	229	229	0.01	< 0.005	—	230
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.12	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.9	37.9	< 0.005	< 0.005	—	38.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.06	0.04	0.79	0.58	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	135	135	0.02	0.02	0.07	141
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.05	0.03	0.83	0.61	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	136	136	0.02	0.02	< 0.005	143
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.21	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	34.9	34.9	< 0.005	0.01	0.01	36.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.78	5.78	< 0.005	< 0.005	< 0.005	6.06

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

[illegible]

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.56	6.56	< 0.005	< 0.005	< 0.005	6.88
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.08
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2032) - Unmitigated

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

[illegible]

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.56	6.56	< 0.005	< 0.005	< 0.005	6.88
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.21	1.21	< 0.005	< 0.005	< 0.005	1.27
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Trenching (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.16	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.2	34.2	< 0.005	< 0.005	—	34.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.66	5.66	< 0.005	< 0.005	—	5.68
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.70	6.70	< 0.005	< 0.005	< 0.005	7.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.78	6.78	< 0.005	< 0.005	< 0.005	7.12
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.14
Hauling	0.00	0.00	0.00	0.00	0.00	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)

[illegible]

Apartments	1.36	1.26	0.83	8.34	0.02	0.01	2.26	2.27	0.01	0.57	0.59	—	2,258	2,258	0.11	0.09	0.10	2,289
Total	1.36	1.26	0.83	8.34	0.02	0.01	2.26	2.27	0.01	0.57	0.59	—	2,258	2,258	0.11	0.09	0.10	2,289
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.25	0.23	0.15	1.52	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	377	377	0.02	0.02	0.29	382
Total	0.25	0.23	0.15	1.52	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	377	377	0.02	0.02	0.29	382

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)

[illegible]

Apartments	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.04	< 0.005	—	201
Total	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.04	< 0.005	—	201

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Total	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Total	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286
Total	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

[illegible]

Consumer Product	2.85	2.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.35	0.34	0.04	3.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.45
Total	3.43	3.41	0.04	3.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Total	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerge ncy Generat or	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerge ncy Generat or	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223

Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

[illegible]

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)

[illegible]

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)

[illegible]

[illegible]

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	1/22/2031	2/4/2031	5.00	10.0	—
Grading	Grading	2/5/2031	3/18/2031	5.00	30.0	—
Building Construction	Building Construction	3/19/2031	5/11/2032	5.00	300	—
Paving	Paving	5/12/2032	6/14/2032	5.00	24.0	—
Architectural Coating	Architectural Coating	4/14/2032	7/15/2032	5.00	67.0	—
Trenching	Trenching	3/19/2031	5/19/2031	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	4.00	8.00	36.0	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	7.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37

Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	0.25	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	0.25	HHDT,MHDT
Grading	Hauling	30.0	0.25	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	82.0	0.25	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—

Paving	Worker	0.00	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	0.25	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	0.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	0.25	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	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	1,477,440	492,480	0.00	0.00	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)

Site Preparation	—	—	5.00	0.00	—
Grading	1,500	5,491	120	0.00	—
Paving	0.00	0.00	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2031	27,456	589	0.03	< 0.005
2032	27,456	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
Apartments High Rise	420	420	420	153,455	3,195	3,195	3,195	1,166,260

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	760
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1477440	492,480	0.00	0.00	—

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments High Rise	2,577,061	170	0.0330	0.0040	5,379,612

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	33,953,291	740,799

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	562	—

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
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	52.0	530	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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	9.08	annual days of extreme heat
Extreme Precipitation	2.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	4.89	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

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

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	46.0
AQ-DPM	78.3
Drinking Water	29.0
Lead Risk Housing	22.5
Pesticides	0.00
Toxic Releases	36.0
Traffic	83.2
Effect Indicators	—
CleanUp Sites	53.4
Groundwater	68.4
Haz Waste Facilities/Generators	37.7
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	38.4
Cardio-vascular	12.7
Low Birth Weights	9.08
Socioeconomic Factor Indicators	—
Education	—
Housing	96.5
Linguistic	—
Poverty	91.8
Unemployment	92.2

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	20.95470294
Employed	9.534197357
Median HI	17.43872706
Education	—
Bachelor's or higher	81.12408572
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	11.04837675
Active commuting	89.42640832
Social	—
2-parent households	99.56371102
Voting	22.66136276
Neighborhood	—
Alcohol availability	85.46131143
Park access	20.23610933
Retail density	97.62607468
Supermarket access	2.399589375
Tree canopy	71.71820865
Housing	—
Homeownership	27.87116643
Housing habitability	26.51097138
Low-inc homeowner severe housing cost burden	97.99820352
Low-inc renter severe housing cost burden	0.346464776

Uncrowded housing	50.16040036
Health Outcomes	—
Insured adults	68.95932247
Arthritis	97.1
Asthma ER Admissions	70.5
High Blood Pressure	98.1
Cancer (excluding skin)	89.7
Asthma	21.6
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	97.2
Life Expectancy at Birth	60.4
Cognitively Disabled	72.6
Physically Disabled	83.0
Heart Attack ER Admissions	96.5
Mental Health Not Good	34.8
Chronic Kidney Disease	95.6
Obesity	88.9
Pedestrian Injuries	19.6
Physical Health Not Good	81.0
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.6
Current Smoker	47.6
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	47.1
SLR Inundation Area	0.0

Children	96.5
Elderly	59.3
English Speaking	55.7
Foreign-born	45.8
Outdoor Workers	77.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	96.7
Traffic Access	61.3
Other Indices	—
Hardship	53.0
Other Decision Support	—
2016 Voting	37.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	47.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Characteristics: Utility Information	Phase 1 is within the on-campus grid getting electricity from the cogen.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	Based on LLG traffic study.
Operations: Hearths	No stoves or fireplaces.
Operations: Generators + Pumps EF	Tier 4 Final
Operations: Water and Waste Water	Based on applicant provided information.
Construction: Dust From Material Movement	Based on applicant provided information.
Operations: Emergency Generators and Fire Pumps	Based on applicant provided information
Construction: Electricity	Estimated electricity use.

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 10/10/2024
** File: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU Evolve
Phase 5\SDSU Evolve Phase 1.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL "SDSU Evolve Phase 1.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC
** PREFIX
** Length of Side = 8.60
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 16
** 492682.679, 3626628.996, 123.21, 3.40, 4.00
** 492682.679, 3626608.834, 123.14, 3.40, 4.00
** 492696.960, 3626581.952, 122.01, 3.40, 4.00

```

** 492747.364, 3626615.555, 124.13, 3.40, 4.00
 ** 492723.002, 3626654.197, 123.65, 3.40, 4.00
 ** 492692.760, 3626633.196, 123.07, 3.40, 4.00
 ** 492691.920, 3626613.874, 122.82, 3.40, 4.00
 ** 492698.640, 3626596.233, 122.46, 3.40, 4.00
 ** 492736.443, 3626617.235, 124.13, 3.40, 4.00
 ** 492721.322, 3626641.596, 123.82, 3.40, 4.00
 ** 492702.841, 3626628.996, 123.86, 3.40, 4.00
 ** 492699.480, 3626615.555, 122.50, 3.40, 4.00
 ** 492702.841, 3626608.834, 124.25, 3.40, 4.00
 ** 492722.162, 3626619.755, 123.97, 3.40, 4.00
 ** 492717.962, 3626630.676, 123.85, 3.40, 4.00
 ** 492707.881, 3626617.235, 124.13, 3.40, 4.00

**

LOCATION L0000001	VOLUME	492682.679	3626624.696	123.65
LOCATION L0000002	VOLUME	492682.679	3626616.096	123.74
LOCATION L0000003	VOLUME	492683.307	3626607.652	123.70
LOCATION L0000004	VOLUME	492687.342	3626600.057	122.67
LOCATION L0000005	VOLUME	492691.377	3626592.462	122.19
LOCATION L0000006	VOLUME	492695.411	3626584.868	122.26
LOCATION L0000007	VOLUME	492701.369	3626584.891	123.64
LOCATION L0000008	VOLUME	492708.525	3626589.662	124.22
LOCATION L0000009	VOLUME	492715.680	3626594.432	124.35
LOCATION L0000010	VOLUME	492722.836	3626599.203	124.38
LOCATION L0000011	VOLUME	492729.992	3626603.973	124.32
LOCATION L0000012	VOLUME	492737.147	3626608.744	124.38
LOCATION L0000013	VOLUME	492744.303	3626613.514	124.42
LOCATION L0000014	VOLUME	492744.739	3626619.718	124.23
LOCATION L0000015	VOLUME	492740.153	3626626.993	123.99
LOCATION L0000016	VOLUME	492735.566	3626634.268	123.86
LOCATION L0000017	VOLUME	492730.980	3626641.543	123.77
LOCATION L0000018	VOLUME	492726.394	3626648.817	123.55
LOCATION L0000019	VOLUME	492721.162	3626652.919	123.42
LOCATION L0000020	VOLUME	492714.098	3626648.014	123.58
LOCATION L0000021	VOLUME	492707.034	3626643.109	123.72
LOCATION L0000022	VOLUME	492699.970	3626638.203	123.78
LOCATION L0000023	VOLUME	492692.907	3626633.298	123.73
LOCATION L0000024	VOLUME	492692.394	3626624.782	123.82
LOCATION L0000025	VOLUME	492692.020	3626616.191	123.92
LOCATION L0000026	VOLUME	492694.156	3626608.004	124.03
LOCATION L0000027	VOLUME	492697.218	3626599.968	123.61
LOCATION L0000028	VOLUME	492702.665	3626598.469	124.11
LOCATION L0000029	VOLUME	492710.182	3626602.646	124.24
LOCATION L0000030	VOLUME	492717.700	3626606.822	124.22
LOCATION L0000031	VOLUME	492725.218	3626610.999	124.15
LOCATION L0000032	VOLUME	492732.736	3626615.175	124.17
LOCATION L0000033	VOLUME	492734.144	3626620.938	124.10
LOCATION L0000034	VOLUME	492729.609	3626628.245	123.98
LOCATION L0000035	VOLUME	492725.073	3626635.552	123.91
LOCATION L0000036	VOLUME	492720.094	3626640.759	123.81

LOCATION	L0000037	VOLUME	492712.988	3626635.915	123.88
LOCATION	L0000038	VOLUME	492705.883	3626631.070	123.93
LOCATION	L0000039	VOLUME	492701.648	3626624.225	124.00
LOCATION	L0000040	VOLUME	492699.562	3626615.881	124.07
LOCATION	L0000041	VOLUME	492703.493	3626609.203	124.23
LOCATION	L0000042	VOLUME	492710.980	3626613.435	124.16
LOCATION	L0000043	VOLUME	492718.467	3626617.666	124.10
LOCATION	L0000044	VOLUME	492720.598	3626623.820	124.03
LOCATION	L0000045	VOLUME	492717.209	3626629.672	123.96
LOCATION	L0000046	VOLUME	492712.049	3626622.792	124.04
** End of LINE VOLUME Source ID = SLINE1					
LOCATION	STCK1	POINT	492847.720	3626536.360	124.220
** DESCRSRC Phase 1A Generator					
LOCATION	STCK2	POINT	492991.100	3625839.681	141.860
** DESCRSRC Phase 1B Generator					
LOCATION	STCK3	POINT	492813.583	3626627.676	123.610
** DESCRSRC Phase 2 Generator					
LOCATION	STCK4	POINT	492774.272	3626745.821	115.890
** DESCRSRC Phase 3 Generator					
LOCATION	STCK5	POINT	492694.167	3626698.759	121.120
** DESCRSRC Phase 4 Generator					
** Source Parameters **					
** LINE VOLUME Source ID = SLINE1					
SRCPARAM	L0000001	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000002	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000003	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000004	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000005	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000006	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000007	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000008	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000009	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000010	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000011	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000012	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000013	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000014	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000015	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000016	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000017	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000018	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000019	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000020	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000021	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000022	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000023	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000024	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000025	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000026	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000027	0.0217391304	3.40	4.00	3.16

SRCPARAM	L0000028	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000029	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000030	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000031	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000032	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000033	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000034	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000035	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000036	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000037	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000038	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000039	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000040	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000041	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000042	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000043	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000044	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000045	0.0217391304	3.40	4.00	3.16
SRCPARAM	L0000046	0.0217391304	3.40	4.00	3.16

SRCPARAM	STCK1	1.0	2.499	772.594	60.63624912892	0.13463016
SRCPARAM	STCK2	1.0	2.499	772.594	60.63624912892	0.13463016
SRCPARAM	STCK3	1.0	2.316	699.261	42.5980161814675	0.2033016
SRCPARAM	STCK4	1.0	2.316	699.261	42.5980161814675	0.2033016
SRCPARAM	STCK5	1.0	2.316	699.261	42.5980161814675	0.2033016

BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	34.14	34.14	34.14	34.14	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	34.14	28.65	34.14	34.14	28.65

BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK5	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK5	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK5	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK5	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK5	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK5	34.14	34.14	34.14	34.14	34.14	34.14
BUILDWID	STCK1	55.84	65.58	73.32	78.84	81.95	83.80
BUILDWID	STCK1	84.85	84.05	83.01	79.44	73.46	65.25
BUILDWID	STCK1	55.05	47.77	64.77	73.28	83.93	44.41
BUILDWID	STCK1	55.84	65.58	73.32	78.84	81.95	83.80
BUILDWID	STCK1	84.85	84.05	83.01	79.44	73.46	65.25
BUILDWID	STCK1	55.05	47.77	30.92	73.28	83.93	44.41
BUILDWID	STCK2	57.08	60.17	61.43	60.83	58.38	54.16
BUILDWID	STCK2	48.29	40.95	32.88	41.34	48.91	54.99
BUILDWID	STCK2	59.40	62.01	62.73	61.55	58.50	53.67
BUILDWID	STCK2	57.08	60.17	61.43	60.83	58.38	54.16
BUILDWID	STCK2	48.29	40.95	32.88	41.34	48.91	54.99
BUILDWID	STCK2	59.40	62.01	62.73	61.55	58.50	53.67
BUILDWID	STCK3	54.33	65.08	73.86	80.40	84.49	87.86
BUILDWID	STCK3	89.50	90.52	89.65	86.05	79.84	71.20
BUILDWID	STCK3	60.40	47.77	64.77	73.28	83.93	41.92
BUILDWID	STCK3	54.33	65.08	73.86	80.40	84.49	87.86
BUILDWID	STCK3	89.50	90.52	89.65	86.05	79.84	71.20
BUILDWID	STCK3	60.40	47.77	64.77	73.28	83.93	41.92
BUILDWID	STCK4	131.06	149.20	165.65	177.07	183.10	185.41
BUILDWID	STCK4	183.04	175.11	161.86	143.69	127.55	109.34
BUILDWID	STCK4	91.56	73.91	64.77	73.28	83.93	41.92
BUILDWID	STCK4	131.06	149.20	165.65	177.07	183.10	185.41
BUILDWID	STCK4	183.04	175.11	161.86	143.69	127.55	109.34
BUILDWID	STCK4	91.56	73.91	64.77	73.28	83.93	41.92
BUILDWID	STCK5	131.06	149.20	165.65	177.07	183.10	185.41
BUILDWID	STCK5	183.04	175.11	161.86	143.69	127.55	109.34
BUILDWID	STCK5	91.56	95.89	109.01	41.29	53.62	64.33
BUILDWID	STCK5	131.06	149.20	165.65	177.07	183.10	185.41
BUILDWID	STCK5	183.04	175.11	89.65	86.05	79.84	71.20
BUILDWID	STCK5	60.40	95.89	109.01	41.29	53.62	64.33
BUILDLN	STCK1	79.44	73.46	65.25	55.05	43.18	30.92
BUILDLN	STCK1	25.51	32.34	44.41	55.84	65.58	73.32
BUILDLN	STCK1	78.84	84.49	185.41	183.04	175.11	83.01

BUILDLN	STCK1	79.44	73.46	65.25	55.05	43.18	30.92
BUILDLN	STCK1	25.51	32.34	44.41	55.84	65.58	73.32
BUILDLN	STCK1	78.84	84.49	83.80	183.04	175.11	83.01
BUILDLN	STCK2	41.34	48.91	54.99	59.40	62.01	62.73
BUILDLN	STCK2	61.55	58.50	53.67	57.08	60.17	61.43
BUILDLN	STCK2	60.83	58.38	54.16	48.29	40.95	32.88
BUILDLN	STCK2	41.34	48.91	54.99	59.40	62.01	62.73
BUILDLN	STCK2	61.55	58.50	53.67	57.08	60.17	61.43
BUILDLN	STCK2	60.83	58.38	54.16	48.29	40.95	32.88
BUILDLN	STCK3	86.05	79.84	71.20	60.40	47.77	33.68
BUILDLN	STCK3	25.62	28.24	41.92	54.33	65.08	73.86
BUILDLN	STCK3	80.40	84.49	185.41	183.04	175.11	89.65
BUILDLN	STCK3	86.05	79.84	71.20	60.40	47.77	33.68
BUILDLN	STCK3	25.62	28.24	41.92	54.33	65.08	73.86
BUILDLN	STCK3	80.40	84.49	185.41	183.04	175.11	89.65
BUILDLN	STCK4	143.69	127.55	109.34	91.56	73.91	64.77
BUILDLN	STCK4	73.28	83.93	109.15	131.06	149.20	165.65
BUILDLN	STCK4	177.07	183.10	185.41	183.04	175.11	89.65
BUILDLN	STCK4	143.69	127.55	109.34	91.56	73.91	64.77
BUILDLN	STCK4	73.28	83.93	109.15	131.06	149.20	165.65
BUILDLN	STCK4	177.07	183.10	185.41	183.04	175.11	89.65
BUILDLN	STCK5	143.69	127.55	109.34	91.56	73.91	64.77
BUILDLN	STCK5	73.28	83.93	109.15	131.06	149.20	165.65
BUILDLN	STCK5	177.07	110.52	98.42	84.67	81.76	76.36
BUILDLN	STCK5	143.69	127.55	109.34	91.56	73.91	64.77
BUILDLN	STCK5	73.28	83.93	41.92	54.33	65.08	73.86
BUILDLN	STCK5	80.40	110.52	98.42	84.67	81.76	76.36
XBADJ	STCK1	-34.99	-35.86	-35.65	-34.34	-32.00	-28.68
XBADJ	STCK1	-25.10	-33.78	-41.42	-47.81	-52.74	-56.07
XBADJ	STCK1	-57.70	-152.59	-254.75	-250.56	-238.75	-49.95
XBADJ	STCK1	-44.45	-37.60	-29.60	-20.71	-11.19	-2.24
XBADJ	STCK1	-0.41	1.44	-2.99	-8.04	-12.84	-17.25
XBADJ	STCK1	-21.14	68.10	-26.89	67.51	63.64	-33.06
XBADJ	STCK2	-21.67	-20.33	-18.37	-15.85	-12.86	-9.47
XBADJ	STCK2	-5.79	-1.94	1.97	0.66	-1.07	-2.77
XBADJ	STCK2	-4.39	-5.87	-7.17	-8.26	-9.09	-10.16
XBADJ	STCK2	-19.67	-28.58	-36.62	-43.55	-49.15	-53.27
XBADJ	STCK2	-55.76	-56.56	-55.64	-57.74	-59.10	-58.66
XBADJ	STCK2	-56.45	-52.51	-46.99	-40.03	-31.86	-22.72
XBADJ	STCK3	-33.74	-32.96	-31.19	-28.46	-24.87	-20.53
XBADJ	STCK3	-22.61	-24.03	-33.43	-41.81	-48.92	-54.54
XBADJ	STCK3	-58.51	-60.69	-158.60	-153.07	-142.89	-56.16
XBADJ	STCK3	-52.31	-46.88	-40.02	-31.94	-22.89	-13.15

XBADJ	STCK3	-3.01	-4.20	-8.49	-12.52	-16.17	-19.32
XBADJ	STCK3	-21.89	-23.80	-26.82	-29.98	-32.22	-33.49
XBADJ	STCK4	-143.26	-130.54	-113.85	-93.70	-70.70	-56.32
XBADJ	STCK4	-59.83	-61.52	-61.35	-59.31	-55.69	-53.21
XBADJ	STCK4	-49.12	-43.54	-36.63	-28.61	-19.72	61.98
XBADJ	STCK4	-0.43	2.99	4.50	2.14	-3.21	-8.46
XBADJ	STCK4	-13.45	-22.40	-47.80	-71.75	-93.51	-112.44
XBADJ	STCK4	-127.94	-139.56	-148.79	-154.44	-155.39	-151.63
XBADJ	STCK5	-83.00	-58.92	-33.04	-6.16	20.91	36.58
XBADJ	STCK5	31.54	25.53	18.75	11.40	3.48	-7.38
XBADJ	STCK5	-18.01	-58.78	-61.20	-61.76	-60.44	-57.29
XBADJ	STCK5	-60.68	-68.63	-76.30	-85.40	-94.82	-101.36
XBADJ	STCK5	-104.82	-109.46	-127.90	-142.46	-152.69	-158.27
XBADJ	STCK5	-159.05	-51.74	-37.22	-22.91	-21.32	-19.07
YBADJ	STCK1	19.89	19.95	19.41	18.28	16.60	15.01
YBADJ	STCK1	13.85	11.91	8.45	4.73	0.87	-3.02
YBADJ	STCK1	-6.82	31.56	17.19	-20.57	-55.52	-19.22
YBADJ	STCK1	-19.89	-19.95	-19.41	-18.28	-16.60	-15.01
YBADJ	STCK1	-13.85	-11.91	-8.45	-4.73	-0.87	3.02
YBADJ	STCK1	6.82	-31.56	13.22	20.57	55.52	19.22
YBADJ	STCK2	-29.20	-29.01	-27.94	-26.03	-23.32	-19.91
YBADJ	STCK2	-15.89	-11.38	-6.28	-1.00	4.12	9.12
YBADJ	STCK2	13.85	18.15	21.90	24.98	27.31	28.81
YBADJ	STCK2	29.20	29.01	27.94	26.03	23.32	19.91
YBADJ	STCK2	15.89	11.38	6.28	1.00	-4.12	-9.12
YBADJ	STCK2	-13.85	-18.15	-21.90	-24.98	-27.31	-28.81
YBADJ	STCK3	14.65	16.38	17.61	18.31	18.45	17.11
YBADJ	STCK3	14.78	13.04	11.34	9.29	6.96	4.41
YBADJ	STCK3	1.74	-0.99	1.10	-19.72	-37.76	-12.47
YBADJ	STCK3	-14.65	-16.38	-17.61	-18.31	-18.45	-17.11
YBADJ	STCK3	-14.78	-13.04	-11.34	-9.29	-6.96	-4.41
YBADJ	STCK3	-1.74	0.99	-1.10	19.72	37.76	12.47
YBADJ	STCK4	-6.22	-18.91	-29.61	-39.41	-48.01	-56.08
YBADJ	STCK4	-62.91	-67.84	-70.70	-71.41	-66.76	-59.17
YBADJ	STCK4	-47.92	-33.75	-23.93	-23.19	-19.56	26.84
YBADJ	STCK4	6.22	18.91	29.61	39.41	48.01	56.08
YBADJ	STCK4	62.91	67.84	70.70	71.41	66.76	59.17
YBADJ	STCK4	47.92	33.75	23.93	23.19	19.56	-26.84
YBADJ	STCK5	-76.93	-78.08	-75.45	-70.52	-63.45	-55.37
YBADJ	STCK5	-46.09	-35.40	-23.64	-11.16	4.86	21.63
YBADJ	STCK5	39.62	46.87	46.85	3.19	0.08	-3.04
YBADJ	STCK5	76.93	78.09	75.45	70.52	63.45	55.37
YBADJ	STCK5	46.09	35.40	59.74	39.98	19.00	-2.56

YBADJ STCK5 -24.04 -46.87 -46.85 -3.19 -0.08 3.04

SRCGROUP SLINE1 L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
SRCGROUP SLINE1 L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
SRCGROUP SLINE1 L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
SRCGROUP SLINE1 L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
SRCGROUP SLINE1 L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
SRCGROUP SLINE1 L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
SRCGROUP SLINE1 L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
SRCGROUP SLINE1 L0000043 L0000044 L0000045 L0000046
SRCGROUP STCK1 STCK1
SRCGROUP STCK2 STCK2
SRCGROUP STCK3 STCK3
SRCGROUP STCK4 STCK4
SRCGROUP STCK5 STCK5
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "SDSU Evolve Phase 1.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE ..\KVR_2020_2022_v23132.SFC

PROFFILE ..\KVR_2020_2022_v23132.PFL

SURFDATA 93107 2020

UAIRDATA 3190 2020

SITEDATA 1016 2020

PROFBASE 132.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

** Auto-Generated Plotfiles

```

PLOTFILE 1 ALL 1ST "SDSU Evolve Phase 1.AD\01H1GALL.PLT" 31
PLOTFILE 1 SLINE1 1ST "SDSU Evolve Phase 1.AD\01H1G001.PLT" 32
PLOTFILE 1 STCK1 1ST "SDSU Evolve Phase 1.AD\01H1G002.PLT" 33
PLOTFILE 1 STCK2 1ST "SDSU Evolve Phase 1.AD\01H1G003.PLT" 34
PLOTFILE 1 STCK3 1ST "SDSU Evolve Phase 1.AD\01H1G004.PLT" 35
PLOTFILE 1 STCK4 1ST "SDSU Evolve Phase 1.AD\01H1G005.PLT" 36
PLOTFILE 1 STCK5 1ST "SDSU Evolve Phase 1.AD\01H1G006.PLT" 37
PLOTFILE PERIOD ALL "SDSU Evolve Phase 1.AD\PE00GALL.PLT" 38
PLOTFILE PERIOD SLINE1 "SDSU Evolve Phase 1.AD\PE00G001.PLT" 39
PLOTFILE PERIOD STCK1 "SDSU Evolve Phase 1.AD\PE00G002.PLT" 40
PLOTFILE PERIOD STCK2 "SDSU Evolve Phase 1.AD\PE00G003.PLT" 41
PLOTFILE PERIOD STCK3 "SDSU Evolve Phase 1.AD\PE00G004.PLT" 42
PLOTFILE PERIOD STCK4 "SDSU Evolve Phase 1.AD\PE00G005.PLT" 43
PLOTFILE PERIOD STCK5 "SDSU Evolve Phase 1.AD\PE00G006.PLT" 44
SUMMFILE "SDSU Evolve Phase 1.sum"
OU FINISHED

```

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

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

```

A Total of          0 Fatal Error Message(s)
A Total of          3 Warning Message(s)
A Total of          0 Informational Message(s)

```

```

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

```

```

***** WARNING MESSAGES *****
SO W320      169      PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
SO W320      170      PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
MX W403      388      PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

```

```

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

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:47:11

```

PAGE 1

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses RURAL Dispersion Only.
- * CCVR_Sub - Meteorological data includes CCVR substitutions
- * TEMP_Sub - Meteorological data includes TEMP substitutions
- * Model Assumes No FLAGPOLE Receptor Heights.
- * The User Specified a Pollutant Type of: PM₁₀

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

**This Run Includes: 51 Source(s); 7 Source Group(s); and 532
Receptor(s)

with: 5 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 46 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

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

**The AERMET Input Meteorological Data Version Date: 23132

**Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE

Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE

Keyword)

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

Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 132.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.8 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: SDSU Evolve Phase 1.err

**File for Summary of Results: SDSU Evolve Phase 1.sum

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 2

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** POINT SOURCE DATA ***

STACK	STACK	BLDG	URBAN	CAP/	EMIS	RATE	BASE	STACK	STACK	
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	TEMP.	EXIT		
VEL. DIAMETER	EXISTS	SOURCE	HOR	SCALAR						
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)			
(M/SEC)	(METERS)		VARY BY							
STCK1	0	0.10000E+01	492847.7	3626536.4	124.2	2.50	772.59			
60.64	0.13	YES	NO	NO						
STCK2	0	0.10000E+01	492991.1	3625839.7	141.9	2.50	772.59			
60.64	0.13	YES	NO	NO						

STCK3	0	0.10000E+01	492813.6	3626627.7	123.6	2.32	699.26
42.60	0.20	YES NO NO					
STCK4	0	0.10000E+01	492774.3	3626745.8	115.9	2.32	699.26
42.60	0.20	YES NO NO					
STCK5	0	0.10000E+01	492694.2	3626698.8	121.1	2.32	699.26
42.60	0.20	YES NO NO					

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 3

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** VOLUME SOURCE DATA ***

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

L0000001	0	0.21739E-01	492682.7	3626624.7	123.6	3.40	4.00
3.16 NO							
L0000002	0	0.21739E-01	492682.7	3626616.1	123.7	3.40	4.00
3.16 NO							
L0000003	0	0.21739E-01	492683.3	3626607.7	123.7	3.40	4.00
3.16 NO							
L0000004	0	0.21739E-01	492687.3	3626600.1	122.7	3.40	4.00
3.16 NO							
L0000005	0	0.21739E-01	492691.4	3626592.5	122.2	3.40	4.00
3.16 NO							
L0000006	0	0.21739E-01	492695.4	3626584.9	122.3	3.40	4.00
3.16 NO							
L0000007	0	0.21739E-01	492701.4	3626584.9	123.6	3.40	4.00
3.16 NO							
L0000008	0	0.21739E-01	492708.5	3626589.7	124.2	3.40	4.00
3.16 NO							
L0000009	0	0.21739E-01	492715.7	3626594.4	124.3	3.40	4.00
3.16 NO							
L0000010	0	0.21739E-01	492722.8	3626599.2	124.4	3.40	4.00
3.16 NO							
L0000011	0	0.21739E-01	492730.0	3626604.0	124.3	3.40	4.00
3.16 NO							
L0000012	0	0.21739E-01	492737.1	3626608.7	124.4	3.40	4.00
3.16 NO							

L0000013	0	0.21739E-01	492744.3	3626613.5	124.4	3.40	4.00
3.16 NO		NO					
L0000014	0	0.21739E-01	492744.7	3626619.7	124.2	3.40	4.00
3.16 NO		NO					
L0000015	0	0.21739E-01	492740.2	3626627.0	124.0	3.40	4.00
3.16 NO		NO					
L0000016	0	0.21739E-01	492735.6	3626634.3	123.9	3.40	4.00
3.16 NO		NO					
L0000017	0	0.21739E-01	492731.0	3626641.5	123.8	3.40	4.00
3.16 NO		NO					
L0000018	0	0.21739E-01	492726.4	3626648.8	123.5	3.40	4.00
3.16 NO		NO					
L0000019	0	0.21739E-01	492721.2	3626652.9	123.4	3.40	4.00
3.16 NO		NO					
L0000020	0	0.21739E-01	492714.1	3626648.0	123.6	3.40	4.00
3.16 NO		NO					
L0000021	0	0.21739E-01	492707.0	3626643.1	123.7	3.40	4.00
3.16 NO		NO					
L0000022	0	0.21739E-01	492700.0	3626638.2	123.8	3.40	4.00
3.16 NO		NO					
L0000023	0	0.21739E-01	492692.9	3626633.3	123.7	3.40	4.00
3.16 NO		NO					
L0000024	0	0.21739E-01	492692.4	3626624.8	123.8	3.40	4.00
3.16 NO		NO					
L0000025	0	0.21739E-01	492692.0	3626616.2	123.9	3.40	4.00
3.16 NO		NO					
L0000026	0	0.21739E-01	492694.2	3626608.0	124.0	3.40	4.00
3.16 NO		NO					
L0000027	0	0.21739E-01	492697.2	3626600.0	123.6	3.40	4.00
3.16 NO		NO					
L0000028	0	0.21739E-01	492702.7	3626598.5	124.1	3.40	4.00
3.16 NO		NO					
L0000029	0	0.21739E-01	492710.2	3626602.6	124.2	3.40	4.00
3.16 NO		NO					
L0000030	0	0.21739E-01	492717.7	3626606.8	124.2	3.40	4.00
3.16 NO		NO					
L0000031	0	0.21739E-01	492725.2	3626611.0	124.1	3.40	4.00
3.16 NO		NO					
L0000032	0	0.21739E-01	492732.7	3626615.2	124.2	3.40	4.00
3.16 NO		NO					
L0000033	0	0.21739E-01	492734.1	3626620.9	124.1	3.40	4.00
3.16 NO		NO					
L0000034	0	0.21739E-01	492729.6	3626628.2	124.0	3.40	4.00
3.16 NO		NO					
L0000035	0	0.21739E-01	492725.1	3626635.6	123.9	3.40	4.00
3.16 NO		NO					
L0000036	0	0.21739E-01	492720.1	3626640.8	123.8	3.40	4.00
3.16 NO		NO					
L0000037	0	0.21739E-01	492713.0	3626635.9	123.9	3.40	4.00
3.16 NO		NO					

L0000038	0	0.21739E-01	492705.9	3626631.1	123.9	3.40	4.00
3.16 NO		NO					
L0000039	0	0.21739E-01	492701.6	3626624.2	124.0	3.40	4.00
3.16 NO		NO					
L0000040	0	0.21739E-01	492699.6	3626615.9	124.1	3.40	4.00
3.16 NO		NO					

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 4

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** VOLUME SOURCE DATA ***

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

L0000041	0	0.21739E-01	492703.5	3626609.2	124.2	3.40	4.00
3.16 NO		NO					
L0000042	0	0.21739E-01	492711.0	3626613.4	124.2	3.40	4.00
3.16 NO		NO					
L0000043	0	0.21739E-01	492718.5	3626617.7	124.1	3.40	4.00
3.16 NO		NO					
L0000044	0	0.21739E-01	492720.6	3626623.8	124.0	3.40	4.00
3.16 NO		NO					
L0000045	0	0.21739E-01	492717.2	3626629.7	124.0	3.40	4.00
3.16 NO		NO					
L0000046	0	0.21739E-01	492712.0	3626622.8	124.0	3.40	4.00
3.16 NO		NO					

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 5

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

SLINE1	L0000001	, L0000002	, L0000003	, L0000004	, L0000005	,
L0000006	, L0000007	, L0000008	,			
	L0000009	, L0000010	, L0000011	, L0000012	, L0000013	,
L0000014	, L0000015	, L0000016	,			
	L0000017	, L0000018	, L0000019	, L0000020	, L0000021	,
L0000022	, L0000023	, L0000024	,			
	L0000025	, L0000026	, L0000027	, L0000028	, L0000029	,
L0000030	, L0000031	, L0000032	,			
	L0000033	, L0000034	, L0000035	, L0000036	, L0000037	,
L0000038	, L0000039	, L0000040	,			
	L0000041	, L0000042	, L0000043	, L0000044	, L0000045	,
L0000046	,					
STCK1	STCK1	,				
STCK2	STCK2	,				
STCK3	STCK3	,				
STCK4	STCK4	,				
STCK5	STCK5	,				
ALL	L0000001	, L0000002	, L0000003	, L0000004	, L0000005	,
L0000006	, L0000007	, L0000008	,			
	L0000009	, L0000010	, L0000011	, L0000012	, L0000013	,
L0000014	, L0000015	, L0000016	,			
	L0000017	, L0000018	, L0000019	, L0000020	, L0000021	,
L0000022	, L0000023	, L0000024	,			
	L0000025	, L0000026	, L0000027	, L0000028	, L0000029	,
L0000030	, L0000031	, L0000032	,			
	L0000033	, L0000034	, L0000035	, L0000036	, L0000037	,
L0000038	, L0000039	, L0000040	,			
	L0000041	, L0000042	, L0000043	, L0000044	, L0000045	,
L0000046	, STCK1	, STCK2	,			
	STCK3	, STCK4	, STCK5	,		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:47:11

PAGE 6

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** DIRECTION SPECIFIC BUILDING DIMENSIONS

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
YADJ										
1	28.7,	55.8,	79.4,	-35.0,	19.9,	2	28.7,	65.6,	73.5,	-35.9,
19.9,										
3	28.7,	73.3,	65.2,	-35.6,	19.4,	4	28.7,	78.8,	55.0,	-34.3,
18.3,										
5	28.7,	82.0,	43.2,	-32.0,	16.6,	6	28.7,	83.8,	30.9,	-28.7,
15.0,										
7	28.7,	84.8,	25.5,	-25.1,	13.9,	8	28.7,	84.0,	32.3,	-33.8,
11.9,										
9	28.7,	83.0,	44.4,	-41.4,	8.5,	10	28.7,	79.4,	55.8,	-47.8,
4.7,										
11	28.7,	73.5,	65.6,	-52.7,	0.9,	12	28.7,	65.2,	73.3,	-56.1,
-3.0,										
13	28.7,	55.0,	78.8,	-57.7,	-6.8,	14	34.1,	47.8,	84.5,	-152.6,
31.6,										
15	34.1,	64.8,	185.4,	-254.8,	17.2,	16	34.1,	73.3,	183.0,	-250.6,
-20.6,										
17	34.1,	83.9,	175.1,	-238.8,	-55.5,	18	28.7,	44.4,	83.0,	-49.9,
-19.2,										
19	28.7,	55.8,	79.4,	-44.4,	-19.9,	20	28.7,	65.6,	73.5,	-37.6,
-19.9,										
21	28.7,	73.3,	65.2,	-29.6,	-19.4,	22	28.7,	78.8,	55.0,	-20.7,
-18.3,										
23	28.7,	82.0,	43.2,	-11.2,	-16.6,	24	28.7,	83.8,	30.9,	-2.2,
-15.0,										
25	28.7,	84.8,	25.5,	-0.4,	-13.9,	26	28.7,	84.0,	32.3,	1.4,
-11.9,										
27	28.7,	83.0,	44.4,	-3.0,	-8.5,	28	28.7,	79.4,	55.8,	-8.0,
-4.7,										
29	28.7,	73.5,	65.6,	-12.8,	-0.9,	30	28.7,	65.2,	73.3,	-17.2,
3.0,										
31	28.7,	55.0,	78.8,	-21.1,	6.8,	32	34.1,	47.8,	84.5,	68.1,
-31.6,										
33	28.7,	30.9,	83.8,	-26.9,	13.2,	34	34.1,	73.3,	183.0,	67.5,
20.6,										
35	34.1,	83.9,	175.1,	63.6,	55.5,	36	28.7,	44.4,	83.0,	-33.1,

19.2,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
YADJ										
1	28.0,	57.1,	41.3,	-21.7,	-29.2,	2	28.0,	60.2,	48.9,	-20.3,
-29.0,										
3	28.0,	61.4,	55.0,	-18.4,	-27.9,	4	28.0,	60.8,	59.4,	-15.9,
-26.0,										
5	28.0,	58.4,	62.0,	-12.9,	-23.3,	6	28.0,	54.2,	62.7,	-9.5,
-19.9,										
7	28.0,	48.3,	61.5,	-5.8,	-15.9,	8	28.0,	40.9,	58.5,	-1.9,
-11.4,										
9	28.0,	32.9,	53.7,	2.0,	-6.3,	10	28.0,	41.3,	57.1,	0.7,
-1.0,										
11	28.0,	48.9,	60.2,	-1.1,	4.1,	12	28.0,	55.0,	61.4,	-2.8,
9.1,										
13	28.0,	59.4,	60.8,	-4.4,	13.9,	14	28.0,	62.0,	58.4,	-5.9,
18.2,										
15	28.0,	62.7,	54.2,	-7.2,	21.9,	16	28.0,	61.5,	48.3,	-8.3,
25.0,										
17	28.0,	58.5,	40.9,	-9.1,	27.3,	18	28.0,	53.7,	32.9,	-10.2,
28.8,										
19	28.0,	57.1,	41.3,	-19.7,	29.2,	20	28.0,	60.2,	48.9,	-28.6,
29.0,										
21	28.0,	61.4,	55.0,	-36.6,	27.9,	22	28.0,	60.8,	59.4,	-43.5,
26.0,										
23	28.0,	58.4,	62.0,	-49.1,	23.3,	24	28.0,	54.2,	62.7,	-53.3,
19.9,										
25	28.0,	48.3,	61.5,	-55.8,	15.9,	26	28.0,	40.9,	58.5,	-56.6,
11.4,										
27	28.0,	32.9,	53.7,	-55.6,	6.3,	28	28.0,	41.3,	57.1,	-57.7,
1.0,										
29	28.0,	48.9,	60.2,	-59.1,	-4.1,	30	28.0,	55.0,	61.4,	-58.7,
-9.1,										
31	28.0,	59.4,	60.8,	-56.4,	-13.9,	32	28.0,	62.0,	58.4,	-52.5,
-18.2,										
33	28.0,	62.7,	54.2,	-47.0,	-21.9,	34	28.0,	61.5,	48.3,	-40.0,
-25.0,										
35	28.0,	58.5,	40.9,	-31.9,	-27.3,	36	28.0,	53.7,	32.9,	-22.7,
-28.8,										

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
YADJ										
1	34.1,	54.3,	86.0,	-33.7,	14.7,	2	34.1,	65.1,	79.8,	-33.0,
16.4,										
3	34.1,	73.9,	71.2,	-31.2,	17.6,	4	34.1,	80.4,	60.4,	-28.5,


```

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:47:11

```

```
*** MODELOPTs:   RegDFAULT  CONC  ELEV  RURAL  SigA Data
```

IFV YADJ	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
1 -78.1,	34.1,	131.1,	143.7,	-83.0,	-76.9,	2	34.1,	149.2,	127.5,	-58.9,
3 -70.5,	34.1,	165.7,	109.3,	-33.0,	-75.5,	4	34.1,	177.1,	91.6,	-6.2,
5 -55.4,	34.1,	183.1,	73.9,	20.9,	-63.4,	6	34.1,	185.4,	64.8,	36.6,
7 -35.4,	34.1,	183.0,	73.3,	31.5,	-46.1,	8	34.1,	175.1,	83.9,	25.5,
9 -11.2,	34.1,	161.9,	109.1,	18.8,	-23.6,	10	34.1,	143.7,	131.1,	11.4,

11	34.1,	127.5,	149.2,	3.5,	4.9,	12	34.1,	109.3,	165.7,	-7.4,
21.6,										
13	34.1,	91.6,	177.1,	-18.0,	39.6,	14	34.1,	95.9,	110.5,	-58.8,
46.9,										
15	34.1,	109.0,	98.4,	-61.2,	46.8,	16	34.1,	41.3,	84.7,	-61.8,
3.2,										
17	34.1,	53.6,	81.8,	-60.4,	0.1,	18	34.1,	64.3,	76.4,	-57.3,
-3.0,										
19	34.1,	131.1,	143.7,	-60.7,	76.9,	20	34.1,	149.2,	127.5,	-68.6,
78.1,										
21	34.1,	165.7,	109.3,	-76.3,	75.5,	22	34.1,	177.1,	91.6,	-85.4,
70.5,										
23	34.1,	183.1,	73.9,	-94.8,	63.4,	24	34.1,	185.4,	64.8,	-101.4,
55.4,										
25	34.1,	183.0,	73.3,	-104.8,	46.1,	26	34.1,	175.1,	83.9,	-109.5,
35.4,										
27	34.1,	89.6,	41.9,	-127.9,	59.7,	28	34.1,	86.0,	54.3,	-142.5,
40.0,										
29	34.1,	79.8,	65.1,	-152.7,	19.0,	30	34.1,	71.2,	73.9,	-158.3,
-2.6,										
31	34.1,	60.4,	80.4,	-159.1,	-24.0,	32	34.1,	95.9,	110.5,	-51.7,
-46.9,										
33	34.1,	109.0,	98.4,	-37.2,	-46.8,	34	34.1,	41.3,	84.7,	-22.9,
-3.2,										
35	34.1,	53.6,	81.8,	-21.3,	-0.1,	36	34.1,	64.3,	76.4,	-19.1,
3.0,										

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:47:11

PAGE 8

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

490879.2, 491073.3, 491267.4, 491461.5, 491655.6, 491849.7, 492043.8,
 492237.9, 492432.0, 492626.1,
 492820.2, 493014.3, 493208.4, 493402.5, 493596.6, 493790.7, 493984.8,
 494178.9, 494373.0, 494567.1,
 494761.2,

*** Y-COORDINATES OF GRID ***

(METERS)

3624590.4, 3624786.2, 3624982.1, 3625177.9, 3625373.8, 3625569.7, 3625765.5,
3625961.4, 3626157.2, 3626353.1,
3626549.0, 3626744.8, 3626940.7, 3627136.5, 3627332.4, 3627528.3, 3627724.1,
3627920.0, 3628115.8, 3628311.7,
3628507.6,

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:47:11

PAGE 9

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58	
491849.68	492043.78	492237.88	492431.98			

- - - - -
- - - - -

3628507.56		25.00	43.20	43.10	48.60	67.50
80.10		95.10	99.80	104.90		
3628311.70		34.20	42.30	48.30	58.60	67.70
87.00		93.50	96.80	99.40		
3628115.84		35.30	39.20	49.50	59.30	74.90
90.50		89.90	94.60	98.40		
3627919.98		34.40	39.40	51.20	57.10	81.40
91.30		79.50	97.40	94.00		
3627724.12		29.60	38.00	49.50	69.90	82.20
89.30		62.50	99.00	55.90		
3627528.26		26.30	38.20	56.90	78.80	82.40
81.00		60.00	55.50	92.00		
3627332.40		25.20	36.20	57.80	66.70	68.80
45.50		41.60	85.80	115.00		
3627136.54		23.70	25.40	27.40	29.00	34.00
34.90		34.80	34.80	40.30		
3626940.68		35.80	38.20	39.70	41.60	40.50
45.80		55.20	53.60	49.60		
3626744.82		84.80	99.10	84.90	86.90	68.40
105.30		110.40	113.00	74.40		
3626548.96		89.90	97.80	78.80	108.90	95.30
82.60		127.20	121.30	108.70		
3626353.10		66.40	106.30	107.60	97.70	120.40
84.80		122.30	133.50	133.80		

3626157.24		38.60	71.90	115.10	118.10	120.60
115.70		115.40	127.50	126.90		
3625961.38		53.40	50.50	63.30	86.80	120.70
119.20		100.10	103.40	114.00		
3625765.52		52.20	100.40	87.70	59.60	70.40
76.70		86.10	95.90	121.70		
3625569.66		80.60	94.20	115.10	119.50	106.20
110.80		76.20	86.10	100.00		
3625373.80		73.80	91.40	81.80	120.10	123.20
122.50		106.00	109.80	126.70		
3625177.94		64.10	115.10	113.40	99.90	122.20
121.80		120.30	97.10	128.30		
3624982.08		74.00	113.60	110.50	117.80	119.20
121.10		121.20	106.70	124.00		
3624786.22		109.50	96.90	115.30	117.60	118.70
120.30		120.60	109.90	111.30		
3624590.36		108.30	109.70	105.40	113.00	116.20
118.50		119.60	120.80	117.70		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:47:11

PAGE 10

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD		X-COORD (METERS)				
(METERS)		492626.08	492820.18	493014.28	493208.38	493402.48
493596.58		493790.68	493984.78	494178.88		

- - - - -
 - - - - -

3628507.56		106.80	107.70	93.20	107.90	111.20
118.20		128.90	146.10	192.00		
3628311.70		103.20	106.80	82.70	90.50	112.70
121.70		133.00	155.40	216.90		
3628115.84		100.50	85.20	94.30	121.30	121.10
124.20		138.60	157.00	216.70		
3627919.98		76.70	87.30	82.50	121.70	131.00
130.00		141.30	170.80	228.80		
3627724.12		71.90	122.60	125.30	119.50	108.60
132.70		144.30	164.50	197.70		
3627528.26		112.50	95.30	119.80	130.00	130.40
124.60		139.30	151.20	167.00		
3627332.40		106.20	98.30	119.00	122.00	131.90

136.80	143.30	149.40	146.80			
3627136.54	42.50	42.90	43.20	48.90	81.30	
127.20	140.70	140.90	134.10			
3626940.68	48.30	57.70	56.90	63.20	91.90	
114.10	125.50	112.20	129.40			
3626744.82	112.00	108.40	100.30	105.10	115.20	
91.80	98.50	100.30	105.90			
3626548.96	100.70	125.40	110.00	132.60	132.60	
111.90	123.60	119.40	102.90			
3626353.10	133.90	135.30	116.80	134.20	135.40	
133.50	133.00	132.60	112.90			
3626157.24	130.90	136.40	133.20	138.60	138.90	
131.70	130.10	137.20	139.30			
3625961.38	128.60	139.60	141.20	140.80	139.70	
140.00	133.40	140.10	140.40			
3625765.52	116.60	141.00	141.80	140.70	137.00	
141.00	143.30	142.70	140.40			
3625569.66	106.70	112.70	139.30	129.90	118.50	
142.10	143.30	142.80	142.50			
3625373.80	116.10	136.50	108.00	115.20	114.50	
122.80	134.00	143.50	143.10			
3625177.94	114.50	129.90	134.00	125.90	138.00	
136.00	143.70	144.90	144.30			
3624982.08	129.20	132.80	140.40	129.60	142.20	
144.40	144.30	144.80	143.80			
3624786.22	112.40	130.90	140.80	141.40	143.70	
144.90	143.10	143.90	144.70			
3624590.36	128.90	125.80	139.80	146.80	140.40	
135.80	136.30	143.60	144.90			

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 11

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	494372.98	494567.08	494761.18	X-COORD (METERS)
3628507.56	229.10	230.10	216.80	
3628311.70	243.40	239.50	220.40	
3628115.84	250.70	248.30	231.70	

3627919.98	236.60	228.70	231.60
3627724.12	215.30	186.80	220.90
3627528.26	166.80	162.70	199.80
3627332.40	145.10	150.60	186.20
3627136.54	139.60	142.00	153.50
3626940.68	132.20	133.30	137.40
3626744.82	111.80	122.70	128.10
3626548.96	105.00	107.30	108.60
3626353.10	134.50	126.00	130.90
3626157.24	135.10	139.70	118.20
3625961.38	127.30	140.60	124.00
3625765.52	138.10	139.50	135.60
3625569.66	141.30	135.60	133.10
3625373.80	142.50	141.20	141.10
3625177.94	143.10	142.00	141.10
3624982.08	141.00	142.30	135.30
3624786.22	143.90	135.50	135.10
3624590.36	141.60	127.80	138.60

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 12

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	126.10	43.20	43.10	88.30	67.50
93.50	95.10	99.80	104.90		
3628311.70	125.30	42.30	49.80	58.60	93.50
93.50	93.50	96.80	99.40		
3628115.84	35.30	45.00	50.40	85.00	90.10
90.50	89.90	94.60	98.40		
3627919.98	34.40	39.40	79.50	89.70	81.40
91.30	100.00	97.40	96.40		
3627724.12	29.60	78.80	80.10	79.70	82.20
89.30	126.80	99.00	251.60		
3627528.26	109.80	79.50	79.50	78.80	82.40
85.80	127.50	127.80	127.80		
3627332.40	111.30	111.30	57.80	66.70	83.00

130.40	134.50	126.80	126.20			
3627136.54	117.50	120.10	131.00	134.50	134.70	
134.70	134.70	136.60	136.60			
3626940.68	117.50	120.10	131.00	134.20	134.70	
134.70	134.70	136.20	137.40			
3626744.82	111.30	111.30	112.70	118.80	134.20	
126.60	126.00	119.90	136.60			
3626548.96	111.30	111.30	119.70	116.10	130.40	
134.70	127.20	134.70	134.70			
3626353.10	119.20	109.30	116.30	121.40	120.40	
134.70	132.60	133.50	133.80			
3626157.24	121.80	119.20	117.60	118.10	120.60	
115.70	131.80	127.50	132.70			
3625961.38	119.80	123.20	123.30	122.50	120.70	
119.20	131.80	133.20	128.30			
3625765.52	122.30	112.00	121.80	123.60	123.60	
130.40	128.90	124.60	121.70			
3625569.66	115.20	116.40	115.10	121.50	123.60	
121.80	128.40	136.50	141.00			
3625373.80	116.50	116.40	123.60	120.10	123.20	
122.50	122.60	127.90	126.70			
3625177.94	116.50	115.10	115.20	123.10	122.20	
121.80	120.30	129.20	128.30			
3624982.08	116.60	113.60	114.90	117.80	119.20	
121.10	121.20	119.10	124.00			
3624786.22	109.50	114.70	115.30	117.60	118.70	
120.30	120.60	121.10	125.30			
3624590.36	108.30	109.70	105.40	113.00	116.20	
118.50	119.60	120.80	117.70			

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 13

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)				X-COORD (METERS)		
	492626.08	492820.18	493014.28	493208.38	493402.48	
493596.58	493790.68	493984.78	494178.88			

3628507.56	106.80	107.70	252.50	252.50	252.50	
252.50	252.50	252.50	252.50			

3628311.70		103.20	106.80	252.50	252.50	252.50
252.50		252.50	252.50	252.50		
3628115.84		100.50	252.50	252.50	252.50	252.50
252.50		252.50	252.50	252.50		
3627919.98		252.10	252.50	252.50	252.50	252.50
252.50		252.50	252.50	239.10		
3627724.12		252.50	122.60	125.30	252.50	252.50
252.50		252.50	252.50	252.50		
3627528.26		127.80	129.10	127.50	130.00	252.50
252.50		252.50	252.50	252.50		
3627332.40		127.80	127.80	121.40	122.00	239.10
252.50		252.50	252.50	258.90		
3627136.54		252.50	252.50	252.50	258.90	252.50
250.90		244.20	252.50	258.90		
3626940.68		138.70	250.90	252.50	252.50	252.50
244.20		244.20	258.90	258.90		
3626744.82		123.20	125.30	133.70	134.30	132.80
251.40		252.10	258.90	258.90		
3626548.96		136.60	125.40	136.20	132.60	132.60
137.70		133.90	135.10	258.90		
3626353.10		133.90	135.30	137.90	134.20	139.00
135.00		134.90	135.30	140.40		
3626157.24		130.90	136.40	139.20	138.60	138.90
140.50		130.10	137.20	139.30		
3625961.38		134.70	139.60	141.20	140.80	139.70
140.00		133.40	140.10	140.40		
3625765.52		141.20	141.00	141.80	140.70	137.00
141.00		143.30	142.70	140.40		
3625569.66		142.00	142.20	139.30	140.30	143.10
142.10		143.30	142.80	142.50		
3625373.80		136.60	136.50	141.60	140.10	142.70
143.80		134.00	143.50	143.10		
3625177.94		136.00	139.40	140.50	140.40	138.00
143.70		143.70	144.90	144.30		
3624982.08		129.20	132.80	140.40	143.30	142.20
144.40		144.30	144.80	143.80		
3624786.22		131.30	130.90	140.80	141.40	143.70
144.90		143.10	143.90	144.70		
3624590.36		128.90	131.00	139.80	146.80	145.70
137.70		136.30	143.60	144.90		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:47:11

PAGE 14

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	494372.98	494567.08	494761.18	X-COORD (METERS)
3628507.56	229.10	230.10	232.70	
3628311.70	251.90	241.80	250.40	
3628115.84	250.70	248.30	246.90	
3627919.98	240.20	248.90	231.60	
3627724.12	244.20	258.90	232.50	
3627528.26	258.90	258.90	258.90	
3627332.40	258.90	258.90	258.90	
3627136.54	258.90	258.90	258.90	
3626940.68	258.90	258.90	258.90	
3626744.82	258.90	258.90	258.90	
3626548.96	258.90	258.90	258.90	
3626353.10	134.50	140.20	130.90	
3626157.24	138.10	139.70	140.80	
3625961.38	140.20	140.60	141.00	
3625765.52	138.10	139.50	135.60	
3625569.66	141.30	135.60	133.10	
3625373.80	142.50	141.20	141.10	
3625177.94	143.10	142.00	141.10	
3624982.08	141.00	142.30	140.70	
3624786.22	143.90	142.50	141.10	
3624590.36	141.60	142.40	141.20	

*** AERMOD - VERSION 23132 ***
 C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

(492883.2, 3625830.8, 141.7, 141.7, 0.0); (492919.8,
 3625834.6, 142.1, 142.1, 0.0);
 (492955.1, 3625845.5, 142.1, 142.1, 0.0); (493069.9,
 3625832.7, 142.2, 142.2, 0.0);
 (493094.9, 3625832.7, 142.2, 142.2, 0.0); (493110.9,
 3625837.2, 142.1, 142.1, 0.0);
 (493152.0, 3625834.0, 141.9, 141.9, 0.0); (493166.7,
 3625837.9, 141.8, 141.8, 0.0);
 (493187.9, 3625836.6, 141.7, 141.7, 0.0); (493201.3,

3625836.6,	141.6,	141.6,	0.0);		
(493240.4,	3625836.6,	141.0,	141.0,	0.0);	(492881.3,
3625908.4,	141.6,	141.6,	0.0);		
(492907.0,	3625898.1,	142.3,	142.3,	0.0);	(492901.8,
3625911.6,	141.8,	141.8,	0.0);		
(492928.1,	3625914.8,	141.7,	141.7,	0.0);	(492933.9,
3625898.1,	142.3,	142.3,	0.0);		
(492951.9,	3625908.4,	141.8,	141.8,	0.0);	(492973.7,
3625907.1,	141.3,	141.3,	0.0);		
(492993.5,	3625914.2,	141.0,	141.0,	0.0);	(492996.1,
3625897.5,	141.0,	141.0,	0.0);		
(493016.0,	3625896.8,	141.8,	141.8,	0.0);	(493023.0,
3625912.2,	141.7,	141.7,	0.0);		
(493044.2,	3625907.1,	141.7,	141.7,	0.0);	(493066.7,
3625907.8,	141.0,	141.0,	0.0);		
(493085.2,	3625912.2,	141.4,	141.4,	0.0);	(493087.2,
3625895.6,	141.3,	141.3,	0.0);		
(493109.0,	3625911.6,	141.5,	141.5,	0.0);	(493112.2,
3625897.5,	141.4,	141.4,	0.0);		
(493134.0,	3625902.0,	140.9,	140.9,	0.0);	(492874.3,
3625788.5,	140.9,	140.9,	0.0);		
(492894.1,	3625789.1,	141.3,	141.3,	0.0);	(492910.2,
3625790.4,	141.4,	141.4,	0.0);		
(492930.7,	3625786.5,	141.4,	141.4,	0.0);	(492947.4,
3625791.0,	141.6,	141.6,	0.0);		
(492963.4,	3625787.8,	141.6,	141.6,	0.0);	(492982.6,
3625787.8,	141.6,	141.6,	0.0);		
(493000.0,	3625787.8,	141.7,	141.7,	0.0);	(493021.1,
3625791.0,	141.8,	141.8,	0.0);		
(493036.5,	3625789.1,	141.9,	141.9,	0.0);	(493055.8,
3625789.8,	141.9,	141.9,	0.0);		
(493076.3,	3625787.8,	141.9,	141.9,	0.0);	(493094.9,
3625787.8,	141.9,	141.9,	0.0);		
(493112.8,	3625788.5,	141.8,	141.8,	0.0);	(493129.5,
3625787.2,	141.7,	141.7,	0.0);		
(493148.7,	3625787.2,	141.6,	141.6,	0.0);	(493164.8,
3625790.4,	141.5,	141.5,	0.0);		
(493184.6,	3625789.1,	141.2,	141.2,	0.0);	(493202.0,
3625791.0,	141.1,	141.1,	0.0);		
(493221.2,	3625790.4,	141.0,	141.0,	0.0);	(493238.5,
3625791.0,	140.7,	140.7,	0.0);		
(492780.0,	3626415.0,	129.0,	135.1,	0.0);	(492778.7,
3626388.1,	131.1,	135.1,	0.0);		
(492747.9,	3626386.2,	131.2,	134.8,	0.0);	(492742.2,
3626418.2,	129.7,	129.7,	0.0);		
(492699.2,	3626422.7,	129.8,	129.8,	0.0);	(492697.9,
3626391.9,	131.4,	134.8,	0.0);		
(492678.7,	3626411.8,	131.0,	134.7,	0.0);	(492626.1,
3626426.6,	132.8,	133.6,	0.0);		
(492606.8,	3626435.5,	128.9,	134.1,	0.0);	(492599.2,

```

3626405.4,    132.5,    132.5,    0.0);
    ( 492491.2, 3626644.9,    115.1,    116.5,    0.0);    ( 492517.4,
3626636.7,    113.5,    133.7,    0.0);
    ( 492521.2, 3626603.4,    117.5,    117.5,    0.0);    ( 492521.7,
3626582.2,    118.3,    118.3,    0.0);
    ( 492512.5, 3626553.8,    118.7,    133.7,    0.0);    ( 492513.5,
3626533.1,    118.0,    133.7,    0.0);
    ( 492501.0, 3626506.4,    118.3,    133.7,    0.0);    ( 492490.6,
3626485.7,    120.5,    133.7,    0.0);
    ( 492479.2, 3626464.4,    122.4,    133.7,    0.0);    ( 492466.1,
3626447.0,    126.2,    133.2,    0.0);
    ( 492447.6, 3626418.7,    131.4,    131.4,    0.0);    ( 492431.8,
3626430.6,    131.2,    131.2,    0.0);
    ( 492481.9, 3626620.3,    116.3,    134.1,    0.0);    ( 492482.5,
3626594.2,    117.8,    133.7,    0.0);
    ( 492479.2, 3626572.9,    118.5,    134.1,    0.0);    ( 492477.0,
3626546.8,    118.9,    134.1,    0.0);
    ( 492467.8, 3626523.3,    118.7,    134.4,    0.0);    ( 492463.9,
3626507.5,    119.3,    134.6,    0.0);
    ( 492450.9, 3626492.8,    121.3,    134.6,    0.0);    ( 492427.4,
3626474.8,    126.0,    133.7,    0.0);
    ( 492402.9, 3626460.6,    131.3,    133.2,    0.0);    ( 492803.9,
3626616.1,    124.7,    124.7,    0.0);
    ( 492823.2, 3626567.2,    125.1,    125.1,    0.0);    ( 492838.3,
3626526.9,    125.5,    125.5,    0.0);
    ( 493039.8, 3625834.4,    141.9,    141.9,    0.0);    ( 492791.9,
3626663.0,    123.6,    123.6,    0.0);
    ( 492731.1, 3626741.9,    118.5,    121.2,    0.0);    ( 492774.8,
3626728.0,    120.3,    120.3,    0.0);
    ( 492674.0, 3626739.0,    119.7,    121.1,    0.0);    ( 492708.5,
3626698.5,    121.5,    121.5,    0.0);

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:47:11

```

PAGE 16

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

```

( 493013.3, 3625844.5,    141.8,    141.8,    0.0);

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:47:11

```


Profile format: FREE

Surface station no.: 93107
Name: UNKNOWN

Upper air station no.: 3190
Name: UNKNOWN

Year: 2020

Year: 2020

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							

20	01	01	1	01	-18.2	0.163	-9.000	-9.000	-999.	158.	21.3	0.10	1.21
1.00	2.82	57.	10.0	283.1	10.0								
20	01	01	1	02	-8.1	0.093	-9.000	-9.000	-999.	70.	8.9	0.12	1.21
1.00	2.06	73.	10.0	282.6	10.0								
20	01	01	1	03	-10.2	0.104	-9.000	-9.000	-999.	80.	9.7	0.10	1.21
1.00	2.37	54.	10.0	283.5	10.0								
20	01	01	1	04	-8.0	0.092	-9.000	-9.000	-999.	67.	8.6	0.10	1.21
1.00	2.10	59.	10.0	283.0	10.0								
20	01	01	1	05	-11.2	0.109	-9.000	-9.000	-999.	86.	10.4	0.12	1.21
1.00	2.41	63.	10.0	282.4	10.0								
20	01	01	1	06	-7.4	0.089	-9.000	-9.000	-999.	64.	8.5	0.12	1.21
1.00	1.97	64.	10.0	282.6	10.0								
20	01	01	1	07	-7.1	0.087	-9.000	-9.000	-999.	61.	8.3	0.12	1.21
1.00	1.92	70.	10.0	282.5	10.0								
20	01	01	1	08	-2.1	0.053	-9.000	-9.000	-999.	29.	6.3	0.14	1.21
0.50	1.12	129.	10.0	282.4	10.0								
20	01	01	1	09	36.2	0.144	0.391	0.005	59.	131.	-7.4	0.17	1.21
0.30	1.03	112.	10.0	286.4	10.0								
20	01	01	1	10	90.0	0.280	0.921	0.005	310.	356.	-21.8	0.14	1.21
0.23	2.46	148.	10.0	289.0	10.0								
20	01	01	1	11	126.8	0.254	1.266	0.005	572.	308.	-11.6	0.16	1.21
0.21	2.01	225.	10.0	290.5	10.0								
20	01	01	1	12	144.1	0.324	1.461	0.005	774.	444.	-21.2	0.16	1.21
0.20	2.77	211.	10.0	291.3	10.0								
20	01	01	1	13	141.4	0.344	1.588	0.005	1011.	485.	-25.8	0.16	1.21
0.20	3.00	210.	10.0	291.2	10.0								
20	01	01	1	14	118.9	0.362	1.554	0.005	1126.	523.	-35.6	0.16	1.21
0.21	3.26	234.	10.0	290.8	10.0								
20	01	01	1	15	77.8	0.368	1.376	0.005	1195.	535.	-56.9	0.16	1.21
0.24	3.44	227.	10.0	290.3	10.0								
20	01	01	1	16	21.2	0.319	0.897	0.005	1212.	434.	-136.4	0.17	1.21
0.33	3.08	244.	10.0	289.4	10.0								
20	01	01	1	17	-7.3	0.092	-9.000	-9.000	-999.	146.	9.7	0.16	1.21
0.61	1.92	236.	10.0	288.2	10.0								
20	01	01	1	18	-8.4	0.098	-9.000	-9.000	-999.	74.	10.0	0.20	1.21
1.00	1.92	193.	10.0	287.3	10.0								
20	01	01	1	19	-6.6	0.086	-9.000	-9.000	-999.	61.	8.6	0.14	1.21

1.00	1.83	140.	10.0	286.6	10.0								
20	01	01	1	20	-2.9	0.057	-9.000	-9.000	-999.	33.	5.7	0.14	1.21
1.00	1.21	144.	10.0	286.2	10.0								
20	01	01	1	21	-3.2	0.060	-9.000	-9.000	-999.	35.	6.0	0.17	1.21
1.00	1.21	99.	10.0	285.3	10.0								
20	01	01	1	22	-5.1	0.075	-9.000	-9.000	-999.	49.	7.3	0.12	1.21
1.00	1.65	76.	10.0	284.8	10.0								
20	01	01	1	23	-2.1	0.048	-9.000	-9.000	-999.	26.	4.8	0.17	1.21
1.00	0.98	99.	10.0	284.5	10.0								
20	01	01	1	24	-4.4	0.069	-9.000	-9.000	-999.	43.	6.6	0.12	1.21
1.00	1.52	78.	10.0	283.8	10.0								

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
20	01	01	01	10.0	1	57.	2.82	283.2	6.0	-99.00	0.29

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

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 19

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002

, L0000003	, L0000004	, L0000005	, L0000006	, L0000007	, L0000008	, L0000009	, L0000010
, L0000011	, L0000012	, L0000013	, L0000014	, L0000015	, L0000016	, L0000017	, L0000018
, L0000019	, L0000020	, L0000021	, L0000022	, L0000023	, L0000024	, L0000025	, L0000026
, L0000027	, L0000028	, . . .					

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)	X-COORD (METERS)
491849.68	490879.18
492043.78	491073.28
492237.88	491267.38
492431.98	491461.48
	491655.58
3628507.56	0.78657
	0.85143
	0.91384
	0.97993
	1.05288

1.11674	1.18958	1.24280	1.30980		
3628311.70	0.85453	0.94140	1.02649	1.11211	1.20402
1.30686	1.38603	1.44045	1.48388		
3628115.84	0.92099	1.03158	1.15084	1.26906	1.39168
1.53653	1.63941	1.71921	1.78011		
3627919.98	0.99246	1.12208	1.27746	1.44748	1.62583
1.81505	1.97355	2.13162	2.18308		
3627724.12	1.07583	1.22191	1.40578	1.63581	1.89872
2.16751	2.42099	2.70782	2.77867		
3627528.26	1.17839	1.34423	1.55419	1.83204	2.18794
2.60665	3.03229	3.47768	3.78251		
3627332.40	1.28417	1.48686	1.73984	2.06159	2.49476
3.09222	3.85792	4.70634	6.07234		
3627136.54	1.38058	1.62102	1.93185	2.34121	2.89109
3.66286	4.83483	6.51661	8.40004		
3626940.68	1.46717	1.74043	2.10480	2.60612	3.32152
4.38933	6.06677	8.95653	14.13097		
3626744.82	1.59922	1.96413	2.31236	2.89139	3.73596
5.20474	7.73164	12.62091	23.90315		
3626548.96	1.83103	2.24424	2.69626	3.72579	4.57408
6.39634	12.83438	21.90377	43.29602		
3626353.10	1.98925	2.63468	3.28095	3.95085	6.82412
7.84381	16.60462	22.41763	24.41576		
3626157.24	2.14708	2.67319	4.15778	5.71635	8.07957
10.34264	13.43035	16.89900	16.03887		
3625961.38	2.41325	3.00175	3.79157	4.86727	7.95267
8.95764	7.40151	7.14996	7.68603		
3625765.52	2.57479	3.29515	3.81096	4.41447	4.76593
4.81488	4.68341	4.59458	6.18207		
3625569.66	2.59817	3.06895	4.03129	4.40694	3.67782
3.74013	3.29529	3.28643	3.54538		
3625373.80	2.39792	2.58455	2.60882	3.36532	3.37101
3.29834	2.64271	2.81535	3.54910		
3625177.94	2.01446	2.54374	2.47286	2.10210	2.60046
2.57331	2.52868	2.08753	2.80782		
3624982.08	1.66617	2.03176	1.91748	2.04042	2.05555
2.06826	2.10235	1.86211	2.32718		
3624786.22	1.62984	1.43159	1.66514	1.69060	1.69950
1.71284	1.77323	1.64544	1.73031		
3624590.36	1.35162	1.34234	1.26929	1.37176	1.40395
1.44829	1.51637	1.58542	1.59346		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 20

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	1.33204	1.31465	1.15826	1.22580	1.20944
1.23475	1.08721	0.29235	0.05131		
3628311.70	1.52123	1.53196	1.34559	1.29325	1.42166
1.46312	0.86218	0.16273	0.04492		
3628115.84	1.80451	1.70077	1.64555	1.98028	1.83986
1.72510	0.64800	0.15251	0.05088		
3627919.98	2.18017	2.12481	2.00837	2.42057	1.53261
1.49605	0.54617	0.10144	0.05694		
3627724.12	2.83016	3.58700	3.37414	2.94285	2.26518
1.43038	0.45094	0.13987	0.07591		
3627528.26	4.25133	3.74279	4.26512	2.81281	2.35399
2.89022	0.81900	0.29134	0.14278		
3627332.40	5.80610	5.45181	5.81186	5.17999	2.53166
1.36038	0.64603	0.36425	0.39149		
3627136.54	9.37093	8.76598	7.17962	5.47573	4.14916
4.10740	0.91475	0.78903	1.22259		
3626940.68	19.21516	17.30439	11.77203	7.60338	5.17544
4.17592	3.68700	2.52857	1.88797		
3626744.82	63.48984	51.89789	19.84282	10.28688	7.05230
4.37530	3.26253	2.55560	2.14496		
3626548.96	188.60316	176.77258	32.04386	11.63094	7.03410
5.56173	4.76368	3.48355	2.30384		
3626353.10	18.64357	18.17277	26.88586	14.78635	8.23199
6.06316	4.30947	3.24067	2.76502		
3626157.24	13.64925	8.36309	11.93907	7.10540	6.32555
7.54101	5.67494	3.31384	2.30683		
3625961.38	9.77660	3.97959	3.81066	4.05510	4.41728
3.96847	5.21251	3.16670	2.52954		

3625765.52	5.99941	2.60850	2.67158	3.28009	4.01189
3.01797	2.36005	2.40656	2.61589		
3625569.66	3.84244	4.07789	2.68846	4.38203	4.12388
2.16611	2.05425	1.98520	1.93844		
3625373.80	3.36543	2.49808	2.95315	3.15373	3.07452
3.18975	2.72019	1.69646	1.63512		
3625177.94	2.62920	2.63675	2.40881	2.75360	2.07124
2.36375	1.42474	1.27923	1.38163		
3624982.08	2.28979	2.02013	1.46705	2.20957	1.35442
1.25253	1.29176	1.13046	1.20253		
3624786.22	1.77113	1.78508	1.22976	1.25698	1.07433
1.02423	1.25273	1.14273	0.99180		
3624590.36	1.63846	1.64224	1.13254	0.79620	1.12980
1.39186	1.43346	1.08918	0.93702		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 21

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)	X-COORD (METERS)		
	494372.98	494567.08	494761.18

3628507.56	0.03697	0.03567	0.03646
3628311.70	0.03910	0.03874	0.03978
3628115.84	0.04433	0.04233	0.04102
3627919.98	0.05191	0.04836	0.04372
3627724.12	0.06142	0.07063	0.04919
3627528.26	0.12948	0.13431	0.06205

3627332.40	0.41036	0.25789	0.07824
3627136.54	0.71327	0.54069	0.22417
3626940.68	1.35660	1.10927	0.78032
3626744.82	1.90576	1.79357	1.51136
3626548.96	1.92778	1.65905	1.44039
3626353.10	1.90591	2.04135	1.51248
3626157.24	2.20086	1.48048	1.76934
3625961.38	2.82495	1.69230	1.94382
3625765.52	2.47252	1.95994	1.87182
3625569.66	2.04074	2.29894	2.04502
3625373.80	1.59469	1.67991	1.63534
3625177.94	1.40347	1.38269	1.40695
3624982.08	1.42877	1.27131	1.48150
3624786.22	1.05730	1.45353	1.38100
3624590.36	1.02511	1.30052	1.16666

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 22

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

492883.25	3625830.80	2.82505	492919.80
3625834.65	2.77321		
492955.07	3625845.55	2.84346	493069.86
3625832.73	2.91121		
493094.87	3625832.73	2.96600	493110.90
3625837.21	3.04904		

493151.95	3625834.01	3.17832	493166.70
3625837.86	3.24759		
493187.86	3625836.57	3.30982	493201.33
3625836.57	3.33741		
493240.44	3625836.57	3.45583	492881.32
3625908.40	3.15951		
492906.98	3625898.14	2.95749	492901.84
3625911.60	3.16718		
492928.14	3625914.81	3.23785	492933.91
3625898.14	2.99135		
492951.87	3625908.40	3.17710	492973.67
3625907.11	3.34592		
492993.55	3625914.17	3.52993	492996.11
3625897.50	3.44814		
493015.99	3625896.85	3.20757	493023.05
3625912.24	3.36253		
493044.21	3625907.11	3.38345	493066.66
3625907.76	3.67821		
493085.25	3625912.24	3.63713	493087.18
3625895.57	3.55709		
493108.98	3625911.60	3.65645	493112.19
3625897.50	3.60165		
493133.99	3625901.98	3.84877	492874.27
3625788.48	2.85421		
492894.15	3625789.12	2.80410	492910.18
3625790.40	2.80470		
492930.70	3625786.55	2.80258	492947.38
3625791.04	2.79457		
492963.41	3625787.84	2.78312	492982.65
3625787.84	2.77276		
492999.96	3625787.84	2.76031	493021.12
3625791.04	2.76020		
493036.52	3625789.12	2.76192	493055.75
3625789.76	2.78386		
493076.28	3625787.84	2.80720	493094.87
3625787.84	2.83972		
493112.83	3625788.48	2.89649	493129.50
3625787.19	2.95350		
493148.74	3625787.19	3.03245	493164.77
3625790.40	3.11073		
493184.65	3625789.12	3.20544	493201.97
3625791.04	3.26726		
493221.21	3625790.40	3.31393	493238.52
3625791.04	3.39354		
492780.00	3626415.01	51.43266	492778.72
3626388.08	33.14755		
492747.94	3626386.16	31.36712	492742.16
3626418.22	45.58463		
492699.20	3626422.71	45.76558	492697.92
3626391.93	31.03228		

492678.68	3626411.81	36.06670	492626.09
3626426.56	30.68895		
492606.85	3626435.54	56.00923	492599.16
3626405.39	29.15383		
492491.20	3626644.88	43.87014	492517.36
3626636.70	53.53756		
492521.18	3626603.45	66.12238	492521.72
3626582.19	74.98692		
492512.46	3626553.84	79.65388	492513.55
3626533.13	83.63561		
492501.01	3626506.42	78.17624	492490.65
3626485.70	77.43009		
492479.21	3626464.45	75.13380	492466.12
3626447.00	69.33493		
492447.59	3626418.66	45.30906	492431.78
3626430.65	47.55143		
492481.93	3626620.35	46.10362	492482.48
3626594.18	52.81800		
492479.21	3626572.92	57.52245	492477.02
3626546.76	63.59166		
492467.76	3626523.32	63.66862	492463.94
3626507.51	65.28109		
492450.86	3626492.79	66.28663	492427.42
3626474.80	63.60162		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 23

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

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

Y-COORD (M)	CONC			
	492402.89	3626460.63	44.45094	492803.94
3626616.07	218.65960			
	492823.25	3626567.17	186.22050	492838.34
3626526.92	134.93429			
	493039.78	3625834.45	2.92773	492791.92
3626663.04	164.53235			
	492731.11	3626741.92	78.64146	492774.75
3626728.05	81.45557			
	492674.05	3626738.96	83.57959	492708.49
3626698.47	157.84066			
	493013.27	3625844.49	2.97783	

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:47:11

PAGE 24

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)					
491849.68	490879.18	491073.28	491267.38	491461.48	491655.58	
492043.78	492237.88	492431.98				
3628507.56	0.26811	0.28534	0.29302	0.35080	0.33037	
0.36586	0.36961	0.37215	0.37610			
3628311.70	0.32587	0.31871	0.32987	0.34022	0.42230	
0.43116	0.42639	0.41406	0.40906			
3628115.84	0.33451	0.36918	0.36441	0.37355	0.42381	
0.50064	0.55656	0.47488	0.46643			
3627919.98	0.32896	0.39055	0.44848	0.41839	0.43989	
0.57774	0.60716	0.57930	0.54851			
3627724.12	0.33508	0.34831	0.45962	0.54021	0.54580	
0.54571	0.70692	0.81810	0.59634			
3627528.26	0.47488	0.44669	0.43197	0.53422	0.64810	

0.64598	0.66155	0.91768	0.79044		
3627332.40		0.49375	0.54836	0.61506	0.57047 0.59627
0.73682	0.79269	0.99458	1.49282		
3627136.54		0.62369	0.63970	0.67912	0.70784 0.80926
0.76575	0.93927	1.06602	1.56973		
3626940.68		0.65173	0.72677	0.83281	0.95441 1.02076
1.10081	1.24679	1.27909	1.64183		
3626744.82		0.69703	0.86009	0.88743	1.03747 1.12734
1.56986	2.12249	2.66122	2.77236		
3626548.96		0.89599	1.06402	1.11705	1.44610 1.55680
1.74221	2.61891	3.65397	5.77003		
3626353.10		1.01691	1.32408	1.53145	1.65562 2.15379
2.20182	3.41467	5.01742	9.18454		
3626157.24		0.98218	1.19507	1.69105	2.02127 2.59570
3.30447	4.18372	5.58045	6.20874		
3625961.38		1.14737	1.39982	1.66180	2.13785 2.90175
3.32643	3.72300	3.49507	3.11128		
3625765.52		1.34666	1.74759	1.86369	1.91494 2.30461
2.53837	2.39415	2.16380	2.20298		
3625569.66		1.36944	1.70914	2.08181	2.46759 2.26228
2.19409	1.64101	1.48647	1.59524		
3625373.80		1.50588	1.70499	1.72184	2.05020 1.93221
1.80546	1.41057	1.39124	1.50132		
3625177.94		1.44595	1.75918	1.65635	1.45288 1.55102
1.32112	1.23752	1.07764	1.21039		
3624982.08		1.20682	1.39280	1.37530	1.30872 1.17435
1.07072	1.05502	0.98599	1.10418		
3624786.22		1.30011	1.15610	1.11119	1.09197 0.95029
0.94879	0.94925	0.92763	0.93484		
3624590.36		1.03425	0.97091	0.89673	0.85389 0.86487
0.80782	0.84816	0.83876	0.86758		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 25

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD |

X-COORD (METERS)

(METERS)	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -

3628507.56	0.35267	0.35493	0.29890	0.32786	0.27008
0.26282	0.21520	0.27039	0.14551		
3628311.70	0.38128	0.40213	0.34177	0.33853	0.31196
0.28636	0.24307	0.32920	0.11965		
3628115.84	0.43757	0.41668	0.40302	0.42949	0.36094
0.29702	0.33634	0.33596	0.13563		
3627919.98	0.46813	0.49928	0.45043	0.48141	0.39880
0.35717	0.38349	0.24373	0.15301		
3627724.12	0.55675	0.74945	0.68835	0.54505	0.40762
0.46454	0.42725	0.33628	0.19367		
3627528.26	0.82785	0.78434	0.82964	0.63853	0.56924
0.50585	0.46061	0.46850	0.32857		
3627332.40	1.08616	1.06964	1.04251	0.76620	0.71601
0.60151	0.56555	0.56453	0.46965		
3627136.54	1.35637	1.31788	1.07345	0.86067	0.74532
0.77531	0.69773	0.53262	0.45003		
3626940.68	3.01929	2.20623	1.65784	1.25607	1.16347
0.92181	0.76889	0.62256	0.55474		
3626744.82	4.86777	5.59971	3.94901	2.75995	1.71605
1.10553	0.89471	0.74616	0.68400		
3626548.96	12.34401	88.21702	13.00008	5.89630	3.17667
2.09430	1.66232	1.30281	0.98766		
3626353.10	16.24160	13.55796	17.43945	12.17622	6.02443
3.56797	2.41754	1.82846	1.40537		
3626157.24	5.35085	6.10332	8.81954	8.06038	5.86384
4.84264	3.41558	2.51781	1.87742		
3625961.38	3.05786	3.74874	4.93640	5.75248	4.85297
3.61326	3.43595	2.93250	2.31321		
3625765.52	2.22618	2.73430	3.37866	4.02564	3.99658
3.48934	2.71660	2.47949	2.34739		
3625569.66	1.68458	1.93433	2.43848	2.92567	3.05472
2.89948	2.63811	2.07290	1.88889		
3625373.80	1.56213	1.74499	1.51228	2.07524	2.24986
2.61931	2.22878	2.13377	1.74292		
3625177.94	1.31169	1.43893	1.46275	1.93574	1.98827
2.19443	2.05898	1.79613	1.72844		
3624982.08	1.11649	1.20583	1.23573	1.59192	1.66327
1.74887	1.88905	1.65672	1.48886		
3624786.22	0.93850	1.05474	1.09004	1.33478	1.43845
1.46333	1.58784	1.57962	1.35797		
3624590.36	0.88932	0.94662	0.94923	1.14295	1.25494
1.26989	1.30492	1.45264	1.30569		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:47:11

PAGE 26

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)		
	494372.98	494567.08	494761.18
3628507.56	0.09634	0.09070	0.08905
3628311.70	0.10451	0.09646	0.09708
3628115.84	0.11090	0.10684	0.10474
3627919.98	0.13085	0.12493	0.11683
3627724.12	0.16208	0.19724	0.13978
3627528.26	0.32441	0.30451	0.14728
3627332.40	0.38152	0.37292	0.19445
3627136.54	0.43117	0.39360	0.38821
3626940.68	0.48005	0.43540	0.40137
3626744.82	0.62036	0.60183	0.53420
3626548.96	0.86182	0.75118	0.66084
3626353.10	1.22210	1.06578	0.89509
3626157.24	1.41086	1.17643	0.99430
3625961.38	1.92109	1.55538	1.32967
3625765.52	2.00696	1.72367	1.48233
3625569.66	1.91329	1.79000	1.50972
3625373.80	1.55125	1.49460	1.49391
3625177.94	1.43414	1.25228	1.24296
3624982.08	1.46189	1.18380	1.01163
3624786.22	1.25329	1.24470	1.06569
3624590.36	1.11750	1.08716	1.05945

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:47:11

PAGE 27

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: STCK1

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	2.98227	492919.80
3625834.65	3.04386		
492955.07	3625845.55	3.42296	493069.86
3625832.73	4.01683		
493094.87	3625832.73	4.09932	493110.90
3625837.21	4.20474		
493151.95	3625834.01	4.36206	493166.70
3625837.86	4.45887		
493187.86	3625836.57	4.52607	493201.33
3625836.57	4.56740		
493240.44	3625836.57	4.63246	492881.32
3625908.40	3.36756		
492906.98	3625898.14	3.38054	492901.84
3625911.60	3.46745		
492928.14	3625914.81	3.63061	492933.91
3625898.14	3.57441		
492951.87	3625908.40	3.87226	492973.67
3625907.11	4.09280		
492993.55	3625914.17	4.32776	492996.11
3625897.50	4.19934		
493015.99	3625896.85	4.31856	493023.05
3625912.24	4.48756		
493044.21	3625907.11	4.53180	493066.66
3625907.76	4.63949		
493085.25	3625912.24	4.78734	493087.18
3625895.57	4.62578		
493108.98	3625911.60	4.91673	493112.19
3625897.50	4.78271		
493133.99	3625901.98	4.94923	492874.27
3625788.48	2.82768		
492894.15	3625789.12	2.83174	492910.18
3625790.40	2.80877		
492930.70	3625786.55	2.86964	492947.38
3625791.04	3.00103		
492963.41	3625787.84	3.12757	492982.65
3625787.84	3.29064		
492999.96	3625787.84	3.42212	493021.12

3625791.04	3.57351		
493036.52	3625789.12	3.63313	493055.75
3625789.76	3.70067		
493076.28	3625787.84	3.73660	493094.87
3625787.84	3.77866		
493112.83	3625788.48	3.83828	493129.50
3625787.19	3.89161		
493148.74	3625787.19	3.96752	493164.77
3625790.40	4.05559		
493184.65	3625789.12	4.12218	493201.97
3625791.04	4.19701		
493221.21	3625790.40	4.24823	493238.52
3625791.04	4.29221		
492780.00	3626415.01	23.71054	492778.72
3626388.08	18.16523		
492747.94	3626386.16	18.88537	492742.16
3626418.22	27.26878		
492699.20	3626422.71	28.27319	492697.92
3626391.93	21.99347		
492678.68	3626411.81	24.95680	492626.09
3626426.56	21.47011		
492606.85	3626435.54	19.66001	492599.16
3626405.39	18.54130		
492491.20	3626644.88	5.68774	492517.36
3626636.70	6.24258		
492521.18	3626603.45	7.05618	492521.72
3626582.19	7.62466		
492512.46	3626553.84	8.10131	492513.55
3626533.13	8.81255		
492501.01	3626506.42	9.08056	492490.65
3626485.70	9.39411		
492479.21	3626464.45	9.60660	492466.12
3626447.00	9.36765		
492447.59	3626418.66	9.12848	492431.78
3626430.65	8.31953		
492481.93	3626620.35	5.91311	492482.48
3626594.18	6.31734		
492479.21	3626572.92	6.71095	492477.02
3626546.76	7.27785		
492467.76	3626523.32	7.53745	492463.94
3626507.51	7.88839		
492450.86	3626492.79	7.83873	492427.42
3626474.80	7.66950		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:47:11

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM ₁₀ IN MICROGRAMS/M**3			
**			
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

492402.89	3626460.63	7.07228	492803.94
3626616.07	14.14473		
492823.25	3626567.17	63.35507	492838.34
3626526.92	81.52801		
493039.78	3625834.45	3.94111	492791.92
3626663.04	9.22123		
492731.11	3626741.92	8.27338	492774.75
3626728.05	6.00659		
492674.05	3626738.96	6.54442	492708.49
3626698.47	8.72048		
493013.27	3625844.49	3.89235	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 29
*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2

INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM ₁₀ IN MICROGRAMS/M**3			
**			
Y-COORD (METERS)	X-COORD (METERS)		
491849.68	490879.18	491073.28	491267.38
492043.78	492237.88	492431.98	491461.48
			491655.58

3628507.56		0.19588	0.21880	0.23532	0.23619	0.25745
0.25350		0.24037	0.20846	0.24338		
3628311.70		0.21730	0.22590	0.25745	0.25975	0.28322
0.28674		0.28788	0.24844	0.25856		
3628115.84		0.25409	0.25146	0.26915	0.30551	0.29831
0.32966		0.32206	0.29589	0.27852		
3627919.98		0.28206	0.29108	0.28211	0.31734	0.34239
0.36838		0.36795	0.35404	0.29798		
3627724.12		0.30721	0.32721	0.33350	0.33391	0.37992
0.39513		0.42146	0.41883	0.33782		
3627528.26		0.31207	0.34674	0.38076	0.39357	0.39289
0.44654		0.46804	0.47808	0.43298		
3627332.40		0.28649	0.35443	0.41027	0.45347	0.45079
0.46920		0.51995	0.57281	0.59046		
3627136.54		0.30115	0.32434	0.39750	0.48517	0.52850
0.53169		0.56531	0.61657	0.64933		
3626940.68		0.39441	0.38919	0.38491	0.44122	0.55847
0.63803		0.64901	0.72112	0.79381		
3626744.82		0.41285	0.48650	0.51229	0.48725	0.51894
0.68879		0.85131	0.89926	0.94194		
3626548.96		0.49977	0.53715	0.56578	0.65703	0.67997
0.66756		0.94026	1.18686	1.20178		
3626353.10		0.54943	0.63623	0.71354	0.75753	0.90586
0.90444		1.08378	1.29642	1.82532		
3626157.24		0.54700	0.62968	0.76726	0.90179	1.09619
1.24435		1.42136	1.80087	2.00946		
3625961.38		0.57919	0.65066	0.76895	0.89161	1.10532
1.32554		1.54446	2.03257	2.89153		
3625765.52		0.76481	0.90766	1.07253	1.24347	1.49697
1.80177		2.29157	3.03697	4.76919		
3625569.66		0.89978	1.07337	1.29439	1.54285	1.75936
2.18916		2.78116	4.06735	6.05983		
3625373.80		0.96045	1.16054	1.37229	1.88627	2.50798
3.20663		3.56713	4.58677	5.38791		
3625177.94		1.16724	1.59391	1.89955	2.18646	2.78308
3.29155		3.71335	3.12388	3.18519		
3624982.08		1.43051	1.77169	1.97042	2.29402	2.72113
2.80295		2.63906	2.14836	2.05352		
3624786.22		1.51827	1.69327	2.04254	2.28618	2.16081
2.10168		1.88610	1.51989	1.50174		
3624590.36		1.53090	1.74955	1.76487	1.75014	1.66964
1.60499		1.40853	1.33579	1.27897		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

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

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

Y-COORD (METERS)					X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48	
493596.58	493790.68	493984.78	494178.88			

- - - - -
 - - - - -

3628507.56	0.27894	0.24441	0.21078	0.19851	0.20349
0.20036	0.17549	0.17765	0.11292		
3628311.70	0.29754	0.28518	0.23129	0.22222	0.22582
0.21727	0.20579	0.19991	0.07453		
3628115.84	0.33309	0.29322	0.26139	0.27397	0.26998
0.23664	0.23848	0.21278	0.07934		
3627919.98	0.34607	0.34324	0.29945	0.30921	0.31552
0.26014	0.26791	0.26291	0.10056		
3627724.12	0.37994	0.45392	0.38595	0.34398	0.31982
0.30258	0.28160	0.27221	0.16862		
3627528.26	0.44728	0.46038	0.43606	0.42239	0.39605
0.31979	0.28432	0.27842	0.33550		
3627332.40	0.47978	0.54768	0.49982	0.47012	0.44304
0.38236	0.31406	0.34272	0.28665		
3627136.54	0.54555	0.61589	0.53771	0.48971	0.40479
0.38271	0.41855	0.37992	0.30690		
3626940.68	0.71533	0.73408	0.66559	0.59908	0.48514
0.41055	0.45016	0.34234	0.34019		
3626744.82	1.05338	0.96025	0.89451	0.78186	0.60932
0.52960	0.43724	0.38773	0.34639		
3626548.96	1.34338	1.39046	1.24590	1.11772	0.84734
0.64055	0.58056	0.51104	0.43877		
3626353.10	2.15961	2.27416	1.88909	1.51637	1.20605
0.96986	0.83960	0.59872	0.46713		
3626157.24	2.91868	4.27781	4.03158	2.75009	2.05076
1.36153	0.99707	0.79025	0.69238		
3625961.38	4.67305	8.05215	12.57255	7.62526	3.35796
1.96631	1.36849	1.10629	0.95789		
3625765.52	8.12736	28.47545	46.24789	25.82185	7.55679
3.91811	2.62360	1.95773	1.55194		
3625569.66	8.76498	7.83973	10.29936	10.64646	8.14672
6.06859	3.68649	2.54467	1.82094		
3625373.80	4.18261	4.31217	3.90185	4.51655	4.39063

4.27344	4.17346	3.29114	2.58648		
3625177.94	2.46528	2.74363	2.93863	3.13972	3.62777
3.23229	3.12881	3.01656	2.75672		
3624982.08	2.03196	2.12023	2.27357	2.41097	2.54220
2.59774	2.50387	2.32937	2.22366		
3624786.22	1.49386	1.77880	1.84083	1.98526	1.99741
2.22392	2.00111	2.01075	1.86243		
3624590.36	1.36017	1.40121	1.50828	1.55943	1.61343
1.62853	1.86522	1.59049	1.65695		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 31

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2
 INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)	X-COORD (METERS)		
	494372.98	494567.08	494761.18
3628507.56	0.05619	0.06943	0.07656
3628311.70	0.07063	0.07663	0.07988
3628115.84	0.08866	0.08699	0.07337
3627919.98	0.10574	0.09698	0.07556
3627724.12	0.13369	0.16037	0.09814
3627528.26	0.28600	0.24844	0.12854
3627332.40	0.26653	0.23538	0.18314
3627136.54	0.29960	0.28558	0.23827
3626940.68	0.31481	0.29081	0.30949
3626744.82	0.35769	0.31293	0.26510
3626548.96	0.33449	0.30054	0.28396
3626353.10	0.45978	0.38600	0.36592
3626157.24	0.56789	0.50291	0.39115
3625961.38	0.73202	0.72791	0.58366
3625765.52	1.18169	1.01137	0.77443
3625569.66	1.45629	1.13522	0.96326
3625373.80	2.00201	1.53900	1.24019
3625177.94	2.27077	1.93405	1.52617

3624982.08		2.22641	2.02096	1.69908
3624786.22		1.72144	1.75620	1.72411
3624590.36		1.55702	1.31157	1.40776

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 *** ***
 *** 15:47:11

PAGE 32

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

492883.25	3625830.80	29.32408	492919.80
3625834.65	34.02772		
492955.07	3625845.55	24.61279	493069.86
3625832.73	104.37471		
493094.87	3625832.73	68.58691	493110.90
3625837.21	43.04331		
493151.95	3625834.01	27.86336	493166.70
3625837.86	22.57731		
493187.86	3625836.57	18.77872	493201.33
3625836.57	16.71680		
493240.44	3625836.57	12.82748	492881.32
3625908.40	12.62236		
492906.98	3625898.14	14.39100	492901.84
3625911.60	13.52802		
492928.14	3625914.81	14.48502	492933.91
3625898.14	15.41414		
492951.87	3625908.40	15.37192	492973.67
3625907.11	16.09717		
492993.55	3625914.17	16.93656	492996.11
3625897.50	17.51980		
493015.99	3625896.85	21.80806	493023.05
3625912.24	19.61069		
493044.21	3625907.11	21.21187	493066.66
3625907.76	21.68297		
493085.25	3625912.24	17.95507	493087.18

3625895.57	23.76327		
493108.98	3625911.60	17.01445	493112.19
3625897.50	19.32664		
493133.99	3625901.98	16.28261	492874.27
3625788.48	38.36979		
492894.15	3625789.12	44.42750	492910.18
3625790.40	48.88805		
492930.70	3625786.55	51.56574	492947.38
3625791.04	54.95082		
492963.41	3625787.84	50.39496	492982.65
3625787.84	51.22654		
492999.96	3625787.84	58.24440	493021.12
3625791.04	78.47407		
493036.52	3625789.12	80.12173	493055.75
3625789.76	85.24800		
493076.28	3625787.84	86.28154	493094.87
3625787.84	77.03139		
493112.83	3625788.48	57.98634	493129.50
3625787.19	50.03636		
493148.74	3625787.19	41.37317	493164.77
3625790.40	35.25945		
493184.65	3625789.12	29.17839	493201.97
3625791.04	24.76927		
493221.21	3625790.40	20.85268	493238.52
3625791.04	17.66427		
492780.00	3626415.01	1.94262	492778.72
3626388.08	2.09457		
492747.94	3626386.16	2.13559	492742.16
3626418.22	1.98703		
492699.20	3626422.71	1.97406	492697.92
3626391.93	2.10233		
492678.68	3626411.81	2.01261	492626.09
3626426.56	1.91171		
492606.85	3626435.54	1.81247	492599.16
3626405.39	1.92338		
492491.20	3626644.88	1.18416	492517.36
3626636.70	1.21786		
492521.18	3626603.45	1.28664	492521.72
3626582.19	1.31151		
492512.46	3626553.84	1.35557	492513.55
3626533.13	1.38178		
492501.01	3626506.42	1.40547	492490.65
3626485.70	1.44812		
492479.21	3626464.45	1.50091	492466.12
3626447.00	1.56374		
492447.59	3626418.66	1.68274	492431.78
3626430.65	1.62496		
492481.93	3626620.35	1.21447	492482.48
3626594.18	1.25617		
492479.21	3626572.92	1.28453	492477.02

3626546.76	1.31394		
492467.76	3626523.32	1.34700	492463.94
3626507.51	1.36181		
492450.86	3626492.79	1.39817	492427.42

3626474.80	1.46135

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 33

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***
INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	1.54147	492803.94
3626616.07	1.24863		
492823.25	3626567.17	1.33111	492838.34
3626526.92	1.44492		
493039.78	3625834.45	156.36088	492791.92
3626663.04	1.12408		
492731.11	3626741.92	0.98843	492774.75
3626728.05	1.00739		
492674.05	3626738.96	1.06542	492708.49
3626698.47	1.12051		
493013.27	3625844.49	107.83633	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 34

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

- - - - -

3628507.56	0.28658	0.29186	0.28412	0.34532	0.34213
0.41533	0.41108	0.36957	0.40953		
3628311.70	0.29303	0.32455	0.34611	0.33559	0.40003
0.44875	0.50152	0.43282	0.43507		
3628115.84	0.32104	0.34580	0.39603	0.39298	0.43419
0.49056	0.57334	0.52953	0.49096		
3627919.98	0.27637	0.34730	0.42186	0.45609	0.49610
0.58263	0.57455	0.68966	0.57153		
3627724.12	0.35378	0.33702	0.38581	0.48697	0.58794
0.59100	0.64548	0.82799	0.65039		
3627528.26	0.44380	0.47998	0.44163	0.48105	0.61303
0.72457	0.70222	0.79357	0.98704		
3627332.40	0.49050	0.49163	0.57867	0.65395	0.60585
0.67109	0.84622	1.07113	1.46123		
3627136.54	0.60851	0.65353	0.70797	0.71961	0.78138
0.84644	0.83881	1.16181	1.51535		
3626940.68	0.56069	0.63782	0.74463	0.87805	1.01215
1.18583	1.26509	1.49038	2.06478		
3626744.82	0.66778	0.77744	0.83554	0.98260	1.07534
1.49483	1.96732	2.88303	3.80775		
3626548.96	0.87013	1.04270	1.07072	1.43482	1.66072
1.86149	2.86196	4.37586	7.81619		
3626353.10	0.95933	1.22644	1.40891	1.51181	2.06125
2.29072	3.69152	5.46932	8.38051		
3626157.24	0.88996	1.14241	1.67265	2.03522	2.59933
3.01665	3.76579	4.25312	3.86254		
3625961.38	1.18186	1.33561	1.59893	1.91907	2.60395
2.95373	2.71332	2.45494	2.23460		
3625765.52	1.27991	1.60178	1.69015	1.82026	2.02455
1.91699	1.83744	1.60455	1.76545		
3625569.66	1.33107	1.62296	1.92336	1.95099	1.80038
1.66516	1.24344	1.18316	1.27363		
3625373.80	1.31065	1.49553	1.45129	1.58309	1.47128
1.32801	1.14044	1.13190	1.12687		
3625177.94	1.21293	1.40855	1.29044	1.19915	1.13674
1.03740	1.00467	0.87302	1.01188		
3624982.08	1.05009	1.17035	1.08253	1.03260	0.88646

0.88323	0.91027	0.84217	0.92659		
3624786.22		1.04920	0.93144	0.89134	0.82399 0.79771
0.78038	0.78328	0.72919	0.82082		
3624590.36		0.84437	0.84960	0.70349	0.70526 0.70770
0.72137	0.69227	0.64134	0.72211		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 35

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD					X-COORD (METERS)
(METERS)		492626.08	492820.18	493014.28	493208.38 493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56		0.37037	0.33508	0.29251	0.29680	0.26046
0.23860	0.20476	0.25356	0.13465			
3628311.70		0.42458	0.37945	0.31372	0.30758	0.28636
0.24934	0.25715	0.30902	0.12877			
3628115.84		0.47874	0.41047	0.38958	0.39272	0.33112
0.29160	0.30652	0.30987	0.14097			
3627919.98		0.52055	0.48802	0.44408	0.43936	0.35343
0.37619	0.33174	0.26909	0.15529			
3627724.12		0.63122	0.74074	0.65089	0.51772	0.40599
0.42296	0.39355	0.34124	0.19831			
3627528.26		0.95757	0.80498	0.79322	0.58284	0.57244
0.48023	0.42413	0.44305	0.36515			
3627332.40		1.30602	1.12148	0.97603	0.79495	0.66543
0.58072	0.56713	0.51760	0.40162			
3627136.54		1.79328	1.54094	1.07195	0.86424	0.78527
0.78137	0.59582	0.51332	0.43777			
3626940.68		3.23832	3.02499	1.92459	1.53057	1.14519
0.92177	0.73294	0.59827	0.52281			
3626744.82		7.98255	10.64202	5.62788	2.70116	1.70324
1.09121	0.89339	0.76776	0.67704			
3626548.96		19.97434	21.14829	19.12963	7.39871	3.57895

2.20822	1.68901	1.31379	1.00552		
3626353.10	7.62067	8.16940	9.18058	8.28633	5.58893
3.54347	2.36420	1.70860	1.32295		
3626157.24	3.59855	4.29224	4.02052	4.74109	4.11467
3.79678	3.12069	2.27779	1.77947		
3625961.38	2.38721	2.79205	2.64032	2.87861	3.06371
2.78379	2.59373	2.45590	2.09774		
3625765.52	1.80145	2.14275	1.95379	2.02322	2.19531
2.20180	2.06863	1.93463	1.93477		
3625569.66	1.40644	1.63445	1.52611	1.53001	1.66784
1.81347	1.73550	1.63766	1.51837		
3625373.80	1.16518	1.35793	1.13665	1.25054	1.23648
1.45175	1.43762	1.46080	1.40307		
3625177.94	1.03849	1.15112	1.01985	1.12277	1.08875
1.20465	1.25413	1.23554	1.21842		
3624982.08	0.94951	0.94700	0.88559	0.97868	0.97107
0.98141	1.09688	1.06565	1.02059		
3624786.22	0.77482	0.84156	0.77673	0.86401	0.85262
0.83220	0.92656	0.93397	0.93814		
3624590.36	0.73414	0.76289	0.67582	0.78812	0.77043
0.72185	0.72667	0.84550	0.83566		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 36

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3
 INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)				X-COORD (METERS)
	494372.98	494567.08	494761.18	

3628507.56	0.10065	0.09692	0.09602
3628311.70	0.10871	0.10148	0.09896
3628115.84	0.11916	0.11299	0.10798
3627919.98	0.13660	0.13205	0.14064
3627724.12	0.18249	0.20355	0.13081
3627528.26	0.30573	0.28808	0.15647

3627332.40	0.35228	0.35683	0.20947
3627136.54	0.39375	0.36794	0.37691
3626940.68	0.45160	0.39801	0.37780
3626744.82	0.60605	0.55749	0.48367
3626548.96	0.85210	0.73603	0.65673
3626353.10	1.09087	0.92989	0.79233
3626157.24	1.43017	1.13388	0.92789
3625961.38	1.72398	1.36443	1.21554
3625765.52	1.73772	1.51896	1.32549
3625569.66	1.51199	1.50852	1.33376
3625373.80	1.29498	1.21756	1.27669
3625177.94	1.22377	1.08058	1.02630
3624982.08	1.05845	1.02559	0.94692
3624786.22	0.87909	0.92337	0.90122
3624590.36	0.80978	0.72086	0.77447

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 37

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: STCK3
 INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	2.13351	492919.80
3625834.65	2.00066		
492955.07	3625845.55	2.10150	493069.86
3625832.73	2.20103		
493094.87	3625832.73	2.16950	493110.90
3625837.21	2.16974		
493151.95	3625834.01	2.14934	493166.70
3625837.86	2.17766		
493187.86	3625836.57	2.24255	493201.33
3625836.57	2.23654		
493240.44	3625836.57	2.31285	492881.32
3625908.40	2.32639		
492906.98	3625898.14	2.21761	492901.84

3625911.60	2.25882		
492928.14	3625914.81	2.27370	492933.91
3625898.14	2.22875		
492951.87	3625908.40	2.29616	492973.67
3625907.11	2.33954		
492993.55	3625914.17	2.40344	492996.11
3625897.50	2.34847		
493015.99	3625896.85	2.36566	493023.05
3625912.24	2.44475		
493044.21	3625907.11	2.42858	493066.66
3625907.76	2.39483		
493085.25	3625912.24	2.42543	493087.18
3625895.57	2.34439		
493108.98	3625911.60	2.40871	493112.19
3625897.50	2.35932		
493133.99	3625901.98	2.38710	492874.27
3625788.48	2.02964		
492894.15	3625789.12	1.96903	492910.18
3625790.40	1.92416		
492930.70	3625786.55	1.88364	492947.38
3625791.04	1.91733		
492963.41	3625787.84	1.93599	492982.65
3625787.84	1.96081		
492999.96	3625787.84	2.00589	493021.12
3625791.04	2.04366		
493036.52	3625789.12	2.05489	493055.75
3625789.76	2.05537		
493076.28	3625787.84	2.05631	493094.87
3625787.84	2.07531		
493112.83	3625788.48	2.04734	493129.50
3625787.19	2.03295		
493148.74	3625787.19	2.03241	493164.77
3625790.40	2.02763		
493184.65	3625789.12	2.04045	493201.97
3625791.04	2.07441		
493221.21	3625790.40	2.10460	493238.52
3625791.04	2.14023		
492780.00	3626415.01	11.61299	492778.72
3626388.08	10.13946		
492747.94	3626386.16	9.26419	492742.16
3626418.22	10.73140		
492699.20	3626422.71	10.80915	492697.92
3626391.93	8.94235		
492678.68	3626411.81	10.32824	492626.09
3626426.56	12.43496		
492606.85	3626435.54	13.70546	492599.16
3626405.39	11.02074		
492491.20	3626644.88	7.28575	492517.36
3626636.70	8.26363		
492521.18	3626603.45	10.11010	492521.72

3626582.19	11.21781		
492512.46	3626553.84	11.71892	492513.55
3626533.13	12.41215		
492501.01	3626506.42	12.15938	492490.65
3626485.70	12.01461		
492479.21	3626464.45	11.61731	492466.12
3626447.00	11.03286		
492447.59	3626418.66	10.01201	492431.78
3626430.65	9.64469		
492481.93	3626620.35	7.72069	492482.48
3626594.18	8.78317		
492479.21	3626572.92	9.37030	492477.02
3626546.76	10.08318		
492467.76	3626523.32	10.22582	492463.94
3626507.51	10.34248		
492450.86	3626492.79	10.13941	492427.42
3626474.80	9.39046		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:47:11

PAGE 38

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	8.66141	492803.94
3626616.07	83.71425		
492823.25	3626567.17	27.58239	492838.34
3626526.92	18.49818		
493039.78	3625834.45	2.18737	492791.92
3626663.04	63.15476		
492731.11	3626741.92	12.22308	492774.75
3626728.05	11.07360		
492674.05	3626738.96	10.97675	492708.49
3626698.47	18.73922		
493013.27	3625844.49	2.18715	

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:47:11

PAGE 39

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58	
491849.68	492043.78	492237.88	492431.98			

3628507.56	0.29481	0.30805	0.30245	0.32756	0.35215
0.38965	0.38638	0.34528	0.37683		
3628311.70	0.31492	0.33474	0.35500	0.35154	0.39293
0.44056	0.45645	0.41365	0.40501		
3628115.84	0.30635	0.35384	0.38989	0.41278	0.43454
0.49962	0.53947	0.50371	0.46443		
3627919.98	0.29988	0.33765	0.40856	0.45778	0.52738
0.56219	0.59735	0.64477	0.55060		
3627724.12	0.38379	0.37131	0.38912	0.49283	0.59680
0.67082	0.65311	0.82996	0.63054		
3627528.26	0.45455	0.48492	0.50059	0.53451	0.62157
0.73217	0.78357	0.85709	0.97822		
3627332.40	0.53619	0.57268	0.62745	0.67923	0.70045
0.70637	0.86817	1.19053	1.61226		
3627136.54	0.59737	0.66878	0.73254	0.79605	0.88109
0.95524	1.01657	1.29479	1.79393		
3626940.68	0.60212	0.66491	0.76155	0.86965	1.03666
1.26434	1.60609	2.04555	2.71348		
3626744.82	0.83837	0.97696	1.04190	1.20083	1.32003
1.83190	2.59001	3.95190	5.78796		
3626548.96	1.05385	1.22593	1.29610	1.65513	1.90847
2.28527	3.63896	6.12590	11.33620		
3626353.10	1.03113	1.31776	1.53468	1.84754	2.35853
2.82081	4.15547	5.59933	5.86384		
3626157.24	1.04465	1.35035	1.85468	2.16547	2.54498

3.08694	3.37263	3.27177	2.85494		
3625961.38	1.27561	1.37976	1.62259	2.07301	2.46567
2.50507	2.19619	1.88759	1.92244		
3625765.52	1.29052	1.65669	1.78974	1.69288	1.71526
1.61045	1.45623	1.37407	1.46131		
3625569.66	1.39888	1.59034	1.69410	1.60475	1.47701
1.34208	1.05894	1.10964	1.16554		
3625373.80	1.29568	1.32784	1.25775	1.26095	1.17147
1.02158	1.02011	1.02024	1.05881		
3625177.94	1.06614	1.19778	1.13327	1.01983	0.91077
0.89591	0.88087	0.87696	0.92639		
3624982.08	0.93202	0.98117	0.93177	0.84923	0.77998
0.78582	0.78695	0.77854	0.83416		
3624786.22	0.89295	0.80609	0.80802	0.72519	0.71887
0.70153	0.71167	0.71041	0.75128		
3624590.36	0.77173	0.73713	0.64051	0.64887	0.65502
0.63668	0.66675	0.67091	0.69647		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 40

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	0.37732	0.39647	0.31981	0.32351	0.28462
0.25881	0.26274	0.30123	0.15536		
3628311.70	0.42505	0.45767	0.35055	0.32784	0.31271
0.29486	0.30976	0.28873	0.14936		
3628115.84	0.48830	0.48637	0.42729	0.41168	0.35148
0.35428	0.35621	0.29810	0.16625		
3627919.98	0.52181	0.59479	0.47712	0.46242	0.43444
0.41040	0.39251	0.26673	0.18374		
3627724.12	0.62123	0.93644	0.66888	0.54707	0.51586

0.45665	0.45966	0.33832	0.25138		
3627528.26		0.95752	1.00210	0.82148	0.72025 0.62272
0.52408	0.52747	0.49681	0.34674		
3627332.40		1.33521	1.41332	1.12924	0.97015 0.80758
0.73811	0.66651	0.55065	0.47985		
3627136.54		1.91048	1.90565	1.41004	1.14164 1.03086
0.85314	0.74661	0.61868	0.49487		
3626940.68		4.30311	3.13011	2.87902	1.90578 1.37689
1.04028	0.81062	0.67803	0.59058		
3626744.82		20.01638	18.54391	8.42672	4.06008 2.49376
1.55633	1.19033	0.97650	0.82017		
3626548.96		14.59241	18.16964	15.42378	8.11911 4.18645
2.52419	1.76261	1.36182	1.08656		
3626353.10		4.98681	6.72663	7.57239	6.29713 4.94291
3.54947	2.48618	1.82453	1.41128		
3626157.24		2.89488	3.87545	3.90087	4.01178 3.59240
3.18620	2.81592	2.27731	1.80572		
3625961.38		1.94988	2.59853	2.55648	2.93520 2.69941
2.52787	2.30868	2.14783	1.95815		
3625765.52		1.46644	2.00283	1.96870	2.11181 2.25503
2.07661	1.94706	1.80007	1.70211		
3625569.66		1.18766	1.57716	1.61142	1.61447 1.82616
1.75976	1.67132	1.56352	1.47749		
3625373.80		1.07597	1.34678	1.26597	1.33054 1.39983
1.60029	1.39825	1.39437	1.33402		
3625177.94		0.93411	1.10298	1.09110	1.17467 1.20448
1.30872	1.32130	1.16961	1.16596		
3624982.08		0.83992	0.97342	0.96887	1.03868 1.05165
1.05850	1.16343	1.11008	0.99951		
3624786.22		0.75542	0.84168	0.86033	0.93493 0.90101
0.93313	1.00460	1.03817	0.92977		
3624590.36		0.70047	0.74414	0.78134	0.82813 0.81990
0.80760	0.81640	0.92349	0.91255		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:47:11

PAGE 41

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	494372.98	494567.08	494761.18
3628507.56	0.11970	0.11362	0.11146
3628311.70	0.12626	0.12024	0.12076
3628115.84	0.13931	0.12993	0.13503
3627919.98	0.16693	0.16755	0.14903
3627724.12	0.21226	0.20591	0.15180
3627528.26	0.29243	0.28413	0.19227
3627332.40	0.42533	0.37988	0.22544
3627136.54	0.46488	0.42921	0.38152
3626940.68	0.52248	0.47648	0.44367
3626744.82	0.72015	0.62771	0.56146
3626548.96	0.92394	0.80213	0.70440
3626353.10	1.12297	0.92486	0.78063
3626157.24	1.44718	1.17358	1.00287
3625961.38	1.64955	1.39740	1.17873
3625765.52	1.62874	1.50149	1.29663
3625569.66	1.38719	1.35387	1.30372
3625373.80	1.24847	1.16293	1.13673
3625177.94	1.14606	1.07732	1.01567
3624982.08	1.03394	0.99155	0.93174
3624786.22	0.90036	0.89885	0.88276
3624590.36	0.82448	0.76643	0.80972

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 42

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	2.14509	492919.80

3625834.65	2.10292		
492955.07	3625845.55	2.13325	493069.86
3625832.73	2.14400		
493094.87	3625832.73	2.16836	493110.90
3625837.21	2.19855		
493151.95	3625834.01	2.23211	493166.70
3625837.86	2.27204		
493187.86	3625836.57	2.30463	493201.33
3625836.57	2.32739		
493240.44	3625836.57	2.38107	492881.32
3625908.40	2.37306		
492906.98	3625898.14	2.28640	492901.84
3625911.60	2.32920		
492928.14	3625914.81	2.32118	492933.91
3625898.14	2.27430		
492951.87	3625908.40	2.31923	492973.67
3625907.11	2.33701		
492993.55	3625914.17	2.37827	492996.11
3625897.50	2.33110		
493015.99	3625896.85	2.34355	493023.05
3625912.24	2.39438		
493044.21	3625907.11	2.39812	493066.66
3625907.76	2.39325		
493085.25	3625912.24	2.42956	493087.18
3625895.57	2.37727		
493108.98	3625911.60	2.43492	493112.19
3625897.50	2.39097		
493133.99	3625901.98	2.47278	492874.27
3625788.48	2.03554		
492894.15	3625789.12	2.01777	492910.18
3625790.40	2.00421		
492930.70	3625786.55	1.97639	492947.38
3625791.04	1.99743		
492963.41	3625787.84	2.00536	492982.65
3625787.84	2.02405		
492999.96	3625787.84	2.03189	493021.12
3625791.04	2.04899		
493036.52	3625789.12	2.05037	493055.75
3625789.76	2.06361		
493076.28	3625787.84	2.06569	493094.87
3625787.84	2.05762		
493112.83	3625788.48	2.04896	493129.50
3625787.19	2.05547		
493148.74	3625787.19	2.07515	493164.77
3625790.40	2.09701		
493184.65	3625789.12	2.11523	493201.97
3625791.04	2.14959		
493221.21	3625790.40	2.17835	493238.52
3625791.04	2.23925		
492780.00	3626415.01	8.53435	492778.72

3626388.08	7.62178		
492747.94	3626386.16	6.60465	492742.16
3626418.22	7.25473		
492699.20	3626422.71	6.38162	492697.92
3626391.93	5.65552		
492678.68	3626411.81	6.06922	492626.09
3626426.56	6.87252		
492606.85	3626435.54	7.39944	492599.16
3626405.39	6.32378		
492491.20	3626644.88	14.28573	492517.36
3626636.70	16.67246		
492521.18	3626603.45	17.06919	492521.72
3626582.19	16.40317		
492512.46	3626553.84	14.70873	492513.55
3626533.13	13.60135		
492501.01	3626506.42	11.96100	492490.65
3626485.70	10.76747		
492479.21	3626464.45	9.71748	492466.12
3626447.00	8.91809		
492447.59	3626418.66	7.78967	492431.78
3626430.65	8.18298		
492481.93	3626620.35	14.32144	492482.48
3626594.18	14.40846		
492479.21	3626572.92	13.87000	492477.02
3626546.76	13.16301		
492467.76	3626523.32	12.04916	492463.94
3626507.51	11.41648		
492450.86	3626492.79	10.63778	492427.42
3626474.80	9.65491		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 43

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: STCK4
 INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

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

```

- - - - -
      492402.89      3626460.63      8.88626      492803.94
3626616.07      24.31135
      492823.25      3626567.17      20.59435      492838.34
3626526.92      16.18839
      493039.78      3625834.45      2.16259      492791.92
3626663.04      33.45300
      492731.11      3626741.92      30.77086      492774.75
3626728.05      29.90511
      492674.05      3626738.96      20.11937      492708.49
3626698.47      46.09566
      493013.27      3625844.49      2.19694

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:47:11

```

PAGE 44

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

```

*** THE PERIOD ( 26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK5 ***
INCLUDING SOURCE(S): STCK5 ,

```

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

```

      Y-COORD |
      (METERS) |      490879.18      491073.28      491267.38      491461.48      491655.58
491849.68      492043.78      492237.88      492431.98

```

```

- - - - -

```

```

      3628507.56 |      0.40279      0.34941      0.32652      0.37048      0.38988
0.43939      0.40012      0.35394      0.44445
      3628311.70 |      0.51037      0.46586      0.40046      0.38042      0.44748
0.49488      0.56371      0.38981      0.48034
      3628115.84 |      0.50624      0.59716      0.54315      0.46121      0.47197
0.55440      0.62955      0.49575      0.54664
      3627919.98 |      0.48603      0.57495      0.69879      0.64719      0.57226
0.62691      0.65086      0.75160      0.60858
      3627724.12 |      0.61386      0.58879      0.66418      0.82913      0.80850
0.71334      0.70737      0.95396      0.61135
      3627528.26 |      0.78268      0.81032      0.78034      0.80764      1.00992
1.02748      0.82708      0.90616      1.00392
      3627332.40 |      0.92501      0.97853      1.06099      1.09922      1.07513

```

1.27753	1.36460	1.22145	1.82619		
3627136.54		1.05009	1.17806	1.30963	1.43383 1.58318
1.65663	1.78521	2.04920	1.87626		
3626940.68		1.05335	1.21743	1.41414	1.66417 1.98418
2.38480	2.85429	3.27431	3.99535		
3626744.82		1.01053	1.19870	1.33964	1.59171 1.91840
2.69047	3.86394	6.10436	9.02192		
3626548.96		1.33490	1.58308	1.69608	2.27965 2.52519
2.97765	5.23603	9.08518	17.01138		
3626353.10		1.28353	1.71628	2.01392	2.36651 3.30543
3.59091	6.05841	8.06140	6.57122		
3626157.24		1.36837	1.74931	2.51352	2.95580 3.59407
4.25713	4.47961	3.65281	3.20141		
3625961.38		1.60613	1.76954	2.04476	2.64433 3.28101
3.22345	2.35435	1.98634	2.07429		
3625765.52		1.62022	2.21164	2.23759	2.04509 2.04736
1.68896	1.44625	1.47586	1.56180		
3625569.66		1.75290	1.94170	2.11341	2.04383 1.61031
1.34846	1.12698	1.14160	1.17968		
3625373.80		1.51192	1.58132	1.47230	1.43222 1.23172
1.11620	1.06397	1.06169	1.08358		
3625177.94		1.25437	1.47038	1.24026	1.03453 0.96991
0.99705	0.93198	0.86743	0.94566		
3624982.08		1.07490	1.08368	0.97483	0.87219 0.86107
0.85118	0.84208	0.78343	0.85427		
3624786.22		0.96603	0.83493	0.80623	0.77618 0.77813
0.73555	0.74376	0.69720	0.74550		
3624590.36		0.80750	0.73497	0.65847	0.69472 0.67855
0.65926	0.68120	0.67353	0.73964		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 45

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***
 INCLUDING SOURCE(S): STCK5 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

```

- - - - -
- - - - -
3628507.56 |      0.37152      0.33042      0.29762      0.30615      0.27000
0.23422    | 0.24042      0.27075      0.15106
3628311.70 |      0.41331      0.37516      0.32784      0.31464      0.28352
0.27490    | 0.27454      0.28453      0.14736
3628115.84 |      0.48629      0.37591      0.40089      0.38372      0.31896
0.31796    | 0.30531      0.30140      0.16451
3627919.98 |      0.54166      0.44464      0.44513      0.41949      0.37293
0.36089    | 0.33384      0.27194      0.18576
3627724.12 |      0.66235      0.60503      0.59448      0.47384      0.44560
0.39202    | 0.40820      0.34940      0.24950
3627528.26 |      1.05049      0.67414      0.70711      0.59504      0.52712
0.48476    | 0.47017      0.46848      0.34139
3627332.40 |      1.43683      0.96694      0.94709      0.81015      0.71020
0.66215    | 0.57520      0.49157      0.42821
3627136.54 |      1.98149      1.35348      1.16645      1.06102      0.94121
0.74408    | 0.64109      0.53719      0.44255
3626940.68 |      5.26039      2.85639      2.60350      1.68945      1.20533
0.91949    | 0.71412      0.60497      0.51161
3626744.82 |      9.50168      17.97947      5.79950      2.96104      1.90374
1.22318    | 0.99102      0.80997      0.71008
3626548.96 |      14.81858      19.59980      14.57983      6.57541      3.39664
2.13742    | 1.57527      1.24429      0.99366
3626353.10 |      6.09721      6.93948      7.33217      6.68492      4.81596
3.18920    | 2.20318      1.61604      1.24545
3626157.24 |      3.58823      3.72349      3.51387      3.91070      3.74742
3.31505    | 2.76919      2.09139      1.67851
3625961.38 |      2.49971      2.51979      2.52945      2.65621      2.69423
2.61463    | 2.40952      2.18644      1.90895
3625765.52 |      1.94091      1.86801      2.05021      1.86696      2.03125
2.08817    | 2.03174      1.87168      1.77914
3625569.66 |      1.55820      1.39765      1.61471      1.49591      1.73261
1.60620    | 1.70322      1.65965      1.52632
3625373.80 |      1.37232      1.20489      1.26915      1.30722      1.24564
1.48377    | 1.31311      1.42864      1.42098
3625177.94 |      1.17650      1.04231      1.12709      1.07220      1.06250
1.25183    | 1.22730      1.13752      1.19691
3624982.08 |      0.99915      0.89736      0.96443      0.94554      1.01534
0.98568    | 1.13986      1.03529      1.00880
3624786.22 |      0.87330      0.80368      0.83185      0.88684      0.88647
0.81880    | 0.98497      1.00211      0.91501
3624590.36 |      0.79546      0.70267      0.72153      0.81749      0.74884
0.73871    | 0.77266      0.93179      0.86323

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:47:11

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
	494372.98	494567.08	494761.18	
3628507.56	0.11934	0.11555	0.10739	
3628311.70	0.12697	0.11889	0.12022	
3628115.84	0.14051	0.12961	0.13235	
3627919.98	0.16752	0.16414	0.13963	
3627724.12	0.20461	0.19484	0.14389	
3627528.26	0.29391	0.28968	0.18891	
3627332.40	0.37732	0.35796	0.22671	
3627136.54	0.41086	0.37793	0.37031	
3626940.68	0.45863	0.41738	0.38663	
3626744.82	0.63178	0.57712	0.50879	
3626548.96	0.85236	0.74066	0.64876	
3626353.10	1.01093	0.86341	0.74002	
3626157.24	1.30578	1.07125	0.92546	
3625961.38	1.57388	1.30437	1.13345	
3625765.52	1.64304	1.46648	1.24772	
3625569.66	1.45032	1.41653	1.26845	
3625373.80	1.28829	1.23395	1.21873	
3625177.94	1.22113	1.11313	1.04665	
3624982.08	1.05774	1.05383	0.96431	
3624786.22	0.88476	0.92226	0.91508	
3624590.36	0.76797	0.76683	0.83307	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:47:11

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	2.11636	492919.80
3625834.65	2.22110		
492955.07	3625845.55	2.26967	493069.86
3625832.73	2.13737		
493094.87	3625832.73	2.03800	493110.90
3625837.21	2.00092		
493151.95	3625834.01	1.97266	493166.70
3625837.86	2.01737		
493187.86	3625836.57	2.09868	493201.33
3625836.57	2.15562		
493240.44	3625836.57	2.24533	492881.32
3625908.40	2.43882		
492906.98	3625898.14	2.39769	492901.84
3625911.60	2.43381		
492928.14	3625914.81	2.46454	492933.91
3625898.14	2.41680		
492951.87	3625908.40	2.46197	492973.67
3625907.11	2.47656		
492993.55	3625914.17	2.50702	492996.11
3625897.50	2.45500		
493015.99	3625896.85	2.42024	493023.05
3625912.24	2.42720		
493044.21	3625907.11	2.34451	493066.66
3625907.76	2.21615		
493085.25	3625912.24	2.18623	493087.18
3625895.57	2.14193		
493108.98	3625911.60	2.21477	493112.19
3625897.50	2.13903		
493133.99	3625901.98	2.21184	492874.27
3625788.48	1.97954		
492894.15	3625789.12	2.02156	492910.18
3625790.40	2.04543		
492930.70	3625786.55	2.05942	492947.38
3625791.04	2.07219		
492963.41	3625787.84	2.07415	492982.65
3625787.84	2.07670		
492999.96	3625787.84	2.08912	493021.12
3625791.04	2.11129		
493036.52	3625789.12	2.06021	493055.75

3625789.76	2.07717		
493076.28	3625787.84	2.02488	493094.87
3625787.84	1.97317		
493112.83	3625788.48	1.91214	493129.50
3625787.19	1.85441		
493148.74	3625787.19	1.83397	493164.77
3625790.40	1.88696		
493184.65	3625789.12	1.89410	493201.97
3625791.04	1.97536		
493221.21	3625790.40	2.04048	493238.52
3625791.04	2.07018		
492780.00	3626415.01	9.35398	492778.72
3626388.08	8.28715		
492747.94	3626386.16	8.16089	492742.16
3626418.22	9.54747		
492699.20	3626422.71	9.58882	492697.92
3626391.93	8.26422		
492678.68	3626411.81	8.70571	492626.09
3626426.56	8.13407		
492606.85	3626435.54	8.34200	492599.16
3626405.39	7.19200		
492491.20	3626644.88	20.06567	492517.36
3626636.70	23.93031		
492521.18	3626603.45	27.36265	492521.72
3626582.19	25.92516		
492512.46	3626553.84	22.01822	492513.55
3626533.13	18.93389		
492501.01	3626506.42	15.77281	492490.65
3626485.70	13.93414		
492479.21	3626464.45	12.25553	492466.12
3626447.00	11.09184		
492447.59	3626418.66	9.43578	492431.78
3626430.65	10.58438		
492481.93	3626620.35	21.55365	492482.48
3626594.18	23.13204		
492479.21	3626572.92	22.57499	492477.02
3626546.76	20.57677		
492467.76	3626523.32	18.13521	492463.94
3626507.51	16.64207		
492450.86	3626492.79	15.44855	492427.42
3626474.80	13.97465		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:47:11

PAGE 48

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: STCK5

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	12.87490	492803.94
3626616.07	25.63970		
492823.25	3626567.17	26.06414	492838.34
3626526.92	16.58554		
493039.78	3625834.45	2.20483	492791.92
3626663.04	34.91465		
492731.11	3626741.92	26.06116	492774.75
3626728.05	32.83330		
492674.05	3626738.96	23.20407	492708.49
3626698.47	46.46960		
493013.27	3625844.49	2.24741	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 49

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): L0000001 , L0000002

, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)	
	490879.18	491073.28	491267.38		491461.48	491655.58
491849.68	492043.78	492237.88	492431.98			

3628507.56	2.23474	2.30488	2.35528	2.61029	2.72486
2.98046	2.99714	2.89220	3.16009		
3628311.70	2.51601	2.61115	2.71539	2.77962	3.14997
3.40894	3.62199	3.33923	3.47193		
3628115.84	2.64323	2.94903	3.11347	3.21508	3.45449
3.91141	4.26040	4.01897	4.02711		
3627919.98	2.66576	3.06361	3.53727	3.74426	4.00385
4.53290	4.77142	5.15098	4.76028		
3627724.12	3.06956	3.19454	3.63801	4.31886	4.81768
5.08350	5.55533	6.55665	5.60510		
3627528.26	3.64637	3.91288	4.08948	4.58304	5.47345
6.18339	6.47475	7.43026	7.97511		
3627332.40	4.01610	4.43249	5.03229	5.51794	5.92323
6.95324	8.24955	9.75684	13.05530		
3627136.54	4.56139	5.08544	5.75861	6.48371	7.47451
8.41860	9.98000	12.70501	15.80464		
3626940.68	4.72947	5.37655	6.24283	7.41361	8.93374
10.96314	13.68804	17.76698	25.34022		
3626744.82	5.22578	6.26384	6.92917	8.19126	9.69600
13.48059	19.12670	29.12067	46.23509		
3626548.96	6.48567	7.69712	8.44200	11.19852	12.90522
15.93050	28.13050	46.33153	86.43161		
3626353.10	6.82958	8.85548	10.48345	12.08986	17.60898
19.65251	35.00847	47.86152	56.24118		
3626157.24	6.97924	8.74001	12.65695	15.79590	20.50984
25.25219	30.65346	35.45802	34.17595		
3625961.38	8.20340	9.53713	11.48860	14.53315	20.31037
22.29187	19.93283	19.00648	19.92016		
3625765.52	8.87690	11.42051	12.46465	13.13111	14.35467
14.37142	14.10906	14.24984	17.94280		
3625569.66	9.35025	11.00646	13.13836	14.01696	12.58716
12.47909	11.14683	12.27465	14.81930		
3625373.80	8.98250	9.85476	9.88429	11.57805	11.68567
11.77623	10.84492	12.00719	13.70759		
3625177.94	8.16109	9.97355	9.69272	8.99494	9.95198
10.11633	10.29706	8.90645	10.08732		
3624982.08	7.36050	8.43145	8.25233	8.39718	8.47854
8.46215	8.33573	7.40060	8.09991		
3624786.22	7.35640	6.85341	7.32446	7.39410	7.10532
6.98077	6.84729	6.22977	6.48449		
3624590.36	6.34038	6.38449	5.93336	6.02464	5.97972
5.87841	5.81328	5.74574	5.89823		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 50
*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M³
**

Y-COORD (METERS)				X-COORD (METERS)	
493596.58	493790.68	493984.78	494178.88	493208.38	493402.48

3628507.56	3.08286	2.97596	2.57788	2.67864	2.49810
2.42956	2.18583	1.56593	0.75081		
3628311.70	3.46298	3.43156	2.91075	2.80406	2.84202
2.78586	2.15249	1.57412	0.66459		
3628115.84	4.02850	3.68342	3.52772	3.87187	3.47233
3.22260	2.19084	1.61061	0.73759		
3627919.98	4.57839	4.49480	4.12458	4.53247	3.40773
3.26084	2.25565	1.41585	0.83530		
3627724.12	5.68163	7.07258	6.36269	5.37051	4.36007
3.46914	2.42120	1.77732	1.13740		
3627528.26	8.49206	7.46873	7.85263	5.77186	5.04156
5.20491	2.98570	2.44660	1.86013		
3627332.40	11.45009	10.57086	10.40656	8.99157	5.87391
4.32523	3.33448	2.83132	2.45747		
3627136.54	16.95810	15.49982	12.43922	9.89302	8.05660
7.64401	4.01455	3.37076	3.35471		
3626940.68	35.75160	29.25619	21.50255	14.58434	10.55147
8.38982	7.16373	5.37472	4.40790		
3626744.82	106.91161	105.62326	44.54044	23.55097	15.47841
9.88116	7.66921	6.24371	5.38263		
3626548.96	251.67589	325.29780	95.42308	40.73819	22.22015

15.16641	12.03344	9.21729	6.81602		
3626353.10		55.74946	55.84040	70.29953	49.74732 30.81028
20.88313	14.62016	10.81701	8.61721		
3626157.24		32.00044	30.63538	36.22545	30.57944 25.69465
24.04320	18.79339	13.26840	10.14031		
3625961.38		24.34430	23.69084	29.04586	25.90288 21.08557
17.47433	17.32888	13.99566	11.76549		
3625765.52		21.56175	39.83184	58.27083	39.12957 22.04685
16.79201	13.74768	12.45016	11.93124		
3625569.66		18.44430	18.46121	20.17854	22.59454 20.55193
16.31361	13.48888	11.46359	10.17045		
3625373.80		12.72364	12.46483	12.03905	13.63382 13.59697
14.61831	13.27141	11.40517	10.12259		
3625177.94		9.55527	10.11572	10.04824	11.19872 11.04301
11.55566	10.41526	9.63458	9.44807		
3624982.08		8.22684	8.16397	7.79525	9.17536 8.59795
8.62472	9.08485	8.32756	7.94394		
3624786.22		6.60702	7.10554	6.62955	7.26280 7.15030
7.29561	7.75781	7.70735	6.99512		
3624590.36		6.11802	6.19979	5.76874	5.93233 6.33734
6.55843	6.91932	6.83309	6.51111		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 51

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	494372.98	494567.08	494761.18

3628507.56	0.52918	0.52188	0.51694
3628311.70	0.57619	0.55244	0.55668
3628115.84	0.64286	0.60869	0.59448
3627919.98	0.75955	0.73401	0.66541
3627724.12	0.95654	1.03254	0.71362
3627528.26	1.63195	1.54915	0.87551
3627332.40	2.21334	1.96087	1.11744
3627136.54	2.71352	2.39495	1.97939
3626940.68	3.58417	3.12736	2.69927
3626744.82	4.84179	4.47065	3.86457
3626548.96	5.75249	4.98958	4.39507
3626353.10	6.81257	6.21129	5.08648
3626157.24	8.36274	6.53853	6.01101
3625961.38	10.42548	8.04179	7.38487
3625765.52	10.67066	9.18190	7.99841
3625569.66	9.75981	9.50307	8.42393
3625373.80	8.97969	8.32794	8.00159
3625177.94	8.69934	7.84005	7.26470
3624982.08	8.26720	7.54704	7.03518
3624786.22	6.69624	7.19891	6.86986
3624590.36	6.10186	5.95338	6.05114

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 52

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

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

492883.25	3625830.80	41.52636	492919.80
3625834.65	46.16947		
492955.07	3625845.55	37.38363	493069.86
3625832.73	117.78514		
493094.87	3625832.73	82.02808	493110.90
3625837.21	56.66631		
493151.95	3625834.01	41.75785	493166.70
3625837.86	36.75083		
493187.86	3625836.57	33.26047	493201.33
3625836.57	31.34117		
493240.44	3625836.57	27.85503	492881.32
3625908.40	26.28771		
492906.98	3625898.14	27.63073	492901.84
3625911.60	27.18448		
492928.14	3625914.81	28.41290	492933.91
3625898.14	28.89975		
492951.87	3625908.40	29.49865	492973.67
3625907.11	30.68899		
492993.55	3625914.17	32.08296	492996.11
3625897.50	32.30184		
493015.99	3625896.85	36.46363	493023.05
3625912.24	34.72712		
493044.21	3625907.11	36.29832	493066.66
3625907.76	37.00490		
493085.25	3625912.24	33.42075	493087.18
3625895.57	38.80974		
493108.98	3625911.60	32.64602	493112.19
3625897.50	34.60032		
493133.99	3625901.98	32.15234	492874.27
3625788.48	50.09640		
492894.15	3625789.12	56.07170	492910.18
3625790.40	60.47531		
492930.70	3625786.55	63.15742	492947.38
3625791.04	66.73336		
492963.41	3625787.84	62.32115	492982.65
3625787.84	63.35150		
492999.96	3625787.84	70.55372	493021.12
3625791.04	91.01171		
493036.52	3625789.12	92.68225	493055.75
3625789.76	97.92868		
493076.28	3625787.84	98.97223	493094.87
3625787.84	89.75588		
493112.83	3625788.48	70.72955	493129.50
3625787.19	62.82429		
493148.74	3625787.19	54.31466	493164.77
3625790.40	48.43738		
493184.65	3625789.12	42.55579	493201.97
3625791.04	38.43289		
493221.21	3625790.40	34.73827	493238.52

3625791.04	31.79968			
492780.00	3626415.01	106.58714		492778.72
3626388.08	79.45575			
492747.94	3626386.16	76.41780		492742.16
3626418.22	102.37404			
492699.20	3626422.71	102.79244		492697.92
3626391.93	77.99017			
492678.68	3626411.81	88.13928		492626.09
3626426.56	81.51232			
492606.85	3626435.54	106.92861		492599.16
3626405.39	74.15503			
492491.20	3626644.88	92.37919		492517.36
3626636.70	109.86438			
492521.18	3626603.45	129.00715		492521.72
3626582.19	137.46923			
492512.46	3626553.84	137.55664		492513.55
3626533.13	138.77733			
492501.01	3626506.42	128.55545		492490.65
3626485.70	124.98852			
492479.21	3626464.45	119.83163		492466.12
3626447.00	111.30911			
492447.59	3626418.66	83.35775		492431.78
3626430.65	85.90798			
492481.93	3626620.35	96.82698		492482.48
3626594.18	106.71520			
492479.21	3626572.92	111.33323		492477.02
3626546.76	116.00641			
492467.76	3626523.32	112.96326		492463.94
3626507.51	112.93233			
492450.86	3626492.79	111.74927		492427.42
3626474.80	105.75249			

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 53

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	83.48725	492803.94
3626616.07	367.71826		
492823.25	3626567.17	325.14756	492838.34
3626526.92	269.17932		
493039.78	3625834.45	169.78451	492791.92
3626663.04	306.40008		
492731.11	3626741.92	156.95838	492774.75
3626728.05	162.28157		
492674.05	3626738.96	145.48962	492708.49
3626698.47	278.98613		
493013.27	3625844.49	121.33802	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 54

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
491461.48	490879.18	491073.28	491267.38
	491655.58		

```

- - - - -
- - - - -
3628507.6 |      53.47334 (21032421)      55.38608 (21012124)      60.67682 (22011623)
   64.86008 (22102521)      79.04462 (21020820)
3628311.7 |      60.76795 (22120523)      62.44960 (21032421)      66.62235 (21012124)
   75.89211 (22011623)      76.43851 (20090706)
3628115.8 |      61.02420 (22120701)      70.87505 (22120523)      74.23201 (21032421)
   80.41541 (21012124)      90.89504 (22011623)
3627920.0 |      68.58479 (22120522)      71.55230 (20101702)      85.39946 (22120701)
   90.23383 (21032421)      96.82053 (21012124)
3627724.1 |      72.12012 (22010221)      86.24244 (22120522)      86.62296 (20101702)
   107.47938 (22120701)      112.95560 (21032421)
3627528.3 |      70.14327 (21021307)      77.30544 (20040403)      100.57828 (22010221)
   110.56608 (20010719)      137.57873 (22120701)
3627332.4 |      73.67711 (21011623)      81.49730 (20010902)      97.56091 (21021307)
   113.18869 (20040403)      156.22115 (22120522)
3627136.5 |      77.71034 (20121405)      87.92290 (20010821)      98.67557 (20042502)
   123.60942 (21011623)      149.36034 (21021307)
3626940.7 |      81.26289 (22120524)      91.61235 (22120524)      110.17166 (22120623)
   130.26239 (21122422)      161.04000 (20010821)
3626744.8 |      81.63448 (22012506)      98.48385 (22120624)      113.84621 (22120624)
   136.39757 (22120624)      165.86015 (22031223)
3626549.0 |      102.82780 (20010720)      119.81188 (20010720)      140.27442 (20010720)
   179.15259 (22120706)      214.76240 (20011220)
3626353.1 |      281.41613 (20122123)      358.81169 (20122123)      421.70785 (20122123)
   430.70242 (20122123)      379.36769 (20122123)
3626157.2 |      145.65055 (20122123)      117.60209 (20022501)      162.88383 (20021601)
   191.24482 (22010222)      252.39397 (20120923)
3625961.4 |      94.10342 (22010222)      113.17078 (20021722)      127.82516 (20022324)
   150.87252 (22012701)      553.59766 (21030222)
3625765.5 |      92.65441 (20022324)      107.53328 (22012701)      277.55464 (21030222)
   384.15019 (22010619)      497.58708 (20011520)
3625569.7 |      161.58278 (21030222)      301.45849 (21030222)      273.48674 (22010619)
   427.82658 (20011520)      226.12912 (21110104)
3625373.8 |      246.94424 (22010619)      262.16010 (20011520)      294.13804 (21110104)
   206.19887 (20102402)      479.85101 (20100406)
3625177.9 |      256.24652 (20011520)      257.72068 (21110104)      146.43623 (20102402)
   294.14472 (20100406)      412.09732 (20111623)
3624982.1 |      209.08899 (21110104)      125.31233 (20102402)      234.79393 (20100406)
   303.52086 (20111623)      330.25329 (22012923)
3624786.2 |      103.62105 (20102402)      187.35729 (20100406)      230.59215 (20111623)
   213.66711 (22012923)      250.39607 (22012923)
3624590.4 |      151.25128 (20100406)      196.81729 (20100406)      195.41953 (20111623)
   242.50389 (22012923)      92.94313 (22012923)

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***

```

```

*** 15:47:11

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	491849.68	492043.78	492237.88
492431.98	492626.08		

3628507.6	77.16994 (22090524)	85.86876 (22102624)	85.70735 (22011621)
83.60318 (22102623)	58.30458 (21102918)		
3628311.7	96.06092 (21020820)	106.65693 (20022222)	90.62150 (22011621)
91.80487 (22102623)	63.91642 (21102918)		
3628115.8	102.48421 (20090706)	110.97715 (20022222)	114.92643 (20101705)
100.30193 (22102623)	72.57038 (21102918)		
3627920.0	108.77832 (22102521)	138.20364 (21020820)	146.61867 (22102624)
130.43554 (22011621)	84.33888 (21102918)		
3627724.1	122.20350 (22011623)	147.87657 (20090706)	180.43426 (20022222)
171.18857 (22011621)	106.53487 (22102623)		
3627528.3	147.08901 (21032421)	176.92408 (22011623)	222.67866 (21020820)
220.95066 (20101705)	179.24008 (22102623)		
3627332.4	178.03560 (22120701)	202.78280 (21032421)	241.17822 (22102521)
351.57068 (20022222)	265.02531 (22102623)		
3627136.5	199.74438 (22010221)	242.75740 (20101702)	305.01002 (21032421)
444.44537 (21020820)	413.44792 (22102623)		
3626940.7	200.14150 (21011623)	272.87538 (21021307)	433.11260 (22120522)
561.21435 (21012124)	744.23333 (22011621)		
3626744.8	220.27470 (21122421)	317.43525 (22120524)	468.48662 (20121405)
766.68649 (21021307)	1558.53928 (22011623)		
3626549.0	331.14743 (20122123)	792.17752 (20122123)	1254.36062 (20122123)
1474.20222 (20122123)	2738.74175 (20011520)		
3626353.1	270.54680 (22011222)	474.23659 (20021722)	756.00794 (20031423)
942.76896 (20100705)	970.17754 (22052202)		

3626157.2	314.78974 (21030222)	735.97473 (21030222)	914.59817 (21110104)
1374.01689 (22012923)	935.79227 (20021220)		
3625961.4	595.62733 (20011520)	460.14705 (21110104)	757.67202 (20111623)
322.32223 (22021320)	433.03750 (20012222)		
3625765.5	313.89471 (21110104)	563.31971 (20111623)	505.07059 (22012923)
266.60045 (22120820)	275.09509 (20012222)		
3625569.7	451.25808 (20100406)	504.80261 (22012923)	152.94652 (22021320)
167.23046 (21121921)	179.82212 (20012222)		
3625373.8	415.59828 (20111623)	257.76089 (22012923)	138.19707 (22120820)
166.51392 (21120123)	159.85664 (20012222)		
3625177.9	426.17090 (22012923)	124.30152 (22122304)	100.98521 (22120820)
142.10017 (20021922)	128.78560 (21040805)		
3624982.1	174.11552 (22012923)	114.40364 (22021320)	100.99091 (21121921)
117.51941 (20112124)	184.15999 (20011420)		
3624786.2	90.51871 (22122304)	98.38243 (22120820)	87.69702 (21121921)
90.29981 (22120222)	89.39156 (21040805)		
3624590.4	84.25123 (22021320)	79.99925 (22120820)	84.69706 (21120123)
85.75595 (22120222)	102.24577 (21031805)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 56

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD			X-COORD (METERS)
(METERS)	492820.18	493014.28	493208.38
493402.48	493596.58		

- - - - -
 - - - - -

3628507.6	77.45225 (22102021)	33.38727 (20100318)	54.79198 (22102202)

30.14062 (20101418)	34.06165 (21080821)	
3628311.7 87.21201 (22102021)	42.81098 (22102202)	49.92588 (22102202)
38.45691 (20101418)	48.61150 (21080821)	
3628115.8 88.74402 (22102021)	60.24239 (22102202)	60.63985 (22102202)
47.71360 (21080821)	59.42914 (20092419)	
3627920.0 103.90008 (22102021)	77.66584 (22102202)	57.56891 (20101418)
200.36336 (20101624)	103.44177 (20121022)	
3627724.1 161.59718 (22102021)	126.39962 (22102202)	70.77459 (20101418)
83.92349 (20092419)	199.63106 (21122302)	
3627528.3 143.13846 (22102021)	126.81888 (22102202)	258.10945 (20101624)
213.87069 (21122302)	135.50524 (20092420)	
3627332.4 162.07418 (22102021)	127.84467 (20101418)	163.31741 (20092419)
287.99224 (20092420)	314.26823 (22091021)	
3627136.5 259.49045 (22102202)	194.06229 (20092419)	217.40269 (20092420)
131.03700 (20032305)	160.11380 (22122819)	
3626940.7 421.26470 (22102202)	401.90045 (20092420)	234.38919 (20032305)
134.19700 (22122819)	120.83969 (21052124)	
3626744.8 1150.71257 (20092420)	404.20151 (20040319)	378.84854 (22120120)
323.33427 (22120120)	182.78767 (21071321)	
3626549.0 2169.91892 (21020921)	643.08011 (20051521)	724.36429 (21041404)
529.27509 (21080724)	192.63783 (20070922)	
3626353.1 830.64603 (22100905)	603.79548 (22011821)	618.50129 (22082122)
459.48558 (22100605)	425.02536 (20041206)	
3626157.2 654.04164 (22052506)	689.68349 (22011904)	409.70688 (21072106)
333.55290 (20092022)	381.43178 (21052723)	
3625961.4 364.42593 (22052506)	288.96451 (22052123)	283.73502 (20080523)
321.67077 (21072106)	253.45109 (21040405)	
3625765.5 230.81968 (21061301)	249.21354 (21120822)	264.56148 (20100623)
334.89844 (21021008)	257.08217 (21072106)	
3625569.7 170.93677 (22011921)	291.08992 (22052206)	301.83617 (22081002)
155.82194 (21082624)	214.68837 (21021008)	
3625373.8 308.90417 (21103123)	121.12197 (21052503)	127.70866 (21103122)
123.44871 (21013119)	127.20724 (21090504)	
3625177.9 243.96431 (21103123)	275.21318 (21030703)	110.26799 (22021319)
237.87878 (21080802)	245.34035 (21092704)	
3624982.1 252.24756 (22081103)	188.66836 (20101004)	171.29868 (21080902)
167.25184 (22100905)	140.00674 (20050806)	
3624786.2 191.76601 (22081103)	175.75153 (20042523)	172.50024 (22052206)
146.56714 (21092803)	129.33989 (21080802)	
3624590.4 72.30282 (20122521)	174.96281 (22090723)	113.82909 (22101306)
158.48307 (20061224)	181.07692 (22070601)	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 57

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
494372.98	493790.68	494567.08	494178.88

3628507.6	59.47582 (21080821)	74.44811 (22011808)	12.24763 (22100421)
7.91226 (20041221)	8.21805 (22122801)		
3628311.7	127.95811 (22010702)	32.86425 (22100421)	10.08612 (20041221)
7.95548 (22122801)	8.72505 (20031823)		
3628115.8	128.35469 (22011808)	28.42524 (22042004)	11.31080 (22122801)
9.06051 (20031823)	7.62059 (22022205)		
3627920.0	120.96548 (21122302)	17.90361 (22122801)	10.63226 (20031823)
8.80141 (20041220)	9.69051 (20041219)		
3627724.1	107.10000 (20092420)	27.99419 (20062406)	13.86256 (20041219)
9.96406 (22100522)	16.21427 (20051006)		
3627528.3	235.48502 (22091021)	45.08406 (20032305)	25.03307 (20051006)
24.15639 (21051703)	30.50581 (21070819)		
3627332.4	112.86653 (20032305)	81.05891 (22122819)	70.05290 (21090103)
72.79027 (20050101)	55.60375 (22102204)		
3627136.5	135.51488 (21090103)	130.55692 (20081602)	242.57632 (21072203)
150.37337 (21072203)	96.26837 (22102203)		
3626940.7	136.51936 (21052124)	117.46699 (22120120)	181.44503 (22120120)
184.50132 (22120120)	155.72889 (22072121)		
3626744.8	151.42084 (21071321)	124.51987 (21071321)	108.98554 (22120119)
102.52482 (22120119)	98.35552 (22120119)		
3626549.0	174.22096 (20070922)	136.58163 (22041421)	94.55069 (22041421)
82.40934 (22041421)	72.90707 (22041421)		
3626353.1	363.30333 (20121024)	292.67999 (21040722)	101.80779 (20101719)
252.61136 (21083001)	81.94687 (20101719)		
3626157.2	291.73688 (20090703)	281.17649 (22100605)	218.91874 (21090204)
225.45571 (21091323)	193.96235 (20121024)		
3625961.4	345.25529 (22091005)	221.65453 (21090701)	198.72004 (21081903)
88.60479 (21080901)	176.32404 (22100605)		

3625765.5		172.82768 (20071003)	169.52617 (20092022)	189.22363 (21091622)
192.46822	(21052723)	175.11826 (21081903)		
3625569.7		198.19025 (21072106)	170.65157 (20071003)	167.12555 (20092022)
159.45656	(20082201)	186.37117 (21091622)		
3625373.8		268.32433 (22080701)	177.23114 (21072106)	151.08952 (22040123)
136.26729	(22061005)	149.41462 (22082502)		
3625177.9		146.83115 (20041404)	133.10667 (21021008)	154.64131 (21072106)
144.26840	(22040123)	137.80025 (20071003)		
3624982.1		137.57520 (21092804)	120.21013 (22082704)	128.96956 (21071502)
160.71603	(21072106)	138.45556 (22040123)		
3624786.2		136.64778 (20100623)	130.35045 (21092804)	120.31460 (21021008)
122.37096	(22082223)	163.79218 (21081124)		
3624590.4		177.97683 (22082604)	134.07699 (21092704)	118.26737 (20041404)
136.93223	(21021008)	57.69957 (21081123)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 58

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)		494761.18

3628507.6		8.35386 (20031823)
3628311.7		8.42305 (20060602)
3628115.8		8.98237 (20041219)
3627920.0		7.51912 (20051006)
3627724.1		9.52046 (22052821)
3627528.3		13.72660 (20060406)

3627332.4		22.13907	(20020308)
3627136.5		55.27858	(22102203)
3626940.7		131.90639	(20062123)
3626744.8		87.65531	(22120119)
3626549.0		64.44278	(20031520)
3626353.1		142.74501	(21083001)
3626157.2		67.77844	(21072101)
3625961.4		70.40012	(22121818)
3625765.5		179.92987	(21072102)
3625569.7		158.03565	(21052723)
3625373.8		146.86011	(22091005)
3625177.9		146.49264	(20092022)
3624982.1		154.80030	(20071003)
3624786.2		139.04081	(22040123)
3624590.4		138.92483	(21081124)

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 59

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	341.56653	(22052506)	492919.80
3625834.65	255.23869	(22052506)		
492955.07	3625845.55	245.84314	(22052206)	493069.86
3625832.73	245.10041	(22052123)		
493094.87	3625832.73	227.52036	(21080802)	493110.90
3625837.21	228.69531	(20050806)		

493151.95	3625834.01	264.98757	(20050806)	493166.70
3625837.86	252.58059	(20050806)		
493187.86	3625836.57	236.29266	(20100623)	493201.33
3625836.57	241.14828	(21092704)		
493240.44	3625836.57	260.21424	(21092804)	492881.32
3625908.40	344.37851	(22052506)		
492906.98	3625898.14	255.67621	(22052506)	492901.84
3625911.60	275.49744	(22052506)		
492928.14	3625914.81	272.69683	(22052206)	492933.91
3625898.14	253.31412	(22052206)		
492951.87	3625908.40	253.16282	(21120822)	492973.67
3625907.11	283.20294	(21120822)		
492993.55	3625914.17	286.51460	(22100905)	492996.11
3625897.50	283.20910	(22100905)		
493015.99	3625896.85	258.02210	(22011906)	493023.05
3625912.24	271.16845	(22052123)		
493044.21	3625907.11	261.20147	(22052123)	493066.66
3625907.76	260.46589	(22081801)		
493085.25	3625912.24	281.53345	(20050806)	493087.18
3625895.57	268.58290	(20050806)		
493108.98	3625911.60	289.43429	(20050806)	493112.19
3625897.50	289.41683	(20050806)		
493133.99	3625901.98	281.42061	(20100623)	492874.27
3625788.48	337.35380	(22052506)		
492894.15	3625789.12	337.77098	(22052506)	492910.18
3625790.40	313.87869	(22052506)		
492930.70	3625786.55	262.02043	(22101306)	492947.38
3625791.04	267.24450	(22052206)		
492963.41	3625787.84	261.48361	(22052206)	492982.65
3625787.84	236.74579	(22052206)		
492999.96	3625787.84	249.22027	(21120822)	493021.12
3625791.04	251.72788	(21120822)		
493036.52	3625789.12	242.36229	(22100905)	493055.75
3625789.76	242.90860	(22100905)		
493076.28	3625787.84	248.74163	(22052123)	493094.87
3625787.84	244.36982	(22052123)		
493112.83	3625788.48	236.51132	(21080802)	493129.50
3625787.19	227.64247	(22081801)		
493148.74	3625787.19	248.48680	(20050806)	493164.77
3625790.40	265.68359	(20050806)		
493184.65	3625789.12	265.10122	(20050806)	493201.97
3625791.04	254.63251	(20100623)		
493221.21	3625790.40	251.89183	(21092704)	493238.52
3625791.04	259.73523	(21092704)		
492780.00	3626415.01	1278.86234	(20090822)	492778.72
3626388.08	1345.49873	(20100624)		
492747.94	3626386.16	1346.28214	(20042523)	492742.16
3626418.22	1687.28868	(21012805)		
492699.20	3626422.71	1815.30792	(20011420)	492697.92
3626391.93	1442.62928	(21021004)		

492678.68	3626411.81	1541.92689	(21120821)	492626.09
3626426.56	1351.08559	(20051704)		
492606.85	3626435.54	2204.59827	(22012923)	492599.16
3626405.39	1388.75550	(22120504)		
492491.20	3626644.88	1092.99846	(22120624)	492517.36
3626636.70	1252.66845	(22120624)		
492521.18	3626603.45	1703.01283	(20122123)	492521.72
3626582.19	2111.81873	(20122123)		
492512.46	3626553.84	1438.50161	(20021601)	492513.55
3626533.13	1390.88902	(20120923)		
492501.01	3626506.42	1529.71986	(21030222)	492490.65
3626485.70	1839.19351	(21030222)		
492479.21	3626464.45	2069.39153	(21030222)	492466.12
3626447.00	2157.53228	(21030222)		
492447.59	3626418.66	1396.08973	(20011520)	492431.78
3626430.65	1546.67416	(21030222)		
492481.93	3626620.35	1227.68591	(21012919)	492482.48
3626594.18	1679.28964	(20122123)		
492479.21	3626572.92	1907.31170	(20122123)	492477.02
3626546.76	1258.07871	(20021601)		
492467.76	3626523.32	1180.40038	(20021722)	492463.94
3626507.51	1175.14865	(20022324)		
492450.86	3626492.79	1219.89442	(22010507)	492427.42
3626474.80	1294.60284	(21030222)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 60

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

Y-COORD (M)	CONC	(YYMMDDHH)	
492402.89	3626460.63	1177.09284	(22120407) 492803.94
3626616.07	2829.84634	(22040302)	
492823.25	3626567.17	2213.44910	(21021003) 492838.34
3626526.92	1862.84916	(20021620)	
493039.78	3625834.45	244.47140	(22011906) 492791.92
3626663.04	2227.12422	(22122819)	
492731.11	3626741.92	1613.10617	(22102021) 492774.75
3626728.05	1289.55743	(20092419)	
492674.05	3626738.96	1886.34295	(22102624) 492708.49
3626698.47	2291.54818	(22102021)	
493013.27	3625844.49	249.49909	(22100905)

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 61

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)
491461.48	490879.18	491073.28
	491655.58	491267.38

3628507.6	89.46084 (21011618)	96.63241 (21031402)	104.51765 (22090601)
113.78232	(22062102)	119.88660 (20090706)	
3628311.7	126.41060 (22051505)	103.37506 (21011618)	101.49743 (21031402)
99.53714	(21052422)	151.29749 (22062102)	
3628115.8	108.51920 (20101805)	147.41878 (22051505)	117.72773 (21011618)
106.46860	(22011702)	105.71684 (22080803)	
3627920.0	138.08606 (21052423)	130.65923 (22122902)	163.49564 (22032023)
132.60540	(21011618)	120.69773 (22011702)	
3627724.1	163.47457 (21081604)	142.45420 (20101707)	171.90060 (22122902)
193.39084	(22032023)	157.82980 (21011618)	
3627528.3	178.16604 (20081623)	180.66862 (22090223)	170.01830 (22120202)

202.46033 (21052423)	205.61837 (22032023)	
3627332.4 147.44354 (21020722)	161.91590 (20061501)	204.97159 (20081623)
198.14000 (21081604)	179.25132 (21120103)	
3627136.5 182.25969 (22101701)	183.33485 (21040202)	187.41744 (21020722)
193.64464 (21021623)	231.18682 (20081623)	
3626940.7 166.14967 (22041606)	164.86949 (21092022)	206.57498 (21092022)
207.45835 (20101220)	227.12357 (21040202)	
3626744.8 202.14667 (22040523)	227.59187 (22040523)	223.10177 (22062101)
246.04319 (22062101)	240.79827 (22011703)	
3626549.0 207.01298 (21101721)	226.66991 (21101721)	216.70846 (20042724)
272.02041 (20042724)	272.79626 (21090703)	
3626353.1 173.57856 (21061202)	223.60668 (20081402)	230.94899 (21112923)
257.62626 (21112923)	293.16489 (20052123)	
3626157.2 175.85290 (20103021)	197.86251 (22043021)	253.40378 (20061223)
255.74799 (22040823)	267.70516 (20121705)	
3625961.4 165.35254 (22110522)	169.78810 (22123102)	199.51641 (22081101)
220.20972 (22092801)	263.95981 (22050405)	
3625765.5 166.42236 (20021723)	209.87884 (22040423)	200.07042 (22050405)
192.89896 (22051302)	214.48630 (20101401)	
3625569.7 172.26439 (22050405)	199.68755 (22051302)	217.02970 (20022424)
264.22839 (22042324)	250.11685 (20061423)	
3625373.8 165.78748 (20071603)	188.34363 (20101401)	196.92747 (20051324)
236.76640 (20061423)	258.13927 (20052324)	
3625177.9 155.02649 (20032902)	212.14227 (21031622)	219.50233 (22120502)
213.56102 (20052324)	243.97262 (22062801)	
3624982.1 155.52598 (22050401)	210.41871 (20050604)	207.70874 (21100901)
209.69572 (20080806)	220.62725 (21071905)	
3624786.2 200.07139 (20050604)	181.95326 (21100901)	183.80839 (20080806)
217.91245 (21071905)	204.34827 (20050524)	
3624590.4 180.51218 (21100901)	164.57721 (21081303)	177.42480 (20080624)
188.29599 (21052501)	214.72871 (20092303)	

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 62

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD |

X-COORD (METERS)

(METERS)	491849.68	492043.78	492237.88
492431.98	492626.08		

3628507.6	117.03577 (20011701)	107.25546 (22122822)	100.02566 (20101705)
103.26772 (22062022)	113.89899 (22062723)		
3628311.7	166.72904 (20050702)	153.20875 (21113001)	131.90967 (20111805)
104.70087 (22062022)	123.40726 (22062723)		
3628115.8	171.45103 (22102622)	170.13015 (22102522)	119.42670 (20111805)
133.19376 (22080905)	128.46135 (22062723)		
3627920.0	159.17826 (22062102)	197.54655 (20090706)	174.71646 (21113001)
135.78232 (22080905)	113.19473 (22062723)		
3627724.1	149.89780 (22090601)	211.42377 (22062102)	260.33862 (22102522)
142.50643 (20111805)	100.32368 (21071322)		
3627528.3	175.36554 (21011618)	166.27009 (22090601)	205.50091 (20090706)
147.21441 (22090703)	149.30370 (22062022)		
3627332.4	185.69445 (20101805)	208.37019 (21081301)	186.50000 (22090601)
387.66225 (22102522)	202.70901 (22080905)		
3627136.5	250.16154 (21081604)	242.13412 (22122902)	251.86067 (21081301)
296.74886 (22062102)	203.85465 (20111805)		
3626940.7	219.82271 (21021623)	278.19260 (20081623)	257.13349 (20031323)
330.50112 (21040201)	447.89963 (22102522)		
3626744.8	293.47609 (22041606)	354.80267 (20051623)	391.24694 (21112321)
392.95865 (20081623)	670.15464 (21040201)		
3626549.0	278.06594 (21090703)	368.93492 (21090703)	422.09682 (21090703)
513.29236 (21090703)	681.26697 (22092802)		
3626353.1	272.19189 (22092203)	336.70721 (20061223)	370.35513 (20121705)
475.81782 (20011918)	693.68159 (20120120)		
3626157.2	308.43248 (21030901)	320.83999 (20011918)	352.80982 (20101401)
429.18014 (20081404)	519.04824 (21020303)		
3625961.4	277.18948 (20071603)	322.72518 (20051324)	337.00356 (20052324)
384.90508 (21040801)	402.87495 (20112021)		
3625765.5	226.37152 (20041701)	270.82080 (20052324)	306.18924 (21071905)
328.83352 (20112421)	337.08821 (20121620)		
3625569.7	277.60103 (20052324)	230.18919 (21071905)	254.92569 (20092303)
292.25441 (21040224)	289.60557 (20021621)		
3625373.8	256.83159 (22062801)	251.85519 (21040801)	259.89107 (20112421)
302.88118 (20112021)	270.89019 (20021220)		
3625177.9	250.84472 (22100802)	271.79923 (21031722)	240.03877 (21040224)
263.23984 (20121620)	238.37096 (20070424)		
3624982.1	244.01074 (20060802)	227.63258 (22081704)	208.91754 (22052202)
215.74659 (21020924)	251.27063 (20090401)		
3624786.2	239.85456 (22081602)	225.51537 (20021622)	231.90154 (20112021)
212.67232 (20021621)	223.71534 (20090401)		
3624590.4	202.47476 (22081704)	209.76275 (20091424)	199.29679 (20070224)
212.94959 (20021220)	212.44667 (20101822)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:47:11

PAGE 63

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
493402.48	492820.18		493014.28	493208.38
	493596.58			

3628507.6	149.09289 (22050623)	144.72225 (20081922)	163.66901 (21100706)	
145.08452 (22043024)	120.65531 (22050622)			
3628311.7	160.99771 (22050623)	141.40369 (20081922)	171.22088 (20031321)	
164.30237 (21081221)	163.37245 (22082322)			
3628115.8	153.82615 (22050623)	181.32377 (20022901)	192.96603 (20022304)	
185.36600 (21081221)	199.61341 (20101624)			
3627920.0	168.73412 (22050623)	213.47623 (20022901)	203.96319 (22061421)	
174.78824 (22082322)	160.52232 (21080821)			
3627724.1	240.21207 (22090503)	280.03742 (20022901)	216.42885 (21081221)	
246.44474 (20101624)	187.49346 (22081324)			
3627528.3	237.27096 (22090503)	274.14057 (21100706)	225.85913 (21081221)	
214.03346 (20100320)	221.48513 (21040924)			
3627332.4	275.30839 (22090503)	307.53768 (20031321)	329.98746 (20101624)	
293.68040 (22081324)	247.60441 (21052203)			
3627136.5	274.62407 (22090503)	239.59576 (21081221)	215.31268 (22081324)	
244.99741 (21052203)	255.87884 (22091021)			
3626940.7	367.31684 (22103119)	375.11299 (20101624)	298.02597 (21052203)	
265.90004 (20081923)	261.02519 (22051721)			
3626744.8	650.85219 (22090503)	511.95665 (21052203)	374.49930 (22051721)	
370.04981 (21072203)	189.89454 (21053101)			
3626549.0	871.31910 (20121705)	600.15132 (20101806)	497.54839 (20090820)	
365.14516 (20090820)	286.06179 (20090820)			
3626353.1	857.71690 (21060405)	674.95035 (21071001)	519.13477 (21052723)	
379.58175 (20092322)	322.15660 (21091323)			
3626157.2	598.29314 (20072601)	522.85633 (20082006)	443.69031 (20101720)	
365.23522 (22082502)	332.40359 (21052723)			
3625961.4	455.52314 (20072601)	420.46545 (22071905)	378.26889 (22050521)	
335.24673 (21071001)	300.64940 (22041522)			
3625765.5	383.01317 (20072601)	301.45650 (21080902)	321.25567 (21052323)	

285.68536	(22072124)	283.29948	(21071001)	
3625569.7		327.37015	(21101320)	243.52933 (22083006) 270.50453 (21091104)
258.06896	(21071002)	234.13827	(20041520)	
3625373.8		306.37441	(22082605)	174.66643 (22083006) 228.52991 (20090822)
222.08425	(21052323)	226.18263	(22050521)	
3625177.9		286.39620	(22082605)	185.12760 (20091122) 242.21278 (22071905)
224.08144	(21103122)	221.45108	(21071002)	
3624982.1		265.51118	(22082605)	170.21024 (20082203) 197.07928 (22071905)
192.90317	(20061224)	197.04407	(21052323)	
3624786.2		248.78467	(22082605)	174.33163 (22081103) 154.26441 (21030703)
180.63285	(20090822)	169.22200	(22070522)	
3624590.4		231.73396	(22082605)	186.00108 (22081103) 142.11538 (21030703)
178.65699	(21080102)	168.62537	(21103122)	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:47:11

PAGE 64

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

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

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

**

Y-COORD				X-COORD (METERS)
(METERS)		493790.68	493984.78	494178.88
494372.98		494567.08		

3628507.6		150.77438	(21072221)	135.97373	(20100320)	129.61899	(22081324)
83.40724	(21122302)	78.51290	(21070722)				
3628311.7		139.73359	(21080821)	129.86335	(22081324)	98.60381	(21040924)
77.84977	(21070722)	74.91868	(21052203)				
3628115.8		162.44951	(20100320)	165.52016	(22081324)	88.92749	(21070722)
80.32223	(21052203)	67.03738	(22061501)				
3627920.0		218.91597	(22081324)	118.54828	(22051722)	97.10721	(21052203)
76.99230	(22091021)	84.42035	(22091021)				
3627724.1		177.03560	(21122302)	164.50924	(21052203)	119.95118	(22091021)
94.23509	(22082422)	131.21111	(20081923)				
3627528.3		210.57861	(21052203)	196.74325	(22091021)	126.22115	(20081923)
142.64359	(20081923)	128.65220	(20071323)				
3627332.4		233.43221	(22091021)	204.06695	(20081923)	178.79326	(20071323)

175.81438 (22051721)	135.37566 (21090103)	
3627136.5 219.00097 (20071323)	210.90656 (22051721)	166.77092 (22061422)
209.09152 (20081602)	210.88132 (21072203)	
3626940.7 252.47125 (20081602)	259.93679 (21072203)	179.34195 (21091523)
145.66284 (21012119)	171.71764 (21080324)	
3626744.8 224.16915 (22072121)	206.36754 (22072121)	167.36722 (21041922)
171.71981 (21041922)	168.24648 (20062123)	
3626549.0 264.85229 (20090820)	237.24192 (21070923)	198.51194 (21070923)
187.52212 (21070923)	178.60815 (21070923)	
3626353.1 284.66420 (20070924)	263.78598 (20070924)	203.35183 (22091223)
204.19393 (22091223)	184.81550 (22091223)	
3626157.2 289.61903 (21072102)	249.34596 (21020719)	228.28465 (21091323)
214.68589 (21091323)	195.82482 (21040722)	
3625961.4 284.77042 (22073105)	258.90141 (21052723)	227.37693 (21072222)
229.34223 (20092322)	194.22372 (21020719)	
3625765.5 254.84391 (20071201)	247.20938 (22082502)	228.59078 (21063023)
217.64583 (21052723)	194.49041 (20090703)	
3625569.7 245.98187 (21071001)	243.84141 (20071201)	237.90304 (22041522)
217.52336 (22073105)	213.94552 (21063023)	
3625373.8 213.36750 (22062202)	219.48667 (21071001)	207.56371 (20042722)
189.57338 (22041522)	187.93186 (21082924)	
3625177.9 197.29715 (22080903)	183.01489 (22092722)	198.19594 (22091302)
181.79636 (20082121)	165.31643 (21071124)	
3624982.1 186.81132 (20090821)	162.33361 (22040623)	162.69475 (22092722)
182.26323 (22091302)	152.13931 (20082121)	
3624786.2 178.14475 (21071002)	163.75616 (22080903)	146.55415 (20041520)
147.04547 (22080901)	165.50758 (22091302)	
3624590.4 174.64005 (21052323)	160.25671 (20101621)	154.27171 (22080903)
137.68792 (22081224)	133.12541 (22080901)	

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 65

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD	X-COORD (METERS)
(METERS) 494761.18	

- - - - -

3628507.6		74.48462	(21052203)
3628311.7		69.23824	(22061501)
3628115.8		86.78178	(22091021)
3627920.0		74.85722	(20081923)
3627724.1		92.82909	(20071323)
3627528.3		113.93223	(22051721)
3627332.4		109.77440	(21110620)
3627136.5		138.81103	(21091523)
3626940.7		176.39160	(22072121)
3626744.8		148.16375	(20062123)
3626549.0		169.95609	(21070923)
3626353.1		167.74031	(21080724)
3626157.2		181.58479	(21040722)
3625961.4		176.41364	(20062523)
3625765.5		192.99227	(21072102)
3625569.7		188.43060	(21052723)
3625373.8		179.81394	(22073105)
3625177.9		176.47617	(22041522)
3624982.1		166.26528	(21071124)
3624786.2		143.30768	(20050501)
3624590.4		145.87029	(22091302)

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:47:11

PAGE 66

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	406.39610	(22081103)	492919.80
3625834.65	308.13078	(20082203)		
492955.07	3625845.55	313.47101	(22083006)	493069.86
3625832.73	333.56005	(20061224)		
493094.87	3625832.73	341.77477	(20061224)	493110.90

3625837.21	328.27821	(20061224)		
493151.95	3625834.01	320.79996	(20082006)	493166.70
3625837.86	338.82953	(20082006)		
493187.86	3625836.57	348.42060	(21052323)	493201.33
3625836.57	342.25793	(22010819)		
493240.44	3625836.57	348.16109	(21071002)	492881.32
3625908.40	428.43945	(22081103)		
492906.98	3625898.14	351.96674	(22081103)	492901.84
3625911.60	373.32153	(22081103)		
492928.14	3625914.81	323.65856	(22083006)	492933.91
3625898.14	322.10564	(22083006)		
492951.87	3625908.40	334.81769	(22083006)	492973.67
3625907.11	326.68225	(21080902)		
492993.55	3625914.17	387.65129	(22071905)	492996.11
3625897.50	377.27816	(22071905)		
493015.99	3625896.85	398.95599	(22071905)	493023.05
3625912.24	402.02702	(22071905)		
493044.21	3625907.11	364.33543	(21080102)	493066.66
3625907.76	372.60627	(20061224)		
493085.25	3625912.24	357.79490	(21103122)	493087.18
3625895.57	353.44487	(20061224)		
493108.98	3625911.60	362.53044	(21103122)	493112.19
3625897.50	360.28311	(21103122)		
493133.99	3625901.98	362.15653	(20082006)	492874.27
3625788.48	385.11805	(22081103)		
492894.15	3625789.12	388.20656	(22081103)	492910.18
3625790.40	346.05625	(22081103)		
492930.70	3625786.55	287.95629	(20082203)	492947.38
3625791.04	286.38270	(22083006)		
492963.41	3625787.84	296.06912	(22083006)	492982.65
3625787.84	286.44713	(22083006)		
492999.96	3625787.84	288.06203	(21080902)	493021.12
3625791.04	335.01690	(22071905)		
493036.52	3625789.12	353.19595	(22071905)	493055.75
3625789.76	354.18028	(22071905)		
493076.28	3625787.84	331.49567	(21080102)	493094.87
3625787.84	326.78215	(20061224)		
493112.83	3625788.48	326.69860	(20061224)	493129.50
3625787.19	312.73022	(20061224)		
493148.74	3625787.19	328.44390	(21103122)	493164.77
3625790.40	317.77085	(21103122)		
493184.65	3625789.12	321.49197	(20082006)	493201.97
3625791.04	332.54745	(21052323)		
493221.21	3625790.40	330.11170	(21052323)	493238.52
3625791.04	325.53128	(21071002)		
492780.00	3626415.01	954.49049	(20112107)	492778.72
3626388.08	905.73466	(21040224)		
492747.94	3626386.16	883.55428	(21020303)	492742.16
3626418.22	933.22617	(22040504)		
492699.20	3626422.71	888.73920	(22120301)	492697.92

3626391.93	825.74395	(20081404)		
492678.68	3626411.81	826.91519	(22120301)	492626.09
3626426.56	693.34765	(20112420)		
492606.85	3626435.54	674.31876	(20102405)	492599.16
3626405.39	649.14222	(20112420)		
492491.20	3626644.88	566.98994	(21021501)	492517.36
3626636.70	589.76860	(21021501)		
492521.18	3626603.45	601.64063	(22011703)	492521.72
3626582.19	619.44338	(22062101)		
492512.46	3626553.84	619.36243	(22092802)	492513.55
3626533.13	607.93873	(20061101)		
492501.01	3626506.42	564.87370	(20010922)	492490.65
3626485.70	559.72958	(20050624)		
492479.21	3626464.45	542.36426	(22092203)	492466.12
3626447.00	527.56113	(21041723)		
492447.59	3626418.66	507.17471	(20121705)	492431.78
3626430.65	495.81839	(21041723)		
492481.93	3626620.35	554.86697	(20051623)	492482.48
3626594.18	582.03004	(22092202)		
492479.21	3626572.92	572.10511	(22040523)	492477.02
3626546.76	580.31630	(21090703)		
492467.76	3626523.32	568.13947	(20061101)	492463.94
3626507.51	538.46731	(20010922)		
492450.86	3626492.79	519.72900	(21112923)	492427.42
3626474.80	506.77063	(20050624)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 67

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	485.22779	(22092203)	492803.94
3626616.07	1361.72319	(22102522)		
492823.25	3626567.17	937.43546	(22102522)	492838.34

3626526.92	691.28217	(22012923)		
493039.78	3625834.45	372.16210	(22071905)	492791.92
3626663.04	943.87460	(21113001)		
492731.11	3626741.92	909.53619	(22102522)	492774.75
3626728.05	597.32520	(21113001)		
492674.05	3626738.96	569.36679	(21072302)	492708.49
3626698.47	734.46392	(21072302)		
493013.27	3625844.49	362.50573	(22071905)	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:47:11

PAGE 68

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	490879.18	491073.28	491267.38
491461.48	491655.58		

3628507.6	66.90792 (21052422)	76.59530 (22072901)	80.39053 (22062102)
92.71990 (20090706)	71.71806 (20122121)		
3628311.7	78.68910 (22090601)	76.22175 (22080803)	98.28531 (22072901)
90.27599 (22102622)	102.66074 (20050702)		
3628115.8	78.29932 (21092903)	96.13341 (22090601)	82.39374 (22080803)
109.85047 (22062102)	105.31989 (20090706)		
3627920.0	87.97643 (21011618)	89.53363 (21092903)	111.21111 (22090601)
93.45057 (22072901)	112.31635 (22062102)		
3627724.1	81.61046 (22051505)	100.49066 (21011618)	100.22385 (21092903)
120.02507 (22090601)	128.64269 (22072901)		
3627528.3	92.33916 (20101702)	94.23633 (22032023)	113.11721 (21011618)
110.98122 (21092903)	119.91568 (21052422)		
3627332.4	97.82607 (21052423)	108.35520 (22122902)	110.10362 (22032023)
125.40863 (21011618)	116.68072 (21092903)		
3627136.5	106.77087 (22042905)	109.00405 (22120522)	123.52937 (22122902)
119.40678 (22032023)	142.04705 (21040201)		
3626940.7	122.46634 (20081623)	126.50384 (22090223)	121.35794 (22092824)

136.04704	(21052423)	121.19434	(20101805)	
3626744.8	119.74187	(21021622)	131.75145	(20080201) 145.63885 (20081623)
144.55666	(21081604)	138.65378	(22120522)	
3626549.0	118.48136	(22011221)	135.52621	(21093023) 137.47307 (21012123)
160.92037	(20080201)	171.56133	(20081623)	
3626353.1	133.42504	(21022323)	155.04604	(22042401) 157.09212 (22101701)
163.10784	(21040202)	189.80939	(22090602)	
3626157.2	131.48006	(20080123)	145.43354	(20080123) 167.07953 (22111307)
186.13410	(20042623)	210.58134	(21022323)	
3625961.4	137.38186	(20101523)	148.11161	(20101523) 153.94101 (20101523)
181.69976	(22061923)	217.55206	(22061923)	
3625765.5	146.22031	(22081005)	168.27370	(22081005) 181.00284 (22081005)
193.63289	(20051622)	215.30710	(20051622)	
3625569.7	129.58465	(20121324)	151.30952	(20070603) 174.66250 (20052123)
193.37028	(22042923)	198.23591	(20103021)	
3625373.8	133.99191	(21050502)	145.28450	(20103020) 159.90038 (20021206)
193.06097	(20052024)	207.99473	(22092004)	
3625177.9	130.90907	(22110522)	155.77378	(22092004) 174.15116 (20041622)
177.83015	(22092801)	217.02612	(22050405)	
3624982.1	132.60117	(20021723)	150.97138	(22092801) 173.92268 (22050405)
184.17318	(20051323)	200.13851	(20041521)	
3624786.2	147.33701	(22050405)	148.63818	(20051323) 160.31311 (20122604)
188.39190	(21040222)	195.64646	(21031622)	
3624590.4	129.81839	(21030301)	148.78542	(20012122) 160.88992 (21110822)
165.64915	(21031622)	189.90328	(20050604)	

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:47:11

PAGE 69

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)
492431.98	491849.68	492043.78
	492626.08	492237.88

3628507.6	113.37040	(22090703)	100.02872	(20111805)	81.76057	(21030323)

112.62120 (21081223)	104.82793 (21071322)	
3628311.7 106.85175 (22090703)	113.31212 (22122822)	117.85092 (20101705)
128.02146 (21081223)	117.55465 (21071322)	
3628115.8 88.46856 (20122121)	125.27390 (22090703)	139.09003 (20111805)
116.68884 (22080905)	120.53108 (21071322)	
3627920.0 124.85846 (20050702)	133.24420 (22090703)	126.03614 (20111805)
131.90970 (22080905)	110.27778 (22062022)	
3627724.1 118.39118 (22102622)	119.31571 (22102522)	146.22499 (22122822)
131.71965 (20101705)	126.17571 (22062022)	
3627528.3 143.28216 (22072901)	140.37110 (20090706)	160.72007 (22090703)
177.10101 (20111805)	182.14711 (21081223)	
3627332.4 123.64680 (22080803)	138.77074 (22062102)	161.59882 (22102522)
174.70076 (22122822)	186.56028 (22080905)	
3627136.5 128.33215 (22090601)	144.51202 (22072901)	157.67106 (20090706)
193.27595 (22090703)	171.23870 (22080905)	
3626940.7 164.77559 (21040201)	161.23293 (22090601)	187.98686 (22072901)
194.83970 (22102522)	218.26215 (20111805)	
3626744.8 160.37197 (22122902)	207.56637 (21040201)	217.80031 (22090601)
179.51991 (22062102)	248.67294 (22090703)	
3626549.0 175.69440 (21081604)	225.18176 (21052423)	255.20319 (21040201)
235.91513 (22090601)	257.47501 (22102522)	
3626353.1 175.30069 (20080201)	236.30447 (22090223)	236.15415 (22120522)
321.90538 (21040201)	355.85100 (22072901)	
3626157.2 225.76610 (22110520)	239.28696 (21040202)	279.11759 (21021622)
338.51023 (22090223)	396.37499 (22032023)	
3625961.4 237.77427 (22051301)	244.79818 (21010801)	275.05638 (20080123)
326.08544 (21092022)	473.14183 (21040202)	
3625765.5 234.97415 (20051622)	266.24676 (22090201)	288.43975 (22090201)
357.52144 (20070603)	453.39270 (20103021)	
3625569.7 219.46225 (20103020)	226.20578 (20021206)	261.21640 (22081101)
310.51047 (20011918)	388.10376 (20051324)	
3625373.8 232.75195 (20041622)	237.75336 (20011918)	248.38871 (20041521)
316.64108 (21031622)	347.17943 (21071905)	
3625177.9 221.66966 (22051302)	251.32443 (21040222)	225.96688 (22120502)
309.49382 (22062801)	332.30302 (21031722)	
3624982.1 229.84575 (21110822)	240.67063 (20050604)	242.64616 (21081303)
298.79655 (21040801)	344.08691 (20021622)	
3624786.2 219.86933 (20050604)	242.61767 (21081303)	230.19985 (22100802)
266.75780 (22081602)	266.72575 (20112021)	
3624590.4 217.34873 (21081303)	223.84234 (21071905)	249.61986 (20060802)
268.21734 (20021622)	267.94605 (22103002)	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 70

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	492820.18	493014.28	493208.38
493402.48		493596.58	

3628507.6	114.34319 (22103119)	101.26114 (22050623)	106.74687 (20081922)
102.01123 (20022901)	122.67233 (20031321)		
3628311.7	113.35002 (22103119)	111.32071 (22050623)	117.11664 (20081922)
125.38188 (21100706)	127.73371 (20022304)		
3628115.8	116.80204 (22062723)	124.73047 (22050623)	152.44033 (20081922)
162.72534 (21100706)	144.72663 (22061421)		
3627920.0	144.52506 (22062723)	134.77489 (22050623)	166.20734 (20081922)
183.55620 (21100706)	164.48914 (22061421)		
3627724.1	198.60856 (22062723)	172.23814 (22050623)	169.01346 (20081922)
160.28319 (20031321)	171.34543 (22043024)		
3627528.3	185.84182 (22062723)	179.11831 (22050623)	192.67960 (20022901)
186.36863 (20031321)	188.97126 (21081221)		
3627332.4	186.49656 (22062723)	194.10874 (22050623)	225.56794 (20022901)
210.22116 (22061421)	161.89893 (21081221)		
3627136.5	167.70290 (21071322)	188.79162 (22050623)	204.14413 (20022901)
169.81763 (22043024)	239.10601 (20101624)		
3626940.7	194.29445 (22062022)	210.67275 (22050623)	219.21010 (21100706)
207.48052 (21081221)	162.71417 (21080821)		
3626744.8	245.17817 (22062022)	247.33471 (22050623)	245.90589 (20031321)
251.78988 (20101624)	183.39224 (22081324)		
3626549.0	326.81322 (22080905)	297.86217 (22090503)	290.49308 (22061421)
230.22019 (20100320)	234.10643 (21122302)		
3626353.1	420.90369 (20111805)	376.57498 (22090503)	371.57891 (21081221)
346.80221 (22081324)	338.00402 (22091021)		
3626157.2	512.16625 (22102522)	601.89866 (22090503)	486.63279 (22081324)
447.10688 (22091021)	321.00310 (22051721)		
3625961.4	675.26301 (21052423)	1033.17368 (20022901)	761.99634 (20081923)
589.90455 (21072203)	399.20460 (21110518)		
3625765.5	785.99574 (22092801)	1127.28280 (22092602)	911.30131 (21020719)
649.64150 (21083001)	507.99963 (22091223)		
3625569.7	539.86114 (21040801)	797.75885 (22081103)	572.87576 (22100904)
490.70227 (22082502)	481.18539 (21070803)		
3625373.8	481.71482 (21040224)	452.23647 (21101320)	448.01163 (22070601)
399.95994 (22080701)	360.91586 (20071003)		
3625177.9	379.34351 (20121620)	440.74659 (21101320)	405.28522 (21061223)

406.56833	(22072201)	379.77281	(20051621)		
3624982.1		365.48180	(20021621)	406.10578	(22082605)
349.82154	(21080802)	334.28974	(21092804)		386.98895 (20031421)
3624786.2		321.67435	(20021220)	372.67483	(22082605)
329.81186	(21013120)	330.66681	(22080705)		361.06492 (21030703)
3624590.4		269.80422	(20070424)	344.15518	(22082605)
314.54604	(21061223)	295.11890	(22081002)		345.66698 (22090723)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 71

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***
INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD				X-COORD (METERS)
(METERS)		493790.68	493984.78	494178.88
494372.98		494567.08		

3628507.6		112.20434	(22043024)	117.90569	(21081221)	92.24059	(22082322)
42.16724	(22091722)	60.51297	(20100320)				
3628311.7		132.23565	(22043024)	97.96706	(22050622)	95.33011	(21072221)
71.00841	(21080821)	60.96345	(20100320)				
3628115.8		156.37387	(21081221)	131.05950	(22082322)	57.68485	(22091722)
72.24491	(20100320)	84.53378	(22081324)				
3627920.0		147.92550	(21081221)	161.91790	(20101624)	92.90325	(21080821)
70.89413	(21081621)	88.68219	(21040924)				
3627724.1		144.24099	(22082322)	115.40099	(21072221)	116.31844	(20100320)
124.49028	(22081324)	112.21874	(22051722)				
3627528.3		197.18922	(20101624)	149.28954	(20100320)	190.15256	(22081324)
162.58826	(21122302)	164.28398	(21052203)				
3627332.4		144.90950	(21080821)	163.63386	(22081324)	197.81930	(21122302)
181.21145	(21052203)	157.38612	(22061501)				
3627136.5		195.06883	(20100320)	201.89083	(21040924)	185.77412	(21052203)
182.88071	(22061501)	227.78161	(22091021)				
3626940.7		250.74652	(22081324)	177.45632	(21070722)	200.72176	(22061501)
223.10802	(22091021)	167.10432	(20081923)				
3626744.8		174.14419	(21070722)	193.86745	(22061501)	162.25514	(22091021)

194.22297 (20081923)	180.04674 (20071323)	
3626549.0 253.10692 (22061501)	198.17922 (22121802)	192.88260 (20071323)
181.55150 (22051721)	162.06621 (21090103)	
3626353.1 308.84775 (20081923)	254.97126 (22051721)	188.83915 (21090103)
264.59196 (20081602)	256.87579 (21072203)	
3626157.2 334.15102 (20081602)	355.02755 (21072203)	229.22497 (22102102)
221.56300 (21012119)	246.37366 (21080324)	
3625961.4 307.41585 (20062123)	346.10435 (20062123)	306.56561 (20062123)
260.15646 (20031703)	279.86819 (20031703)	
3625765.5 440.21176 (21020619)	406.51706 (21020619)	350.96543 (21020619)
319.10678 (22091222)	289.08168 (22091222)	
3625569.7 429.46386 (21020719)	405.66196 (21091323)	356.23653 (21040722)
312.86029 (21040722)	314.66447 (20070924)	
3625373.8 370.90731 (20110219)	361.84042 (21052723)	347.77963 (21072102)
318.73805 (21020719)	280.79754 (20041206)	
3625177.9 332.62352 (20042722)	347.51245 (22082502)	322.44517 (21063023)
309.09947 (21052723)	284.04066 (21072222)	
3624982.1 341.07234 (20051621)	302.49913 (22040123)	298.40160 (22082523)
294.62226 (22073105)	282.91843 (21063023)	
3624786.2 292.79776 (20041404)	301.77334 (20110221)	252.39430 (22040123)
219.63858 (20071003)	251.90973 (22082502)	
3624590.4 281.92112 (22072201)	234.31991 (21111920)	272.56727 (20110221)
224.72142 (20050501)	224.49973 (20071003)	

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 72

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	54.48585 (21081621)
3628311.7	94.24744 (22081324)
3628115.8	83.06121 (21122302)
3627920.0	69.23383 (22051722)

3627724.1		104.51280	(21052203)
3627528.3		104.18927	(22061501)
3627332.4		169.54165	(22091021)
3627136.5		129.85961	(22121802)
3626940.7		152.65218	(20071323)
3626744.8		178.02467	(22051721)
3626549.0		164.78398	(21110620)
3626353.1		187.48713	(22102102)
3626157.2		210.26279	(22072121)
3625961.4		240.34111	(20031703)
3625765.5		248.17617	(22091222)
3625569.7		231.62228	(22091124)
3625373.8		291.89851	(21091323)
3625177.9		272.19812	(20092322)
3624982.1		264.17214	(21052723)
3624786.2		220.17046	(20092021)
3624590.4		233.23112	(22041522)

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:47:11

PAGE 73

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

 *** DISCRETE CARTESIAN RECEPTOR POINTS

 ** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

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

492883.25	3625830.80	983.49207	(22081005)	492919.80
3625834.65	909.70878	(21061601)		
492955.07	3625845.55	655.95337	(22092802)	493069.86
3625832.73	1714.13040	(22011423)		
493094.87	3625832.73	1540.70684	(21092324)	493110.90
3625837.21	1486.73131	(20101806)		
493151.95	3625834.01	1287.50854	(21092324)	493166.70
3625837.86	1226.39395	(20101806)		
493187.86	3625836.57	1141.24524	(20101806)	493201.33
3625836.57	1092.11496	(20101806)		
493240.44	3625836.57	977.09868	(20090820)	492881.32

3625908.40	812.43261	(21081604)	
492906.98	3625898.14	800.46915	(21081604) 492901.84
3625911.60	841.35904	(22032023)	
492928.14	3625914.81	823.02152	(21040201) 492933.91
3625898.14	856.76730	(21040201)	
492951.87	3625908.40	917.42059	(22102522) 492973.67
3625907.11	933.12857	(20111805)	
492993.55	3625914.17	1002.10337	(22090503) 492996.11
3625897.50	773.43375	(20011819)	
493015.99	3625896.85	820.65320	(22010702) 493023.05
3625912.24	1129.22407	(21081221)	
493044.21	3625907.11	1391.35349	(22010702) 493066.66
3625907.76	1242.31372	(22010702)	
493085.25	3625912.24	934.19048	(21052203) 493087.18
3625895.57	1128.14501	(20081923)	
493108.98	3625911.60	1009.23776	(20081923) 493112.19
3625897.50	1035.05140	(20071323)	
493133.99	3625901.98	954.08958	(20071323) 492874.27
3625788.48	893.28753	(20011918)	
492894.15	3625789.12	946.21878	(20011918) 492910.18
3625790.40	915.21201	(20011918)	
492930.70	3625786.55	978.79109	(22120301) 492947.38
3625791.04	1098.27876	(22120301)	
492963.41	3625787.84	934.07074	(20021622) 492982.65
3625787.84	925.72537	(22012923)	
492999.96	3625787.84	932.59716	(22012923) 493021.12
3625791.04	1128.50582	(22092602)	
493036.52	3625789.12	1167.91826	(21081022) 493055.75
3625789.76	1209.69491	(22051422)	
493076.28	3625787.84	1293.32340	(21072003) 493094.87
3625787.84	1442.81746	(22082504)	
493112.83	3625788.48	1234.76646	(20082306) 493129.50
3625787.19	1145.40962	(22092902)	
493148.74	3625787.19	1075.30479	(22092902) 493164.77
3625790.40	1072.80501	(20082305)	
493184.65	3625789.12	1014.88709	(20082305) 493201.97
3625791.04	1001.54677	(21040722)	
493221.21	3625790.40	964.75544	(21040722) 493238.52
3625791.04	920.52934	(21083001)	
492780.00	3626415.01	341.54217	(20111805) 492778.72
3626388.08	360.79881	(22090703)	
492747.94	3626386.16	376.97944	(22090703) 492742.16
3626418.22	370.54090	(22090703)	
492699.20	3626422.71	352.60494	(22102522) 492697.92
3626391.93	335.78407	(22102522)	
492678.68	3626411.81	321.83932	(20050702) 492626.09
3626426.56	302.33161	(22062102)	
492606.85	3626435.54	315.78330	(22072901) 492599.16
3626405.39	344.03950	(22072901)	
492491.20	3626644.88	221.71507	(22062102) 492517.36

3626636.70	216.71334	(20090706)		
492521.18	3626603.45	226.68829	(22062102)	492521.72
3626582.19	247.61868	(22062102)		
492512.46	3626553.84	275.87525	(22072901)	492513.55
3626533.13	278.92031	(22072901)		
492501.01	3626506.42	251.65507	(22072901)	492490.65
3626485.70	258.27195	(22090601)		
492479.21	3626464.45	284.81019	(22090601)	492466.12
3626447.00	276.00685	(22090601)		
492447.59	3626418.66	273.65090	(22092901)	492431.78
3626430.65	271.02464	(22092901)		
492481.93	3626620.35	248.39884	(22072901)	492482.48
3626594.18	266.63732	(22072901)		
492479.21	3626572.92	267.98009	(22072901)	492477.02
3626546.76	251.82746	(22072901)		
492467.76	3626523.32	237.18563	(22090601)	492463.94
3626507.51	261.21807	(22090601)		
492450.86	3626492.79	274.91848	(22090601)	492427.42
3626474.80	246.43029	(22090601)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 74

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	264.84613	(22092901)	492803.94
3626616.07	309.26215	(22080905)		
492823.25	3626567.17	316.05286	(22080905)	492838.34
3626526.92	319.65092	(22080905)		
493039.78	3625834.45	1506.87379	(22011423)	492791.92
3626663.04	297.22195	(22080905)		
492731.11	3626741.92	243.51013	(20111805)	492774.75
3626728.05	278.69353	(22080905)		
492674.05	3626738.96	265.67647	(20111805)	492708.49

3626698.47 297.04780 (20111805)
493013.27 3625844.49 646.68587 (22090503)

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:47:11

PAGE 75

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	490879.18	491073.28	491267.38
491461.48	491655.58		

3628507.6		116.49099 (21011618)	136.57430 (21031402)	139.87882 (22090601)
150.85172		(22072901)	101.62572 (22102622)	
3628311.7		127.21427 (22032023)	126.07107 (21011618)	144.84119 (21031402)
127.82416		(22090601)	176.97025 (22072901)	
3628115.8		131.10954 (22122902)	138.14420 (22032023)	147.52325 (21040201)
151.05866		(21031402)	137.27996 (22060102)	
3627920.0		118.75684 (20101707)	146.81749 (21052423)	143.36586 (20101805)
172.23275		(21040201)	176.07695 (22011702)	
3627724.1		150.66344 (22090223)	141.79117 (22120202)	157.16036 (21052423)
150.21826		(20101805)	212.78719 (21040201)	
3627528.3		131.12441 (22053003)	168.17369 (20081623)	163.43655 (21081604)
155.77086		(20031323)	189.10508 (22122902)	
3627332.4		152.86580 (21093023)	147.68036 (21020722)	161.79397 (20061501)
198.88622		(20081623)	211.28490 (21081604)	
3627136.5		156.94639 (22110520)	160.10213 (20101220)	178.65462 (21040202)
180.25683		(22042601)	185.39162 (21021623)	
3626940.7		146.40151 (22092202)	165.03071 (22011703)	168.77752 (21010724)
170.99079		(21092022)	201.84436 (22110520)	
3626744.8		168.83510 (21052505)	184.35244 (21052505)	184.90240 (21101723)
193.92850		(22040523)	213.25059 (22040523)	
3626549.0		172.76765 (20061101)	181.49723 (20061101)	171.67077 (20051622)
207.50250		(20010922)	227.74971 (20010922)	
3626353.1		163.73030 (20070603)	202.47980 (20052123)	209.82719 (20103021)

218.76612 (21050502)	249.22631 (20061223)		
3626157.2 155.14908 (20061223)	165.34379 (22040823)	204.59322 (22110522)	
232.82789 (22081101)	233.06103 (20102405)		
3625961.4 152.32187 (22081101)	159.58250 (22012620)	171.47882 (22040423)	
184.44755 (22050405)	224.22098 (20071603)		
3625765.5 147.65056 (22040423)	173.07760 (20101105)	175.65432 (22051302)	
174.98904 (20101401)	182.12767 (21071703)		
3625569.7 158.31383 (22051302)	163.91918 (20022424)	208.51927 (22042324)	
206.48602 (21031622)	208.49370 (20052324)		
3625373.8 152.73276 (20101401)	180.08844 (20051324)	161.34306 (20061423)	
210.33496 (20052324)	215.48533 (21081303)		
3625177.9 140.46022 (21071703)	176.43223 (20011322)	199.17482 (20052324)	
192.79818 (21081303)	218.34277 (21071905)		
3624982.1 142.56318 (22120502)	190.23035 (20052324)	192.26295 (21081303)	
178.64881 (21071905)	198.16307 (21040801)		
3624786.2 177.36112 (20052324)	170.90375 (21081303)	169.03727 (22111601)	
189.17847 (22100802)	199.38891 (20060802)		
3624590.4 166.38593 (21081303)	158.81866 (22040601)	153.72997 (22100802)	
180.26653 (20050524)	190.15245 (22081602)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 76

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

*** CONC OF PM₁₀ IN MICROGRAMS/M³

Y-COORD (METERS)			X-COORD (METERS)
491849.68		492043.78	492237.88
492431.98	492626.08		

3628507.6 120.49024 (22102522)	122.89390 (22122822)	117.20823 (22080905)
126.17091 (22062022)	133.62321 (22062723)	
3628311.7 126.15591 (20090706)	146.19772 (22090703)	149.84839 (20111805)
128.48832 (22062022)	150.04974 (22062723)	
3628115.8 129.95593 (22062102)	148.95377 (22102522)	135.50173 (20111805)
147.91912 (22080905)	161.61049 (22062723)	
3627920.0 174.65413 (22060102)	131.44582 (20090706)	166.25943 (22090703)

163.94683 (22080905)	146.06234 (22062723)		
3627724.1 193.94836 (22011702)	228.56663 (22072901)	180.80546 (22102522)	
160.17048 (20111805)	131.60389 (22062723)		
3627528.3 236.30868 (21040201)	219.68473 (22090601)	167.66604 (22072901)	
172.09421 (22090703)	185.51358 (22062022)		
3627332.4 209.35911 (21052423)	232.26340 (21040201)	263.62528 (22090601)	
231.64498 (22101422)	233.17378 (22080905)		
3627136.5 213.38320 (20081623)	198.14569 (20031323)	259.36528 (22032023)	
284.28595 (20070601)	236.06588 (20111805)		
3626940.7 220.83633 (21040202)	222.28485 (21020722)	261.75049 (20081623)	
322.63967 (22032023)	337.92190 (22072901)		
3626744.8 274.01767 (22040523)	302.62168 (22062101)	357.32511 (22011703)	
380.97327 (21021501)	620.14627 (21081604)		
3626549.0 235.38215 (20010922)	287.79924 (20081402)	352.70755 (21112923)	
427.14769 (22010622)	554.40579 (21100302)		
3626353.1 227.65078 (22040823)	294.26877 (22081101)	320.12465 (20011918)	
438.38782 (20051324)	540.55854 (20011823)		
3626157.2 242.14559 (22050405)	265.07150 (20101401)	317.26010 (20061423)	
376.40967 (21071905)	407.12865 (21101920)		
3625961.4 265.66787 (22042324)	257.40518 (20120120)	270.50686 (22062801)	
316.18921 (22081602)	317.59750 (20021621)		
3625765.5 207.59976 (20050604)	229.14384 (22062801)	252.78397 (22050923)	
298.66321 (21040224)	294.11787 (20021220)		
3625569.7 224.45197 (21071602)	209.76393 (21040801)	215.50062 (21032821)	
256.52521 (20112021)	247.52377 (20070424)		
3625373.8 218.57676 (21071905)	234.08464 (20092303)	233.82640 (20021622)	
242.48136 (20121620)	240.27094 (20090401)		
3625177.9 218.88338 (20050524)	209.02407 (21092101)	189.53663 (20091424)	
206.19332 (21020924)	234.82739 (20090401)		
3624982.1 215.18508 (21031722)	220.05418 (20021622)	212.86567 (20112021)	
213.31450 (20021621)	216.99542 (20101822)		
3624786.2 179.13736 (21092101)	193.69132 (20091424)	175.39237 (20070224)	
203.73295 (20021220)	220.65379 (20101822)		
3624590.4 193.53031 (20021622)	178.67265 (21102022)	175.16732 (20121620)	
185.76245 (20021220)	221.77994 (20101822)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:47:11

PAGE 77

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)				X-COORD (METERS)
	492820.18		493014.28	493208.38
493402.48		493596.58		

3628507.6	180.44566 (22050623)	140.77811 (20022901)	174.81543 (20031321)	
138.87584 (22043024)	137.49233 (22082322)			
3628311.7	193.09803 (22050623)	173.95522 (20022901)	150.70728 (20022304)	
157.25049 (21081221)	194.35620 (20101624)			
3628115.8	186.90619 (22050623)	209.93244 (20022901)	177.80414 (22061421)	
139.50514 (22082322)	125.43882 (21080821)			
3627920.0	204.93154 (22050623)	187.39800 (21100706)	184.46206 (22043024)	
238.09255 (20101624)	167.34836 (20100320)			
3627724.1	272.63917 (22090503)	239.40576 (20031321)	193.75723 (21081221)	
153.86383 (20100320)	208.43501 (22081324)			
3627528.3	269.89657 (22090503)	257.48405 (20031321)	284.34837 (20101624)	
243.31329 (22081324)	213.52838 (21052203)			
3627332.4	313.26132 (22090503)	257.89817 (22043024)	242.90147 (20100320)	
234.42642 (21070722)	235.74955 (22091021)			
3627136.5	324.73930 (22090503)	273.85269 (20101624)	218.89990 (21122302)	
246.34911 (22091021)	221.67644 (20071323)			
3626940.7	448.79473 (22090503)	377.36183 (22010702)	286.06449 (22091021)	
251.69126 (22051721)	262.21751 (20081602)			
3626744.8	756.39269 (20022901)	464.72368 (22051721)	335.40089 (21072203)	
266.47652 (22072121)	208.10424 (20062123)			
3626549.0	972.94743 (22081103)	567.55244 (21072102)	448.64694 (21040722)	
325.13835 (20070924)	257.11882 (22091223)			
3626353.1	664.71951 (22081103)	501.16717 (22122323)	412.47608 (22082523)	
329.90854 (21052723)	291.10309 (20092322)			
3626157.2	451.49638 (22080704)	279.07402 (22121819)	381.33391 (22080701)	
292.58773 (20071201)	284.84411 (22073105)			
3625961.4	358.86209 (22082605)	225.90126 (21061223)	245.42024 (22072201)	
322.14830 (20051621)	265.68414 (20071201)			
3625765.5	320.16010 (22082605)	207.96797 (21080902)	196.59816 (22081002)	
218.70541 (20041404)	280.20014 (20051621)			
3625569.7	286.84151 (22082605)	181.46558 (21030703)	183.43259 (22071602)	
188.15467 (21071002)	210.08148 (20041404)			
3625373.8	271.59464 (22082605)	157.64481 (21030703)	160.08114 (21060903)	
162.28685 (22081002)	170.29998 (22072201)			
3625177.9	254.96645 (22082605)	152.05709 (20042523)	160.92421 (21080902)	
151.92678 (22071602)	157.88884 (21071002)			
3624982.1	237.94603 (22082605)	134.75981 (22052124)	147.26252 (21080902)	
130.63197 (21013120)	143.51216 (22081002)			
3624786.2	224.56358 (22082605)	132.38859 (22052124)	139.65636 (20052502)	
129.27884 (20121619)	124.12219 (22121819)			
3624590.4	212.21952 (22082605)	123.05340 (22052124)	125.36690 (21030703)	

125.27970 (21061223) 126.96852 (22071602)
▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 78

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	493790.68	493984.78	494178.88
494372.98	494567.08		

3628507.6	105.34727 (21080821)	115.46384 (20100320)	111.49076 (21040924)
70.06941 (22051722)	93.17188 (21052203)		
3628311.7	147.21643 (20100320)	169.19730 (22081324)	86.60175 (22051722)
95.03564 (21052203)	75.87674 (22061501)		
3628115.8	171.11473 (22081324)	149.54323 (21122302)	117.45956 (21052203)
79.52501 (22061501)	99.01648 (22091021)		
3627920.0	174.90351 (21122302)	163.83528 (21052203)	95.54715 (22061501)
106.02153 (22091021)	76.15811 (21052202)		
3627724.1	194.98727 (21052203)	149.21326 (22061501)	123.00829 (22091021)
113.69040 (20081923)	120.12564 (20071323)		
3627528.3	178.11306 (22091021)	152.35039 (22121802)	149.53103 (20081923)
126.64566 (20071323)	144.16364 (22051721)		
3627332.4	195.68802 (20081923)	178.96456 (20071323)	175.12362 (22051721)
135.11734 (21090103)	165.17242 (20081602)		
3627136.5	212.61262 (22051721)	174.98014 (20081602)	197.86534 (21072203)
170.32928 (21072203)	128.64574 (21053101)		
3626940.7	216.65271 (21072203)	146.67108 (21020803)	172.33092 (21110518)
173.10188 (22072121)	145.35269 (22072121)		
3626744.8	192.39360 (20062123)	170.81482 (20031703)	171.21998 (20031703)
165.73145 (20031703)	157.78993 (20031703)		
3626549.0	228.78249 (21020619)	217.48823 (21020619)	191.59344 (21020619)
175.62431 (21020619)	163.74397 (22091222)		
3626353.1	255.39322 (21091323)	228.55005 (22070202)	208.11952 (21040722)
211.16518 (20070924)	189.57239 (20070924)		
3626157.2	261.45126 (21052723)	230.50795 (21072102)	214.10158 (20092322)

172.48015 (20062523)	194.92324 (21091323)	
3625961.4 240.31008 (22082502)	224.29738 (21063023)	216.22349 (21052723)
199.74435 (21072222)	179.38211 (20092322)	
3625765.5 221.40633 (20042722)	230.08048 (22041522)	213.63764 (22073105)
202.08663 (21063023)	187.52143 (21052723)	
3625569.7 240.97976 (20110221)	191.73705 (20050501)	165.43695 (21071124)
184.30955 (22082502)	179.58070 (22073105)	
3625373.8 205.86521 (21111920)	216.58027 (20110221)	183.29572 (20050501)
175.37820 (21071124)	186.19583 (22041522)	
3625177.9 145.21694 (20080301)	198.97170 (22081224)	189.23838 (20101720)
171.75052 (20050501)	175.15694 (20071201)	
3624982.1 152.16022 (22072201)	159.53411 (20041404)	173.80667 (22080701)
173.34491 (20101720)	158.39707 (20050501)	
3624786.2 131.72594 (22010819)	131.02798 (22050521)	145.83447 (20041404)
150.08605 (22080701)	160.88449 (22070621)	
3624590.4 129.39921 (22081002)	132.43213 (20101621)	120.39609 (20080301)
145.83286 (21111920)	147.89643 (21030821)	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 79

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	76.59571 (22061501)
3628311.7	102.16190 (22091021)
3628115.8	71.17828 (22082422)
3627920.0	89.92700 (20081923)
3627724.1	77.82966 (22080822)
3627528.3	101.53518 (21090103)
3627332.4	141.45229 (21072203)
3627136.5	104.14536 (21012119)
3626940.7	121.79922 (20082204)
3626744.8	143.26254 (20031703)

3626549.0		154.76918	(22091222)
3626353.1		150.08968	(21083001)
3626157.2		175.17694	(22070202)
3625961.4		172.24795	(20092322)
3625765.5		170.70088	(20090703)
3625569.7		177.84671	(21063023)
3625373.8		161.71323	(22073105)
3625177.9		165.43834	(22041522)
3624982.1		166.23700	(20071201)
3624786.2		148.39643	(21050422)
3624590.4		145.40248	(22070621)

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:47:11

PAGE 80

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

492883.25	3625830.80	307.79902	(22081103)	492919.80
3625834.65	203.31330	(20042523)		
492955.07	3625845.55	211.89757	(21030703)	493069.86
3625832.73	210.88725	(21060903)		
493094.87	3625832.73	200.16984	(22071602)	493110.90
3625837.21	212.21937	(22071602)		
493151.95	3625834.01	201.22462	(22121819)	493166.70
3625837.86	196.58377	(22081002)		
493187.86	3625836.57	216.18660	(22081002)	493201.33
3625836.57	219.27332	(22010819)		
493240.44	3625836.57	214.32972	(21071002)	492881.32
3625908.40	307.72901	(22081103)		
492906.98	3625898.14	210.74256	(20042523)	492901.84
3625911.60	222.98747	(22081103)		
492928.14	3625914.81	221.13615	(21030703)	492933.91
3625898.14	219.06228	(21030703)		
492951.87	3625908.40	219.27477	(20052502)	492973.67

3625907.11	222.15761	(21080902)	
492993.55	3625914.17	233.60588	(21080902) 492996.11
3625897.50	231.26441	(21080902)	
493015.99	3625896.85	220.74429	(21080902) 493023.05
3625912.24	221.13189	(21061223)	
493044.21	3625907.11	221.36848	(21060903) 493066.66
3625907.76	212.08362	(21060903)	
493085.25	3625912.24	223.61617	(22071602) 493087.18
3625895.57	220.30892	(22071602)	
493108.98	3625911.60	212.62968	(22071602) 493112.19
3625897.50	212.91072	(22071602)	
493133.99	3625901.98	206.59369	(22121819) 492874.27
3625788.48	333.35872	(22081103)	
492894.15	3625789.12	274.15433	(22081103) 492910.18
3625790.40	215.77776	(22081103)	
492930.70	3625786.55	198.00771	(20042523) 492947.38
3625791.04	204.27238	(21030703)	
492963.41	3625787.84	205.51779	(21030703) 492982.65
3625787.84	205.99611	(20052502)	
492999.96	3625787.84	204.57323	(20052502) 493021.12
3625791.04	216.57167	(21080902)	
493036.52	3625789.12	212.89032	(21080902) 493055.75
3625789.76	205.45476	(21061223)	
493076.28	3625787.84	203.14280	(21060903) 493094.87
3625787.84	204.00457	(21060903)	
493112.83	3625788.48	195.79240	(22071602) 493129.50
3625787.19	205.81403	(22071602)	
493148.74	3625787.19	203.89172	(22071602) 493164.77
3625790.40	195.84574	(22121819)	
493184.65	3625789.12	191.68955	(22121819) 493201.97
3625791.04	204.97182	(22081002)	
493221.21	3625790.40	213.42758	(22081002) 493238.52
3625791.04	218.77623	(22010819)	
492780.00	3626415.01	751.49580	(21060405) 492778.72
3626388.08	711.44612	(21060405)	
492747.94	3626386.16	675.90983	(20021621) 492742.16
3626418.22	688.43848	(20121620)	
492699.20	3626422.71	653.69521	(20060722) 492697.92
3626391.93	631.26586	(20021622)	
492678.68	3626411.81	644.81354	(21020303) 492626.09
3626426.56	600.13943	(22062801)	
492606.85	3626435.54	586.72281	(20081404) 492599.16
3626405.39	562.39547	(22030622)	
492491.20	3626644.88	486.89398	(22092802) 492517.36
3626636.70	495.15916	(21090703)	
492521.18	3626603.45	526.08795	(20010922) 492521.72
3626582.19	529.22524	(20051601)	
492512.46	3626553.84	508.80485	(21041723) 492513.55
3626533.13	514.12947	(20121705)	
492501.01	3626506.42	483.22356	(20022504) 492490.65

3626485.70	485.13085	(20011918)		
492479.21	3626464.45	456.58381	(20112420)	492466.12
3626447.00	452.17603	(20112420)		
492447.59	3626418.66	414.40360	(20071603)	492431.78
3626430.65	424.19436	(20112420)		
492481.93	3626620.35	472.48133	(20061101)	492482.48
3626594.18	488.07325	(22111006)		
492479.21	3626572.92	491.91221	(20051601)	492477.02
3626546.76	479.22595	(21041723)		
492467.76	3626523.32	478.64271	(20121705)	492463.94
3626507.51	461.32311	(20082202)		
492450.86	3626492.79	450.88341	(21030901)	492427.42
3626474.80	434.37667	(20102405)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 81

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	415.03404	(20102405)	492803.94
3626616.07	781.94879	(22090105)		
492823.25	3626567.17	919.60956	(22090105)	492838.34
3626526.92	643.27880	(22081103)		
493039.78	3625834.45	211.23045	(21061223)	492791.92
3626663.04	891.77541	(20070601)		
492731.11	3626741.92	971.23627	(20070601)	492774.75
3626728.05	616.00203	(22072901)		
492674.05	3626738.96	776.48694	(20112205)	492708.49
3626698.47	944.31540	(22090104)		
493013.27	3625844.49	223.19656	(21080902)	

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:47:11

PAGE 82

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
491461.48	490879.18	491655.58	491267.38

3628507.6	78.39532 (21040201)	85.07858 (22092901)	99.12499 (22090601)
97.25440 (22072901)	91.56698 (22102622)		
3628311.7	79.46553 (22032023)	88.52264 (21040201)	89.97621 (22092901)
104.13458 (22090601)	119.01952 (22072901)		
3628115.8	83.89088 (22122902)	80.62707 (22032023)	98.19686 (21040201)
96.95325 (22092901)	105.84136 (22090601)		
3627920.0	75.91373 (22092824)	92.60144 (21052423)	84.45053 (20101805)
108.77961 (21040201)	111.45315 (22092901)		
3627724.1	90.31872 (22090223)	92.02610 (21081604)	83.52201 (21052423)
105.02834 (22122902)	129.63474 (21040201)		
3627528.3	88.37816 (21021622)	98.43247 (20050803)	107.76291 (22090223)
110.40803 (21081604)	130.48565 (21052423)		
3627332.4	97.12907 (21040202)	104.03429 (21093023)	102.29003 (21021622)
117.61923 (20050803)	128.78141 (22090223)		
3627136.5	97.76023 (21092022)	115.07528 (21092022)	120.88918 (22110520)
116.97075 (21040202)	123.58367 (21093023)		
3626940.7	105.80918 (21010801)	117.15436 (21112924)	122.48724 (21112924)
126.83770 (22011703)	131.95167 (21010724)		
3626744.8	147.67079 (20042724)	162.95997 (20042724)	162.39146 (20042724)
172.49951 (20042724)	168.56369 (20042724)		
3626549.0	161.01545 (20010922)	169.99446 (21061202)	162.94832 (20081402)
199.52387 (20070603)	204.78478 (20052123)		
3626353.1	149.87036 (20103021)	179.09716 (21050502)	188.70102 (20061223)
197.20588 (22040823)	212.74901 (21113004)		
3626157.2	133.22681 (22110522)	156.61260 (21113004)	190.46432 (22012620)
196.94142 (22040423)	214.22393 (20051323)		
3625961.4	137.17904 (20021723)	150.54528 (20011918)	157.90261 (20051323)
183.48508 (20071603)	208.24713 (20032322)		
3625765.5	135.37133 (20101105)	169.27312 (22051302)	178.07217 (20101401)

160.47905 (20051324)	167.22225 (20112224)		
3625569.7 147.79041 (20071603)	163.87962 (21040222)	166.74271 (20041701)	
179.79171 (20050604)	178.41665 (22030622)		
3625373.8 147.88698 (20051324)	148.66256 (20102401)	156.80966 (20050604)	
164.83687 (22042922)	157.78327 (20012207)		
3625177.9 124.35987 (20061423)	156.70870 (20050604)	155.72683 (22042922)	
152.24199 (21042703)	159.81014 (22100802)		
3624982.1 124.61507 (20050604)	147.46990 (22042922)	150.16500 (22062801)	
146.47711 (22100802)	156.32423 (20060802)		
3624786.2 139.42769 (22042922)	139.60219 (22062801)	151.00546 (21071905)	
140.36073 (20091306)	151.36892 (21031722)		
3624590.4 129.35736 (22062801)	143.37486 (21071905)	134.81819 (21040801)	
143.68304 (20092303)	134.50781 (21032821)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 83

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***
INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	491849.68	492043.78	492237.88
492431.98	492626.08		

3628507.6 119.75835 (22102522)	117.09914 (22122822)	114.01872 (22080905)	
118.48196 (22062022)	114.29530 (22062723)		
3628311.7 121.40836 (20090706)	135.37295 (22090703)	142.49606 (20111805)	
122.50579 (22062022)	133.01853 (22062723)		
3628115.8 131.97678 (22062102)	150.60566 (22102522)	132.23350 (20111805)	
127.84828 (22080905)	150.55575 (22062723)		
3627920.0 123.94656 (20070601)	122.37588 (20090706)	161.54642 (22090703)	
156.90138 (22080905)	144.76961 (22062723)		
3627724.1 130.84895 (22011702)	146.77495 (22072901)	186.11472 (22102522)	
155.59584 (20111805)	141.99285 (22062723)		
3627528.3 136.63651 (21040201)	132.50777 (22090601)	151.33021 (22062102)	
181.47984 (22090703)	186.93220 (22062022)		
3627332.4 114.56690 (21052423)	136.71949 (22032023)	183.63542 (22090601)	

241.15957 (22102522)	225.51056 (22080905)	
3627136.5 124.08210 (20061501)	142.44999 (22090223)	157.77080 (21052423)
208.92870 (22090601)	256.35164 (20111805)	
3626940.7 152.38989 (21092022)	172.58822 (22110520)	185.29876 (21093023)
221.82158 (22090223)	325.75858 (21072302)	
3626744.8 206.98073 (20042724)	240.64572 (20042724)	290.04730 (22092802)
307.69836 (22092802)	713.46323 (22092802)	
3626549.0 206.21513 (20103021)	258.17427 (21041723)	316.31067 (20121705)
403.73519 (20112420)	458.16948 (22040504)	
3626353.1 198.99306 (20102405)	258.41329 (20051323)	292.66364 (20051324)
323.74916 (20082223)	305.98007 (21040224)	
3626157.2 219.11762 (20101401)	228.39762 (20100107)	249.58195 (22030622)
262.52498 (21031722)	246.60811 (20121620)	
3625961.4 210.38470 (20061423)	211.16945 (22030622)	206.32745 (21040801)
211.44808 (20112521)	207.69645 (21041524)	
3625765.5 177.67300 (22030622)	179.16964 (21071905)	192.75262 (22081602)
196.38334 (20112021)	179.24477 (20070424)	
3625569.7 191.00861 (21071905)	165.90243 (20060802)	168.44043 (20021622)
165.99693 (20121620)	175.44823 (20090401)	
3625373.8 164.41655 (20091306)	167.82520 (20041324)	167.03002 (22052202)
154.55551 (20021621)	173.87952 (20101822)	
3625177.9 164.85179 (20092303)	163.80686 (20021622)	161.38479 (20112021)
153.43875 (20021621)	182.59610 (20101822)	
3624982.1 151.08369 (21032821)	153.45590 (20112521)	143.45314 (22103002)
151.17450 (20021220)	183.58768 (20101822)	
3624786.2 147.29377 (20021622)	144.51048 (22052202)	136.49841 (20121620)
133.77789 (21020706)	176.23224 (20101822)	
3624590.4 140.53138 (20112521)	145.88835 (20112021)	129.88299 (21020924)
128.09597 (20070424)	164.77303 (20011420)	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 84

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)
493402.48	492820.18	493014.28
	493596.58	493208.38

```

- - - - -
- - - - -
3628507.6 | 133.26066 (22102021) 88.13686 (20022901) 91.15242 (22061421)
90.26188 (21081221) 109.39536 (20101624)
3628311.7 | 149.08188 (22102021) 88.54542 (20022901) 91.44464 (22061421)
82.63749 (22082322) 94.09989 (21080821)
3628115.8 | 149.90173 (22102021) 104.75876 (21100706) 105.40183 (22043024)
126.38054 (20101624) 104.32691 (20100320)
3627920.0 | 172.34214 (22102021) 102.69326 (21100706) 114.71538 (21081221)
112.62248 (21080821) 137.31998 (22081324)
3627724.1 | 264.13915 (22102021) 137.14005 (22061421) 150.19413 (20101624)
134.10150 (22081324) 111.62210 (21070722)
3627528.3 | 233.83112 (22102021) 149.80992 (22061421) 138.46967 (21080821)
140.00981 (21040924) 124.16564 (22061501)
3627332.4 | 267.23367 (22102021) 201.69927 (20101624) 206.17905 (22081324)
156.42464 (22091021) 154.76524 (20081923)
3627136.5 | 284.13531 (20061122) 207.27420 (22081324) 180.69221 (22091021)
185.96113 (20081923) 170.68014 (22051721)
3626940.7 | 258.80939 (22043024) 263.39223 (22091021) 219.47310 (22051721)
236.26509 (21072203) 172.72591 (21110518)
3626744.8 | 379.47112 (20081602) 396.05683 (20101806) 302.36564 (20090820)
244.27775 (20101806) 191.64297 (20101806)
3626549.0 | 554.31066 (22081103) 330.31725 (22082523) 260.54329 (21072102)
227.40329 (21091323) 199.66555 (21040722)
3626353.1 | 427.09752 (22081103) 334.78385 (20092323) 232.42611 (20071201)
194.01542 (21063023) 173.07860 (21072222)
3626157.2 | 315.92656 (22081103) 264.92272 (22070601) 218.52705 (22080701)
185.46044 (22040123) 170.78757 (22041522)
3625961.4 | 248.79190 (22082605) 223.95726 (20061224) 232.69888 (20101621)
198.48208 (22080701) 160.75658 (22040123)
3625765.5 | 228.24685 (22082605) 213.78247 (21080902) 198.67270 (22081002)
195.65778 (21092804) 177.20779 (20051621)
3625569.7 | 218.23907 (22082605) 194.36954 (20052502) 188.98310 (22071602)
196.63294 (21071002) 167.33472 (20041404)
3625373.8 | 200.20134 (22082605) 187.08320 (21030703) 181.41113 (20061224)
178.29013 (22081002) 181.26949 (22072201)
3625177.9 | 190.75309 (22082605) 174.95240 (20042523) 166.06994 (21080902)
164.48864 (22071602) 160.82653 (21071002)
3624982.1 | 178.42867 (22082605) 157.14061 (20042523) 163.89312 (21080902)
143.30679 (20061224) 150.08209 (22081002)
3624786.2 | 169.43861 (22082605) 151.03579 (22052124) 158.12145 (20052502)
143.31658 (20061224) 139.12601 (22070601)
3624590.4 | 161.56361 (22082605) 145.86385 (22052124) 139.94601 (21030703)
134.48100 (21061223) 136.03877 (22071602)

```

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:47:11

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
494372.98	493790.68	493984.78	494178.88
	494567.08		

3628507.6	88.83118 (21080821)	102.48119 (22081324)	66.24650 (21122302)
58.82532 (21052203)	45.61281 (22031619)		
3628311.7	97.44173 (22081324)	90.05268 (21040924)	65.64478 (21052203)
46.71113 (22061501)	59.69913 (22091021)		
3628115.8	109.90026 (22081324)	92.54748 (21052203)	59.17441 (22061501)
65.41709 (22091021)	51.99408 (22082422)		
3627920.0	102.88155 (21070722)	83.09904 (22061501)	80.44470 (22091021)
53.77572 (20081923)	74.28557 (20081923)		
3627724.1	103.44512 (22061501)	117.19436 (22091021)	93.72978 (20081923)
78.14991 (20071323)	74.70702 (22051721)		
3627528.3	126.00330 (22091021)	133.13123 (20081923)	102.17893 (20071323)
105.56090 (22051721)	95.95273 (22061422)		
3627332.4	143.67684 (20071323)	131.85519 (22051721)	115.76274 (20081602)
137.46863 (20081602)	131.89214 (21072203)		
3627136.5	172.85690 (20081602)	166.68686 (21072203)	117.20873 (22102102)
109.91091 (21012119)	122.82100 (21080324)		
3626940.7	175.86933 (22072121)	155.25110 (22072121)	129.37712 (20082204)
124.31556 (20062123)	118.78947 (20062123)		
3626744.8	175.20768 (20101806)	162.97134 (20101806)	153.95211 (20101806)
145.54332 (20101806)	137.05048 (20101806)		
3626549.0	182.57273 (20070924)	163.09078 (22091223)	153.39308 (22091223)
137.73820 (22091223)	132.88075 (21020619)		
3626353.1	167.98849 (20092322)	151.30503 (20041206)	159.09739 (21091323)
145.53786 (21040722)	137.25009 (21040722)		
3626157.2	160.46271 (21063023)	144.48116 (21070803)	139.74794 (21072102)
134.17913 (20092322)	124.65298 (21090204)		
3625961.4	167.33059 (22041522)	143.77617 (22073105)	132.46787 (21063023)
124.71933 (21070803)	126.05535 (21072222)		
3625765.5	145.50322 (21081124)	130.88887 (20071003)	127.56574 (22082502)
122.66419 (21091322)	111.98923 (21063023)		
3625569.7	165.58219 (20051621)	137.56765 (21081124)	130.98895 (20071003)

133.00981 (22041522)	122.63887 (22073105)		
3625373.8 139.54856 (20041404)	152.75467 (22081701)	130.28537 (21081124)	
126.09494 (20071201)	125.44088 (22041522)		
3625177.9 150.49232 (21092804)	131.39148 (22081224)	139.13030 (22081701)	
123.73348 (21081124)	118.47343 (20071201)		
3624982.1 152.18652 (22072201)	129.76347 (21092804)	128.48882 (22081224)	
127.03340 (22081701)	117.65553 (21081124)		
3624786.2 138.55445 (22082604)	138.08628 (22050521)	126.39178 (20041404)	
117.30715 (22080701)	120.38214 (20101720)		
3624590.4 137.39283 (22081002)	138.19050 (20101621)	124.13995 (21092804)	
105.49684 (20041404)	107.21002 (21072301)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 86

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***
INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)	X-COORD (METERS)

494761.18

3628507.6	57.17924 (22091021)
3628311.7	58.29283 (22091021)
3628115.8	65.59712 (20081923)
3627920.0	65.48876 (20071323)
3627724.1	71.33280 (22051721)
3627528.3	91.22605 (20081602)
3627332.4	81.04954 (22102102)
3627136.5	121.97675 (22072121)
3626940.7	108.01062 (20062123)
3626744.8	128.83109 (20101806)
3626549.0	135.79858 (21020619)
3626353.1	138.09864 (20070924)
3626157.2	135.12197 (21091323)
3625961.4	125.90370 (20092322)
3625765.5	112.87255 (21052723)
3625569.7	117.11059 (21063023)

3625373.8		106.73969	(22082502)
3625177.9		98.62592	(22041522)
3624982.1		113.43073	(22040123)
3624786.2		112.24782	(21081124)
3624590.4		112.39803	(20101720)

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 87

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³
 **

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

492883.25	3625830.80	231.73136	(22081103)	492919.80
3625834.65	210.26376	(20042523)		
492955.07	3625845.55	214.93291	(20052502)	493069.86
3625832.73	214.67221	(20061224)		
493094.87	3625832.73	203.95143	(20061224)	493110.90
3625837.21	211.28290	(22071602)		
493151.95	3625834.01	204.48725	(22070601)	493166.70
3625837.86	201.97961	(21080802)		
493187.86	3625836.57	213.88884	(22081002)	493201.33
3625836.57	215.10789	(22081002)		
493240.44	3625836.57	208.25271	(22082604)	492881.32
3625908.40	232.67404	(22081103)		
492906.98	3625898.14	217.25533	(22090723)	492901.84
3625911.60	220.85621	(22090723)		
492928.14	3625914.81	225.03275	(21030703)	492933.91
3625898.14	222.17590	(21030703)		
492951.87	3625908.40	224.97934	(20052502)	492973.67
3625907.11	226.41832	(21080902)		
492993.55	3625914.17	225.51239	(21080902)	492996.11
3625897.50	224.85752	(21080902)		
493015.99	3625896.85	216.81165	(21061223)	493023.05
3625912.24	214.80205	(21061223)		
493044.21	3625907.11	222.27719	(20061224)	493066.66

3625907.76	213.75425	(20061224)		
493085.25	3625912.24	221.16303	(22071602)	493087.18
3625895.57	217.40431	(22071602)		
493108.98	3625911.60	216.07911	(22071602)	493112.19
3625897.50	216.28785	(22071602)		
493133.99	3625901.98	207.48585	(21080802)	492874.27
3625788.48	244.24220	(22081103)		
492894.15	3625789.12	211.94214	(22081103)	492910.18
3625790.40	211.77800	(22090723)		
492930.70	3625786.55	208.07781	(21030703)	492947.38
3625791.04	214.53481	(21030703)		
492963.41	3625787.84	209.22494	(21030703)	492982.65
3625787.84	214.82017	(20052502)		
492999.96	3625787.84	212.16798	(21080902)	493021.12
3625791.04	215.38571	(21080902)		
493036.52	3625789.12	205.85187	(21080902)	493055.75
3625789.76	204.28774	(21061223)		
493076.28	3625787.84	208.61386	(20061224)	493094.87
3625787.84	209.40276	(20061224)		
493112.83	3625788.48	197.95476	(20061224)	493129.50
3625787.19	206.13728	(22071602)		
493148.74	3625787.19	208.63739	(22071602)	493164.77
3625790.40	202.22598	(22070601)		
493184.65	3625789.12	195.43991	(21080802)	493201.97
3625791.04	205.40464	(22081002)		
493221.21	3625790.40	211.02467	(22081002)	493238.52
3625791.04	212.17907	(22010819)		
492780.00	3626415.01	481.30896	(20072601)	492778.72
3626388.08	462.71291	(20072601)		
492747.94	3626386.16	426.56485	(20101822)	492742.16
3626418.22	417.98552	(20101822)		
492699.20	3626422.71	346.23927	(20021621)	492697.92
3626391.93	331.13536	(20021621)		
492678.68	3626411.81	341.26756	(22103002)	492626.09
3626426.56	361.69770	(22043006)		
492606.85	3626435.54	373.64887	(21020303)	492599.16
3626405.39	347.54637	(20112421)		
492491.20	3626644.88	472.44410	(20121705)	492517.36
3626636.70	485.33748	(22090705)		
492521.18	3626603.45	487.57002	(20050622)	492521.72
3626582.19	473.49605	(20081703)		
492512.46	3626553.84	451.28062	(22042324)	492513.55
3626533.13	443.54036	(20102603)		
492501.01	3626506.42	428.92055	(22120301)	492490.65
3626485.70	417.45412	(20120120)		
492479.21	3626464.45	401.31811	(20081404)	492466.12
3626447.00	389.80001	(20081404)		
492447.59	3626418.66	368.93536	(20081404)	492431.78
3626430.65	366.85084	(20120120)		
492481.93	3626620.35	450.73264	(22090705)	492482.48

3626594.18	461.97324	(21100302)		
	492479.21	3626572.92	444.64418	(20112420)
				492477.02
3626546.76	421.59737	(21080906)		
	492467.76	3626523.32	415.96057	(22042324)
				492463.94
3626507.51	401.65949	(22042106)		
	492450.86	3626492.79	388.82132	(22042106)
				492427.42
3626474.80	369.29432	(22042106)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 88

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***
INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	352.58349	(20051324)	492803.94
3626616.07	376.27839	(20113022)		
492823.25	3626567.17	462.74654	(22102720)	492838.34
3626526.92	463.70524	(21013120)		
493039.78	3625834.45	209.39953	(21061223)	492791.92
3626663.04	253.21202	(21081022)		
492731.11	3626741.92	469.78470	(21100302)	492774.75
3626728.05	426.18899	(20031811)		
492674.05	3626738.96	463.09208	(20100201)	492708.49
3626698.47	823.82437	(21030222)		
493013.27	3625844.49	217.36184	(21080902)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 89

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	490879.18	491073.28	491267.38
491461.48		491655.58	

3628507.6	124.28315 (21011618)	100.58029 (21031402)	101.97354 (22090601)
120.33777 (22072901)	104.88285 (20081606)		
3628311.7	131.78621 (22120701)	137.34320 (21011618)	105.32581 (21031402)
95.18042 (22090601)	126.00296 (20032306)		
3628115.8	143.62020 (20101702)	148.82022 (22120701)	151.74719 (21011618)
113.68570 (22011702)	118.81516 (20070601)		
3627920.0	151.49946 (22120522)	149.12632 (20101702)	162.34323 (22120701)
169.84039 (21011618)	133.17565 (22011702)		
3627724.1	159.15745 (22090223)	156.89278 (22010221)	174.55542 (20101706)
177.49327 (20122122)	193.90659 (21011618)		
3627528.3	172.82476 (20080201)	177.28122 (21100301)	188.51520 (20081524)
199.73071 (22120522)	209.79817 (20101702)		
3627332.4	176.79319 (20081622)	188.13197 (22090602)	198.44091 (20080201)
215.05874 (21100301)	234.65429 (22042905)		
3627136.5	182.10961 (22040522)	196.62553 (22042401)	202.79493 (22011221)
230.12316 (20081622)	253.73542 (21021622)		
3626940.7	188.42152 (20090704)	206.58273 (20080123)	224.73878 (20080123)
243.47607 (22111307)	272.67754 (22040522)		
3626744.8	127.18135 (20042723)	142.26363 (20122207)	151.69905 (20122207)
168.52798 (20122207)	198.44663 (22051301)		
3626549.0	170.03341 (21081401)	189.71581 (21081401)	184.40745 (21061202)
225.52233 (21061202)	241.76657 (20070603)		
3626353.1	152.02725 (20103021)	196.26936 (21050502)	210.98191 (20061223)
226.02457 (20052024)	256.60300 (22092004)		
3626157.2	148.49674 (20052024)	159.68833 (22092004)	227.48306 (20041622)
244.37671 (22092801)	274.35229 (20051323)		
3625961.4	148.51548 (21030224)	149.94105 (20011918)	172.79550 (20033003)
195.89570 (21051102)	248.29418 (21040222)		
3625765.5	147.78976 (21030407)	184.13822 (21051102)	190.73932 (20101401)
155.84133 (21110822)	173.05652 (20050604)		
3625569.7	158.62067 (20041521)	178.60908 (21040222)	178.79930 (21031622)
197.14718 (20050604)	148.28264 (21081303)		
3625373.8	135.17617 (21110822)	137.92418 (22050401)	150.12039 (20050604)
139.10249 (21081303)	137.76189 (21071905)		
3625177.9	118.27174 (20011322)	156.02451 (20050604)	124.69112 (21081303)

116.14341 (22111601)	150.32146 (21040801)		
3624982.1 116.72033 (20052324)	113.95240 (21081303)	114.17167 (22040601)	
125.91906 (22100802)	150.95901 (20060802)		
3624786.2 105.52882 (22042922)	99.11417 (22062801)	111.29573 (21071905)	
136.30819 (20050524)	144.41164 (22081602)		
3624590.4 97.79203 (22052503)	106.75795 (21071905)	123.16607 (21040801)	
136.41537 (20092303)	128.42226 (22081704)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 90

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK5 ***
INCLUDING SOURCE(S): STCK5 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)		
492431.98	491849.68	492043.78
	492626.08	492237.88

3628507.6	160.15701 (22090703)	196.14729 (20111805)	198.22663 (22080905)
169.98527 (21071322)	178.50113 (22103119)		
3628311.7	139.46983 (22101422)	196.70393 (22122822)	206.98289 (22080905)
187.02589 (21071322)	196.83632 (22103119)		
3628115.8	127.24035 (21050323)	218.40371 (22090703)	224.07257 (20111805)
223.02991 (22062022)	214.88919 (22103119)		
3627920.0	161.51290 (22072901)	152.94789 (22101422)	215.13701 (20111805)
220.34839 (22062022)	206.94485 (22103119)		
3627724.1	157.80009 (22090601)	153.06128 (22072901)	293.00485 (22090703)
248.19537 (22080905)	213.42326 (22103119)		
3627528.3	226.75625 (21011618)	154.73797 (22090601)	157.21090 (22101422)
298.85138 (20111805)	325.48059 (22062723)		
3627332.4	240.71629 (21122104)	275.43884 (21011618)	188.44189 (22072901)
367.57788 (22090703)	391.27740 (22062723)		
3627136.5	280.17134 (21100301)	311.82454 (22120522)	356.98624 (21011618)
227.22517 (22072901)	349.53094 (22062022)		
3626940.7	307.88573 (20101522)	361.90988 (22041501)	440.48032 (21032423)
523.59224 (21011618)	567.27882 (22080905)		
3626744.8	298.81591 (22051301)	430.89112 (22051301)	626.20113 (22051301)

779.54081 (20080123)	458.34375 (22042905)		
3626549.0 249.37224 (22042923)	366.06238 (20103020)	487.65661 (22081101)	
653.27306 (20051323)	461.85547 (21020303)		
3626353.1 256.73108 (22092801)	380.62673 (20051323)	379.11834 (21110822)	
335.59004 (21071905)	353.27362 (20101822)		
3626157.2 292.41755 (20101401)	260.02586 (22050401)	227.76545 (22062801)	
267.12962 (22081704)	363.73619 (20101822)		
3625961.4 229.25184 (20050604)	179.20178 (21081303)	204.61885 (20060802)	
197.63215 (20112521)	331.03562 (20101822)		
3625765.5 144.47029 (21081303)	160.83573 (21040801)	178.81636 (22081704)	
178.33878 (22103002)	303.09743 (20011420)		
3625569.7 151.75969 (21071905)	157.43809 (20092303)	147.35953 (20112521)	
147.02907 (20121620)	259.83921 (20011420)		
3625373.8 164.11986 (20050524)	158.21821 (22081704)	144.48660 (20112021)	
134.39897 (20021621)	240.17863 (20072601)		
3625177.9 157.88927 (21101921)	144.43690 (20021622)	136.33847 (22103002)	
130.05301 (20021220)	229.22995 (20072601)		
3624982.1 143.59013 (22081704)	132.96391 (20091424)	126.27755 (20121620)	
117.10974 (20021220)	220.60864 (20072601)		
3624786.2 131.07702 (20021622)	127.91263 (20112021)	108.72258 (20121620)	
106.21317 (20070424)	204.79926 (20072601)		
3624590.4 125.33163 (20112521)	123.14345 (20112021)	104.48962 (20021621)	
125.04241 (20101822)	196.49936 (20072601)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 91

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***
 INCLUDING SOURCE(S): STCK5 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)
493402.48	492820.18	493014.28
	493596.58	493208.38

3628507.6 161.16687 (20081922)	103.23652 (20022901)	94.66037 (22061421)
100.36505 (21081221)	121.87290 (20101624)	
3628311.7 182.87290 (20081922)	99.02413 (21100706)	99.36308 (22043024)

97.41296 (22082322)	93.70154 (21080821)		
3628115.8 181.65799 (20081922)	108.14295 (20031321)	121.87175 (21081221)	
138.45263 (20101624)	120.84269 (20100320)		
3627920.0 186.94201 (20081922)	110.98658 (20031321)	116.57810 (21081221)	
110.41164 (20100320)	155.75865 (22081324)		
3627724.1 199.12289 (22100520)	130.51181 (22043024)	159.16703 (20101624)	
149.68449 (22081324)	139.90943 (21070722)		
3627528.3 154.20924 (22100520)	161.96601 (21081221)	155.04533 (20100320)	
165.71858 (22051722)	144.08959 (21062003)		
3627332.4 184.26500 (20022901)	207.82669 (20101624)	214.51564 (21040924)	
169.59165 (22091021)	141.01531 (20081923)		
3627136.5 188.59045 (20031321)	204.58429 (22081324)	184.46171 (22091021)	
153.86579 (20081923)	156.40041 (22051721)		
3626940.7 283.64437 (20101624)	242.76811 (22091021)	190.19927 (22051721)	
201.80775 (21072203)	148.56583 (22102102)		
3626744.8 342.30969 (20081602)	289.03054 (20062123)	243.55237 (20031703)	
213.34291 (20031703)	164.28388 (20031703)		
3626549.0 516.63457 (20092722)	327.11427 (21052723)	267.93773 (21091323)	
231.59277 (21040722)	200.38001 (20070924)		
3626353.1 547.19941 (21060903)	324.09663 (22080701)	255.36062 (22082502)	
220.64372 (21052723)	191.92517 (20092322)		
3626157.2 400.50225 (20052502)	281.33539 (20101621)	242.40009 (20051621)	
192.31231 (20071003)	199.07111 (22073105)		
3625961.4 327.45137 (22090723)	321.25106 (22121819)	218.41682 (20092323)	
211.70329 (20051621)	179.43551 (20071201)		
3625765.5 295.04648 (22052124)	303.33549 (20061224)	207.46542 (22010819)	
187.29069 (20041404)	188.16185 (20051621)		
3625569.7 268.06053 (22052124)	283.39815 (21080902)	261.02871 (22121819)	
201.77909 (22072201)	152.41394 (20041404)		
3625373.8 253.99405 (21103123)	245.20920 (20052502)	236.26608 (22071602)	
184.48534 (22010819)	175.47815 (20092323)		
3625177.9 241.01197 (21103123)	225.41426 (21030703)	234.22021 (20061224)	
199.98502 (22121819)	174.71496 (20101621)		
3624982.1 212.10257 (21103123)	219.55093 (21030703)	213.49084 (21061223)	
210.15627 (22071602)	161.56739 (22010819)		
3624786.2 196.82165 (22081103)	196.39305 (20042523)	216.06842 (21080902)	
164.32739 (20061224)	153.93628 (22121819)		
3624590.4 182.00351 (22081103)	188.57571 (20042523)	182.91127 (20052502)	
182.24023 (20061224)	165.28899 (22070601)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:47:11

PAGE 92

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
	493790.68		493984.78	494178.88
494372.98		494567.08		

3628507.6	103.00850 (20100320)	124.28888 (22081324)	98.79282 (21122302)
83.00018 (21052203)	66.61808 (21070603)		
3628311.7	112.34514 (22081324)	127.06339 (21122302)	90.65994 (21052203)
66.97178 (21070603)	73.71638 (22091021)		
3628115.8	136.99086 (21040924)	123.26969 (21070722)	81.67646 (21070603)
80.70553 (22091021)	63.71215 (22082422)		
3627920.0	134.32007 (21070722)	108.19683 (21070603)	97.43745 (22091021)
64.23367 (21052202)	69.40275 (20081923)		
3627724.1	126.97748 (21070603)	132.19983 (22091021)	89.59435 (20081923)
76.20423 (20071323)	71.62894 (22071821)		
3627528.3	128.21252 (22091021)	118.62000 (20081923)	96.90381 (20071323)
101.95009 (22051721)	100.28572 (22061422)		
3627332.4	132.39747 (20071323)	124.71962 (22051721)	113.37676 (22061422)
126.56474 (20081602)	124.72231 (21072203)		
3627136.5	152.86843 (20081602)	153.65388 (21072203)	117.92472 (22102102)
97.58356 (20122206)	114.53645 (21110518)		
3626940.7	160.06998 (21110518)	149.17394 (22072121)	121.94350 (22072121)
116.52326 (20062123)	117.40610 (20062123)		
3626744.8	146.31276 (20031703)	138.11554 (20101806)	134.15780 (20101806)
130.03528 (20101806)	125.80723 (20101806)		
3626549.0	179.26632 (22091223)	170.82625 (22091223)	146.03057 (22091223)
139.85627 (21020619)	140.32754 (21020619)		
3626353.1	173.51030 (21090204)	177.84521 (21091323)	159.79350 (22070202)
154.61572 (21040722)	154.78558 (20070924)		
3626157.2	178.95672 (21052723)	169.17376 (21072222)	165.01159 (20092322)
143.15494 (21020719)	144.24480 (20041206)		
3625961.4	173.68388 (22082502)	161.97655 (21091322)	152.90166 (21052723)
148.91373 (21070803)	144.39180 (21072102)		
3625765.5	160.94365 (22040123)	158.59010 (22041522)	155.50400 (22073105)
150.73509 (21063023)	135.55308 (21052723)		
3625569.7	170.54220 (20110221)	140.44784 (22040123)	133.72480 (20071003)
141.97237 (22082502)	143.08847 (22073105)		
3625373.8	146.75417 (22081224)	157.68755 (20110221)	131.32257 (20050501)
130.20156 (20071003)	139.18668 (22041522)		
3625177.9	141.87554 (20092722)	144.58052 (22080701)	145.40223 (20110221)
124.39849 (21081124)	129.19943 (20071201)		
3624982.1	157.45635 (22072201)	137.26719 (20041404)	140.15419 (22080701)

133.46314 (20110221) 120.98618 (21081124)
3624786.2 | 148.61697 (21071002) 143.26037 (20092323) 117.99517 (20041404)
126.78672 (22080701) 127.35175 (22070621)
3624590.4 | 148.24644 (22010819) 147.72828 (22072201) 126.97060 (20102320)
115.41821 (21111920) 115.38885 (21030821)
▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 93
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data
*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK5 ***
INCLUDING SOURCE(S): STCK5 ,
*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³
**
Y-COORD | X-COORD (METERS)
(METERS) | 494761.18
- - - - -
- - - - -

3628507.6 | 69.38266 (22091021)
3628311.7 | 69.22028 (22082422)
3628115.8 | 63.14980 (20081923)
3627920.0 | 64.06313 (20071323)
3627724.1 | 70.81141 (22051721)
3627528.3 | 86.14056 (20081602)
3627332.4 | 84.30964 (22102102)
3627136.5 | 117.97230 (21110518)
3626940.7 | 110.89286 (20062123)
3626744.8 | 120.28919 (20101806)
3626549.0 | 137.18345 (21020619)
3626353.1 | 147.62939 (20070924)
3626157.2 | 148.49220 (21091323)
3625961.4 | 145.87025 (20092322)
3625765.5 | 132.51065 (21070803)
3625569.7 | 141.07846 (21063023)
3625373.8 | 122.66242 (22073105)
3625177.9 | 119.49526 (22041522)
3624982.1 | 122.95715 (20071201)
3624786.2 | 116.97444 (21081124)
3624590.4 | 120.40567 (22070621)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 *** ***

*** 15:47:11

PAGE 94

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	307.17203	(20052502)	492919.80
3625834.65	331.33935	(21080902)		
492955.07	3625845.55	320.87823	(21061223)	493069.86
3625832.73	291.88127	(22121819)		
493094.87	3625832.73	291.33708	(22121819)	493110.90
3625837.21	256.24878	(22121819)		
493151.95	3625834.01	216.38770	(22081002)	493166.70
3625837.86	214.70624	(22010819)		
493187.86	3625836.57	208.06153	(20101621)	493201.33
3625836.57	216.35938	(20101621)		
493240.44	3625836.57	220.31917	(22072201)	492881.32
3625908.40	325.79450	(20052502)		
492906.98	3625898.14	347.84189	(21080902)	492901.84
3625911.60	350.19726	(21080902)		
492928.14	3625914.81	332.07725	(21061223)	492933.91
3625898.14	328.49075	(21061223)		
492951.87	3625908.40	321.99671	(21061223)	492973.67
3625907.11	330.42900	(21060903)		
492993.55	3625914.17	310.47970	(22071602)	492996.11
3625897.50	300.23908	(21013120)		
493015.99	3625896.85	329.93021	(22071602)	493023.05
3625912.24	329.73216	(22071602)		
493044.21	3625907.11	314.14735	(22121819)	493066.66
3625907.76	297.87780	(22121819)		
493085.25	3625912.24	243.34292	(22121819)	493087.18
3625895.57	258.04244	(22121819)		
493108.98	3625911.60	225.71266	(22081002)	493112.19
3625897.50	224.82821	(22081002)		
493133.99	3625901.98	220.93980	(22010819)	492874.27

3625788.48	307.17047	(21030703)		
492894.15	3625789.12	302.48945	(20052502)	492910.18
3625790.40	305.22749	(20052502)		
492930.70	3625786.55	320.76078	(21080902)	492947.38
3625791.04	324.66293	(21080902)		
492963.41	3625787.84	301.87666	(21061223)	492982.65
3625787.84	306.73319	(21061223)		
492999.96	3625787.84	302.43153	(20061224)	493021.12
3625791.04	300.51455	(20061224)		
493036.52	3625789.12	277.79010	(21013120)	493055.75
3625789.76	306.10332	(22071602)		
493076.28	3625787.84	301.89438	(22071602)	493094.87
3625787.84	288.90240	(22121819)		
493112.83	3625788.48	285.84934	(22121819)	493129.50
3625787.19	258.86965	(22121819)		
493148.74	3625787.19	210.03593	(22121819)	493164.77
3625790.40	213.96500	(22081002)		
493184.65	3625789.12	212.19332	(22010819)	493201.97
3625791.04	205.71405	(22010819)		
493221.21	3625790.40	208.37187	(20101621)	493238.52
3625791.04	215.32986	(20101621)		
492780.00	3626415.01	649.47402	(21061223)	492778.72
3626388.08	613.41762	(21080902)		
492747.94	3626386.16	571.21311	(22090723)	492742.16
3626418.22	608.58353	(22090723)		
492699.20	3626422.71	568.23578	(22082605)	492697.92
3626391.93	539.89025	(22082605)		
492678.68	3626411.81	589.39233	(20011420)	492626.09
3626426.56	378.25339	(22103002)		
492606.85	3626435.54	385.06115	(20112021)	492599.16
3626405.39	364.74248	(20112021)		
492491.20	3626644.88	767.60544	(20040305)	492517.36
3626636.70	836.45714	(22081101)		
492521.18	3626603.45	901.53418	(20051323)	492521.72
3626582.19	872.37900	(21040222)		
492512.46	3626553.84	715.91297	(21040222)	492513.55
3626533.13	663.76786	(20050604)		
492501.01	3626506.42	641.99348	(20052324)	492490.65
3626485.70	608.89098	(20052324)		
492479.21	3626464.45	553.96142	(20052324)	492466.12
3626447.00	515.12246	(20052324)		
492447.59	3626418.66	444.86486	(20052324)	492431.78
3626430.65	523.12000	(20052324)		
492481.93	3626620.35	810.13964	(22081101)	492482.48
3626594.18	828.96684	(22050405)		
492479.21	3626572.92	792.75433	(20051323)	492477.02
3626546.76	770.02035	(21040222)		
492467.76	3626523.32	652.38107	(21040222)	492463.94
3626507.51	563.69177	(20050604)		
492450.86	3626492.79	560.49158	(20050604)	492427.42

3626474.80 519.43936 (20050604)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 95

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	489.57019	(21031622)	492803.94
3626616.07	557.22417	(20110221)		
492823.25	3626567.17	529.28561	(20110221)	492838.34
3626526.92	482.84530	(20092722)		
493039.78	3625834.45	316.09676	(22071602)	492791.92
3626663.04	433.80823	(22021920)		
492731.11	3626741.92	295.37423	(22102522)	492774.75
3626728.05	524.52050	(22010702)		
492674.05	3626738.96	908.12280	(22072924)	492708.49
3626698.47	1354.39831	(21012517)		
493013.27	3625844.49	290.46276	(21013120)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 96

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002

, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018

, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	490879.18	491073.28	491267.38
491461.48	491655.58		

- - - - -
- - - - -

3628507.6	455.71077 (21011618)	439.43604 (21031402)	478.63358 (22090601)
507.21293 (22072901)	472.99895 (20090706)		
3628311.7	420.36064 (22120701)	504.82494 (21011618)	468.04296 (21031402)
460.78541 (22090601)	575.34741 (22072901)		
3628115.8	469.48162 (20101702)	471.87517 (22032023)	556.22406 (21011618)
496.25484 (21031402)	489.09935 (22080803)		
3627920.0	480.28317 (22120522)	518.08971 (22122902)	516.00957 (22032023)
616.01690 (21011618)	550.45744 (21040602)		
3627724.1	487.54347 (20050804)	502.24030 (22120202)	609.16120 (21122104)
563.74460 (20122122)	714.95481 (21011618)		
3627528.3	535.16503 (20050803)	547.67182 (22090223)	596.26303 (22042905)
627.46359 (22120522)	667.12446 (20101702)		
3627332.4	521.40286 (21020722)	558.75796 (21021622)	604.51772 (20080201)
673.04996 (22090223)	690.82507 (22042905)		
3627136.5	550.28317 (22042401)	563.37731 (22101701)	580.42743 (22102621)
640.30537 (21020722)	676.97137 (20080201)		
3626940.7	515.87308 (22050324)	529.44891 (22111307)	549.49671 (22111307)
628.97219 (21022323)	704.71235 (22042401)		
3626744.8	460.89229 (21031423)	515.83643 (22051301)	545.26113 (22051301)
610.97435 (22051301)	652.62153 (22010620)		
3626549.0	505.09396 (22081005)	536.41729 (22081005)	530.01074 (21081401)
628.12353 (21061202)	623.21791 (21061202)		
3626353.1	543.11432 (20122123)	686.71696 (20122123)	767.82113 (20122123)
746.43301 (20122123)	711.77195 (22120302)		
3626157.2	437.31201 (20021206)	455.43969 (22120302)	587.70441 (22081101)
658.26965 (20021723)	676.67733 (22050405)		
3625961.4	439.24508 (22012620)	440.86027 (22092801)	480.40865 (22050405)
521.05388 (22040505)	927.83875 (21030222)		
3625765.5	426.69492 (22050405)	501.64867 (20051323)	531.41547 (21030222)
643.92384 (22010619)	786.21578 (20011520)		
3625569.7	431.27570 (21051102)	579.26713 (21030222)	556.11870 (21110822)
734.39095 (20011520)	552.92345 (20052324)		
3625373.8	451.65450 (22010619)	475.82424 (20011520)	557.24562 (21110104)
550.36970 (20052324)	795.19126 (20100406)		

```

3625177.9 |      449.83983 (20011520)      512.86928 (21110104)      506.44448 (20052324)
      548.43064 (20100406)      721.71141 (20111623)
3624982.1 |      418.20905 (20050604)      477.96253 (20052324)      512.27639 (21081303)
      564.34494 (20111623)      551.56749 (22012923)
3624786.2 |      496.49741 (20052324)      464.95271 (21081303)      490.96786 (22040601)
      539.83844 (22100802)      564.99327 (20060802)
3624590.4 |      467.62259 (21081303)      465.26660 (22040601)      454.71675 (22100802)
      532.36981 (20050524)      546.29075 (22081602)
^ *** AERMOD - VERSION 23132 ***      *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU ***      10/10/24
*** AERMET - VERSION 23132 ***      ***
***      15:47:11

```

PAGE 97

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
      INCLUDING SOURCE(S):      L0000001      , L0000002
, L0000003      , L0000004      , L0000005      ,
      L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000011      , L0000012      , L0000013      ,
      L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
      L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

```

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

```

Y-COORD |      X-COORD (METERS)
(METERS) |      491849.68      492043.78      492237.88
      492431.98      492626.08

```

```

-----
3628507.6 |      496.61356 (22090703)      587.15025 (22102624)      631.36818 (22080905)
      480.15773 (21071322)      479.67794 (22062723)
3628311.7 |      576.45824 (20050702)      658.35759 (22090703)      685.68138 (20101705)
      567.87515 (22062022)      535.51026 (22062723)
3628115.8 |      584.92698 (22102622)      656.04657 (22090703)      825.78550 (20111805)
      641.59302 (21081223)      578.94856 (22062723)
3627920.0 |      618.54885 (22072901)      687.41026 (20090706)      766.27729 (22122822)
      771.92519 (22080905)      606.52236 (22062723)
3627724.1 |      688.21616 (22090601)      741.79778 (22072901)      873.31267 (22090703)
      719.06550 (20111805)      635.86498 (22062723)
3627528.3 |      799.41847 (21011618)      763.08248 (22090601)      740.15805 (20090706)

```

1027.51145	(20111805)	788.63704	(22062723)		
3627332.4		765.42981	(21122104)	878.97683	(21011618) 899.68116 (22090601)
1181.83566	(22090703)	960.74243	(22080905)		
3627136.5		796.93503	(22090223)	910.34575	(21122104) 1069.40643 (21011618)
1015.27354	(22062102)	1048.14677	(20111805)		
3626940.7		752.15633	(22011221)	898.00867	(21021622) 1086.98676 (20051603)
1474.21765	(21011618)	1590.17684	(20111805)		
3626744.8		802.98095	(22010620)	979.55086	(21010801) 1234.47093 (21010801)
1395.61177	(21022323)	1991.02964	(21011618)		
3626549.0		688.67929	(20122123)	1266.88265	(20122123) 1730.04994 (20122123)
1848.80387	(20122123)	3203.31630	(20011520)		
3626353.1		657.23651	(22012620)	849.62238	(22050405) 1312.30547 (20071603)
1551.73950	(20100705)	1636.36498	(22091106)		
3626157.2		704.55093	(20022424)	1077.49167	(22010619) 1276.72043 (21110104)
1814.23999	(22012923)	1401.75670	(20021220)		
3625961.4		965.62678	(20011520)	791.97145	(21110104) 1126.66612 (20111623)
726.51593	(21101921)	882.83229	(21020924)		
3625765.5		599.48666	(21110104)	868.09390	(20111623) 863.86821 (22012923)
736.39946	(22121021)	859.48633	(20021220)		
3625569.7		794.53284	(20100406)	786.19252	(22012923) 557.56502 (21092101)
657.22378	(20112021)	741.34095	(20021220)		
3625373.8		775.97661	(20111623)	615.22657	(22012923) 625.82054 (20021622)
683.48437	(20121620)	712.86489	(20090401)		
3625177.9		756.01422	(22012923)	588.96814	(21092101) 548.59162 (22052202)
667.15624	(21020924)	712.19932	(20090401)		
3624982.1		607.85151	(21101921)	604.00489	(20021622) 604.15075 (20112021)
642.58569	(20021621)	752.61896	(20090401)		
3624786.2		536.13088	(21092101)	564.88049	(20091424) 558.94728 (20070224)
644.47057	(20021220)	688.65414	(20101822)		
3624590.4		550.25108	(20021622)	564.13766	(21102022) 553.86369 (20121620)
620.34432	(20021220)	732.10287	(20101822)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 98

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
	492820.18		493014.28	493208.38
493402.48		493596.58		

3628507.6	501.93302 (22050623)	399.62616 (20022901)	490.83276 (20031321)
419.45153 (22043024)	392.56177 (20101624)		
3628311.7	533.50286 (22050623)	488.62035 (20022901)	425.25813 (20031321)
477.39267 (21081221)	516.26039 (20101624)		
3628115.8	508.14333 (22050623)	582.07571 (20022901)	517.58381 (22061421)
421.59879 (20101624)	370.12478 (21080821)		
3627920.0	551.61001 (22050623)	554.66627 (20022901)	520.60308 (22043024)
779.94834 (20101624)	491.70914 (22010702)		
3627724.1	759.19702 (22090503)	669.99024 (21100706)	577.63006 (21081221)
440.34327 (20100320)	641.12665 (22081324)		
3627528.3	726.14919 (22090503)	710.23117 (20031321)	848.81590 (20101624)
672.53588 (22010702)	517.68995 (21052203)		
3627332.4	842.17048 (22090503)	664.83579 (21081221)	588.19665 (22081324)
629.59373 (21052203)	823.34212 (22091021)		
3627136.5	883.14099 (22090503)	614.43967 (20101624)	497.17239 (21052203)
511.13987 (22091021)	506.83525 (20071323)		
3626940.7	1115.69073 (22090503)	677.41279 (22091021)	547.76535 (22091021)
550.50395 (20081602)	545.05346 (21072203)		
3626744.8	1739.66915 (22090503)	823.46463 (21041922)	723.30768 (21041922)
635.31714 (21041922)	521.06290 (20031703)		
3626549.0	2504.02054 (20021620)	1274.14080 (20080121)	1533.07338 (21083001)
1198.99130 (21083001)	652.69553 (22091223)		
3626353.1	1733.89416 (22080704)	1647.87600 (22081701)	1596.35541 (21063023)
1230.41433 (21072102)	1105.41015 (21020719)		
3626157.2	1314.86620 (22080704)	1582.55719 (22010819)	1321.01595 (20051621)
1129.99088 (22041522)	1169.76383 (21063023)		
3625961.4	1072.91878 (22082605)	1064.54386 (22071602)	1105.12192 (22072201)
1123.23464 (20051621)	954.31664 (20071201)		
3625765.5	989.18357 (22082605)	1520.85887 (22082506)	1020.92658 (22010819)
1030.22072 (20041404)	965.28030 (20051621)		
3625569.7	919.84426 (22082605)	1173.81157 (20052502)	1071.41972 (22071602)
866.66387 (21071002)	822.77421 (21111920)		
3625373.8	949.24002 (22082605)	761.23663 (21030703)	1037.05092 (20061224)
727.97269 (22081002)	789.86396 (22050521)		
3625177.9	927.68396 (22082605)	926.47048 (21030703)	1097.00455 (21061223)
845.49649 (20102503)	871.10584 (20101621)		
3624982.1	878.92366 (22082605)	787.49939 (20042523)	1182.74770 (21080902)
1041.63777 (22071602)	721.85635 (22010819)		

3624786.2 | 826.66774 (22082605) 722.75105 (20042523) 970.46572 (20052502)
1031.42856 (20061224) 674.86635 (20102503)
3624590.4 | 690.97600 (22082605) 708.55824 (22052124) 778.51469 (21030703)
978.29346 (21061223) 906.94262 (22070601)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 99

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)		
494372.98	493790.68	493984.78
	494567.08	494178.88

3628507.6 | 354.62360 (21080821) 376.62898 (22011808) 321.92966 (22081324)
215.52010 (21070722) 255.94393 (21052203)
3628311.7 | 408.41712 (20121022) 458.37230 (22081324) 239.23074 (22051722)
255.53975 (21052203) 206.25378 (22061501)
3628115.8 | 569.60099 (22081324) 393.56064 (21122302) 305.68454 (21052203)
207.97554 (22061501) 253.22951 (22091021)
3627920.0 | 526.18779 (21122302) 385.86607 (21070722) 252.19613 (22061501)
264.21124 (22091021) 231.36151 (20081923)
3627724.1 | 503.38041 (21052203) 415.15114 (22091021) 315.70356 (22091021)
274.79739 (20081923) 297.57718 (20071323)
3627528.3 | 712.42307 (22091021) 414.66702 (20081923) 384.65652 (20081923)
353.63821 (20071323) 374.48240 (22051721)
3627332.4 | 503.69456 (20081923) 444.52612 (20071323) 426.83390 (21090103)
447.92938 (20081602) 427.62873 (21072203)
3627136.5 | 536.90821 (21090103) 594.79003 (20081602) 713.29262 (21072203)

590.48341 (21072203)	440.02861 (22102102)		
3626940.7 501.69894 (21072203)	451.23264 (22072121)	577.00425 (22072121)	
558.30424 (22072121)	529.20055 (22072121)		
3626744.8 513.26470 (20031703)	497.09955 (20031703)	480.98125 (20031703)	
457.77890 (20031703)	449.44247 (20031703)		
3626549.0 623.48384 (22091223)	588.89697 (22091222)	538.37682 (21020619)	
527.56573 (21020619)	507.87991 (21020619)		
3626353.1 1028.67904 (21091323)	896.81843 (21040722)	598.76629 (20070924)	
817.99419 (20070924)	586.14926 (20070924)		
3626157.2 956.53395 (21052723)	908.68698 (21072102)	797.54743 (21020719)	
755.62156 (21091323)	750.77466 (21091323)		
3625961.4 1041.04381 (22082502)	889.69257 (21063023)	810.88510 (21052723)	
627.13972 (21072222)	741.87135 (20092322)		
3625765.5 841.96691 (20071201)	830.53220 (22041522)	819.21464 (22073105)	
802.75293 (21063023)	749.76888 (21052723)		
3625569.7 826.70179 (20110221)	771.28741 (22040123)	747.33037 (22041522)	
735.89790 (22082502)	707.96563 (20110219)		
3625373.8 886.81193 (22081224)	756.64877 (20110221)	687.11586 (22040123)	
646.88111 (20071003)	683.42475 (21082923)		
3625177.9 704.49803 (20080301)	716.83321 (22081224)	699.26711 (22070621)	
640.77319 (20050501)	646.68274 (20071201)		
3624982.1 728.20247 (22072201)	658.98008 (20041404)	658.42559 (22080701)	
686.70788 (22070621)	616.97857 (20050501)		
3624786.2 702.17177 (21071002)	627.46548 (20092323)	577.94272 (20041404)	
601.05495 (21030821)	656.89991 (22070621)		
3624590.4 733.63934 (22010819)	661.52133 (20101621)	599.11238 (20080301)	
602.54374 (21111920)	541.76212 (21030821)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 100

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	216.23822 (22061501)
3628311.7	270.50189 (22091021)
3628115.8	196.44797 (22121802)
3627920.0	242.95741 (20081923)
3627724.1	230.61955 (22051721)
3627528.3	257.14738 (21090103)
3627332.4	347.72284 (21072203)
3627136.5	368.22987 (21110518)
3626940.7	511.53015 (20062123)
3626744.8	421.88870 (20031703)
3626549.0	495.53321 (22091222)
3626353.1	613.15782 (21083001)
3626157.2	555.39074 (22070202)
3625961.4	546.22879 (21020719)
3625765.5	694.03302 (21070803)
3625569.7	668.36870 (21063023)
3625373.8	688.89060 (22073105)
3625177.9	694.12370 (22041522)
3624982.1	672.55755 (20071201)
3624786.2	611.49377 (21081124)
3624590.4	598.06232 (22070621)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 101

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC	CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)
-----	-----	-----	-----	-----
492883.25	3625830.80	1008.17227	(22081103)	492919.80
3625834.65	912.36061 (21061601)			
492955.07	3625845.55	985.05011	(21080902)	493069.86
3625832.73	1727.17848 (22011423)			
493094.87	3625832.73	1544.76971	(21092324)	493110.90
3625837.21	1492.62652 (20101806)			
493151.95	3625834.01	1291.57615	(21092324)	493166.70
3625837.86	1232.22985 (20101806)			
493187.86	3625836.57	1147.06638	(20101806)	493201.33
3625836.57	1097.92811 (20101806)			
493240.44	3625836.57	1065.26670	(20101621)	492881.32
3625908.40	1016.04725 (22081103)			
492906.98	3625898.14	912.53019	(20052502)	492901.84
3625911.60	926.34670 (21030703)			
492928.14	3625914.81	984.75898	(21080902)	492933.91
3625898.14	968.97433 (21080902)			
492951.87	3625908.40	1019.92903	(21080902)	492973.67
3625907.11	995.25635 (21061223)			
492993.55	3625914.17	1052.86709	(20061224)	492996.11
3625897.50	1043.37819 (20061224)			
493015.99	3625896.85	1040.73493	(20061224)	493023.05
3625912.24	1135.31906 (21081221)			
493044.21	3625907.11	1398.40580	(22010702)	493066.66
3625907.76	1249.40306 (22010702)			
493085.25	3625912.24	1013.87311	(22070601)	493087.18
3625895.57	1134.42684 (20081923)			
493108.98	3625911.60	1015.49849	(20081923)	493112.19
3625897.50	1041.81676 (20071323)			
493133.99	3625901.98	1066.27230	(22081002)	492874.27
3625788.48	1061.56627 (22081103)			
492894.15	3625789.12	949.00532	(20011918)	492910.18
3625790.40	923.12246 (21030703)			
492930.70	3625786.55	984.29684	(22120301)	492947.38
3625791.04	1103.79020 (22120301)			
492963.41	3625787.84	993.57376	(21080902)	492982.65
3625787.84	1194.93583 (21080902)			
492999.96	3625787.84	1406.00577	(21080902)	493021.12
3625791.04	1870.40733 (20080623)			
493036.52	3625789.12	1979.85575	(20080623)	493055.75
3625789.76	1707.61874 (21013120)			
493076.28	3625787.84	1347.97330	(22071602)	493094.87
3625787.84	1447.47778 (22082504)			
493112.83	3625788.48	1238.77319	(20082306)	493129.50

3625787.19	1151.15531	(22092902)	
493148.74	3625787.19	1081.06092	(22092902) 493164.77
3625790.40	1077.15003	(20082305)	
493184.65	3625789.12	1019.28055	(20082305) 493201.97
3625791.04	1031.67666	(22010819)	
493221.21	3625790.40	1036.95112	(22010819) 493238.52
3625791.04	1030.77906	(21071002)	
492780.00	3626415.01	1843.08982	(22071905) 492778.72
3626388.08	2087.18655	(21080902)	
492747.94	3626386.16	2109.64259	(20042523) 492742.16
3626418.22	2462.67938	(20042523)	
492699.20	3626422.71	2480.72791	(20011420) 492697.92
3626391.93	2040.59914	(20011420)	
492678.68	3626411.81	2098.10920	(21041524) 492626.09
3626426.56	2002.24704	(20051704)	
492606.85	3626435.54	2779.81891	(22012923) 492599.16
3626405.39	2039.62168	(22120504)	
492491.20	3626644.88	1478.15950	(22110603) 492517.36
3626636.70	1604.58961	(22110603)	
492521.18	3626603.45	2293.06261	(20122123) 492521.72
3626582.19	2621.67615	(20122123)	
492512.46	3626553.84	1824.01503	(20122420) 492513.55
3626533.13	1784.63548	(20120923)	
492501.01	3626506.42	2104.79302	(21030222) 492490.65
3626485.70	2361.42459	(21030222)	
492479.21	3626464.45	2555.31575	(21030222) 492466.12
3626447.00	2622.38580	(21030222)	
492447.59	3626418.66	1904.82211	(20011520) 492431.78
3626430.65	2007.89585	(21030222)	
492481.93	3626620.35	1568.18161	(20010720) 492482.48
3626594.18	2249.44603	(20122123)	
492479.21	3626572.92	2390.33435	(20122123) 492477.02
3626546.76	1674.86316	(20122123)	
492467.76	3626523.32	1588.89123	(20021722) 492463.94
3626507.51	1546.28981	(20120923)	
492450.86	3626492.79	1624.32798	(21030222) 492427.42
3626474.80	1903.97534	(21030222)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 102

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010

```

, L0000011      , L0000012      , L0000013      ,
                  L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
                  L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

```

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	1689.35886	(20101105)	492803.94
3626616.07	2963.25876	(22040302)		
492823.25	3626567.17	2500.85344	(22060122)	492838.34
3626526.92	2421.14859	(20021620)		
493039.78	3625834.45	1520.11987	(22011423)	492791.92
3626663.04	2405.47276	(20070601)		
492731.11	3626741.92	2645.25775	(20070601)	492774.75
3626728.05	1773.82898	(20070601)		
492674.05	3626738.96	2647.22477	(22102624)	492708.49
3626698.47	2374.45549	(21081301)		
493013.27	3625844.49	1183.58627	(20061224)	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:47:11

PAGE 103

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (26304

HRS) RESULTS ***

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

**

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

SLINE1	1ST HIGHEST VALUE IS	218.65960	AT (	492803.94,	3626616.07,	124.66,
	124.66, 0.00) DC					
	2ND HIGHEST VALUE IS	188.60316	AT (	492626.08,	3626548.96,	100.70,
	136.60, 0.00) GC UCART1					
	3RD HIGHEST VALUE IS	186.22050	AT (	492823.25,	3626567.17,	125.08,
	125.08, 0.00) DC					
	4TH HIGHEST VALUE IS	176.77258	AT (	492820.18,	3626548.96,	125.40,
	125.40, 0.00) GC UCART1					
	5TH HIGHEST VALUE IS	164.53235	AT (	492791.92,	3626663.04,	123.58,
	123.58, 0.00) DC					
	6TH HIGHEST VALUE IS	157.84066	AT (	492708.49,	3626698.47,	121.52,
	121.52, 0.00) DC					
	7TH HIGHEST VALUE IS	134.93429	AT (	492838.34,	3626526.92,	125.45,
	125.45, 0.00) DC					
	8TH HIGHEST VALUE IS	83.63561	AT (	492513.55,	3626533.13,	118.00,
	133.70, 0.00) DC					
	9TH HIGHEST VALUE IS	83.57959	AT (	492674.05,	3626738.96,	119.68,
	121.09, 0.00) DC					
	10TH HIGHEST VALUE IS	81.45557	AT (	492774.75,	3626728.05,	120.29,
	120.29, 0.00) DC					
STCK1	1ST HIGHEST VALUE IS	88.21702	AT (	492820.18,	3626548.96,	125.40,
	125.40, 0.00) GC UCART1					
	2ND HIGHEST VALUE IS	81.52801	AT (	492838.34,	3626526.92,	125.45,
	125.45, 0.00) DC					
	3RD HIGHEST VALUE IS	63.35507	AT (	492823.25,	3626567.17,	125.08,
	125.08, 0.00) DC					
	4TH HIGHEST VALUE IS	28.27319	AT (	492699.20,	3626422.71,	129.76,
	129.76, 0.00) DC					
	5TH HIGHEST VALUE IS	27.26878	AT (	492742.16,	3626418.22,	129.71,
	129.71, 0.00) DC					
	6TH HIGHEST VALUE IS	24.95680	AT (	492678.68,	3626411.81,	130.96,
	134.69, 0.00) DC					
	7TH HIGHEST VALUE IS	23.71054	AT (	492780.00,	3626415.01,	128.98,
	135.14, 0.00) DC					
	8TH HIGHEST VALUE IS	21.99347	AT (	492697.92,	3626391.93,	131.37,
	134.78, 0.00) DC					
	9TH HIGHEST VALUE IS	21.47011	AT (	492626.09,	3626426.56,	132.75,
	133.61, 0.00) DC					
	10TH HIGHEST VALUE IS	19.66001	AT (	492606.85,	3626435.54,	128.92,
	134.13, 0.00) DC					
STCK2	1ST HIGHEST VALUE IS	156.36088	AT (	493039.78,	3625834.45,	141.93,
	141.93, 0.00) DC					
	2ND HIGHEST VALUE IS	107.83633	AT (	493013.27,	3625844.49,	141.76,
	141.76, 0.00) DC					
	3RD HIGHEST VALUE IS	104.37471	AT (	493069.86,	3625832.73,	142.17,
	142.17, 0.00) DC					
	4TH HIGHEST VALUE IS	86.28154	AT (	493076.28,	3625787.84,	141.87,
	141.87, 0.00) DC					

141.87,	5TH HIGHEST VALUE IS	85.24800	AT (	493055.75,	3625789.76,	141.87,
0.00)	DC					
141.85,	6TH HIGHEST VALUE IS	80.12173	AT (	493036.52,	3625789.12,	141.85,
0.00)	DC					
141.82,	7TH HIGHEST VALUE IS	78.47407	AT (	493021.12,	3625791.04,	141.82,
0.00)	DC					
141.87,	8TH HIGHEST VALUE IS	77.03139	AT (	493094.87,	3625787.84,	141.87,
0.00)	DC					
142.17,	9TH HIGHEST VALUE IS	68.58691	AT (	493094.87,	3625832.73,	142.17,
0.00)	DC					
141.71,	10TH HIGHEST VALUE IS	58.24440	AT (	492999.96,	3625787.84,	141.71,
0.00)	DC					
STCK3	1ST HIGHEST VALUE IS	83.71425	AT (	492803.94,	3626616.07,	124.66,
124.66,	0.00)	DC				
123.58,	2ND HIGHEST VALUE IS	63.15476	AT (	492791.92,	3626663.04,	123.58,
0.00)	DC					
125.08,	3RD HIGHEST VALUE IS	27.58239	AT (	492823.25,	3626567.17,	125.08,
0.00)	DC					
125.40,	4TH HIGHEST VALUE IS	21.14829	AT (	492820.18,	3626548.96,	125.40,
0.00)	GC UCART1					
136.60,	5TH HIGHEST VALUE IS	19.97434	AT (	492626.08,	3626548.96,	100.70,
0.00)	GC UCART1					
136.20,	6TH HIGHEST VALUE IS	19.12963	AT (	493014.28,	3626548.96,	110.00,
0.00)	GC UCART1					
121.52,	7TH HIGHEST VALUE IS	18.73922	AT (	492708.49,	3626698.47,	121.52,
0.00)	DC					
125.45,	8TH HIGHEST VALUE IS	18.49818	AT (	492838.34,	3626526.92,	125.45,
0.00)	DC					
134.13,	9TH HIGHEST VALUE IS	13.70546	AT (	492606.85,	3626435.54,	128.92,
0.00)	DC					
133.61,	10TH HIGHEST VALUE IS	12.43496	AT (	492626.09,	3626426.56,	132.75,
0.00)	DC					

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:47:11

PAGE 104

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (26304

HRS) RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

NETWORK

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE GRID-ID		
- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -
STCK4	1ST HIGHEST VALUE IS	46.09566 AT (	492708.49, 3626698.47, 121.52,
121.52,	0.00) DC		
	2ND HIGHEST VALUE IS	33.45300 AT (	492791.92, 3626663.04, 123.58,
123.58,	0.00) DC		
	3RD HIGHEST VALUE IS	30.77086 AT (	492731.11, 3626741.92, 118.49,
121.20,	0.00) DC		
	4TH HIGHEST VALUE IS	29.90511 AT (	492774.75, 3626728.05, 120.29,
120.29,	0.00) DC		
	5TH HIGHEST VALUE IS	24.31135 AT (	492803.94, 3626616.07, 124.66,
124.66,	0.00) DC		
	6TH HIGHEST VALUE IS	20.59435 AT (	492823.25, 3626567.17, 125.08,
125.08,	0.00) DC		
	7TH HIGHEST VALUE IS	20.11937 AT (	492674.05, 3626738.96, 119.68,
121.09,	0.00) DC		
	8TH HIGHEST VALUE IS	20.01638 AT (	492626.08, 3626744.82, 112.00,
123.20,	0.00) GC UCART1		
	9TH HIGHEST VALUE IS	18.54391 AT (	492820.18, 3626744.82, 108.40,
125.30,	0.00) GC UCART1		
	10TH HIGHEST VALUE IS	18.16964 AT (	492820.18, 3626548.96, 125.40,
125.40,	0.00) GC UCART1		
STCK5	1ST HIGHEST VALUE IS	46.46960 AT (	492708.49, 3626698.47, 121.52,
121.52,	0.00) DC		
	2ND HIGHEST VALUE IS	34.91465 AT (	492791.92, 3626663.04, 123.58,
123.58,	0.00) DC		
	3RD HIGHEST VALUE IS	32.83330 AT (	492774.75, 3626728.05, 120.29,
120.29,	0.00) DC		
	4TH HIGHEST VALUE IS	27.36265 AT (	492521.18, 3626603.45, 117.51,
117.51,	0.00) DC		
	5TH HIGHEST VALUE IS	26.06414 AT (	492823.25, 3626567.17, 125.08,
125.08,	0.00) DC		
	6TH HIGHEST VALUE IS	26.06116 AT (	492731.11, 3626741.92, 118.49,
121.20,	0.00) DC		
	7TH HIGHEST VALUE IS	25.92516 AT (	492521.72, 3626582.19, 118.28,
118.28,	0.00) DC		
	8TH HIGHEST VALUE IS	25.63970 AT (	492803.94, 3626616.07, 124.66,
124.66,	0.00) DC		
	9TH HIGHEST VALUE IS	23.93031 AT (	492517.36, 3626636.70, 113.55,
133.70,	0.00) DC		
	10TH HIGHEST VALUE IS	23.20407 AT (	492674.05, 3626738.96, 119.68,
121.09,	0.00) DC		
ALL	1ST HIGHEST VALUE IS	367.71826 AT (	492803.94, 3626616.07, 124.66,
124.66,	0.00) DC		
	2ND HIGHEST VALUE IS	325.29780 AT (	492820.18, 3626548.96, 125.40,

125.40,	0.00)	GC UCART1			
		3RD HIGHEST VALUE IS	325.14756	AT (492823.25,	3626567.17,
125.08,	0.00)	DC			125.08,
		4TH HIGHEST VALUE IS	306.40008	AT (492791.92,	3626663.04,
123.58,	0.00)	DC			123.58,
		5TH HIGHEST VALUE IS	278.98613	AT (492708.49,	3626698.47,
121.52,	0.00)	DC			121.52,
		6TH HIGHEST VALUE IS	269.17932	AT (492838.34,	3626526.92,
125.45,	0.00)	DC			125.45,
		7TH HIGHEST VALUE IS	251.67589	AT (492626.08,	3626548.96,
136.60,	0.00)	GC UCART1			100.70,
		8TH HIGHEST VALUE IS	169.78451	AT (493039.78,	3625834.45,
141.93,	0.00)	DC			141.93,
		9TH HIGHEST VALUE IS	162.28157	AT (492774.75,	3626728.05,
120.29,	0.00)	DC			120.29,
		10TH HIGHEST VALUE IS	156.95838	AT (492731.11,	3626741.92,
121.20,	0.00)	DC			118.49,

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

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:47:11

PAGE 105

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

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

**

				DATE			
				NETWORK			
GROUP ID				AVERAGE CONC		(YYMMDDHH)	
(XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE GRID-ID			
-----				-----		-----	
-----				-----		-----	
SLINE1	HIGH	1ST HIGH VALUE IS	2829.84634	ON	22040302:	AT (492803.94,	
3626616.07,	124.66,	124.66,	0.00)	DC			
STCK1	HIGH	1ST HIGH VALUE IS	1361.72319	ON	22102522:	AT (492803.94,	
3626616.07,	124.66,	124.66,	0.00)	DC			

STCK2 HIGH 1ST HIGH VALUE IS 1714.13040 ON 22011423: AT (493069.86,
3625832.73, 142.17, 142.17, 0.00) DC

STCK3 HIGH 1ST HIGH VALUE IS 972.94743 ON 22081103: AT (492820.18,
3626548.96, 125.40, 125.40, 0.00) GC UCART1

STCK4 HIGH 1ST HIGH VALUE IS 823.82437 ON 21030222: AT (492708.49,
3626698.47, 121.52, 121.52, 0.00) DC

STCK5 HIGH 1ST HIGH VALUE IS 1354.39831 ON 21012517: AT (492708.49,
3626698.47, 121.52, 121.52, 0.00) DC

ALL HIGH 1ST HIGH VALUE IS 3203.31630 ON 20011520: AT (492626.08,
3626548.96, 100.70, 136.60, 0.00) GC UCART1

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

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:47:11

PAGE 106

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

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

A Total of 0 Fatal Error Message(s)
A Total of 3 Warning Message(s)
A Total of 1415 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 654 Calm Hours Identified

A Total of 761 Missing Hours Identified (2.89 Percent)

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

***** WARNING MESSAGES *****
SO W320 169 PPARM: Input Parameter May Be Out-of-Range for Parameter

```
      VS
SO W320      170      PPARM: Input Parameter May Be Out-of-Range for Parameter
      VS
MX W403      388      PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data
```

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

HARP2 - HRACalc (dated 22118) 12/3/2024 3:14:52 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.5

Exposure Duration Bin Distribution

3rd Trimester Bin: 0.25
0<2 Years Bin: 1.5
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 5 HARP\hra\Phase 5

OffsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 5 HARP\hra\Phase 5

OffsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 5 HARP\hra\Phase 5

OffsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 5 HARP\hra\Phase 5

OffsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 5 HARP\hra\Phase 5

OffsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 5 HARP\hra\Phase 5

OffsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

470	ALL	493134	3625902	1.07E-07	1.5YrCance	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	492874.3	3625788	1.09E-07	1.5YrCance	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	492894.2	3625789	1.14E-07	1.5YrCance	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	492910.2	3625790	1.19E-07	1.5YrCance	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	492930.7	3625787	1.22E-07	1.5YrCance	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	492947.4	3625791	1.26E-07	1.5YrCance	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	492963.4	3625788	1.21E-07	1.5YrCance	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	492982.7	3625788	1.21E-07	1.5YrCance	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	493000	3625788	1.29E-07	1.5YrCance	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	493021.1	3625791	1.51E-07	1.5YrCance	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	493036.5	3625789	1.53E-07	1.5YrCance	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	493055.8	3625790	1.59E-07	1.5YrCance	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	493076.3	3625788	1.61E-07	1.5YrCance	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	493094.9	3625788	1.51E-07	1.5YrCance	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	493112.8	3625788	1.32E-07	1.5YrCance	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	493129.5	3625787	1.24E-07	1.5YrCance	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	493148.7	3625787	1.16E-07	1.5YrCance	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	493164.8	3625790	1.11E-07	1.5YrCance	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	493184.7	3625789	1.07E-07	1.5YrCance												

[illegible]

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEI RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL	UCART1	490879.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
2	ALL	UCART1	491073.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
3	ALL	UCART1	491267.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
4	ALL	UCART1	491461.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
5	ALL	UCART1	491655.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
6	ALL	UCART1	491849.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
7	ALL	UCART1	492043.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
8	ALL	UCART1	492237.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
9	ALL	UCART1	492432	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
10	ALL	UCART1	492626.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
11	ALL	UCART1	492820.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
12	ALL	UCART1	493014.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
13	ALL	UCART1	493208.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
14	ALL	UCART1	493402.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
15	ALL	UCART1	493596.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
16	ALL	UCART1	493790.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
17	ALL	UCART1	493984.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
18	ALL	UCART1	494178.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
19	ALL	UCART1	494373	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
20	ALL	UCART1	494567.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
21	ALL	UCART1	494761.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
22	ALL	UCART1	490879.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
23	ALL	UCART1	491073.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
24	ALL	UCART1	491267.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05
25	ALL	UCART1	491461.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
26	ALL	UCART1	491655.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
27	ALL	UCART1	491849.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
28	ALL	UCART1	492043.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
29	ALL	UCART1	492237.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
30	ALL	UCART1	492432	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
31	ALL	UCART1	492626.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
32	ALL	UCART1	492820.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
33	ALL	UCART1	493014.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
34	ALL	UCART1	493208.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
35	ALL	UCART1	493402.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
36	ALL	UCART1	493596.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
37	ALL	UCART1	493790.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
38	ALL	UCART1	493984.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
39	ALL	UCART1	494178.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
40	ALL	UCART1	494373	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
41	ALL	UCART1	494567.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
42	ALL	UCART1	494761.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
43	ALL	UCART1	490879.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
44	ALL	UCART1	491073.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
45	ALL	UCART1	491267.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
46	ALL	UCART1	491461.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
47	ALL	UCART1	491655.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
48	ALL	UCART1	491849.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
49	ALL	UCART1	492043.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
50	ALL	UCART1	492237.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05
51	ALL	UCART1	492432	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05

52		UCART1	492626.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
53	ALL	UCART1	492820.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
54	ALL	UCART1	493014.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
55	ALL	UCART1	493208.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
56	ALL	UCART1	493402.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
57	ALL	UCART1	493596.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
58	ALL	UCART1	493790.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
59	ALL	UCART1	493984.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
60	ALL	UCART1	494178.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
61	ALL	UCART1	494373	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
62	ALL	UCART1	494567.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
63	ALL	UCART1	494761.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
64	ALL	UCART1	490879.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
65	ALL	UCART1	491073.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
66	ALL	UCART1	491267.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
67	ALL	UCART1	491461.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
68	ALL	UCART1	491655.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
69	ALL	UCART1	491849.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
70	ALL	UCART1	492043.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
71	ALL	UCART1	492237.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
72	ALL	UCART1	492432	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
73	ALL	UCART1	492626.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
74	ALL	UCART1	492820.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05
75	ALL	UCART1	493014.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
76	ALL	UCART1	493208.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05
77	ALL	UCART1	493402.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
78	ALL	UCART1	493596.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
79	ALL	UCART1	493790.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
80	ALL	UCART1	493984.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
81	ALL	UCART1	494178.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
82	ALL	UCART1	494373	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
83	ALL	UCART1	494567.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
84	ALL	UCART1	494761.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
85	ALL	UCART1	490879.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
86	ALL	UCART1	491073.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
87	ALL	UCART1	491267.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
88	ALL	UCART1	491461.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05
89	ALL	UCART1	491655.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05
90	ALL	UCART1	491849.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05
91	ALL	UCART1	492043.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05
92	ALL	UCART1	492237.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
93	ALL	UCART1	492432	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
94	ALL	UCART1	492626.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05
95	ALL	UCART1	492820.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
96	ALL	UCART1	493014.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05
97	ALL	UCART1	493208.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05
98	ALL	UCART1	493402.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
99	ALL	UCART1	493596.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
100	ALL	UCART1	493790.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-0

104		UCART1	494567.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
105	ALL	UCART1	494761.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
106	ALL	UCART1	490879.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
107	ALL	UCART1	491073.3	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
108	ALL	UCART1	491267.4	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-05
109	ALL	UCART1	491461.5	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05
110	ALL	UCART1	491655.6	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05
111	ALL	UCART1	491849.7	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05
112	ALL	UCART1	492043.8	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05
113	ALL	UCART1	492237.9	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05
114	ALL	UCART1	492432	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05
115	ALL	UCART1	492626.1	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05
116	ALL	UCART1	492820.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-05
117	ALL	UCART1	493014.3	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05
118	ALL	UCART1	493208.4	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05
119	ALL	UCART1	493402.5	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
120	ALL	UCART1	493596.6	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
121	ALL	UCART1	493790.7	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
122	ALL	UCART1	493984.8	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05
123	ALL	UCART1	494178.9	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
124	ALL	UCART1	494373	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
125	ALL	UCART1	494567.1	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05
126	ALL	UCART1	494761.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
127	ALL	UCART1	490879.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05
128	ALL	UCART1	491073.3	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05
129	ALL	UCART1	491267.4	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-05
130	ALL	UCART1	491461.5	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05
131	ALL	UCART1	491655.6	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05
132	ALL	UCART1	491849.7	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-05
133	ALL	UCART1	492043.8	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05
134	ALL	UCART1	492237.9	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05
135	ALL	UCART1	492432	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
136	ALL	UCART1	492626.1	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
137	ALL	UCART1	492820.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-05
138	ALL	UCART1	493014.3	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05
139	ALL	UCART1	493208.4	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-05
140	ALL	UCART1	493402.5	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05
141	ALL	UCART1	493596.6	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05
142	ALL	UCART1	493790.7	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
143	ALL	UCART1	493984.8	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
144	ALL	UCART1	494178.9	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
145	ALL	UCART1	494373	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
146	ALL	UCART1	494567.1	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
147	ALL	UCART1	494761.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
148	ALL	UCART1	490879.2	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
149	ALL	UCART1	491073.3	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
150	ALL	UCART1	491267.4	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00												

[illegible]

312		UCART1	494178.9	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-06
313	ALL	UCART1	494373	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06
314	ALL	UCART1	494567.1	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06
315	ALL	UCART1	494761.2	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-06
316	ALL	UCART1	490879.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
317	ALL	UCART1	491073.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
318	ALL	UCART1	491267.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
319	ALL	UCART1	491461.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
320	ALL	UCART1	491655.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
321	ALL	UCART1	491849.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
322	ALL	UCART1	492043.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05
323	ALL	UCART1	492237.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05
324	ALL	UCART1	492432	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05
325	ALL	UCART1	492626.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05
326	ALL	UCART1	492820.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
327	ALL	UCART1	493014.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05
328	ALL	UCART1	493208.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
329	ALL	UCART1	493402.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
330	ALL	UCART1	493596.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05
331	ALL	UCART1	493790.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
332	ALL	UCART1	493984.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06
333	ALL	UCART1	494178.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-06
334	ALL	UCART1	494373	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-06
335	ALL	UCART1	494567.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-06
336	ALL	UCART1	494761.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-06
337	ALL	UCART1	490879.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
338	ALL	UCART1	491073.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
339	ALL	UCART1	491267.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
340	ALL	UCART1	491461.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
341	ALL	UCART1	491655.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
342	ALL	UCART1	491849.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
343	ALL	UCART1	492043.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
344	ALL	UCART1	492237.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
345	ALL	UCART1	492432	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
346	ALL	UCART1	492626.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
347	ALL	UCART1	492820.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05
348	ALL	UCART1	493014.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
349	ALL	UCART1	493208.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
350	ALL	UCART1	493402.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
351	ALL	UCART1	493596.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
352	ALL	UCART1	493790.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-06
353	ALL	UCART1	493984.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-06
354	ALL	UCART1	494178.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-06
355	ALL	UCART1	494373	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-06
356	ALL	UCART1	494567.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-06
357	ALL	UCART1	494761.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-06
358	ALL	UCART1	490879.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

364		UCART1	492043.8	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
365	ALL	UCART1	492237.9	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
366		UCART1	492432	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
367	ALL	UCART1	492626.1	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
368	ALL	UCART1	492820.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
369	ALL	UCART1	493014.3	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
370	ALL	UCART1	493208.4	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
371	ALL	UCART1	493402.5	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
372	ALL	UCART1	493596.6	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
373	ALL	UCART1	493790.7	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-06
374	ALL	UCART1	493984.8	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-06
375	ALL	UCART1	494178.9	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-06
376	ALL	UCART1	494373	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-06
377	ALL	UCART1	494567.1	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-06
378	ALL	UCART1	494761.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-06
379	ALL	UCART1	490879.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
380	ALL	UCART1	491073.3	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
381	ALL	UCART1	491267.4	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
382	ALL	UCART1	491461.5	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
383	ALL	UCART1	491655.6	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
384	ALL	UCART1	491849.7	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
385	ALL	UCART1	492043.8	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
386	ALL	UCART1	492237.9	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
387	ALL	UCART1	492432	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
388	ALL	UCART1	492626.1	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
389	ALL	UCART1	492820.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
390	ALL	UCART1	493014.3	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
391	ALL	UCART1	493208.4	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
392	ALL	UCART1	493402.5	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
393	ALL	UCART1	493596.6	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
394	ALL	UCART1	493790.7	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
395	ALL	UCART1	493984.8	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-06
396	ALL	UCART1	494178.9	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-06
397	ALL	UCART1	494373	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-06
398	ALL	UCART1	494567.1	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-06
399	ALL	UCART1	494761.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06
400	ALL	UCART1	490879.2	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
401	ALL	UCART1	491073.3	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
402	ALL	UCART1	491267.4	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
403	ALL	UCART1	491461.5	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
404	ALL	UCART1	491655.6	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
405	ALL	UCART1	491849.7	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
406	ALL	UCART1	492043.8	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
407	ALL	UCART1	492237.9	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
408	ALL	UCART1	492432	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
409	ALL	UCART1	492626.1	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
410	ALL	UCART1	492820.2	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0											

		493109	3625912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-05
469 ALL		493112.2	3625898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05
470 ALL		493134	3625902	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05
471 ALL		492874.3	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-05
472 ALL		492894.2	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05
473 ALL		492910.2	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05
474 ALL		492930.7	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05
475 ALL		492947.4	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05
476 ALL		492963.4	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-05
477 ALL		492982.7	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05
478 ALL		493000	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
479 ALL		493021.1	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
480 ALL		493036.5	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
481 ALL		493055.8	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
482 ALL		493076.3	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
483 ALL		493094.9	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
484 ALL		493112.8	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
485 ALL		493129.5	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05
486 ALL		493148.7	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05
487 ALL		493164.8	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05
488 ALL		493184.7	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-05
489 ALL		493202	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05
490 ALL		493221.2	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05
491 ALL		493238.5	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
492 ALL		492780	3626415	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04
493 ALL		492778.7	3626388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04
494 ALL		492747.9	3626386	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04
495 ALL		492742.2	3626418	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04
496 ALL		492699.2	3626423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04
497 ALL		492697.9	3626392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04
498 ALL		492678.7	3626412	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-04
499 ALL		492626.1	3626427	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04
500 ALL		492606.9	3626436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-04
501 ALL		492599.2	3626405	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04
502 ALL		492491.2	3626645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04
503 ALL		492517.4	3626637	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-04
504 ALL		492521.2	3626603	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
505 ALL		492521.7	3626582	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
506 ALL		492512.5	3626554	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
507 ALL		492513.6	3626533	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
508 ALL		492501	3626506	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
509 ALL		492490.7	3626486	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
510 ALL		492479.2	3626464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
511 ALL		492466.1	3626447	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
512 ALL		492447.6	3626419	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-04
513 ALL		492431.8	3626431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-04
514 ALL		492481.9	3626620	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-04
515 ALL		492482.5	3626594	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04
516 ALL		492479.2	3626573	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-04
517 ALL		492477	3626547	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-04
518 ALL		492467.8	3626523	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04
519 ALL		492463.9	3626508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03

[illegible]

HARP2 - HRACalc (dated 22118) 12/3/2024 3:14:36 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 1.5

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 1.5
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 5 HARP\hra\Phase 5

OnsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 5 HARP\hra\Phase 5

OnsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 5 HARP\hra\Phase 5

OnsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 5 HARP\hra\Phase 5

OnsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 5 HARP\hra\Phase 5

OnsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 5 HARP\hra\Phase 5

OnsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

470	ALL	493134	3625902	2.43E-09	1.5YrCance	2.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	492874.3	3625788	2.46E-09	1.5YrCance	2.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	492894.2	3625789	2.59E-09	1.5YrCance	2.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	492910.2	3625790	2.70E-09	1.5YrCance	2.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	492930.7	3625787	2.76E-09	1.5YrCance	2.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	492947.4	3625791	2.85E-09	1.5YrCance	2.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	492963.4	3625788	2.73E-09	1.5YrCance	2.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	492982.7	3625788	2.76E-09	1.5YrCance	2.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	493000	3625788	2.93E-09	1.5YrCance	2.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	493021.1	3625791	3.44E-09	1.5YrCance	3.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	493036.5	3625789	3.48E-09	1.5YrCance	3.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	493055.8	3625790	3.62E-09	1.5YrCance	3.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	493076.3	3625788	3.65E-09	1.5YrCance	3.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	493094.9	3625788	3.44E-09	1.5YrCance	3.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	493112.8	3625788	2.99E-09	1.5YrCance	2.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	493129.5	3625787	2.81E-09	1.5YrCance	2.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	493148.7	3625787	2.64E-09	1.5YrCance	2.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	493164.8	3625790	2.52E-09	1.5YrCance	2.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	493184.7	3625789	2.42E-09	1.5YrCance												

[illegible]

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEI RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL	UCART1	490879.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
2	ALL	UCART1	491073.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
3	ALL	UCART1	491267.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
4	ALL	UCART1	491461.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
5	ALL	UCART1	491655.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
6	ALL	UCART1	491849.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
7	ALL	UCART1	492043.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
8	ALL	UCART1	492237.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
9	ALL	UCART1	492432	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
10	ALL	UCART1	492626.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
11	ALL	UCART1	492820.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
12	ALL	UCART1	493014.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
13	ALL	UCART1	493208.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
14	ALL	UCART1	493402.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
15	ALL	UCART1	493596.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
16	ALL	UCART1	493790.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
17	ALL	UCART1	493984.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
18	ALL	UCART1	494178.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
19	ALL	UCART1	494373	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
20	ALL	UCART1	494567.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
21	ALL	UCART1	494761.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
22	ALL	UCART1	490879.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
23	ALL	UCART1	491073.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
24	ALL	UCART1	491267.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05
25	ALL	UCART1	491461.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
26	ALL	UCART1	491655.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
27	ALL	UCART1	491849.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
28	ALL	UCART1	492043.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
29	ALL	UCART1	492237.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
30	ALL	UCART1	492432	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
31	ALL	UCART1	492626.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
32	ALL	UCART1	492820.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
33	ALL	UCART1	493014.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
34	ALL	UCART1	493208.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
35	ALL	UCART1	493402.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
36	ALL	UCART1	493596.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
37	ALL	UCART1	493790.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
38	ALL	UCART1	493984.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
39	ALL	UCART1	494178.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
40	ALL	UCART1	494373	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
41	ALL	UCART1	494567.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
42	ALL	UCART1	494761.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
43	ALL	UCART1	490879.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
44	ALL	UCART1	491073.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
45	ALL	UCART1	491267.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
46	ALL	UCART1	491461.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
47	ALL	UCART1	491655.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
48	ALL	UCART1	491849.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
49	ALL	UCART1	492043.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
50	ALL	UCART1	492237.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05
51	ALL	UCART1	492432	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05

52		UCART1	492626.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
53	ALL	UCART1	492820.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
54	ALL	UCART1	493014.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
55	ALL	UCART1	493208.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
56	ALL	UCART1	493402.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
57	ALL	UCART1	493596.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
58	ALL	UCART1	493790.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
59	ALL	UCART1	493984.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
60	ALL	UCART1	494178.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
61	ALL	UCART1	494373	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
62	ALL	UCART1	494567.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
63	ALL	UCART1	494761.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
64	ALL	UCART1	490879.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
65	ALL	UCART1	491073.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
66	ALL	UCART1	491267.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
67	ALL	UCART1	491461.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
68	ALL	UCART1	491655.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
69	ALL	UCART1	491849.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
70	ALL	UCART1	492043.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
71	ALL	UCART1	492237.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
72	ALL	UCART1	492432	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
73	ALL	UCART1	492626.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
74	ALL	UCART1	492820.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05
75	ALL	UCART1	493014.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
76	ALL	UCART1	493208.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05
77	ALL	UCART1	493402.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
78	ALL	UCART1	493596.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
79	ALL	UCART1	493790.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
80	ALL	UCART1	493984.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
81	ALL	UCART1	494178.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
82	ALL	UCART1	494373	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
83	ALL	UCART1	494567.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
84	ALL	UCART1	494761.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
85	ALL	UCART1	490879.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
86	ALL	UCART1	491073.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
87	ALL	UCART1	491267.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
88	ALL	UCART1	491461.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05
89	ALL	UCART1	491655.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05
90	ALL	UCART1	491849.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05
91	ALL	UCART1	492043.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05
92	ALL	UCART1	492237.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
93	ALL	UCART1	492432	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
94	ALL	UCART1	492626.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05
95	ALL	UCART1	492820.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
96	ALL	UCART1	493014.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05
97	ALL	UCART1	493208.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05
98	ALL	UCART1	493402.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
99	ALL	UCART1	493596.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
100	ALL	UCART1	493790.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-0

104		UCART1	494567.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
105	ALL	UCART1	494761.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
106	ALL	UCART1	490879.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
107	ALL	UCART1	491073.3	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
108	ALL	UCART1	491267.4	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-05
109	ALL	UCART1	491461.5	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05
110	ALL	UCART1	491655.6	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05
111	ALL	UCART1	491849.7	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05
112	ALL	UCART1	492043.8	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05
113	ALL	UCART1	492237.9	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05
114	ALL	UCART1	492432	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05
115	ALL	UCART1	492626.1	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05
116	ALL	UCART1	492820.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-05
117	ALL	UCART1	493014.3	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05
118	ALL	UCART1	493208.4	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05
119	ALL	UCART1	493402.5	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
120	ALL	UCART1	493596.6	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
121	ALL	UCART1	493790.7	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
122	ALL	UCART1	493984.8	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05
123	ALL	UCART1	494178.9	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
124	ALL	UCART1	494373	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
125	ALL	UCART1	494567.1	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05
126	ALL	UCART1	494761.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
127	ALL	UCART1	490879.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05
128	ALL	UCART1	491073.3	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05
129	ALL	UCART1	491267.4	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-05
130	ALL	UCART1	491461.5	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05
131	ALL	UCART1	491655.6	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05
132	ALL	UCART1	491849.7	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-05
133	ALL	UCART1	492043.8	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05
134	ALL	UCART1	492237.9	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05
135	ALL	UCART1	492432	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
136	ALL	UCART1	492626.1	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
137	ALL	UCART1	492820.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-05
138	ALL	UCART1	493014.3	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05
139	ALL	UCART1	493208.4	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-05
140	ALL	UCART1	493402.5	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05
141	ALL	UCART1	493596.6	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05
142	ALL	UCART1	493790.7	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
143	ALL	UCART1	493984.8	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
144	ALL	UCART1	494178.9	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
145	ALL	UCART1	494373	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
146	ALL	UCART1	494567.1	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
147	ALL	UCART1	494761.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
148	ALL	UCART1	490879.2	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
149	ALL	UCART1	491073.3	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
150	ALL	UCART1	491267.4	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00												

208		UCART1	494373	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
209	ALL	UCART1	494567.1	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
210	ALL	UCART1	494761.2	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
211	ALL	UCART1	490879.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
212	ALL	UCART1	491073.3	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
213	ALL	UCART1	491267.4	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
214	ALL	UCART1	491461.5	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05
215	ALL	UCART1	491655.6	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05
216	ALL	UCART1	491849.7	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
217	ALL	UCART1	492043.8	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
218	ALL	UCART1	492237.9	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04
219	ALL	UCART1	492432	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04
220	ALL	UCART1	492626.1	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03
221	ALL	UCART1	492820.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03
222	ALL	UCART1	493014.3	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04
223	ALL	UCART1	493208.4	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
224	ALL	UCART1	493402.5	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
225	ALL	UCART1	493596.6	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05
226	ALL	UCART1	493790.7	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-05
227	ALL	UCART1	493984.8	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05
228	ALL	UCART1	494178.9	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
229	ALL	UCART1	494373	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
230	ALL	UCART1	494567.1	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
231	ALL	UCART1	494761.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
232	ALL	UCART1	490879.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
233	ALL	UCART1	491073.3	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
234	ALL	UCART1	491267.4	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
235	ALL	UCART1	491461.5	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05
236	ALL	UCART1	491655.6	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05
237	ALL	UCART1	491849.7	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-05
238	ALL	UCART1	492043.8	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
239	ALL	UCART1	492237.9	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
240	ALL	UCART1	492432	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04
241	ALL	UCART1	492626.1	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04
242	ALL	UCART1	492820.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04
243	ALL	UCART1	493014.3	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
244	ALL	UCART1	493208.4	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
245	ALL	UCART1	493402.5	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
246	ALL	UCART1	493596.6	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05
247	ALL	UCART1	493790.7	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
248	ALL	UCART1	493984.8	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05
249	ALL	UCART1	494178.9	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
250	ALL	UCART1	494373	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
251	ALL	UCART1	494567.1	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
252	ALL	UCART1	494761.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
253	ALL	UCART1	490879.2	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
254	ALL	UCART1	491073.3	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

[illegible]

312		UCART1	494178.9	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-06
313	ALL	UCART1	494373	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06
314	ALL	UCART1	494567.1	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06
315	ALL	UCART1	494761.2	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-06
316	ALL	UCART1	490879.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
317	ALL	UCART1	491073.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
318	ALL	UCART1	491267.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
319	ALL	UCART1	491461.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
320	ALL	UCART1	491655.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
321	ALL	UCART1	491849.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
322	ALL	UCART1	492043.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05
323	ALL	UCART1	492237.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05
324	ALL	UCART1	492432	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05
325	ALL	UCART1	492626.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05
326	ALL	UCART1	492820.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
327	ALL	UCART1	493014.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05
328	ALL	UCART1	493208.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
329	ALL	UCART1	493402.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
330	ALL	UCART1	493596.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05
331	ALL	UCART1	493790.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
332	ALL	UCART1	493984.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06
333	ALL	UCART1	494178.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-06
334	ALL	UCART1	494373	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-06
335	ALL	UCART1	494567.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-06
336	ALL	UCART1	494761.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-06
337	ALL	UCART1	490879.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
338	ALL	UCART1	491073.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
339	ALL	UCART1	491267.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
340	ALL	UCART1	491461.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
341	ALL	UCART1	491655.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
342	ALL	UCART1	491849.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
343	ALL	UCART1	492043.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
344	ALL	UCART1	492237.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
345	ALL	UCART1	492432	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
346	ALL	UCART1	492626.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
347	ALL	UCART1	492820.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05
348	ALL	UCART1	493014.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
349	ALL	UCART1	493208.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
350	ALL	UCART1	493402.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
351	ALL	UCART1	493596.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
352	ALL	UCART1	493790.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-06
353	ALL	UCART1	493984.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-06
354	ALL	UCART1	494178.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-06
355	ALL	UCART1	494373	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-06
356	ALL	UCART1	494567.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-06
357	ALL	UCART1	494761.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-06
358	ALL	UCART1	490879.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

364		UCART1	492043.8	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
365	ALL	UCART1	492237.9	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
366	ALL	UCART1	492432	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
367	ALL	UCART1	492626.1	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
368	ALL	UCART1	492820.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
369	ALL	UCART1	493014.3	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
370	ALL	UCART1	493208.4	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
371	ALL	UCART1	493402.5	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
372	ALL	UCART1	493596.6	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
373	ALL	UCART1	493790.7	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-06
374	ALL	UCART1	493984.8	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-06
375	ALL	UCART1	494178.9	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-06
376	ALL	UCART1	494373	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-06
377	ALL	UCART1	494567.1	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-06
378	ALL	UCART1	494761.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-06
379	ALL	UCART1	490879.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
380	ALL	UCART1	491073.3	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
381	ALL	UCART1	491267.4	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
382	ALL	UCART1	491461.5	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
383	ALL	UCART1	491655.6	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
384	ALL	UCART1	491849.7	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
385	ALL	UCART1	492043.8	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
386	ALL	UCART1	492237.9	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
387	ALL	UCART1	492432	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
388	ALL	UCART1	492626.1	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
389	ALL	UCART1	492820.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
390	ALL	UCART1	493014.3	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
391	ALL	UCART1	493208.4	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
392	ALL	UCART1	493402.5	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
393	ALL	UCART1	493596.6	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
394	ALL	UCART1	493790.7	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
395	ALL	UCART1	493984.8	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-06
396	ALL	UCART1	494178.9	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-06
397	ALL	UCART1	494373	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-06
398	ALL	UCART1	494567.1	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-06
399	ALL	UCART1	494761.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06
400	ALL	UCART1	490879.2	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
401	ALL	UCART1	491073.3	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
402	ALL	UCART1	491267.4	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
403	ALL	UCART1	491461.5	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
404	ALL	UCART1	491655.6	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
405	ALL	UCART1	491849.7	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
406	ALL	UCART1	492043.8	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
407	ALL	UCART1	492237.9	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
408	ALL	UCART1	492432	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
409	ALL	UCART1	492626.1	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
410	ALL	UCART1	492820.2	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

		493109	3625912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-05
469 ALL		493112.2	3625898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05
470 ALL		493134	3625902	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05
471 ALL		492874.3	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-05
472 ALL		492894.2	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05
473 ALL		492910.2	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05
474 ALL		492930.7	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05
475 ALL		492947.4	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05
476 ALL		492963.4	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-05
477 ALL		492982.7	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05
478 ALL		493000	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
479 ALL		493021.1	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
480 ALL		493036.5	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
481 ALL		493055.8	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
482 ALL		493076.3	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
483 ALL		493094.9	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
484 ALL		493112.8	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
485 ALL		493129.5	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05
486 ALL		493148.7	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05
487 ALL		493164.8	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05
488 ALL		493184.7	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-05
489 ALL		493202	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05
490 ALL		493221.2	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05
491 ALL		493238.5	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
492 ALL		492780	3626415	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04
493 ALL		492778.7	3626388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04
494 ALL		492747.9	3626386	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04
495 ALL		492742.2	3626418	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04
496 ALL		492699.2	3626423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04
497 ALL		492697.9	3626392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04
498 ALL		492678.7	3626412	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-04
499 ALL		492626.1	3626427	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04
500 ALL		492606.9	3626436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-04
501 ALL		492599.2	3626405	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04
502 ALL		492491.2	3626645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04
503 ALL		492517.4	3626637	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-04
504 ALL		492521.2	3626603	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
505 ALL		492521.7	3626582	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
506 ALL		492512.5	3626554	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
507 ALL		492513.6	3626533	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
508 ALL		492501	3626506	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
509 ALL		492490.7	3626486	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
510 ALL		492479.2	3626464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
511 ALL		492466.1	3626447	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
512 ALL		492447.6	3626419	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-04
513 ALL		492431.8	3626431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-04
514 ALL		492481.9	3626620	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-04
515 ALL		492482.5	3626594	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04
516 ALL		492479.2	3626573	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-04
517 ALL		492477	3626547	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-04
518 ALL		492467.8	3626523	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04
519 ALL		492463.9	3626508	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03

[illegible]

SDSU Evolve Phase 6 HRA 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
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
- 3. Construction Emissions Details
 - 3.1. Site Preparation (2032) - Unmitigated
 - 3.3. Grading (2032) - Unmitigated
 - 3.5. Building Construction (2032) - Unmitigated
 - 3.7. Building Construction (2033) - Unmitigated
 - 3.9. Paving (2033) - Unmitigated

3.11. Architectural Coating (2033) - Unmitigated

3.13. Architectural Coating (2034) - Unmitigated

3.15. Trenching (2032) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

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

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	SDSU Evolve Phase 6 HRA
Construction Start Date	7/16/2032
Operational Year	2034
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	1.80
Location	32.77754140411972, -117.07772216206095
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6514
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	760	Dwelling Unit	12.3	729,600	21,626	—	2,120	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.36	0.35	4.82	19.1	0.03	0.06	2.77	2.83	0.06	1.34	1.40	—	3,243	3,243	0.14	0.04	0.08	3,258
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	68.4	68.3	4.87	11.6	0.02	0.03	0.02	0.05	0.03	< 0.005	0.03	—	1,770	1,770	0.09	0.03	< 0.005	1,782
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.9	10.9	2.25	6.26	0.01	0.02	0.30	0.31	0.02	0.15	0.16	—	952	952	0.05	0.02	0.02	959
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.00	1.99	0.41	1.14	< 0.005	< 0.005	0.06	0.06	< 0.005	0.03	0.03	—	158	158	0.01	< 0.005	< 0.005	159

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.36	0.35	4.82	19.1	0.03	0.06	2.77	2.83	0.06	1.34	1.40	—	3,243	3,243	0.14	0.04	0.08	3,258

2033	0.21	0.19	3.44	9.54	0.01	0.02	0.02	0.04	0.02	< 0.005	0.03	—	1,441	1,441	0.07	0.03	0.06	1,452
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.25	0.23	4.87	11.6	0.02	0.03	0.02	0.05	0.03	< 0.005	0.03	—	1,770	1,770	0.09	0.03	< 0.005	1,782
2033	68.4	68.3	3.52	9.59	0.01	0.02	0.02	0.04	0.02	< 0.005	0.03	—	1,449	1,449	0.07	0.03	< 0.005	1,460
2034	68.2	68.2	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1,412	1,412	0.08	0.01	< 0.005	1,417
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.09	0.08	1.32	4.22	0.01	0.01	0.30	0.31	0.01	0.15	0.16	—	693	693	0.03	0.01	0.01	697
2033	10.9	10.9	2.25	6.26	0.01	0.02	0.01	0.03	0.02	< 0.005	0.02	—	952	952	0.05	0.02	0.02	959
2034	1.60	1.60	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	33.2	33.2	< 0.005	< 0.005	< 0.005	33.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.02	0.01	0.24	0.77	< 0.005	< 0.005	0.06	0.06	< 0.005	0.03	0.03	—	115	115	0.01	< 0.005	< 0.005	115
2033	2.00	1.99	0.41	1.14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	158	158	0.01	< 0.005	< 0.005	159
2034	0.29	0.29	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.49	5.49	< 0.005	< 0.005	< 0.005	5.51

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)

[illegible]

Unmit.	20.3	20.0	2.33	30.2	0.03	0.13	2.25	2.39	0.13	0.57	0.70	368	5,360	5,728	37.4	0.28	6.51	6,755
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.70	3.65	0.43	5.51	0.01	0.02	0.41	0.44	0.02	0.10	0.13	60.9	887	948	6.20	0.05	1.08	1,118

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.31	1.21	0.68	8.43	0.02	0.01	2.26	2.27	0.01	0.57	0.58	—	2,296	2,296	0.10	0.08	2.97	2,327
Area	20.8	20.6	0.40	43.3	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	115	115	< 0.005	< 0.005	—	116
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	22.3	21.9	2.57	53.4	0.04	0.15	2.26	2.40	0.14	0.57	0.71	368	5,665	6,033	37.5	0.28	8.20	7,061
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.30	1.20	0.75	7.96	0.02	0.01	2.26	2.27	0.01	0.57	0.58	—	2,194	2,194	0.10	0.09	0.08	2,223
Area	16.9	16.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223

3.1. Site Preparation (2032) - Unmitigated

[illegible]

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,959	1,959	0.08	0.02	—	1,965
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.7	53.7	< 0.005	< 0.005	—	53.8
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.88	8.88	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—

3.3. Grading (2032) - Unmitigated

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

[illegible]

SDSU Evolve Phase 6 HRA Detailed Report, 12/3/2024

[illegible]

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.56	6.56	< 0.005	< 0.005	< 0.005	6.88
Hauling	0.03	0.02	0.43	0.33	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	68.7	68.7	0.01	0.01	0.03	72.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.57
Hauling	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.68	5.68	< 0.005	< 0.005	< 0.005	5.99
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.94	0.94	< 0.005	< 0.005	< 0.005	0.99

3.5. Building Construction (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.15	2.67	8.95	0.01	0.02	—	0.02	0.02	—	0.02	—	1,270	1,270	0.05	0.01	—	1,274
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.15	2.67	8.95	0.01	0.02	—	0.02	0.02	—	0.02	—	1,270	1,270	0.05	0.01	—	1,274
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.59	1.98	< 0.005	0.01	—	0.01	0.01	—	0.01	—	281	281	0.01	< 0.005	—	282
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.5	46.5	< 0.005	< 0.005	—	46.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.06	0.04	0.79	0.58	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	135	135	0.02	0.02	0.07	141
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.05	0.03	0.83	0.61	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	136	136	0.02	0.02	< 0.005	143
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.18	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	29.9	29.9	< 0.005	< 0.005	0.01	31.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.95	4.95	< 0.005	< 0.005	< 0.005	5.19
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2033) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.15	2.67	8.95	0.01	0.02	—	0.02	0.02	—	0.02	—	1,270	1,270	0.05	0.01	—	1,274
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.15	2.67	8.95	0.01	0.02	—	0.02	0.02	—	0.02	—	1,270	1,270	0.05	0.01	—	1,274

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.09	0.09	1.68	5.62	0.01	0.01	—	0.01	0.01	—	0.01	—	798	798	0.03	0.01	—	801
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.02	0.31	1.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	132	132	0.01	< 0.005	—	133
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.06	0.04	0.77	0.58	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	132	132	0.02	0.02	0.06	138
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.05	0.03	0.81	0.61	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	134	134	0.02	0.02	< 0.005	140
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.04	0.02	0.50	0.37	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	83.3	83.3	0.01	0.01	0.02	87.3

Off-Road Equipment	< 0.005	< 0.005	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.10	6.10	< 0.005	< 0.005	—	6.12
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.52	6.52	< 0.005	< 0.005	< 0.005	6.83
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2033) - Unmitigated

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

[illegible]

[illegible]

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.52	6.52	< 0.005	< 0.005	< 0.005	6.83
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.03	1.03	< 0.005	< 0.005	< 0.005	1.07
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.18
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2034) - Unmitigated

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

[illegible]

SDSU Evolve Phase 6 HRA Detailed Report, 12/3/2024

[illegible]

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.40	6.40	< 0.005	< 0.005	< 0.005	6.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.03
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching (2032) - Unmitigated

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

[illegible]

SDSU Evolve Phase 6 HRA Detailed Report, 12/3/2024

[illegible]

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.83
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.14
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.31	1.21	0.68	8.43	0.02	0.01	2.26	2.27	0.01	0.57	0.58	—	2,296	2,296	0.10	0.08	2.97	2,327
Total	1.31	1.21	0.68	8.43	0.02	0.01	2.26	2.27	0.01	0.57	0.58	—	2,296	2,296	0.10	0.08	2.97	2,327
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.30	1.20	0.75	7.96	0.02	0.01	2.26	2.27	0.01	0.57	0.58	—	2,194	2,194	0.10	0.09	0.08	2,223
Total	1.30	1.20	0.75	7.96	0.02	0.01	2.26	2.27	0.01	0.57	0.58	—	2,194	2,194	0.10	0.09	0.08	2,223

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.23	0.22	0.14	1.45	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	366	366	0.02	0.01	0.21	371
Total	0.23	0.22	0.14	1.45	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	366	366	0.02	0.01	0.21	371

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.04	< 0.005	—	201
Total	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.04	< 0.005	—	201

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Total	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Total	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286
Total	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

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

SDSU Evolve Phase 6 HRA Detailed Report, 12/3/2024

[illegible]

Architect ural	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipm ent	0.35	0.34	0.04	3.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.45
Total	3.43	3.41	0.04	3.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5

Total	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Total	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergen cy Generat or	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergen cy Generat or	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

[illegible]

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)

[illegible]

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)

[illegible]

[illegible]

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	7/16/2032	7/29/2032	5.00	10.0	—
Grading	Grading	7/30/2032	9/9/2032	5.00	30.0	—
Building Construction	Building Construction	9/10/2032	11/17/2033	5.00	310	—
Paving	Paving	11/18/2033	12/15/2033	5.00	20.0	—
Architectural Coating	Architectural Coating	10/12/2033	1/12/2034	5.00	67.0	—
Trenching	Trenching	9/10/2032	11/10/2032	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	4.00	8.00	36.0	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	7.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37

Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Building Construction	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	0.25	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	0.25	HHDT,MHDT
Grading	Hauling	30.0	0.25	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	82.0	0.25	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

Paving	—	—	—	—
Paving	Worker	0.00	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	0.25	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	0.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	0.25	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	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	1,477,440	492,480	0.00	0.00	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	5.00	0.00	—
Grading	1,500	5,491	120	0.00	—
Paving	0.00	0.00	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2032	20,458	589	0.03	< 0.005
2033	20,458	589	0.03	< 0.005
2034	20,458	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
Apartments High Rise	420	420	420	153,455	3,195	3,195	3,195	1,166,260

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	760
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1477440	492,480	0.00	0.00	—

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments High Rise	2,577,061	170	0.0330	0.0040	5,379,612

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	33,953,291	740,799

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	562	—

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
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	52.0	530	0.73

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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	9.08	annual days of extreme heat
Extreme Precipitation	2.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	4.89	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

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

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	46.0
AQ-DPM	78.3
Drinking Water	29.0
Lead Risk Housing	22.5
Pesticides	0.00
Toxic Releases	36.0
Traffic	83.2
Effect Indicators	—
CleanUp Sites	53.4
Groundwater	68.4
Haz Waste Facilities/Generators	37.7
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	38.4
Cardio-vascular	12.7
Low Birth Weights	9.08
Socioeconomic Factor Indicators	—
Education	—
Housing	96.5
Linguistic	—

Poverty	91.8
Unemployment	92.2

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	20.95470294
Employed	9.534197357
Median HI	17.43872706
Education	—
Bachelor's or higher	81.12408572
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	11.04837675
Active commuting	89.42640832
Social	—
2-parent households	99.56371102
Voting	22.66136276
Neighborhood	—
Alcohol availability	85.46131143
Park access	20.23610933
Retail density	97.62607468
Supermarket access	2.399589375
Tree canopy	71.71820865
Housing	—
Homeownership	27.87116643

Housing habitability	26.51097138
Low-inc homeowner severe housing cost burden	97.99820352
Low-inc renter severe housing cost burden	0.346464776
Uncrowded housing	50.16040036
Health Outcomes	—
Insured adults	68.95932247
Arthritis	97.1
Asthma ER Admissions	70.5
High Blood Pressure	98.1
Cancer (excluding skin)	89.7
Asthma	21.6
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	97.2
Life Expectancy at Birth	60.4
Cognitively Disabled	72.6
Physically Disabled	83.0
Heart Attack ER Admissions	96.5
Mental Health Not Good	34.8
Chronic Kidney Disease	95.6
Obesity	88.9
Pedestrian Injuries	19.6
Physical Health Not Good	81.0
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.6
Current Smoker	47.6
No Leisure Time for Physical Activity	69.0

Climate Change Exposures	—
Wildfire Risk	47.1
SLR Inundation Area	0.0
Children	96.5
Elderly	59.3
English Speaking	55.7
Foreign-born	45.8
Outdoor Workers	77.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	96.7
Traffic Access	61.3
Other Indices	—
Hardship	53.0
Other Decision Support	—
2016 Voting	37.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	47.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Characteristics: Utility Information	Phase 1 is within the on-campus grid getting electricity from the cogen.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	Based on LLG traffic study.
Operations: Hearths	No stoves or fireplaces.
Operations: Generators + Pumps EF	Tier 4 Final
Operations: Water and Waste Water	Based on applicant provided information.
Construction: Dust From Material Movement	Based on applicant provided information.
Operations: Emergency Generators and Fire Pumps	Based on applicant provided information
Construction: Electricity	Estimated electricity use.


```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 10/10/2024
** File: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU Evolve
Phase 6\SDSU Evolve Phase 1.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL "SDSU Evolve Phase 1.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC
** PREFIX
** Length of Side = 8.60
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 15
** 492753.244, 3626600.434, 124.81, 3.40, 4.00
** 492708.720, 3626571.031, 123.50, 3.40, 4.00
** 492743.163, 3626512.227, 123.32, 3.40, 4.00

```

** 492780.966, 3626536.589, 125.19, 3.40, 4.00
 ** 492764.164, 3626566.831, 125.00, 3.40, 4.00
 ** 492758.284, 3626591.193, 124.87, 3.40, 4.00
 ** 492724.681, 3626567.671, 124.33, 3.40, 4.00
 ** 492744.843, 3626527.348, 123.29, 3.40, 4.00
 ** 492767.525, 3626539.949, 125.21, 3.40, 4.00
 ** 492756.604, 3626566.831, 125.11, 3.40, 4.00
 ** 492754.084, 3626577.752, 125.19, 3.40, 4.00
 ** 492737.282, 3626564.311, 125.02, 3.40, 4.00
 ** 492746.523, 3626541.629, 125.02, 3.40, 4.00
 ** 492757.444, 3626544.990, 125.22, 3.40, 4.00
 ** 492749.043, 3626560.951, 125.06, 3.40, 4.00

** -----

LOCATION L0000001	VOLUME	492749.655	3626598.064	124.89
LOCATION L0000002	VOLUME	492742.479	3626593.325	124.84
LOCATION L0000003	VOLUME	492735.303	3626588.586	124.85
LOCATION L0000004	VOLUME	492728.126	3626583.847	124.89
LOCATION L0000005	VOLUME	492720.950	3626579.107	124.73
LOCATION L0000006	VOLUME	492713.773	3626574.368	124.30
LOCATION L0000007	VOLUME	492710.006	3626568.836	123.79
LOCATION L0000008	VOLUME	492714.353	3626561.415	123.77
LOCATION L0000009	VOLUME	492718.699	3626553.994	123.91
LOCATION L0000010	VOLUME	492723.046	3626546.573	124.23
LOCATION L0000011	VOLUME	492727.392	3626539.153	124.54
LOCATION L0000012	VOLUME	492731.739	3626531.732	124.97
LOCATION L0000013	VOLUME	492736.085	3626524.311	125.01
LOCATION L0000014	VOLUME	492740.432	3626516.890	125.08
LOCATION L0000015	VOLUME	492745.849	3626513.958	124.92
LOCATION L0000016	VOLUME	492753.078	3626518.617	125.32
LOCATION L0000017	VOLUME	492760.307	3626523.276	125.32
LOCATION L0000018	VOLUME	492767.536	3626527.934	125.29
LOCATION L0000019	VOLUME	492774.765	3626532.593	125.25
LOCATION L0000020	VOLUME	492780.372	3626537.658	125.22
LOCATION L0000021	VOLUME	492776.195	3626545.176	125.20
LOCATION L0000022	VOLUME	492772.019	3626552.694	125.09
LOCATION L0000023	VOLUME	492767.842	3626560.211	125.02
LOCATION L0000024	VOLUME	492763.923	3626567.830	125.01
LOCATION L0000025	VOLUME	492761.905	3626576.190	124.99
LOCATION L0000026	VOLUME	492759.888	3626584.550	124.97
LOCATION L0000027	VOLUME	492756.837	3626590.180	125.01
LOCATION L0000028	VOLUME	492749.792	3626585.248	125.07
LOCATION L0000029	VOLUME	492742.746	3626580.317	125.11
LOCATION L0000030	VOLUME	492735.701	3626575.385	125.14
LOCATION L0000031	VOLUME	492728.656	3626570.453	125.07
LOCATION L0000032	VOLUME	492726.358	3626564.318	124.86
LOCATION L0000033	VOLUME	492730.204	3626556.626	125.06
LOCATION L0000034	VOLUME	492734.050	3626548.934	125.06
LOCATION L0000035	VOLUME	492737.896	3626541.242	125.07
LOCATION L0000036	VOLUME	492741.742	3626533.550	125.11
LOCATION L0000037	VOLUME	492746.300	3626528.157	125.18

LOCATION	L0000038	VOLUME	492753.817	3626532.334	125.27
LOCATION	L0000039	VOLUME	492761.335	3626536.511	125.26
LOCATION	L0000040	VOLUME	492766.953	3626541.357	125.23
LOCATION	L0000041	VOLUME	492763.716	3626549.325	125.18
LOCATION	L0000042	VOLUME	492760.479	3626557.292	125.15
LOCATION	L0000043	VOLUME	492757.242	3626565.260	125.16
LOCATION	L0000044	VOLUME	492755.051	3626573.558	125.20
LOCATION	L0000045	VOLUME	492750.729	3626575.068	125.18
LOCATION	L0000046	VOLUME	492744.013	3626569.696	125.16
LOCATION	L0000047	VOLUME	492737.298	3626564.323	125.12
LOCATION	L0000048	VOLUME	492740.520	3626556.365	125.12
LOCATION	L0000049	VOLUME	492743.764	3626548.401	125.13
LOCATION	L0000050	VOLUME	492747.754	3626542.008	125.17
LOCATION	L0000051	VOLUME	492755.974	3626544.537	125.23
LOCATION	L0000052	VOLUME	492754.155	3626551.239	125.21
LOCATION	L0000053	VOLUME	492750.149	3626558.849	125.18
** End of LINE VOLUME Source ID = SLINE1					
LOCATION	STCK1	POINT	492847.720	3626536.360	124.220
** DESCRSRC Phase 1A Generator					
LOCATION	STCK2	POINT	492991.100	3625839.681	141.860
** DESCRSRC Phase 1B Generator					
LOCATION	STCK3	POINT	492813.583	3626627.676	123.610
** DESCRSRC Phase 2 Generator					
LOCATION	STCK4	POINT	492774.272	3626745.821	115.890
** DESCRSRC Phase 3 Generator					
LOCATION	STCK5	POINT	492694.167	3626698.759	121.120
** DESCRSRC Phase 4 Generator					
LOCATION	STCK6	POINT	492729.911	3626620.159	124.070
** DESCRSRC Phase 5 Generator					
** Source Parameters **					
** LINE VOLUME Source ID = SLINE1					
SRCPARAM	L0000001	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000002	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000003	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000004	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000005	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000006	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000007	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000008	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000009	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000010	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000011	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000012	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000013	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000014	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000015	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000016	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000017	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000018	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000019	0.0188679245	3.40	4.00	3.16

SRCPARAM	L0000020	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000021	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000022	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000023	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000024	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000025	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000026	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000027	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000028	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000029	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000030	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000031	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000032	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000033	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000034	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000035	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000036	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000037	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000038	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000039	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000040	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000041	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000042	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000043	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000044	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000045	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000046	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000047	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000048	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000049	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000050	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000051	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000052	0.0188679245	3.40	4.00	3.16
SRCPARAM	L0000053	0.0188679245	3.40	4.00	3.16

** -----

SRCPARAM	STCK1	1.0	2.499	772.594	60.63624912892	0.13463016
SRCPARAM	STCK2	1.0	2.499	772.594	60.63624912892	0.13463016
SRCPARAM	STCK3	1.0	2.316	699.261	42.5980161814675	0.2033016
SRCPARAM	STCK4	1.0	2.316	699.261	42.5980161814675	0.2033016
SRCPARAM	STCK5	1.0	2.316	699.261	42.5980161814675	0.2033016
SRCPARAM	STCK6	1.0	2.316	699.261	42.5980161814675	0.2033016

** Building Downwash **

BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	34.14
BUILDHGT	STCK1	34.14	34.14	34.14	34.14	34.14	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	34.14
BUILDHGT	STCK1	34.14	34.14	28.65	34.14	34.14	28.65

BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK2	28.04	28.04	28.04	28.04	28.04	28.04
BUILDHGT	STCK3	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK3	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK3	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK3	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK3	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK3	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK4	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK5	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK5	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK5	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK5	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK5	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK5	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK6	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK6	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK6	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK6	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK6	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK6	34.14	34.14	34.14	34.14	34.14	34.14
BUILDWID	STCK1	55.84	65.58	73.32	78.84	81.95	83.80
BUILDWID	STCK1	84.85	84.05	83.01	79.44	73.46	87.94
BUILDWID	STCK1	93.76	44.13	111.97	116.08	136.19	44.41
BUILDWID	STCK1	55.84	65.58	73.32	78.84	81.95	83.80
BUILDWID	STCK1	84.85	84.05	83.01	79.44	73.46	87.94
BUILDWID	STCK1	93.76	104.45	30.92	116.08	136.19	44.41
BUILDWID	STCK2	57.08	60.17	61.43	60.83	58.38	54.16
BUILDWID	STCK2	48.29	40.95	32.88	41.34	48.91	54.99
BUILDWID	STCK2	59.40	62.01	62.73	61.55	58.50	53.67
BUILDWID	STCK2	57.08	60.17	61.43	60.83	58.38	54.16
BUILDWID	STCK2	48.29	40.95	32.88	41.34	48.91	54.99
BUILDWID	STCK2	59.40	62.01	62.73	61.55	58.50	53.67
BUILDWID	STCK3	185.05	201.38	211.59	215.38	213.78	83.88

BUILDWID	STCK3	77.70	69.16	58.52	46.10	105.17	87.94
BUILDWID	STCK3	93.76	104.45	111.97	116.08	136.19	163.10
BUILDWID	STCK3	185.05	201.38	211.59	215.38	213.78	83.88
BUILDWID	STCK3	77.70	69.16	58.52	46.10	105.17	87.94
BUILDWID	STCK3	93.76	104.45	111.97	116.08	136.19	163.10
BUILDWID	STCK4	82.05	84.82	86.76	88.48	87.51	209.28
BUILDWID	STCK4	199.37	183.40	161.86	135.40	127.90	126.08
BUILDWID	STCK4	124.91	130.59	111.97	116.08	136.19	163.10
BUILDWID	STCK4	185.05	201.38	211.59	215.38	213.78	209.28
BUILDWID	STCK4	199.37	183.40	161.86	135.40	127.90	126.08
BUILDWID	STCK4	124.91	130.59	111.97	116.08	136.19	78.85
BUILDWID	STCK5	82.05	84.82	86.76	88.48	213.78	209.28
BUILDWID	STCK5	199.37	183.40	161.86	135.40	105.17	87.94
BUILDWID	STCK5	93.76	44.13	55.63	65.43	73.26	78.85
BUILDWID	STCK5	82.05	84.82	86.76	88.48	213.78	209.28
BUILDWID	STCK5	199.37	183.40	161.86	135.40	105.17	87.94
BUILDWID	STCK5	93.76	44.13	55.63	65.43	73.26	78.85
BUILDWID	STCK6	82.05	84.82	86.76	88.48	87.51	83.88
BUILDWID	STCK6	77.70	69.16	58.52	46.10	105.17	87.94
BUILDWID	STCK6	93.76	44.13	55.63	65.43	73.26	78.85
BUILDWID	STCK6	82.05	84.82	86.76	88.48	87.51	83.88
BUILDWID	STCK6	77.70	69.16	58.52	46.10	105.17	87.94
BUILDWID	STCK6	93.76	44.13	55.63	65.43	73.26	78.85
BUILDLN	STCK1	79.44	73.46	65.25	55.05	43.18	30.92
BUILDLN	STCK1	25.51	32.34	44.41	55.84	65.58	211.59
BUILDLN	STCK1	215.38	87.51	209.28	199.37	183.40	83.01
BUILDLN	STCK1	79.44	73.46	65.25	55.05	43.18	30.92
BUILDLN	STCK1	25.51	32.34	44.41	55.84	65.58	211.59
BUILDLN	STCK1	215.38	213.78	83.80	199.37	183.40	83.01
BUILDLN	STCK2	41.34	48.91	54.99	59.40	62.01	62.73
BUILDLN	STCK2	61.55	58.50	53.67	57.08	60.17	61.43
BUILDLN	STCK2	60.83	58.38	54.16	48.29	40.95	32.88
BUILDLN	STCK2	41.34	48.91	54.99	59.40	62.01	62.73
BUILDLN	STCK2	61.55	58.50	53.67	57.08	60.17	61.43
BUILDLN	STCK2	60.83	58.38	54.16	48.29	40.95	32.88
BUILDLN	STCK3	135.40	105.17	87.94	93.76	104.45	55.63
BUILDLN	STCK3	65.43	73.26	78.85	82.05	201.38	211.59
BUILDLN	STCK3	215.38	213.78	209.28	199.37	183.40	161.86
BUILDLN	STCK3	135.40	105.17	87.94	93.76	104.45	55.63
BUILDLN	STCK3	65.43	73.26	78.85	82.05	201.38	211.59
BUILDLN	STCK3	215.38	213.78	209.28	199.37	183.40	161.86
BUILDLN	STCK4	46.10	33.60	25.52	31.29	44.13	111.97
BUILDLN	STCK4	116.08	136.19	163.10	185.05	149.20	165.65

BUILDLN	STCK4	177.07	183.10	209.28	199.37	183.40	161.86
BUILDLN	STCK4	135.40	105.17	87.94	93.76	104.45	111.97
BUILDLN	STCK4	116.08	136.19	163.10	185.05	149.20	165.65
BUILDLN	STCK4	177.07	183.10	209.28	199.37	183.40	58.52
BUILDLN	STCK5	46.10	33.60	25.52	31.29	104.45	111.97
BUILDLN	STCK5	116.08	136.19	163.10	185.05	201.38	211.59
BUILDLN	STCK5	215.38	87.51	83.88	77.70	69.16	58.52
BUILDLN	STCK5	46.10	33.60	25.52	31.29	104.45	111.97
BUILDLN	STCK5	116.08	136.19	163.10	185.05	201.38	211.59
BUILDLN	STCK5	215.38	87.51	83.88	77.70	69.16	58.52
BUILDLN	STCK6	46.10	33.60	25.52	31.29	44.13	55.63
BUILDLN	STCK6	65.43	73.26	78.85	82.05	201.38	211.59
BUILDLN	STCK6	215.38	87.51	83.88	77.70	69.16	58.52
BUILDLN	STCK6	46.10	33.60	25.52	31.29	44.13	55.63
BUILDLN	STCK6	65.43	73.26	78.85	82.05	201.38	211.59
BUILDLN	STCK6	215.38	87.51	83.88	77.70	69.16	58.52
XBADJ	STCK1	-34.99	-35.86	-35.65	-34.34	-32.00	-28.68
XBADJ	STCK1	-25.10	-33.78	-41.42	-47.81	-52.74	-267.50
XBADJ	STCK1	-278.34	-205.17	-278.62	-266.88	-247.04	-49.95
XBADJ	STCK1	-44.45	-37.60	-29.60	-20.71	-11.19	-2.24
XBADJ	STCK1	-0.41	1.44	-2.99	-8.04	-12.84	55.90
XBADJ	STCK1	62.96	68.10	-26.89	67.51	63.64	-33.06
XBADJ	STCK2	-21.67	-20.33	-18.37	-15.85	-12.86	-9.47
XBADJ	STCK2	-5.79	-1.94	1.97	0.66	-1.07	-2.77
XBADJ	STCK2	-4.39	-5.87	-7.17	-8.26	-9.09	-10.16
XBADJ	STCK2	-19.67	-28.58	-36.62	-43.55	-49.15	-53.27
XBADJ	STCK2	-55.76	-56.56	-55.64	-57.74	-59.10	-58.66
XBADJ	STCK2	-56.45	-52.51	-46.99	-40.03	-31.86	-22.72
XBADJ	STCK3	-33.74	-33.31	-47.92	-61.82	-81.56	-98.82
XBADJ	STCK3	-113.07	-123.89	-130.95	-134.03	-185.22	-192.27
XBADJ	STCK3	-193.48	-189.99	-182.46	-169.39	-151.18	-128.37
XBADJ	STCK3	-101.66	-71.86	-40.02	-31.94	-22.89	43.19
XBADJ	STCK3	47.64	50.64	52.10	51.98	-16.17	-19.32
XBADJ	STCK3	-21.89	-23.80	-26.82	-29.98	-32.22	-33.49
XBADJ	STCK4	-132.65	-130.88	-130.58	-127.05	-127.38	-123.84
XBADJ	STCK4	-116.54	-113.79	-115.30	-113.31	-55.69	-53.21
XBADJ	STCK4	-49.12	-43.54	-60.49	-44.93	-28.01	-10.23
XBADJ	STCK4	7.86	25.71	42.64	33.29	22.93	11.88
XBADJ	STCK4	0.46	-22.40	-47.80	-71.75	-93.51	-112.44
XBADJ	STCK4	-127.94	-139.56	-148.79	-154.44	-155.39	-131.71
XBADJ	STCK5	-72.40	-59.26	-49.77	-39.52	-35.77	-30.94
XBADJ	STCK5	-25.17	-26.73	-35.20	-42.60	-48.70	-53.32
XBADJ	STCK5	-56.32	17.93	21.01	23.45	25.17	26.13

XBADJ	STCK5	26.30	25.66	24.25	8.23	-68.68	-81.02
XBADJ	STCK5	-90.91	-109.46	-127.90	-142.46	-152.69	-158.27
XBADJ	STCK5	-159.05	-105.44	-104.89	-101.15	-94.33	-84.65
XBADJ	STCK6	-1.20	2.37	0.43	-2.28	-12.63	-22.60
XBADJ	STCK6	-31.88	-40.19	-47.28	-52.93	-109.16	-123.57
XBADJ	STCK6	-134.22	-65.25	-64.93	-62.64	-58.44	-52.47
XBADJ	STCK6	-44.90	-35.97	-25.95	-29.01	-31.50	-33.03
XBADJ	STCK6	-33.56	-33.07	-31.57	-29.11	-92.22	-88.02
XBADJ	STCK6	-81.15	-22.26	-18.95	-15.06	-10.72	-6.05
YBADJ	STCK1	19.89	19.95	19.41	18.28	16.60	15.01
YBADJ	STCK1	13.85	11.91	8.45	4.73	0.87	58.06
YBADJ	STCK1	33.07	-26.95	-26.74	-55.88	-81.66	-19.22
YBADJ	STCK1	-19.89	-19.95	-19.41	-18.28	-16.60	-15.01
YBADJ	STCK1	-13.85	-11.91	-8.45	-4.73	-0.87	-58.06
YBADJ	STCK1	-33.07	-3.21	13.22	55.88	81.66	19.22
YBADJ	STCK2	-29.20	-29.01	-27.94	-26.03	-23.32	-19.91
YBADJ	STCK2	-15.89	-11.38	-6.28	-1.00	4.12	9.12
YBADJ	STCK2	13.85	18.15	21.90	24.98	27.31	28.81
YBADJ	STCK2	29.20	29.01	27.94	26.03	23.32	19.91
YBADJ	STCK2	15.89	11.38	6.28	1.00	-4.12	-9.12
YBADJ	STCK2	-13.85	-18.15	-21.90	-24.98	-27.31	-28.81
YBADJ	STCK3	80.01	84.53	86.47	85.80	83.09	58.31
YBADJ	STCK3	45.34	30.98	15.69	-0.08	19.28	-3.95
YBADJ	STCK3	-14.94	-29.33	-42.83	-55.03	-63.89	-73.06
YBADJ	STCK3	-80.01	-84.53	-86.47	-85.80	-83.09	-58.31
YBADJ	STCK3	-45.34	-30.98	-15.69	0.08	-19.28	3.95
YBADJ	STCK3	14.94	29.33	42.83	55.03	63.89	73.06
YBADJ	STCK4	33.78	13.28	-7.80	-27.44	-46.25	-44.15
YBADJ	STCK4	-54.75	-63.69	-70.70	-75.56	-66.93	-67.54
YBADJ	STCK4	-64.60	-62.09	-67.86	-58.50	-45.69	-33.75
YBADJ	STCK4	-20.78	-7.18	6.64	20.26	32.67	44.15
YBADJ	STCK4	54.75	63.69	70.70	75.56	66.93	67.54
YBADJ	STCK4	64.60	62.09	67.86	58.50	45.69	52.21
YBADJ	STCK5	-36.94	-45.89	-53.64	-58.55	-48.11	-43.44
YBADJ	STCK5	-37.93	-31.26	-23.64	-15.30	-6.68	-5.80
YBADJ	STCK5	7.36	-13.71	-3.13	7.54	17.99	27.89
YBADJ	STCK5	36.94	45.89	53.64	58.55	48.11	43.44
YBADJ	STCK5	37.93	31.26	23.64	15.30	6.68	5.80
YBADJ	STCK5	-7.36	13.71	3.13	-7.54	-17.99	-27.89
YBADJ	STCK6	11.91	14.57	16.61	19.35	21.50	22.99
YBADJ	STCK6	23.79	23.86	23.21	21.85	54.96	44.40
YBADJ	STCK6	44.60	9.44	5.22	0.84	-3.56	-7.85
YBADJ	STCK6	-11.91	-14.57	-16.61	-19.35	-21.50	-22.99

YBADJ	STCK6	-23.79	-23.86	-23.21	-21.85	-54.96	-44.40
YBADJ	STCK6	-44.60	-9.44	-5.22	-0.84	3.56	7.86

SRCGROUP SLINE1 L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
SRCGROUP SLINE1 L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
SRCGROUP SLINE1 L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
SRCGROUP SLINE1 L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
SRCGROUP SLINE1 L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
SRCGROUP SLINE1 L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
SRCGROUP SLINE1 L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
SRCGROUP SLINE1 L0000043 L0000044 L0000045 L0000046 L0000047 L0000048
SRCGROUP SLINE1 L0000049 L0000050 L0000051 L0000052 L0000053
SRCGROUP STCK1 STCK1
SRCGROUP STCK2 STCK2
SRCGROUP STCK3 STCK3
SRCGROUP STCK4 STCK4
SRCGROUP STCK5 STCK5
SRCGROUP STCK6 STCK6
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "SDSU Evolve Phase 1.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE ..\KVR_2020_2022_v23132.SFC

PROFFILE ..\KVR_2020_2022_v23132.PFL

SURFDATA 93107 2020

UAIRDATA 3190 2020

SITEDATA 1016 2020

PROFBASE 132.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

```

RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST "SDSU Evolve Phase 1.AD\01H1GALL.PLT" 31
PLOTFILE 1 SLINE1 1ST "SDSU Evolve Phase 1.AD\01H1G001.PLT" 32
PLOTFILE 1 STCK1 1ST "SDSU Evolve Phase 1.AD\01H1G002.PLT" 33
PLOTFILE 1 STCK2 1ST "SDSU Evolve Phase 1.AD\01H1G003.PLT" 34
PLOTFILE 1 STCK3 1ST "SDSU Evolve Phase 1.AD\01H1G004.PLT" 35
PLOTFILE 1 STCK4 1ST "SDSU Evolve Phase 1.AD\01H1G005.PLT" 36
PLOTFILE 1 STCK5 1ST "SDSU Evolve Phase 1.AD\01H1G006.PLT" 37
PLOTFILE 1 STCK6 1ST "SDSU Evolve Phase 1.AD\01H1G007.PLT" 38
PLOTFILE PERIOD ALL "SDSU Evolve Phase 1.AD\PE00GALL.PLT" 39
PLOTFILE PERIOD SLINE1 "SDSU Evolve Phase 1.AD\PE00G001.PLT" 40
PLOTFILE PERIOD STCK1 "SDSU Evolve Phase 1.AD\PE00G002.PLT" 41
PLOTFILE PERIOD STCK2 "SDSU Evolve Phase 1.AD\PE00G003.PLT" 42
PLOTFILE PERIOD STCK3 "SDSU Evolve Phase 1.AD\PE00G004.PLT" 43
PLOTFILE PERIOD STCK4 "SDSU Evolve Phase 1.AD\PE00G005.PLT" 44
PLOTFILE PERIOD STCK5 "SDSU Evolve Phase 1.AD\PE00G006.PLT" 45
PLOTFILE PERIOD STCK6 "SDSU Evolve Phase 1.AD\PE00G007.PLT" 46
SUMMFILE "SDSU Evolve Phase 1.sum"
OU FINISHED

```

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

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

```

A Total of          0 Fatal Error Message(s)
A Total of          3 Warning Message(s)
A Total of          0 Informational Message(s)

```

```

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

```

```

***** WARNING MESSAGES *****
SO W320      184      PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
SO W320      185      PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
MX W403      441      PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

```

```

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

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

```

*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 1

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses RURAL Dispersion Only.
- * CCVR_Sub - Meteorological data includes CCVR substitutions
- * TEMP_Sub - Meteorological data includes TEMP substitutions
- * Model Assumes No FLAGPOLE Receptor Heights.
- * The User Specified a Pollutant Type of: PM₁₀

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

**This Run Includes: 59 Source(s); 8 Source Group(s); and 534
Receptor(s)

with: 6 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 53 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

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

**The AERMET Input Meteorological Data Version Date: 23132

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

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 132.00 ; Decay
 Coef. = 0.000 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ;
 Emission Rate Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.8 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: SDSU Evolve Phase 1.err

**File for Summary of Results: SDSU Evolve Phase 1.sum

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 2

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** POINT SOURCE DATA ***

STACK	STACK	BLDG	URBAN	CAP/	EMIS	RATE	BASE	STACK	STACK	
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	TEMP.	EXIT		
VEL.	DIAMETER	EXISTS	SOURCE	HOR	SCALAR	(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)
ID	CATS.				(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)	
(M/SEC)	(METERS)				VARY BY					

STCK1	0	0.10000E+01	492847.7	3626536.4	124.2	2.50	772.59
60.64	0.13	YES NO NO					
STCK2	0	0.10000E+01	492991.1	3625839.7	141.9	2.50	772.59
60.64	0.13	YES NO NO					
STCK3	0	0.10000E+01	492813.6	3626627.7	123.6	2.32	699.26
42.60	0.20	YES NO NO					
STCK4	0	0.10000E+01	492774.3	3626745.8	115.9	2.32	699.26
42.60	0.20	YES NO NO					
STCK5	0	0.10000E+01	492694.2	3626698.8	121.1	2.32	699.26
42.60	0.20	YES NO NO					
STCK6	0	0.10000E+01	492729.9	3626620.2	124.1	2.32	699.26
42.60	0.20	YES NO NO					

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 3

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** VOLUME SOURCE DATA ***

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

L0000001	0	0.18868E-01	492749.7	3626598.1	124.9	3.40	4.00
3.16 NO		NO					
L0000002	0	0.18868E-01	492742.5	3626593.3	124.8	3.40	4.00
3.16 NO		NO					
L0000003	0	0.18868E-01	492735.3	3626588.6	124.8	3.40	4.00
3.16 NO		NO					
L0000004	0	0.18868E-01	492728.1	3626583.8	124.9	3.40	4.00
3.16 NO		NO					
L0000005	0	0.18868E-01	492721.0	3626579.1	124.7	3.40	4.00
3.16 NO		NO					
L0000006	0	0.18868E-01	492713.8	3626574.4	124.3	3.40	4.00
3.16 NO		NO					
L0000007	0	0.18868E-01	492710.0	3626568.8	123.8	3.40	4.00
3.16 NO		NO					
L0000008	0	0.18868E-01	492714.4	3626561.4	123.8	3.40	4.00
3.16 NO		NO					
L0000009	0	0.18868E-01	492718.7	3626554.0	123.9	3.40	4.00

3.16	NO		NO				
L0000010	0	0.18868E-01	492723.0	3626546.6	124.2	3.40	4.00
3.16	NO		NO				
L0000011	0	0.18868E-01	492727.4	3626539.2	124.5	3.40	4.00
3.16	NO		NO				
L0000012	0	0.18868E-01	492731.7	3626531.7	125.0	3.40	4.00
3.16	NO		NO				
L0000013	0	0.18868E-01	492736.1	3626524.3	125.0	3.40	4.00
3.16	NO		NO				
L0000014	0	0.18868E-01	492740.4	3626516.9	125.1	3.40	4.00
3.16	NO		NO				
L0000015	0	0.18868E-01	492745.8	3626514.0	124.9	3.40	4.00
3.16	NO		NO				
L0000016	0	0.18868E-01	492753.1	3626518.6	125.3	3.40	4.00
3.16	NO		NO				
L0000017	0	0.18868E-01	492760.3	3626523.3	125.3	3.40	4.00
3.16	NO		NO				
L0000018	0	0.18868E-01	492767.5	3626527.9	125.3	3.40	4.00
3.16	NO		NO				
L0000019	0	0.18868E-01	492774.8	3626532.6	125.2	3.40	4.00
3.16	NO		NO				
L0000020	0	0.18868E-01	492780.4	3626537.7	125.2	3.40	4.00
3.16	NO		NO				
L0000021	0	0.18868E-01	492776.2	3626545.2	125.2	3.40	4.00
3.16	NO		NO				
L0000022	0	0.18868E-01	492772.0	3626552.7	125.1	3.40	4.00
3.16	NO		NO				
L0000023	0	0.18868E-01	492767.8	3626560.2	125.0	3.40	4.00
3.16	NO		NO				
L0000024	0	0.18868E-01	492763.9	3626567.8	125.0	3.40	4.00
3.16	NO		NO				
L0000025	0	0.18868E-01	492761.9	3626576.2	125.0	3.40	4.00
3.16	NO		NO				
L0000026	0	0.18868E-01	492759.9	3626584.5	125.0	3.40	4.00
3.16	NO		NO				
L0000027	0	0.18868E-01	492756.8	3626590.2	125.0	3.40	4.00
3.16	NO		NO				
L0000028	0	0.18868E-01	492749.8	3626585.2	125.1	3.40	4.00
3.16	NO		NO				
L0000029	0	0.18868E-01	492742.7	3626580.3	125.1	3.40	4.00
3.16	NO		NO				
L0000030	0	0.18868E-01	492735.7	3626575.4	125.1	3.40	4.00
3.16	NO		NO				
L0000031	0	0.18868E-01	492728.7	3626570.5	125.1	3.40	4.00
3.16	NO		NO				
L0000032	0	0.18868E-01	492726.4	3626564.3	124.9	3.40	4.00
3.16	NO		NO				
L0000033	0	0.18868E-01	492730.2	3626556.6	125.1	3.40	4.00
3.16	NO		NO				
L0000034	0	0.18868E-01	492734.0	3626548.9	125.1	3.40	4.00

3.16	NO		NO				
L0000035		0	0.18868E-01	492737.9	3626541.2	125.1	3.40 4.00
3.16	NO		NO				
L0000036		0	0.18868E-01	492741.7	3626533.5	125.1	3.40 4.00
3.16	NO		NO				
L0000037		0	0.18868E-01	492746.3	3626528.2	125.2	3.40 4.00
3.16	NO		NO				
L0000038		0	0.18868E-01	492753.8	3626532.3	125.3	3.40 4.00
3.16	NO		NO				
L0000039		0	0.18868E-01	492761.3	3626536.5	125.3	3.40 4.00
3.16	NO		NO				
L0000040		0	0.18868E-01	492767.0	3626541.4	125.2	3.40 4.00
3.16	NO		NO				

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 4

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** VOLUME SOURCE DATA ***

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

L0000041		0	0.18868E-01	492763.7	3626549.3	125.2	3.40	4.00
3.16	NO		NO					
L0000042		0	0.18868E-01	492760.5	3626557.3	125.1	3.40	4.00
3.16	NO		NO					
L0000043		0	0.18868E-01	492757.2	3626565.3	125.2	3.40	4.00
3.16	NO		NO					
L0000044		0	0.18868E-01	492755.1	3626573.6	125.2	3.40	4.00
3.16	NO		NO					
L0000045		0	0.18868E-01	492750.7	3626575.1	125.2	3.40	4.00
3.16	NO		NO					
L0000046		0	0.18868E-01	492744.0	3626569.7	125.2	3.40	4.00
3.16	NO		NO					
L0000047		0	0.18868E-01	492737.3	3626564.3	125.1	3.40	4.00
3.16	NO		NO					
L0000048		0	0.18868E-01	492740.5	3626556.4	125.1	3.40	4.00
3.16	NO		NO					
L0000049		0	0.18868E-01	492743.8	3626548.4	125.1	3.40	4.00

3.16	NO			NO				
L0000050		0	0.18868E-01	492747.8	3626542.0	125.2	3.40	4.00
3.16	NO			NO				
L0000051		0	0.18868E-01	492756.0	3626544.5	125.2	3.40	4.00
3.16	NO			NO				
L0000052		0	0.18868E-01	492754.2	3626551.2	125.2	3.40	4.00
3.16	NO			NO				
L0000053		0	0.18868E-01	492750.1	3626558.8	125.2	3.40	4.00
3.16	NO			NO				

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 5

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID		SOURCE IDs	
-----		-----	
SLINE1	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,		
L0000006	, L0000007 , L0000008 ,		
	L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,		
L0000014	, L0000015 , L0000016 ,		
	L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,		
L0000022	, L0000023 , L0000024 ,		
	L0000025 , L0000026 , L0000027 , L0000028 , L0000029 ,		
L0000030	, L0000031 , L0000032 ,		
	L0000033 , L0000034 , L0000035 , L0000036 , L0000037 ,		
L0000038	, L0000039 , L0000040 ,		
	L0000041 , L0000042 , L0000043 , L0000044 , L0000045 ,		
L0000046	, L0000047 , L0000048 ,		
	L0000049 , L0000050 , L0000051 , L0000052 , L0000053 ,		
STCK1	STCK1 ,		
STCK2	STCK2 ,		
STCK3	STCK3 ,		


```

STCK4      STCK4      ,
STCK5      STCK5      ,
STCK6      STCK6      ,

ALL        L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
L0000006    , L0000007    , L0000008    ,

L0000014    L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
            , L0000015    , L0000016    ,

L0000022    L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
            , L0000023    , L0000024    ,

L0000030    L0000025    , L0000026    , L0000027    , L0000028    , L0000029    ,
            , L0000031    , L0000032    ,

L0000038    L0000033    , L0000034    , L0000035    , L0000036    , L0000037    ,
            , L0000039    , L0000040    ,

L0000046    L0000041    , L0000042    , L0000043    , L0000044    , L0000045    ,
            , L0000047    , L0000048    ,

            L0000049    , L0000050    , L0000051    , L0000052    , L0000053    ,
STCK1      , STCK2      , STCK3      ,
^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

```

PAGE 6

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

```

STCK4      , STCK5      , STCK6      ,
^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

```

PAGE 7

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** DIRECTION SPECIFIC BUILDING DIMENSIONS

SOURCE ID: STCK1

SOURCE ID: STCK2

3	28.0,	61.4,	55.0,	-18.4,	-27.9,	4	28.0,	60.8,	59.4,	-15.9,
-26.0,										
5	28.0,	58.4,	62.0,	-12.9,	-23.3,	6	28.0,	54.2,	62.7,	-9.5,
-19.9,										
7	28.0,	48.3,	61.5,	-5.8,	-15.9,	8	28.0,	40.9,	58.5,	-1.9,
-11.4,										
9	28.0,	32.9,	53.7,	2.0,	-6.3,	10	28.0,	41.3,	57.1,	0.7,
-1.0,										
11	28.0,	48.9,	60.2,	-1.1,	4.1,	12	28.0,	55.0,	61.4,	-2.8,
9.1,										
13	28.0,	59.4,	60.8,	-4.4,	13.9,	14	28.0,	62.0,	58.4,	-5.9,
18.2,										
15	28.0,	62.7,	54.2,	-7.2,	21.9,	16	28.0,	61.5,	48.3,	-8.3,
25.0,										
17	28.0,	58.5,	40.9,	-9.1,	27.3,	18	28.0,	53.7,	32.9,	-10.2,
28.8,										
19	28.0,	57.1,	41.3,	-19.7,	29.2,	20	28.0,	60.2,	48.9,	-28.6,
29.0,										
21	28.0,	61.4,	55.0,	-36.6,	27.9,	22	28.0,	60.8,	59.4,	-43.5,
26.0,										
23	28.0,	58.4,	62.0,	-49.1,	23.3,	24	28.0,	54.2,	62.7,	-53.3,
19.9,										
25	28.0,	48.3,	61.5,	-55.8,	15.9,	26	28.0,	40.9,	58.5,	-56.6,
11.4,										
27	28.0,	32.9,	53.7,	-55.6,	6.3,	28	28.0,	41.3,	57.1,	-57.7,
1.0,										
29	28.0,	48.9,	60.2,	-59.1,	-4.1,	30	28.0,	55.0,	61.4,	-58.7,
-9.1,										
31	28.0,	59.4,	60.8,	-56.4,	-13.9,	32	28.0,	62.0,	58.4,	-52.5,
-18.2,										
33	28.0,	62.7,	54.2,	-47.0,	-21.9,	34	28.0,	61.5,	48.3,	-40.0,
-25.0,										
35	28.0,	58.5,	40.9,	-31.9,	-27.3,	36	28.0,	53.7,	32.9,	-22.7,
-28.8,										

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
YADJ										
1	34.1,	185.1,	135.4,	-33.7,	80.0,	2	34.1,	201.4,	105.2,	-33.3,
84.5,										
3	34.1,	211.6,	87.9,	-47.9,	86.5,	4	34.1,	215.4,	93.8,	-61.8,
85.8,										
5	34.1,	213.8,	104.5,	-81.6,	83.1,	6	34.1,	83.9,	55.6,	-98.8,
58.3,										
7	34.1,	77.7,	65.4,	-113.1,	45.3,	8	34.1,	69.2,	73.3,	-123.9,
31.0,										
9	34.1,	58.5,	78.8,	-131.0,	15.7,	10	34.1,	46.1,	82.0,	-134.0,
-0.1,										
11	34.1,	105.2,	201.4,	-185.2,	19.3,	12	34.1,	87.9,	211.6,	-192.3,


```

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:55:07

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

IFV YADJ	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
1 -45.9,	34.1,	82.0,	46.1,	-72.4,	-36.9,	2	34.1,	84.8,	33.6,	-59.3,
3 -58.5,	34.1,	86.8,	25.5,	-49.8,	-53.6,	4	34.1,	88.5,	31.3,	-39.5,
5 -43.4,	34.1,	213.8,	104.5,	-35.8,	-48.1,	6	34.1,	209.3,	112.0,	-30.9,
7 -31.3,	34.1,	199.4,	116.1,	-25.2,	-37.9,	8	34.1,	183.4,	136.2,	-26.7,
9 -15.3,	34.1,	161.9,	163.1,	-35.2,	-23.6,	10	34.1,	135.4,	185.1,	-42.6,
11 -5.8,	34.1,	105.2,	201.4,	-48.7,	-6.7,	12	34.1,	87.9,	211.6,	-53.3,
13 -13.7,	34.1,	93.8,	215.4,	-56.3,	7.4,	14	34.1,	44.1,	87.5,	17.9,
15 7.5,	34.1,	55.6,	83.9,	21.0,	-3.1,	16	34.1,	65.4,	77.7,	23.4,
17 27.9,	34.1,	73.3,	69.2,	25.2,	18.0,	18	34.1,	78.8,	58.5,	26.1,

19	34.1,	82.0,	46.1,	26.3,	36.9,	20	34.1,	84.8,	33.6,	25.7,
45.9,										
21	34.1,	86.8,	25.5,	24.2,	53.6,	22	34.1,	88.5,	31.3,	8.2,
58.5,										
23	34.1,	213.8,	104.5,	-68.7,	48.1,	24	34.1,	209.3,	112.0,	-81.0,
43.4,										
25	34.1,	199.4,	116.1,	-90.9,	37.9,	26	34.1,	183.4,	136.2,	-109.5,
31.3,										
27	34.1,	161.9,	163.1,	-127.9,	23.6,	28	34.1,	135.4,	185.1,	-142.5,
15.3,										
29	34.1,	105.2,	201.4,	-152.7,	6.7,	30	34.1,	87.9,	211.6,	-158.3,
5.8,										
31	34.1,	93.8,	215.4,	-159.1,	-7.4,	32	34.1,	44.1,	87.5,	-105.4,
13.7,										
33	34.1,	55.6,	83.9,	-104.9,	3.1,	34	34.1,	65.4,	77.7,	-101.1,
-7.5,										
35	34.1,	73.3,	69.2,	-94.3,	-18.0,	36	34.1,	78.8,	58.5,	-84.6,
-27.9,										

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
YADJ										
1	34.1,	82.0,	46.1,	-1.2,	11.9,	2	34.1,	84.8,	33.6,	2.4,
14.6,										
3	34.1,	86.8,	25.5,	0.4,	16.6,	4	34.1,	88.5,	31.3,	-2.3,
19.4,										
5	34.1,	87.5,	44.1,	-12.6,	21.5,	6	34.1,	83.9,	55.6,	-22.6,
23.0,										
7	34.1,	77.7,	65.4,	-31.9,	23.8,	8	34.1,	69.2,	73.3,	-40.2,
23.9,										
9	34.1,	58.5,	78.8,	-47.3,	23.2,	10	34.1,	46.1,	82.0,	-52.9,
21.9,										
11	34.1,	105.2,	201.4,	-109.2,	55.0,	12	34.1,	87.9,	211.6,	-123.6,
44.4,										
13	34.1,	93.8,	215.4,	-134.2,	44.6,	14	34.1,	44.1,	87.5,	-65.2,
9.4,										
15	34.1,	55.6,	83.9,	-64.9,	5.2,	16	34.1,	65.4,	77.7,	-62.6,
0.8,										
17	34.1,	73.3,	69.2,	-58.4,	-3.6,	18	34.1,	78.8,	58.5,	-52.5,
-7.8,										
19	34.1,	82.0,	46.1,	-44.9,	-11.9,	20	34.1,	84.8,	33.6,	-36.0,
-14.6,										
21	34.1,	86.8,	25.5,	-25.9,	-16.6,	22	34.1,	88.5,	31.3,	-29.0,
-19.4,										
23	34.1,	87.5,	44.1,	-31.5,	-21.5,	24	34.1,	83.9,	55.6,	-33.0,
-23.0,										
25	34.1,	77.7,	65.4,	-33.6,	-23.8,	26	34.1,	69.2,	73.3,	-33.1,
-23.9,										
27	34.1,	58.5,	78.8,	-31.6,	-23.2,	28	34.1,	46.1,	82.0,	-29.1,

-21.9,
29 34.1, 105.2, 201.4, -92.2, -55.0, 30 34.1, 87.9, 211.6, -88.0,
-44.4,
31 34.1, 93.8, 215.4, -81.1, -44.6, 32 34.1, 44.1, 87.5, -22.3,
-9.4,
33 34.1, 55.6, 83.9, -18.9, -5.2, 34 34.1, 65.4, 77.7, -15.1,
-0.8,
35 34.1, 73.3, 69.2, -10.7, 3.6, 36 34.1, 78.8, 58.5, -6.0,
7.9,

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apol1\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

PAGE 9

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

490879.2, 491073.3, 491267.4, 491461.5, 491655.6, 491849.7, 492043.8,
492237.9, 492432.0, 492626.1,
492820.2, 493014.3, 493208.4, 493402.5, 493596.6, 493790.7, 493984.8,
494178.9, 494373.0, 494567.1,
494761.2,

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

3624590.4, 3624786.2, 3624982.1, 3625177.9, 3625373.8, 3625569.7, 3625765.5,
3625961.4, 3626157.2, 3626353.1,
3626549.0, 3626744.8, 3626940.7, 3627136.5, 3627332.4, 3627528.3, 3627724.1,
3627920.0, 3628115.8, 3628311.7,
3628507.6,

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apol1\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

PAGE 10

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58	
491849.68	492043.78	492237.88	492431.98			

3628507.56		25.00	43.20	43.10	48.60	67.50
80.10		95.10	99.80	104.90		
3628311.70		34.20	42.30	48.30	58.60	67.70
87.00		93.50	96.80	99.40		
3628115.84		35.30	39.20	49.50	59.30	74.90
90.50		89.90	94.60	98.40		
3627919.98		34.40	39.40	51.20	57.10	81.40
91.30		79.50	97.40	94.00		
3627724.12		29.60	38.00	49.50	69.90	82.20
89.30		62.50	99.00	55.90		
3627528.26		26.30	38.20	56.90	78.80	82.40
81.00		60.00	55.50	92.00		
3627332.40		25.20	36.20	57.80	66.70	68.80
45.50		41.60	85.80	115.00		
3627136.54		23.70	25.40	27.40	29.00	34.00
34.90		34.80	34.80	40.30		
3626940.68		35.80	38.20	39.70	41.60	40.50
45.80		55.20	53.60	49.60		
3626744.82		84.80	99.10	84.90	86.90	68.40
105.30		110.40	113.00	74.40		
3626548.96		89.90	97.80	78.80	108.90	95.30
82.60		127.20	121.30	108.70		
3626353.10		66.40	106.30	107.60	97.70	120.40
84.80		122.30	133.50	133.80		
3626157.24		38.60	71.90	115.10	118.10	120.60
115.70		115.40	127.50	126.90		
3625961.38		53.40	50.50	63.30	86.80	120.70
119.20		100.10	103.40	114.00		
3625765.52		52.20	100.40	87.70	59.60	70.40
76.70		86.10	95.90	121.70		
3625569.66		80.60	94.20	115.10	119.50	106.20
110.80		76.20	86.10	100.00		
3625373.80		73.80	91.40	81.80	120.10	123.20
122.50		106.00	109.80	126.70		
3625177.94		64.10	115.10	113.40	99.90	122.20
121.80		120.30	97.10	128.30		
3624982.08		74.00	113.60	110.50	117.80	119.20
121.10		121.20	106.70	124.00		
3624786.22		109.50	96.90	115.30	117.60	118.70
120.30		120.60	109.90	111.30		
3624590.36		108.30	109.70	105.40	113.00	116.20

118.50 119.60 120.80 117.70
 *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 11

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48	
493596.58	493790.68	493984.78	494178.88			

3628507.56		106.80	107.70	93.20	107.90	111.20
118.20	128.90	146.10	192.00			
3628311.70		103.20	106.80	82.70	90.50	112.70
121.70	133.00	155.40	216.90			
3628115.84		100.50	85.20	94.30	121.30	121.10
124.20	138.60	157.00	216.70			
3627919.98		76.70	87.30	82.50	121.70	131.00
130.00	141.30	170.80	228.80			
3627724.12		71.90	122.60	125.30	119.50	108.60
132.70	144.30	164.50	197.70			
3627528.26		112.50	95.30	119.80	130.00	130.40
124.60	139.30	151.20	167.00			
3627332.40		106.20	98.30	119.00	122.00	131.90
136.80	143.30	149.40	146.80			
3627136.54		42.50	42.90	43.20	48.90	81.30
127.20	140.70	140.90	134.10			
3626940.68		48.30	57.70	56.90	63.20	91.90
114.10	125.50	112.20	129.40			
3626744.82		112.00	108.40	100.30	105.10	115.20
91.80	98.50	100.30	105.90			
3626548.96		100.70	125.40	110.00	132.60	132.60
111.90	123.60	119.40	102.90			
3626353.10		133.90	135.30	116.80	134.20	135.40
133.50	133.00	132.60	112.90			
3626157.24		130.90	136.40	133.20	138.60	138.90
131.70	130.10	137.20	139.30			
3625961.38		128.60	139.60	141.20	140.80	139.70
140.00	133.40	140.10	140.40			
3625765.52		116.60	141.00	141.80	140.70	137.00
141.00	143.30	142.70	140.40			

3625569.66		106.70	112.70	139.30	129.90	118.50
142.10		143.30	142.80	142.50		
3625373.80		116.10	136.50	108.00	115.20	114.50
122.80		134.00	143.50	143.10		
3625177.94		114.50	129.90	134.00	125.90	138.00
136.00		143.70	144.90	144.30		
3624982.08		129.20	132.80	140.40	129.60	142.20
144.40		144.30	144.80	143.80		
3624786.22		112.40	130.90	140.80	141.40	143.70
144.90		143.10	143.90	144.70		
3624590.36		128.90	125.80	139.80	146.80	140.40
135.80		136.30	143.60	144.90		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 12

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD					X-COORD (METERS)
(METERS)		494372.98	494567.08	494761.18	

3628507.56		229.10	230.10	216.80	
3628311.70		243.40	239.50	220.40	
3628115.84		250.70	248.30	231.70	
3627919.98		236.60	228.70	231.60	
3627724.12		215.30	186.80	220.90	
3627528.26		166.80	162.70	199.80	
3627332.40		145.10	150.60	186.20	
3627136.54		139.60	142.00	153.50	
3626940.68		132.20	133.30	137.40	
3626744.82		111.80	122.70	128.10	
3626548.96		105.00	107.30	108.60	
3626353.10		134.50	126.00	130.90	
3626157.24		135.10	139.70	118.20	
3625961.38		127.30	140.60	124.00	
3625765.52		138.10	139.50	135.60	
3625569.66		141.30	135.60	133.10	
3625373.80		142.50	141.20	141.10	
3625177.94		143.10	142.00	141.10	
3624982.08		141.00	142.30	135.30	
3624786.22		143.90	135.50	135.10	

3624590.36 | 141.60 127.80 138.60
 *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 13

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58	
491849.68	492043.78	492237.88	492431.98			

- - - - -
 - - - - -

3628507.56		126.10	43.20	43.10	88.30	67.50
93.50	95.10	99.80	104.90			
3628311.70		125.30	42.30	49.80	58.60	93.50
93.50	93.50	96.80	99.40			
3628115.84		35.30	45.00	50.40	85.00	90.10
90.50	89.90	94.60	98.40			
3627919.98		34.40	39.40	79.50	89.70	81.40
91.30	100.00	97.40	96.40			
3627724.12		29.60	78.80	80.10	79.70	82.20
89.30	126.80	99.00	251.60			
3627528.26		109.80	79.50	79.50	78.80	82.40
85.80	127.50	127.80	127.80			
3627332.40		111.30	111.30	57.80	66.70	83.00
130.40	134.50	126.80	126.20			
3627136.54		117.50	120.10	131.00	134.50	134.70
134.70	134.70	136.60	136.60			
3626940.68		117.50	120.10	131.00	134.20	134.70
134.70	134.70	136.20	137.40			
3626744.82		111.30	111.30	112.70	118.80	134.20
126.60	126.00	119.90	136.60			
3626548.96		111.30	111.30	119.70	116.10	130.40
134.70	127.20	134.70	134.70			
3626353.10		119.20	109.30	116.30	121.40	120.40
134.70	132.60	133.50	133.80			
3626157.24		121.80	119.20	117.60	118.10	120.60
115.70	131.80	127.50	132.70			
3625961.38		119.80	123.20	123.30	122.50	120.70
119.20	131.80	133.20	128.30			
3625765.52		122.30	112.00	121.80	123.60	123.60
130.40	128.90	124.60	121.70			

3625569.66	115.20	116.40	115.10	121.50	123.60
121.80	128.40	136.50	141.00		
3625373.80	116.50	116.40	123.60	120.10	123.20
122.50	122.60	127.90	126.70		
3625177.94	116.50	115.10	115.20	123.10	122.20
121.80	120.30	129.20	128.30		
3624982.08	116.60	113.60	114.90	117.80	119.20
121.10	121.20	119.10	124.00		
3624786.22	109.50	114.70	115.30	117.60	118.70
120.30	120.60	121.10	125.30		
3624590.36	108.30	109.70	105.40	113.00	116.20
118.50	119.60	120.80	117.70		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 14

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	106.80	107.70	252.50	252.50	252.50
252.50	252.50	252.50	252.50		
3628311.70	103.20	106.80	252.50	252.50	252.50
252.50	252.50	252.50	252.50		
3628115.84	100.50	252.50	252.50	252.50	252.50
252.50	252.50	252.50	252.50		
3627919.98	252.10	252.50	252.50	252.50	252.50
252.50	252.50	252.50	239.10		
3627724.12	252.50	122.60	125.30	252.50	252.50
252.50	252.50	252.50	252.50		
3627528.26	127.80	129.10	127.50	130.00	252.50
252.50	252.50	252.50	252.50		
3627332.40	127.80	127.80	121.40	122.00	239.10
252.50	252.50	252.50	258.90		
3627136.54	252.50	252.50	252.50	258.90	252.50
250.90	244.20	252.50	258.90		
3626940.68	138.70	250.90	252.50	252.50	252.50
244.20	244.20	258.90	258.90		
3626744.82	123.20	125.30	133.70	134.30	132.80

251.40	252.10	258.90	258.90			
3626548.96	136.60	125.40	136.20	132.60	132.60	
137.70	133.90	135.10	258.90			
3626353.10	133.90	135.30	137.90	134.20	139.00	
135.00	134.90	135.30	140.40			
3626157.24	130.90	136.40	139.20	138.60	138.90	
140.50	130.10	137.20	139.30			
3625961.38	134.70	139.60	141.20	140.80	139.70	
140.00	133.40	140.10	140.40			
3625765.52	141.20	141.00	141.80	140.70	137.00	
141.00	143.30	142.70	140.40			
3625569.66	142.00	142.20	139.30	140.30	143.10	
142.10	143.30	142.80	142.50			
3625373.80	136.60	136.50	141.60	140.10	142.70	
143.80	134.00	143.50	143.10			
3625177.94	136.00	139.40	140.50	140.40	138.00	
143.70	143.70	144.90	144.30			
3624982.08	129.20	132.80	140.40	143.30	142.20	
144.40	144.30	144.80	143.80			
3624786.22	131.30	130.90	140.80	141.40	143.70	
144.90	143.10	143.90	144.70			
3624590.36	128.90	131.00	139.80	146.80	145.70	
137.70	136.30	143.60	144.90			

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	494372.98	494567.08	494761.18
3628507.56	229.10	230.10	232.70
3628311.70	251.90	241.80	250.40
3628115.84	250.70	248.30	246.90
3627919.98	240.20	248.90	231.60
3627724.12	244.20	258.90	232.50
3627528.26	258.90	258.90	258.90
3627332.40	258.90	258.90	258.90
3627136.54	258.90	258.90	258.90
3626940.68	258.90	258.90	258.90

3626744.82	258.90	258.90	258.90
3626548.96	258.90	258.90	258.90
3626353.10	134.50	140.20	130.90
3626157.24	138.10	139.70	140.80
3625961.38	140.20	140.60	141.00
3625765.52	138.10	139.50	135.60
3625569.66	141.30	135.60	133.10
3625373.80	142.50	141.20	141.10
3625177.94	143.10	142.00	141.10
3624982.08	141.00	142.30	140.70
3624786.22	143.90	142.50	141.10
3624590.36	141.60	142.40	141.20

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 16

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

(492883.2, 3625830.8, 141.7, 141.7, 0.0);	(492919.8,
3625834.6, 142.1, 142.1, 0.0);	
(492955.1, 3625845.5, 142.1, 142.1, 0.0);	(493069.9,
3625832.7, 142.2, 142.2, 0.0);	
(493094.9, 3625832.7, 142.2, 142.2, 0.0);	(493110.9,
3625837.2, 142.1, 142.1, 0.0);	
(493152.0, 3625834.0, 141.9, 141.9, 0.0);	(493166.7,
3625837.9, 141.8, 141.8, 0.0);	
(493187.9, 3625836.6, 141.7, 141.7, 0.0);	(493201.3,
3625836.6, 141.6, 141.6, 0.0);	
(493240.4, 3625836.6, 141.0, 141.0, 0.0);	(492881.3,
3625908.4, 141.6, 141.6, 0.0);	
(492907.0, 3625898.1, 142.3, 142.3, 0.0);	(492901.8,
3625911.6, 141.8, 141.8, 0.0);	
(492928.1, 3625914.8, 141.7, 141.7, 0.0);	(492933.9,
3625898.1, 142.3, 142.3, 0.0);	
(492951.9, 3625908.4, 141.8, 141.8, 0.0);	(492973.7,
3625907.1, 141.3, 141.3, 0.0);	
(492993.5, 3625914.2, 141.0, 141.0, 0.0);	(492996.1,
3625897.5, 141.0, 141.0, 0.0);	
(493016.0, 3625896.8, 141.8, 141.8, 0.0);	(493023.0,
3625912.2, 141.7, 141.7, 0.0);	
(493044.2, 3625907.1, 141.7, 141.7, 0.0);	(493066.7,
3625907.8, 141.0, 141.0, 0.0);	
(493085.2, 3625912.2, 141.4, 141.4, 0.0);	(493087.2,
3625895.6, 141.3, 141.3, 0.0);	

(493109.0, 3625911.6, 141.5, 141.5,	0.0);	(493112.2,
3625897.5, 141.4, 141.4, 0.0);		
(493134.0, 3625902.0, 140.9, 140.9,	0.0);	(492874.3,
3625788.5, 140.9, 140.9, 0.0);		
(492894.1, 3625789.1, 141.3, 141.3,	0.0);	(492910.2,
3625790.4, 141.4, 141.4, 0.0);		
(492930.7, 3625786.5, 141.4, 141.4,	0.0);	(492947.4,
3625791.0, 141.6, 141.6, 0.0);		
(492963.4, 3625787.8, 141.6, 141.6,	0.0);	(492982.6,
3625787.8, 141.6, 141.6, 0.0);		
(493000.0, 3625787.8, 141.7, 141.7,	0.0);	(493021.1,
3625791.0, 141.8, 141.8, 0.0);		
(493036.5, 3625789.1, 141.9, 141.9,	0.0);	(493055.8,
3625789.8, 141.9, 141.9, 0.0);		
(493076.3, 3625787.8, 141.9, 141.9,	0.0);	(493094.9,
3625787.8, 141.9, 141.9, 0.0);		
(493112.8, 3625788.5, 141.8, 141.8,	0.0);	(493129.5,
3625787.2, 141.7, 141.7, 0.0);		
(493148.7, 3625787.2, 141.6, 141.6,	0.0);	(493164.8,
3625790.4, 141.5, 141.5, 0.0);		
(493184.6, 3625789.1, 141.2, 141.2,	0.0);	(493202.0,
3625791.0, 141.1, 141.1, 0.0);		
(493221.2, 3625790.4, 141.0, 141.0,	0.0);	(493238.5,
3625791.0, 140.7, 140.7, 0.0);		
(492780.0, 3626415.0, 129.0, 135.1,	0.0);	(492778.7,
3626388.1, 131.1, 135.1, 0.0);		
(492747.9, 3626386.2, 131.2, 134.8,	0.0);	(492742.2,
3626418.2, 129.7, 129.7, 0.0);		
(492699.2, 3626422.7, 129.8, 129.8,	0.0);	(492697.9,
3626391.9, 131.4, 134.8, 0.0);		
(492678.7, 3626411.8, 131.0, 134.7,	0.0);	(492626.1,
3626426.6, 132.8, 133.6, 0.0);		
(492606.8, 3626435.5, 128.9, 134.1,	0.0);	(492599.2,
3626405.4, 132.5, 132.5, 0.0);		
(492491.2, 3626644.9, 115.1, 116.5,	0.0);	(492517.4,
3626636.7, 113.5, 133.7, 0.0);		
(492521.2, 3626603.4, 117.5, 117.5,	0.0);	(492521.7,
3626582.2, 118.3, 118.3, 0.0);		
(492512.5, 3626553.8, 118.7, 133.7,	0.0);	(492513.5,
3626533.1, 118.0, 133.7, 0.0);		
(492501.0, 3626506.4, 118.3, 133.7,	0.0);	(492490.6,
3626485.7, 120.5, 133.7, 0.0);		
(492479.2, 3626464.4, 122.4, 133.7,	0.0);	(492466.1,
3626447.0, 126.2, 133.2, 0.0);		
(492447.6, 3626418.7, 131.4, 131.4,	0.0);	(492431.8,
3626430.6, 131.2, 131.2, 0.0);		
(492481.9, 3626620.3, 116.3, 134.1,	0.0);	(492482.5,
3626594.2, 117.8, 133.7, 0.0);		
(492479.2, 3626572.9, 118.5, 134.1,	0.0);	(492477.0,
3626546.8, 118.9, 134.1, 0.0);		

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

10.80, 1.54, 3.09, 5.14, 8.23,

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

Surface file: ..\KVR_2020_2022_v23132.SFC
Met Version: 23132
Profile file: ..\KVR_2020_2022_v23132.PFL

Profile format: FREE

First 24 hours of scalar data														
YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	01	01	1	01	-18.2	0.163	-9.000	-9.000	-999.	158.	21.3	0.10	1.21	
1.00		2.82	57.		10.0	283.1	10.0							

20	01	01	1	02	-8.1	0.093	-9.000	-9.000	-999.	70.	8.9	0.12	1.21
1.00		2.06	73.		10.0	282.6	10.0						
20	01	01	1	03	-10.2	0.104	-9.000	-9.000	-999.	80.	9.7	0.10	1.21
1.00		2.37	54.		10.0	283.5	10.0						
20	01	01	1	04	-8.0	0.092	-9.000	-9.000	-999.	67.	8.6	0.10	1.21
1.00		2.10	59.		10.0	283.0	10.0						
20	01	01	1	05	-11.2	0.109	-9.000	-9.000	-999.	86.	10.4	0.12	1.21
1.00		2.41	63.		10.0	282.4	10.0						
20	01	01	1	06	-7.4	0.089	-9.000	-9.000	-999.	64.	8.5	0.12	1.21
1.00		1.97	64.		10.0	282.6	10.0						
20	01	01	1	07	-7.1	0.087	-9.000	-9.000	-999.	61.	8.3	0.12	1.21
1.00		1.92	70.		10.0	282.5	10.0						
20	01	01	1	08	-2.1	0.053	-9.000	-9.000	-999.	29.	6.3	0.14	1.21
0.50		1.12	129.		10.0	282.4	10.0						
20	01	01	1	09	36.2	0.144	0.391	0.005	59.	131.	-7.4	0.17	1.21
0.30		1.03	112.		10.0	286.4	10.0						
20	01	01	1	10	90.0	0.280	0.921	0.005	310.	356.	-21.8	0.14	1.21
0.23		2.46	148.		10.0	289.0	10.0						
20	01	01	1	11	126.8	0.254	1.266	0.005	572.	308.	-11.6	0.16	1.21
0.21		2.01	225.		10.0	290.5	10.0						
20	01	01	1	12	144.1	0.324	1.461	0.005	774.	444.	-21.2	0.16	1.21
0.20		2.77	211.		10.0	291.3	10.0						
20	01	01	1	13	141.4	0.344	1.588	0.005	1011.	485.	-25.8	0.16	1.21
0.20		3.00	210.		10.0	291.2	10.0						
20	01	01	1	14	118.9	0.362	1.554	0.005	1126.	523.	-35.6	0.16	1.21
0.21		3.26	234.		10.0	290.8	10.0						
20	01	01	1	15	77.8	0.368	1.376	0.005	1195.	535.	-56.9	0.16	1.21
0.24		3.44	227.		10.0	290.3	10.0						
20	01	01	1	16	21.2	0.319	0.897	0.005	1212.	434.	-136.4	0.17	1.21
0.33		3.08	244.		10.0	289.4	10.0						
20	01	01	1	17	-7.3	0.092	-9.000	-9.000	-999.	146.	9.7	0.16	1.21
0.61		1.92	236.		10.0	288.2	10.0						
20	01	01	1	18	-8.4	0.098	-9.000	-9.000	-999.	74.	10.0	0.20	1.21
1.00		1.92	193.		10.0	287.3	10.0						
20	01	01	1	19	-6.6	0.086	-9.000	-9.000	-999.	61.	8.6	0.14	1.21
1.00		1.83	140.		10.0	286.6	10.0						
20	01	01	1	20	-2.9	0.057	-9.000	-9.000	-999.	33.	5.7	0.14	1.21
1.00		1.21	144.		10.0	286.2	10.0						
20	01	01	1	21	-3.2	0.060	-9.000	-9.000	-999.	35.	6.0	0.17	1.21
1.00		1.21	99.		10.0	285.3	10.0						
20	01	01	1	22	-5.1	0.075	-9.000	-9.000	-999.	49.	7.3	0.12	1.21
1.00		1.65	76.		10.0	284.8	10.0						
20	01	01	1	23	-2.1	0.048	-9.000	-9.000	-999.	26.	4.8	0.17	1.21
1.00		0.98	99.		10.0	284.5	10.0						
20	01	01	1	24	-4.4	0.069	-9.000	-9.000	-999.	43.	6.6	0.12	1.21
1.00		1.52	78.		10.0	283.8	10.0						

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV

20 01 01 01 10.0 1 57. 2.82 283.2 6.0 -99.00 0.29

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

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 20

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	0.75451	0.81386	0.87114	0.93203	0.99921
1.05810	1.12481	1.17315	1.23387		
3628311.70	0.81956	0.89868	0.97577	1.05374	1.13766
1.23140	1.30370	1.35365	1.39374		
3628115.84	0.88261	0.98441	1.09196	1.19788	1.30843
1.43903	1.53193	1.60478	1.66050		
3627919.98	0.94929	1.06950	1.21129	1.36261	1.52045
1.68857	1.82872	1.97039	2.01836		
3627724.12	1.02558	1.16153	1.33057	1.53816	1.76854
2.00141	2.22081	2.47204	2.53570		
3627528.26	1.11982	1.27188	1.46502	1.71789	2.03385
2.39148	2.74885	3.12484	3.38873		
3627332.40	1.22192	1.40534	1.63209	1.92078	2.30788
2.82623	3.45786	4.14479	5.24417		
3627136.54	1.31638	1.53573	1.81530	2.17643	2.65296
3.31837	4.30247	5.61310	7.02906		

3626940.68		1.40071	1.65276	1.98437	2.43259	3.05720
3.95883		5.32125	7.58749	11.19235		
3626744.82		1.50807	1.83802	2.15714	2.67673	3.42326
4.68675		6.77216	10.52859	18.06635		
3626548.96		1.69874	2.06337	2.46169	3.33414	4.06225
5.55763		10.86876	16.81012	29.42343		
3626353.10		1.88573	2.46194	3.03510	3.62775	6.02563
6.80893		13.70249	21.33115	36.55942		
3626157.24		2.01264	2.47211	3.73189	5.08056	7.20641
9.40598		13.46363	20.90074	20.99248		
3625961.38		2.24527	2.79422	3.55449	4.61820	7.71198
9.46214		8.64810	8.54523	8.70703		
3625765.52		2.45882	3.14867	3.71176	4.50609	5.18401
5.45884		5.38418	5.23409	6.69779		
3625569.66		2.53062	3.05241	4.15100	4.71589	4.03726
4.12206		3.66670	3.61609	3.82479		
3625373.80		2.43905	2.71552	2.80597	3.63403	3.68550
3.57523		2.84806	2.96076	3.81723		
3625177.94		2.12422	2.68347	2.63210	2.26735	2.79105
2.74939		2.67760	2.19728	3.00406		
3624982.08		1.76820	2.14625	2.03450	2.16317	2.16743
2.19237		2.19638	1.92982	2.44886		
3624786.22		1.71071	1.51716	1.75368	1.77041	1.78367
1.79358		1.83619	1.69514	1.78804		
3624590.36		1.41648	1.40585	1.32241	1.42442	1.46434
1.49696		1.56311	1.63999	1.64794		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 21

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)					X-COORD (METERS)	
	492626.08	492820.18	493014.28		493208.38	493402.48
493596.58	493790.68	493984.78	494178.88			

3628507.56		1.25702	1.24439	1.10560	1.16670	1.15391
1.18194		1.14977	0.31228	0.05211		
3628311.70		1.43080	1.44397	1.28022	1.23597	1.35110
1.40144		0.89371	0.17490	0.04435		
3628115.84		1.68777	1.60290	1.55621	1.86993	1.74616
1.65784		0.69826	0.16374	0.04934		
3627919.98		2.02324	1.98598	1.88849	2.27320	1.57431
1.80754		0.60562	0.10271	0.05467		
3627724.12		2.59173	3.28289	3.15348	2.73576	2.14323
1.52382		0.49013	0.13939	0.07426		
3627528.26		3.79244	3.40825	3.87634	3.38820	2.45558
2.79431		0.88403	0.29965	0.14424		
3627332.40		5.07058	4.85676	5.20045	4.77770	2.69761
1.46798		0.69309	0.38802	0.42530		
3627136.54		7.80941	7.54827	6.45648	5.15297	4.01443
4.09328		1.01185	0.86211	1.30924		
3626940.68		14.56019	14.01948	10.60101	7.31747	5.13940
4.10963		3.70347	2.48872	2.30887		
3626744.82		37.42266	37.86887	19.18695	10.28111	6.89935
4.38863		3.26956	2.55686	2.13300		
3626548.96		123.96594	293.40829	33.23510	11.97246	7.27341
5.54399		4.79622	3.46928	2.30216		
3626353.10		30.46898	27.91959	35.70138	17.21860	8.68996
6.22415		4.42855	3.35481	2.75772		
3626157.24		17.62625	10.88426	15.70443	9.10876	7.81345
8.20018		5.93821	3.44424	2.37553		
3625961.38		11.51967	4.84501	4.67006	4.94471	5.34590
4.78746		5.77604	3.43636	2.69405		
3625765.52		6.52129	3.11034	3.18586	3.90801	4.73678
3.53918		2.74939	2.80258	2.87470		
3625569.66		4.16828	4.41166	3.14828	4.90898	4.46120
2.52305		2.36340	2.25253	2.22253		
3625373.80		3.56954	2.88226	3.16295	3.36465	3.27774
3.43247		3.03268	1.92243	1.82262		
3625177.94		2.76643	3.01086	2.65314	2.97357	2.32553
2.61829		1.59791	1.45389	1.54803		
3624982.08		2.49433	2.23497	1.62464	2.39578	1.51936
1.40777		1.44249	1.25827	1.35009		
3624786.22		1.84322	1.93870	1.35193	1.40074	1.19735
1.14254		1.39014	1.26028	1.09695		
3624590.36		1.74394	1.73559	1.23571	0.88359	1.24673
1.50452		1.54507	1.19746	1.02548		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 *** ***

*** 15:55:07

PAGE 22

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)				X-COORD (METERS)

3628507.56	0.03640	0.03479	0.03553
3628311.70	0.03796	0.03755	0.03897
3628115.84	0.04272	0.04143	0.04089
3627919.98	0.05086	0.04826	0.04385
3627724.12	0.06117	0.07129	0.04869
3627528.26	0.13356	0.13900	0.06126
3627332.40	0.44301	0.27287	0.07956
3627136.54	0.76568	0.57595	0.23506
3626940.68	1.42220	1.15517	0.81096
3626744.82	1.88780	1.79514	1.54117
3626548.96	1.91935	1.64786	1.42961
3626353.10	1.98908	2.07368	1.56390
3626157.24	2.24001	1.50936	1.76805
3625961.38	2.89912	1.75589	1.96096
3625765.52	2.61929	2.06748	1.92853
3625569.66	2.28441	2.41828	2.10968
3625373.80	1.79558	1.87713	1.77933
3625177.94	1.54466	1.52981	1.55610
3624982.08	1.57040	1.38333	1.58405
3624786.22	1.17554	1.55405	1.46055
3624590.36	1.11949	1.36260	1.25164

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 23

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	3.33898	492919.80
3625834.65	3.31151		
492955.07	3625845.55	3.42196	493069.86
3625832.73	3.48739		
493094.87	3625832.73	3.55506	493110.90
3625837.21	3.65949		
493151.95	3625834.01	3.81633	493166.70
3625837.86	3.90010		
493187.86	3625836.57	3.96972	493201.33
3625836.57	3.99805		
493240.44	3625836.57	4.12528	492881.32
3625908.40	3.78683		
492906.98	3625898.14	3.55789	492901.84
3625911.60	3.82361		
492928.14	3625914.81	3.93503	492933.91
3625898.14	3.61898		
492951.87	3625908.40	3.85835	492973.67
3625907.11	4.06662		
492993.55	3625914.17	4.29598	492996.11
3625897.50	4.18654		
493015.99	3625896.85	3.87958	493023.05

3625912.24	4.07914		
493044.21	3625907.11	4.10272	493066.66
3625907.76	4.47416		
493085.25	3625912.24	4.42483	493087.18
3625895.57	4.31613		
493108.98	3625911.60	4.44662	493112.19
3625897.50	4.37132		
493133.99	3625901.98	4.67666	492874.27
3625788.48	3.35887		
492894.15	3625789.12	3.30663	492910.18
3625790.40	3.32172		
492930.70	3625786.55	3.33648	492947.38
3625791.04	3.34051		
492963.41	3625787.84	3.33166	492982.65
3625787.84	3.32028		
492999.96	3625787.84	3.30215	493021.12
3625791.04	3.29747		
493036.52	3625789.12	3.29604	493055.75
3625789.76	3.32044		
493076.28	3625787.84	3.34710	493094.87
3625787.84	3.38638		
493112.83	3625788.48	3.45597	493129.50
3625787.19	3.52538		
493148.74	3625787.19	3.62176	493164.77
3625790.40	3.71773		
493184.65	3625789.12	3.83024	493201.97
3625791.04	3.90194		
493221.21	3625790.40	3.95180	493238.52
3625791.04	4.04076		
492780.00	3626415.01	97.68543	492778.72
3626388.08	55.55524		
492747.94	3626386.16	52.40525	492742.16
3626418.22	95.50811		
492699.20	3626422.71	94.76737	492697.92
3626391.93	51.77426		
492678.68	3626411.81	64.62638	492626.09
3626426.56	68.42284		
492606.85	3626435.54	114.75896	492599.16
3626405.39	60.83999		
492491.20	3626644.88	30.15654	492517.36
3626636.70	35.08078		
492521.18	3626603.45	40.51505	492521.72
3626582.19	44.23883		
492512.46	3626553.84	47.11111	492513.55
3626533.13	51.17804		
492501.01	3626506.42	52.76006	492490.65
3626485.70	56.49344		
492479.21	3626464.45	60.58201	492466.12
3626447.00	63.53798		
492447.59	3626418.66	50.13424	492431.78

3626430.65	46.16350			
492481.93	3626620.35	31.00234		492482.48
3626594.18	34.05741			
492479.21	3626572.92	36.32944		492477.02
3626546.76	39.76866			
492467.76	3626523.32	40.94115		492463.94
3626507.51	43.04272			
492450.86	3626492.79	44.93981		492427.42
3626474.80	47.54330			

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 24

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	36.19830	492803.94
3626616.07	172.49588		
492823.25	3626567.17	237.07515	492838.34
3626526.92	238.53374		
493039.78	3625834.45	3.51032	492743.19
3626628.92	204.04152		
492791.92	3626663.04	100.51767	492731.11
3626741.92	45.92193		
492774.75	3626728.05	50.55410	492674.05
3626738.96	46.03499		
492708.49	3626698.47	70.43134	492703.25
3626652.75	124.75758		

493013.27 3625844.49 3.57927

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

PAGE 25

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

- - - - -
- - - - -

3628507.56	0.32154	0.31556	0.29573	0.33073	0.33854
0.38454	0.36529	0.36191	0.36840		
3628311.70	0.33085	0.36578	0.35044	0.33454	0.40378
0.44938	0.43543	0.41267	0.39819		
3628115.84	0.33555	0.37389	0.41193	0.39868	0.40749
0.49994	0.58873	0.45940	0.45586		
3627919.98	0.31094	0.37138	0.43237	0.47972	0.48391
0.54226	0.62671	0.58073	0.52472		
3627724.12	0.31910	0.34336	0.41421	0.50236	0.59700
0.57662	0.67909	0.85719	0.55096		
3627528.26	0.36558	0.36601	0.40347	0.48874	0.62025
0.71777	0.66239	0.91463	0.77761		
3627332.40	0.49820	0.52605	0.45445	0.47504	0.56127
0.70068	0.84345	0.96953	1.57172		
3627136.54	0.62376	0.64060	0.68387	0.68906	0.61899
0.63686	0.85529	1.16864	1.57029		
3626940.68	0.65173	0.72677	0.83283	0.95498	1.02588
1.08942	0.98950	1.17534	1.90575		
3626744.82	0.69703	0.86009	0.88743	1.03747	1.12735
1.57016	2.12883	2.71073	2.38918		
3626548.96	0.89599	1.06402	1.11705	1.44610	1.55680
1.74221	2.61891	3.65403	5.77336		
3626353.10	1.01691	1.32408	1.53145	1.65562	2.15379
2.20182	3.41467	5.01742	9.18446		

3626157.24		0.98218	1.19507	1.69105	2.02127	2.59570
3.30447		4.18372	5.58045	6.20871		
3625961.38		1.14737	1.39982	1.66180	2.13785	2.90175
3.32643		3.72300	3.49507	3.11127		
3625765.52		1.34666	1.74759	1.86369	1.91494	2.30461
2.53837		2.39415	2.16380	2.20297		
3625569.66		1.36944	1.70914	2.08181	2.46759	2.26228
2.19409		1.64101	1.48647	1.59523		
3625373.80		1.50588	1.70499	1.72184	2.05020	1.93221
1.80546		1.41057	1.39124	1.50132		
3625177.94		1.44595	1.75918	1.65635	1.45288	1.55102
1.32112		1.23752	1.07764	1.21041		
3624982.08		1.20682	1.39280	1.37530	1.30872	1.17435
1.07072		1.05502	0.98599	1.10419		
3624786.22		1.30011	1.15610	1.11119	1.09197	0.95029
0.94879		0.94925	0.92763	0.93486		
3624590.36		1.03425	0.97091	0.89673	0.85389	0.86487
0.80782		0.84816	0.83876	0.86759		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 26

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)		X-COORD (METERS)				
		492626.08	492820.18	493014.28	493208.38	493402.48
493596.58		493790.68	493984.78	494178.88		

- - - - -
 - - - - -

3628507.56		0.34090	0.36118	0.29894	0.32786	0.27008
0.26282		0.21520	0.27039	0.14551		
3628311.70		0.36279	0.40982	0.34184	0.33853	0.31196
0.28636		0.24307	0.32920	0.11965		
3628115.84		0.41042	0.42499	0.40316	0.42949	0.36094
0.29702		0.33634	0.33596	0.13563		
3627919.98		0.43432	0.50912	0.45065	0.48141	0.39880
0.35717		0.38349	0.24373	0.15301		

3627724.12	0.51113	0.75875	0.68870	0.54505	0.40762
0.46454	0.42725	0.33628	0.19367		
3627528.26	0.75559	0.79695	0.83025	0.63853	0.56924
0.50585	0.46061	0.46850	0.32857		
3627332.40	1.00134	1.08353	1.04355	0.76620	0.71601
0.60151	0.56555	0.56453	0.46965		
3627136.54	1.27554	1.32230	1.07481	0.86067	0.74532
0.77531	0.69773	0.53262	0.45003		
3626940.68	3.12219	2.17001	1.66008	1.25607	1.16347
0.92181	0.76889	0.62256	0.55474		
3626744.82	3.68283	5.05013	3.94743	2.75987	1.71605
1.10553	0.89471	0.74616	0.68400		
3626548.96	12.37039	74.07129	12.96716	5.89666	3.17674
2.09423	1.66231	1.30281	0.98766		
3626353.10	16.23870	13.73169	17.10800	13.54584	6.26606
3.62880	2.42665	1.82923	1.40538		
3626157.24	5.35019	6.18222	9.13169	9.32257	7.27210
5.67630	3.80341	2.61596	1.89618		
3625961.38	3.05920	3.77750	5.01746	5.91288	5.56650
4.72868	4.24671	3.42747	2.61537		
3625765.52	2.22896	2.73781	3.28675	3.95717	4.40076
3.90391	3.47268	3.14894	2.88270		
3625569.66	1.68807	1.95580	2.38965	3.00202	3.15295
3.28350	2.95488	2.73586	2.51231		
3625373.80	1.56641	1.76142	1.56276	2.18870	2.36963
2.77252	2.53564	2.35763	2.23491		
3625177.94	1.31583	1.46087	1.46157	1.97192	2.07632
2.22036	2.24939	2.00534	1.94035		
3624982.08	1.12085	1.23026	1.22945	1.63739	1.72268
1.81574	1.93970	1.84772	1.64549		
3624786.22	0.94177	1.08086	1.08935	1.36933	1.48273
1.55014	1.64307	1.67801	1.51188		
3624590.36	0.89264	0.97178	0.95640	1.17137	1.31181
1.35422	1.40976	1.49262	1.42051		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 27

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1
 INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)		
	494372.98	494567.08	494761.18
3628507.56	0.09634	0.09070	0.08905
3628311.70	0.10451	0.09646	0.09708
3628115.84	0.11090	0.10684	0.10474
3627919.98	0.13085	0.12493	0.11683
3627724.12	0.16208	0.19724	0.13978
3627528.26	0.32441	0.30451	0.14728
3627332.40	0.38152	0.37292	0.19445
3627136.54	0.43117	0.39360	0.38821
3626940.68	0.48005	0.43540	0.40137
3626744.82	0.62036	0.60183	0.53420
3626548.96	0.86182	0.75118	0.66084
3626353.10	1.22210	1.06578	0.89509
3626157.24	1.41318	1.17661	0.99431
3625961.38	2.03873	1.58460	1.33278
3625765.52	2.38652	1.98912	1.61891
3625569.66	2.32120	2.16343	1.83473
3625373.80	2.08467	1.91478	1.82312
3625177.94	1.87389	1.77959	1.63481
3624982.08	1.63625	1.60224	1.56868
3624786.22	1.36941	1.40036	1.40237
3624590.36	1.22307	1.17673	1.19904

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 28

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1
*** INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

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

492883.25	3625830.80	2.98017	492919.80
3625834.65	2.99983		
492955.07	3625845.55	3.33549	493069.86
3625832.73	4.00969		
493094.87	3625832.73	4.09622	493110.90
3625837.21	4.18331		
493151.95	3625834.01	4.29100	493166.70
3625837.86	4.37133		
493187.86	3625836.57	4.43413	493201.33
3625836.57	4.48265		
493240.44	3625836.57	4.62700	492881.32
3625908.40	3.39091		
492906.98	3625898.14	3.37231	492901.84
3625911.60	3.47036		
492928.14	3625914.81	3.60031	492933.91
3625898.14	3.52995		
492951.87	3625908.40	3.82067	492973.67
3625907.11	4.04579		
492993.55	3625914.17	4.31178	492996.11
3625897.50	4.16494		
493015.99	3625896.85	4.30732	493023.05
3625912.24	4.50943		
493044.21	3625907.11	4.56640	493066.66
3625907.76	4.67101		
493085.25	3625912.24	4.78763	493087.18
3625895.57	4.61730		
493108.98	3625911.60	4.86717	493112.19
3625897.50	4.72399		
493133.99	3625901.98	4.85586	492874.27
3625788.48	2.82171		
492894.15	3625789.12	2.81234	492910.18
3625790.40	2.77274		
492930.70	3625786.55	2.80655	492947.38
3625791.04	2.91401		
492963.41	3625787.84	3.02665	492982.65
3625787.84	3.18297		
492999.96	3625787.84	3.31819	493021.12
3625791.04	3.48629		
493036.52	3625789.12	3.56547	493055.75
3625789.76	3.66291		
493076.28	3625787.84	3.72974	493094.87
3625787.84	3.78956		
493112.83	3625788.48	3.84815	493129.50
3625787.19	3.88802		
493148.74	3625787.19	3.94173	493164.77
3625790.40	4.00788		
493184.65	3625789.12	4.05479	493201.97
3625791.04	4.11815		
493221.21	3625790.40	4.17142	493238.52
3625791.04	4.23311		

492780.00	3626415.01	23.71298	492778.72
3626388.08	18.16747		
492747.94	3626386.16	18.88149	492742.16
3626418.22	27.26540		
492699.20	3626422.71	28.27020	492697.92
3626391.93	21.99014		
492678.68	3626411.81	24.95353	492626.09
3626426.56	21.46745		
492606.85	3626435.54	19.65863	492599.16
3626405.39	18.53936		
492491.20	3626644.88	5.77980	492517.36
3626636.70	6.29046		
492521.18	3626603.45	7.15963	492521.72
3626582.19	7.68810		
492512.46	3626553.84	8.12202	492513.55
3626533.13	8.82074		
492501.01	3626506.42	9.08208	492490.65
3626485.70	9.39437		
492479.21	3626464.45	9.60654	492466.12
3626447.00	9.36755		
492447.59	3626418.66	9.12839	492431.78
3626430.65	8.31947		
492481.93	3626620.35	6.00215	492482.48
3626594.18	6.36773		
492479.21	3626572.92	6.73543	492477.02
3626546.76	7.28588		
492467.76	3626523.32	7.53949	492463.94
3626507.51	7.88916		
492450.86	3626492.79	7.83895	492427.42
3626474.80	7.66953		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 29

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

```

- - - - -
- - - - -
      492402.89      3626460.63      7.07227      492803.94
3626616.07      10.62009
      492823.25      3626567.17      53.40667      492838.34
3626526.92      62.27349
      493039.78      3625834.45      3.89554      492743.19
3626628.92      6.19066
      492791.92      3626663.04      6.61240      492731.11
3626741.92      6.47606
      492774.75      3626728.05      4.10663      492674.05
3626738.96      5.56098
      492708.49      3626698.47      5.90531      492703.25
3626652.75      4.19853
      493013.27      3625844.49      3.81600

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

```

PAGE 30

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

```

*** THE PERIOD ( 26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***
INCLUDING SOURCE(S): STCK2 ,

```

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

```

      Y-COORD |
      (METERS) |      490879.18      491073.28      491267.38      491461.48      491655.58
491849.68      492043.78      492237.88      492431.98

```

```

- - - - -
- - - - -
      3628507.56 |      0.19588      0.21880      0.23532      0.23619      0.25745
0.25350      0.24037      0.20846      0.24338
      3628311.70 |      0.21730      0.22590      0.25745      0.25975      0.28322
0.28674      0.28788      0.24844      0.25856
      3628115.84 |      0.25409      0.25146      0.26915      0.30551      0.29831
0.32966      0.32206      0.29589      0.27852
      3627919.98 |      0.28206      0.29108      0.28211      0.31734      0.34239
0.36838      0.36795      0.35404      0.29798
      3627724.12 |      0.30721      0.32721      0.33350      0.33391      0.37992
0.39513      0.42146      0.41883      0.33782

```


3627528.26	0.31207	0.34674	0.38076	0.39357	0.39289
0.44654	0.46804	0.47808	0.43298		
3627332.40	0.28649	0.35443	0.41027	0.45347	0.45079
0.46920	0.51995	0.57281	0.59046		
3627136.54	0.30115	0.32434	0.39750	0.48517	0.52850
0.53169	0.56531	0.61657	0.64933		
3626940.68	0.39441	0.38919	0.38491	0.44122	0.55847
0.63803	0.64901	0.72112	0.79381		
3626744.82	0.41285	0.48650	0.51229	0.48725	0.51894
0.68879	0.85131	0.89926	0.94194		
3626548.96	0.49977	0.53715	0.56578	0.65703	0.67997
0.66756	0.94026	1.18686	1.20178		
3626353.10	0.54943	0.63623	0.71354	0.75753	0.90586
0.90444	1.08378	1.29642	1.82532		
3626157.24	0.54700	0.62968	0.76726	0.90179	1.09619
1.24435	1.42136	1.80087	2.00946		
3625961.38	0.57919	0.65066	0.76895	0.89161	1.10532
1.32554	1.54446	2.03257	2.89153		
3625765.52	0.76481	0.90766	1.07253	1.24347	1.49697
1.80177	2.29157	3.03697	4.76919		
3625569.66	0.89978	1.07337	1.29439	1.54285	1.75936
2.18916	2.78116	4.06735	6.05983		
3625373.80	0.96045	1.16054	1.37229	1.88627	2.50798
3.20663	3.56713	4.58677	5.38791		
3625177.94	1.16724	1.59391	1.89955	2.18646	2.78308
3.29155	3.71335	3.12388	3.18519		
3624982.08	1.43051	1.77169	1.97042	2.29402	2.72113
2.80295	2.63906	2.14836	2.05352		
3624786.22	1.51827	1.69327	2.04254	2.28618	2.16081
2.10168	1.88610	1.51989	1.50174		
3624590.36	1.53090	1.74955	1.76487	1.75014	1.66964
1.60499	1.40853	1.33579	1.27897		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:55:07

PAGE 31

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)	
	492626.08	492820.18	493014.28		493208.38	493402.48
493596.58	493790.68	493984.78	494178.88			

- - - - -

3628507.56	0.27894	0.24441	0.21078	0.19851	0.20349
0.20036	0.17549	0.17765	0.11292		
3628311.70	0.29754	0.28518	0.23129	0.22222	0.22582
0.21727	0.20579	0.19991	0.07453		
3628115.84	0.33309	0.29322	0.26139	0.27397	0.26998
0.23664	0.23848	0.21278	0.07934		
3627919.98	0.34607	0.34324	0.29945	0.30921	0.31552
0.26014	0.26791	0.26291	0.10056		
3627724.12	0.37994	0.45392	0.38595	0.34398	0.31982
0.30258	0.28160	0.27221	0.16862		
3627528.26	0.44728	0.46038	0.43606	0.42239	0.39605
0.31979	0.28432	0.27842	0.33550		
3627332.40	0.47978	0.54768	0.49982	0.47012	0.44304
0.38236	0.31406	0.34272	0.28665		
3627136.54	0.54555	0.61589	0.53771	0.48971	0.40479
0.38271	0.41855	0.37992	0.30690		
3626940.68	0.71533	0.73408	0.66559	0.59908	0.48514
0.41055	0.45016	0.34234	0.34019		
3626744.82	1.05338	0.96025	0.89451	0.78186	0.60932
0.52960	0.43724	0.38773	0.34639		
3626548.96	1.34338	1.39046	1.24590	1.11772	0.84734
0.64055	0.58056	0.51104	0.43877		
3626353.10	2.15961	2.27416	1.88909	1.51637	1.20605
0.96986	0.83960	0.59872	0.46713		
3626157.24	2.91868	4.27781	4.03158	2.75009	2.05076
1.36153	0.99707	0.79025	0.69238		
3625961.38	4.67305	8.05215	12.57255	7.62526	3.35796
1.96631	1.36849	1.10629	0.95789		
3625765.52	8.12736	28.47545	46.24789	25.82185	7.55679
3.91811	2.62360	1.95773	1.55194		
3625569.66	8.76498	7.83973	10.29936	10.64646	8.14672
6.06859	3.68649	2.54467	1.82094		
3625373.80	4.18261	4.31217	3.90185	4.51655	4.39063
4.27344	4.17346	3.29114	2.58648		
3625177.94	2.46528	2.74363	2.93863	3.13972	3.62777
3.23229	3.12881	3.01656	2.75672		
3624982.08	2.03196	2.12023	2.27357	2.41097	2.54220
2.59774	2.50387	2.32937	2.22366		
3624786.22	1.49386	1.77880	1.84083	1.98526	1.99741
2.22392	2.00111	2.01075	1.86243		
3624590.36	1.36017	1.40121	1.50828	1.55943	1.61343
1.62853	1.86522	1.59049	1.65695		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 32

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)		
	494372.98	494567.08	494761.18

3628507.56	0.05619	0.06943	0.07656
3628311.70	0.07063	0.07663	0.07988
3628115.84	0.08866	0.08699	0.07337
3627919.98	0.10574	0.09698	0.07556
3627724.12	0.13369	0.16037	0.09814
3627528.26	0.28600	0.24844	0.12854
3627332.40	0.26653	0.23538	0.18314
3627136.54	0.29960	0.28558	0.23827
3626940.68	0.31481	0.29081	0.30949
3626744.82	0.35769	0.31293	0.26510
3626548.96	0.33449	0.30054	0.28396
3626353.10	0.45978	0.38600	0.36592
3626157.24	0.56789	0.50291	0.39115
3625961.38	0.73202	0.72791	0.58366
3625765.52	1.18169	1.01137	0.77443
3625569.66	1.45629	1.13522	0.96326
3625373.80	2.00201	1.53900	1.24019
3625177.94	2.27077	1.93405	1.52617
3624982.08	2.22641	2.02096	1.69908
3624786.22	1.72144	1.75620	1.72411
3624590.36	1.55702	1.31157	1.40776

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 33

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM ₁₀ IN MICROGRAMS/M**3			
**			
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

492883.25	3625830.80	29.32408	492919.80
3625834.65	34.02772		
492955.07	3625845.55	24.61279	493069.86
3625832.73	104.37471		
493094.87	3625832.73	68.58691	493110.90
3625837.21	43.04331		
493151.95	3625834.01	27.86336	493166.70
3625837.86	22.57731		
493187.86	3625836.57	18.77872	493201.33
3625836.57	16.71680		
493240.44	3625836.57	12.82748	492881.32
3625908.40	12.62236		
492906.98	3625898.14	14.39100	492901.84
3625911.60	13.52802		
492928.14	3625914.81	14.48502	492933.91
3625898.14	15.41414		
492951.87	3625908.40	15.37192	492973.67
3625907.11	16.09717		
492993.55	3625914.17	16.93656	492996.11
3625897.50	17.51980		
493015.99	3625896.85	21.80806	493023.05
3625912.24	19.61069		
493044.21	3625907.11	21.21187	493066.66
3625907.76	21.68297		
493085.25	3625912.24	17.95507	493087.18
3625895.57	23.76327		
493108.98	3625911.60	17.01445	493112.19
3625897.50	19.32664		
493133.99	3625901.98	16.28261	492874.27
3625788.48	38.36979		
492894.15	3625789.12	44.42750	492910.18
3625790.40	48.88805		
492930.70	3625786.55	51.56574	492947.38
3625791.04	54.95082		
492963.41	3625787.84	50.39496	492982.65
3625787.84	51.22654		

492999.96	3625787.84	58.24440	493021.12
3625791.04	78.47407		
493036.52	3625789.12	80.12173	493055.75
3625789.76	85.24800		
493076.28	3625787.84	86.28154	493094.87
3625787.84	77.03139		
493112.83	3625788.48	57.98634	493129.50
3625787.19	50.03636		
493148.74	3625787.19	41.37317	493164.77
3625790.40	35.25945		
493184.65	3625789.12	29.17839	493201.97
3625791.04	24.76927		
493221.21	3625790.40	20.85268	493238.52
3625791.04	17.66427		
492780.00	3626415.01	1.94262	492778.72
3626388.08	2.09457		
492747.94	3626386.16	2.13559	492742.16
3626418.22	1.98703		
492699.20	3626422.71	1.97406	492697.92
3626391.93	2.10233		
492678.68	3626411.81	2.01261	492626.09
3626426.56	1.91171		
492606.85	3626435.54	1.81247	492599.16
3626405.39	1.92338		
492491.20	3626644.88	1.18416	492517.36
3626636.70	1.21786		
492521.18	3626603.45	1.28664	492521.72
3626582.19	1.31151		
492512.46	3626553.84	1.35557	492513.55
3626533.13	1.38178		
492501.01	3626506.42	1.40547	492490.65
3626485.70	1.44812		
492479.21	3626464.45	1.50091	492466.12
3626447.00	1.56374		
492447.59	3626418.66	1.68274	492431.78
3626430.65	1.62496		
492481.93	3626620.35	1.21447	492482.48
3626594.18	1.25617		
492479.21	3626572.92	1.28453	492477.02
3626546.76	1.31394		
492467.76	3626523.32	1.34700	492463.94
3626507.51	1.36181		
492450.86	3626492.79	1.39817	492427.42
3626474.80	1.46135		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	1.54147	492803.94
3626616.07	1.24863		
492823.25	3626567.17	1.33111	492838.34
3626526.92	1.44492		
493039.78	3625834.45	156.36088	492743.19
3626628.92	1.23533		
492791.92	3626663.04	1.12408	492731.11
3626741.92	0.98843		
492774.75	3626728.05	1.00739	492674.05
3626738.96	1.06542		
492708.49	3626698.47	1.12051	492703.25
3626652.75	1.23532		
493013.27	3625844.49	107.83633	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 35

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
490879.18	491073.28
491267.38	491461.48
491655.58	

491849.68 492043.78 492237.88 492431.98

- - - - -
- - - - -

3628507.56		0.32039	0.31404	0.30833	0.35349	0.37500
0.41839		0.41662	0.36880	0.40716		
3628311.70		0.33479	0.36938	0.35239	0.35977	0.41227
0.46497		0.48034	0.43369	0.43647		
3628115.84		0.33156	0.37303	0.41931	0.41208	0.45833
0.53085		0.55750	0.51644	0.49187		
3627919.98		0.31425	0.36373	0.43574	0.48535	0.51766
0.59232		0.60091	0.64715	0.56560		
3627724.12		0.37203	0.36875	0.41943	0.50787	0.62962
0.65187		0.66324	0.80050	0.61249		
3627528.26		0.46229	0.49464	0.47398	0.52170	0.64063
0.76796		0.75869	0.83816	0.91800		
3627332.40		0.48440	0.52644	0.60261	0.67631	0.66242
0.72651		0.90641	1.12338	1.42795		
3627136.54		0.59337	0.59776	0.64660	0.71443	0.82451
0.90828		0.96747	1.30674	1.64354		
3626940.68		0.61760	0.71385	0.77737	0.92596	1.01118
1.08058		1.33919	1.73387	2.41727		
3626744.82		0.71418	0.87922	0.92562	1.07161	1.23436
1.78667		2.39839	3.37498	3.88607		
3626548.96		0.96253	1.16714	1.25144	1.71235	1.87353
2.17136		3.45889	5.44029	9.74709		
3626353.10		1.00813	1.33542	1.56661	1.76052	2.39801
2.61114		4.36409	7.19361	8.77513		
3626157.24		1.03059	1.26768	1.81033	2.33716	2.92974
3.77920		4.36206	4.23646	3.92231		
3625961.38		1.21014	1.46267	1.78579	2.18160	3.13969
2.96745		2.49701	2.37074	2.16641		
3625765.52		1.42729	1.78880	1.97919	1.93612	1.90384
1.75770		1.66846	1.47663	1.57707		
3625569.66		1.51366	1.73139	1.89685	1.80090	1.60564
1.49289		1.15674	1.15410	1.21529		
3625373.80		1.40502	1.46269	1.34604	1.38449	1.30461
1.16021		1.03815	1.02985	1.11835		
3625177.94		1.18717	1.27840	1.21171	1.08391	1.04714
0.93464		0.91546	0.86372	0.95370		
3624982.08		0.96736	1.04062	0.99077	0.92028	0.82483
0.81737		0.80891	0.80477	0.85687		
3624786.22		0.94048	0.85808	0.85515	0.75817	0.73209
0.74007		0.73359	0.71701	0.76722		
3624590.36		0.80476	0.76495	0.69198	0.64201	0.65724
0.65692		0.66520	0.67110	0.70948		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:55:07

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56		0.39584	0.34919	0.32057	0.31259	0.27352
0.23581		0.21639	0.26609	0.16418		
3628311.70		0.44531	0.39790	0.34688	0.32380	0.29998
0.25152		0.26706	0.30164	0.15122		
3628115.84		0.50826	0.42175	0.41442	0.38771	0.32679
0.29600		0.31068	0.30956	0.16965		
3627919.98		0.53682	0.49570	0.46469	0.43200	0.35007
0.36282		0.32951	0.28076	0.17323		
3627724.12		0.63009	0.66385	0.60882	0.48841	0.42011
0.40558		0.38814	0.35132	0.23380		
3627528.26		0.92577	0.79018	0.73718	0.57017	0.54528
0.46495		0.43241	0.48023	0.39941		
3627332.40		1.28353	1.11565	0.98006	0.79340	0.65728
0.59288		0.60742	0.60081	0.51799		
3627136.54		1.69281	1.46516	1.11183	0.90434	0.79604
0.88463		0.79161	0.66409	0.56657		
3626940.68		3.32553	2.82287	1.93649	1.43868	1.26860
1.09682		0.99277	0.79012	0.77305		
3626744.82		6.86150	7.35639	4.72471	2.97246	2.35787
1.57100		1.30842	1.09583	0.96682		
3626548.96		22.58794	19.69953	13.20646	9.73018	5.72259
3.34117		2.76874	2.03741	1.38543		
3626353.10		7.73136	7.56843	7.87071	7.20074	4.86851
3.34944		2.88869	2.49586	1.83896		
3626157.24		3.63520	3.92096	4.39522	4.16112	3.80135
3.42591		2.72698	2.02860	1.68282		
3625961.38		2.34585	2.50237	2.75349	2.84097	2.65158
2.51701		2.40744	2.22929	1.86380		
3625765.52		1.66771	1.78219	1.98724	2.10364	2.08977
1.96454		1.92921	1.77427	1.76384		

3625569.66	1.32501	1.35852	1.56509	1.60220	1.68635
1.62831	1.56808	1.54655	1.40252		
3625373.80	1.16195	1.17680	1.20203	1.27806	1.33230
1.43633	1.28714	1.28042	1.28854		
3625177.94	1.00182	1.01476	1.06491	1.14268	1.13398
1.21988	1.19771	1.10968	1.10016		
3624982.08	0.90035	0.89072	0.92331	0.99481	0.98458
1.03341	1.08287	1.01033	0.94714		
3624786.22	0.77676	0.78601	0.80098	0.88692	0.87700
0.88179	0.94922	0.94916	0.87281		
3624590.36	0.70755	0.71445	0.71468	0.79466	0.77556
0.76371	0.79148	0.85328	0.81535		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 37

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)		
	494372.98	494567.08	494761.18

3628507.56	0.12243	0.11775	0.11210
3628311.70	0.12854	0.11807	0.11906
3628115.84	0.13317	0.12587	0.13234
3627919.98	0.16091	0.15670	0.14303
3627724.12	0.19675	0.21665	0.14644
3627528.26	0.36243	0.34474	0.17338
3627332.40	0.44981	0.42698	0.23080
3627136.54	0.51769	0.48402	0.47544
3626940.68	0.69716	0.63897	0.58774
3626744.82	0.88403	0.87342	0.77041
3626548.96	1.16685	1.01057	0.88578
3626353.10	1.65265	1.39695	1.16284
3626157.24	1.53310	1.41317	1.24929
3625961.38	1.52891	1.26181	1.12345
3625765.52	1.60667	1.37705	1.18372

3625569.66	1.37270	1.35082	1.27078
3625373.80	1.18277	1.13119	1.14154
3625177.94	1.09449	1.00259	0.93836
3624982.08	0.94494	0.94378	0.87662
3624786.22	0.81933	0.83443	0.83396
3624590.36	0.74870	0.73461	0.74788

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 38

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	2.04245	492919.80
3625834.65	2.09525		
492955.07	3625845.55	2.17430	493069.86
3625832.73	2.19669		
493094.87	3625832.73	2.21575	493110.90
3625837.21	2.24572		
493151.95	3625834.01	2.28174	493166.70
3625837.86	2.31350		
493187.86	3625836.57	2.32573	493201.33
3625836.57	2.33766		
493240.44	3625836.57	2.36215	492881.32
3625908.40	2.34213		
492906.98	3625898.14	2.33518	492901.84
3625911.60	2.38241		
492928.14	3625914.81	2.42507	492933.91
3625898.14	2.36372		
492951.87	3625908.40	2.44398	492973.67
3625907.11	2.46122		
492993.55	3625914.17	2.49835	492996.11
3625897.50	2.42568		
493015.99	3625896.85	2.43667	493023.05
3625912.24	2.50652		

493044.21	3625907.11	2.49157	493066.66
3625907.76	2.51016		
493085.25	3625912.24	2.53867	493087.18
3625895.57	2.46994		
493108.98	3625911.60	2.57337	493112.19
3625897.50	2.49681		
493133.99	3625901.98	2.54350	492874.27
3625788.48	1.88548		
492894.15	3625789.12	1.91117	492910.18
3625790.40	1.93379		
492930.70	3625786.55	1.93476	492947.38
3625791.04	1.97311		
492963.41	3625787.84	1.98549	492982.65
3625787.84	2.01970		
492999.96	3625787.84	2.03090	493021.12
3625791.04	2.06050		
493036.52	3625789.12	2.05539	493055.75
3625789.76	2.06570		
493076.28	3625787.84	2.06853	493094.87
3625787.84	2.06653		
493112.83	3625788.48	2.09111	493129.50
3625787.19	2.08816		
493148.74	3625787.19	2.11828	493164.77
3625790.40	2.13209		
493184.65	3625789.12	2.16480	493201.97
3625791.04	2.19291		
493221.21	3625790.40	2.19896	493238.52
3625791.04	2.20309		
492780.00	3626415.01	9.96885	492778.72
3626388.08	8.68508		
492747.94	3626386.16	8.62802	492742.16
3626418.22	10.35073		
492699.20	3626422.71	11.01148	492697.92
3626391.93	9.14325		
492678.68	3626411.81	10.40878	492626.09
3626426.56	12.07517		
492606.85	3626435.54	13.01068	492599.16
3626405.39	10.75272		
492491.20	3626644.88	9.68212	492517.36
3626636.70	11.13667		
492521.18	3626603.45	13.55253	492521.72
3626582.19	14.63647		
492512.46	3626553.84	14.61733	492513.55
3626533.13	15.08807		
492501.01	3626506.42	14.85398	492490.65
3626485.70	14.73069		
492479.21	3626464.45	14.34226	492466.12
3626447.00	13.48283		
492447.59	3626418.66	12.10384	492431.78
3626430.65	11.95279		

492481.93	3626620.35	10.24981	492482.48
3626594.18	11.61150		
492479.21	3626572.92	12.16840	492477.02
3626546.76	12.75348		
492467.76	3626523.32	12.72160	492463.94
3626507.51	12.78664		
492450.86	3626492.79	12.54188	492427.42
3626474.80	11.89279		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apol1\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 39

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	11.02082	492803.94
3626616.07	24.14557		
492823.25	3626567.17	21.21542	492838.34
3626526.92	18.25764		
493039.78	3625834.45	2.18902	492743.19
3626628.92	31.24346		
492791.92	3626663.04	21.16517	492731.11
3626741.92	8.91361		
492774.75	3626728.05	9.23973	492674.05
3626738.96	8.70120		
492708.49	3626698.47	13.39564	492703.25
3626652.75	29.20766		
493013.27	3625844.49	2.22105	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apol1\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 40

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

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

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

**

Y-COORD (METERS)	X-COORD (METERS)				
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	0.30947	0.31732	0.31966	0.34917	0.37066
0.39940	0.40910	0.36791	0.40563		
3628311.70	0.32006	0.35086	0.36249	0.37518	0.41632
0.46565	0.47390	0.43248	0.43540		
3628115.84	0.31188	0.35923	0.40653	0.42501	0.46802
0.53814	0.54805	0.52248	0.49160		
3627919.98	0.30996	0.34436	0.41259	0.48081	0.54295
0.60731	0.61045	0.65790	0.56978		
3627724.12	0.38521	0.37682	0.40149	0.50431	0.62169
0.69265	0.67562	0.82415	0.62590		
3627528.26	0.45573	0.48693	0.50170	0.54322	0.62804
0.76338	0.79461	0.86479	0.97678		
3627332.40	0.53679	0.57757	0.63160	0.68566	0.70220
0.71280	0.88205	1.21584	1.60002		
3627136.54	0.54574	0.61546	0.70177	0.79277	0.89453
0.96611	1.03525	1.32507	1.82869		
3626940.68	0.57766	0.64148	0.72916	0.83143	0.98232
1.20090	1.59401	2.10052	2.83768		
3626744.82	0.82311	0.96251	1.03467	1.19894	1.31963
1.85950	2.61505	4.00152	5.84216		
3626548.96	1.03388	1.20103	1.27443	1.65074	1.90511
2.36820	3.88404	6.59112	11.99048		
3626353.10	0.99844	1.33107	1.57825	1.85701	2.42263
2.93984	4.47047	5.81398	5.82346		
3626157.24	1.08626	1.39664	1.90708	2.21223	2.67050
3.14318	3.47737	3.30702	2.88968		
3625961.38	1.30183	1.41131	1.66894	2.11383	2.44685
2.45359	2.16013	1.92183	1.93812		
3625765.52	1.27299	1.71154	1.80989	1.67336	1.67831
1.57154	1.41967	1.34137	1.44773		
3625569.66	1.43335	1.59724	1.66654	1.57629	1.44365
1.29370	1.05002	1.09479	1.15717		

3625373.80	1.28296	1.32414	1.23774	1.24341	1.14342
1.00736	0.97734	1.01290	1.03853		
3625177.94	1.03042	1.18079	1.10856	0.99345	0.90327
0.85884	0.86899	0.84824	0.91878		
3624982.08	0.92337	0.97230	0.91233	0.82220	0.77000
0.76427	0.77926	0.76165	0.83733		
3624786.22	0.87931	0.79819	0.77518	0.69961	0.68985
0.69401	0.69625	0.68686	0.76933		
3624590.36	0.74273	0.71187	0.62690	0.62643	0.62848
0.64157	0.62966	0.64315	0.70213		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 41

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	0.45709	0.46706	0.47799	0.51411	0.43208
0.37764	0.38914	0.40289	0.17524		
3628311.70	0.50656	0.54327	0.53948	0.48645	0.47924
0.43843	0.46422	0.37053	0.16539		
3628115.84	0.57254	0.56571	0.67562	0.65585	0.53659
0.55184	0.51135	0.36971	0.18745		
3627919.98	0.60424	0.69770	0.76715	0.73047	0.65485
0.63740	0.53436	0.31200	0.21106		
3627724.12	0.70600	1.11687	1.15140	0.85747	0.80333
0.66973	0.59946	0.40065	0.27014		
3627528.26	1.05385	1.22151	1.35915	1.09753	0.92766
0.75006	0.66596	0.54522	0.35300		
3627332.40	1.41357	1.79441	1.66400	1.42569	1.07581
0.87962	0.69045	0.55535	0.47939		
3627136.54	1.94613	2.76494	2.03708	1.40593	1.04051
0.83750	0.73246	0.60828	0.48941		

3626940.68	4.28283	5.50489	3.33484	1.76733	1.29062
1.01190	0.79525	0.66859	0.58434		
3626744.82	16.18837	18.59782	7.76343	3.84215	2.41512
1.50753	1.16573	0.95665	0.80919		
3626548.96	14.63058	14.93002	14.90661	8.04046	4.13248
2.44812	1.72324	1.33852	1.04861		
3626353.10	5.29010	6.22339	6.85280	6.11921	4.90910
3.52747	2.50360	1.82661	1.38639		
3626157.24	3.11267	3.39579	3.77992	3.69649	3.41380
3.12383	2.75151	2.25770	1.82390		
3625961.38	2.13385	2.23696	2.48480	2.58534	2.47554
2.39388	2.23139	2.11680	1.94055		
3625765.52	1.59856	1.63999	1.86057	1.96113	1.99196
1.90829	1.85555	1.70843	1.67209		
3625569.66	1.29694	1.29570	1.48234	1.55736	1.61482
1.60292	1.53618	1.52548	1.39947		
3625373.80	1.12033	1.10967	1.19672	1.29481	1.34055
1.37663	1.30833	1.29130	1.29188		
3625177.94	0.97115	0.95909	1.02761	1.10858	1.15473
1.18228	1.19505	1.13045	1.09487		
3624982.08	0.85652	0.86229	0.88713	0.97635	1.01707
1.02226	1.07482	1.02591	0.97799		
3624786.22	0.76330	0.75221	0.79854	0.88682	0.87466
0.89862	0.93155	0.95126	0.90294		
3624590.36	0.67759	0.67022	0.70573	0.78019	0.77921
0.80469	0.80491	0.85218	0.84645		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 42

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)	X-COORD (METERS)		
	494372.98	494567.08	494761.18

3628507.56	0.13618	0.12827	0.11832

3628311.70	0.15036	0.13769	0.13655
3628115.84	0.16637	0.15647	0.15074
3627919.98	0.19454	0.17623	0.14842
3627724.12	0.21513	0.20797	0.15480
3627528.26	0.30042	0.28482	0.19027
3627332.40	0.42325	0.37883	0.22886
3627136.54	0.45867	0.42309	0.37663
3626940.68	0.51824	0.47057	0.43853
3626744.82	0.71191	0.62167	0.55505
3626548.96	0.89142	0.77445	0.69150
3626353.10	1.08981	0.88948	0.76479
3626157.24	1.46629	1.18141	0.99788
3625961.38	1.63255	1.40073	1.19252
3625765.52	1.61096	1.46993	1.28249
3625569.66	1.35493	1.32096	1.29285
3625373.80	1.20226	1.13025	1.12624
3625177.94	1.11520	1.04120	0.99027
3624982.08	0.97586	0.97909	0.90752
3624786.22	0.85760	0.87285	0.87704
3624590.36	0.79258	0.74324	0.78340

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 43

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

X-COORD (M)		Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)		CONC		
492883.25	3625830.80	1.86943	492919.80	
3625834.65	1.91417			
492955.07	3625845.55	1.97453	493069.86	
3625832.73	2.04761			
493094.87	3625832.73	2.05638	493110.90	
3625837.21	2.08468			
493151.95	3625834.01	2.10994	493166.70	
3625837.86	2.12988			

493187.86	3625836.57	2.14148	493201.33
3625836.57	2.14797		
493240.44	3625836.57	2.15919	492881.32
3625908.40	2.12888		
492906.98	3625898.14	2.11364	492901.84
3625911.60	2.15202		
492928.14	3625914.81	2.18544	492933.91
3625898.14	2.11909		
492951.87	3625908.40	2.19739	492973.67
3625907.11	2.24978		
492993.55	3625914.17	2.29069	492996.11
3625897.50	2.21927		
493015.99	3625896.85	2.22868	493023.05
3625912.24	2.28409		
493044.21	3625907.11	2.27456	493066.66
3625907.76	2.28440		
493085.25	3625912.24	2.31750	493087.18
3625895.57	2.24284		
493108.98	3625911.60	2.32046	493112.19
3625897.50	2.28520		
493133.99	3625901.98	2.29868	492874.27
3625788.48	1.73514		
492894.15	3625789.12	1.75958	492910.18
3625790.40	1.78074		
492930.70	3625786.55	1.77763	492947.38
3625791.04	1.79670		
492963.41	3625787.84	1.81908	492982.65
3625787.84	1.85508		
492999.96	3625787.84	1.87821	493021.12
3625791.04	1.92454		
493036.52	3625789.12	1.92639	493055.75
3625789.76	1.94076		
493076.28	3625787.84	1.94642	493094.87
3625787.84	1.94277		
493112.83	3625788.48	1.96288	493129.50
3625787.19	1.95936		
493148.74	3625787.19	1.97516	493164.77
3625790.40	1.99202		
493184.65	3625789.12	2.00494	493201.97
3625791.04	2.01713		
493221.21	3625790.40	2.02675	493238.52
3625791.04	2.03943		
492780.00	3626415.01	7.85949	492778.72
3626388.08	6.98423		
492747.94	3626386.16	6.73210	492742.16
3626418.22	7.62426		
492699.20	3626422.71	7.38994	492697.92
3626391.93	6.48752		
492678.68	3626411.81	6.89523	492626.09
3626426.56	7.16988		

492606.85	3626435.54	7.57712	492599.16
3626405.39	6.52768		
492491.20	3626644.88	15.70983	492517.36
3626636.70	18.06057		
492521.18	3626603.45	17.88029	492521.72
3626582.19	16.89814		
492512.46	3626553.84	14.89387	492513.55
3626533.13	13.62401		
492501.01	3626506.42	11.86849	492490.65
3626485.70	10.68915		
492479.21	3626464.45	9.61969	492466.12
3626447.00	8.82236		
492447.59	3626418.66	7.72281	492431.78
3626430.65	8.15675		
492481.93	3626620.35	15.48804	492482.48
3626594.18	15.33933		
492479.21	3626572.92	14.61591	492477.02
3626546.76	13.53123		
492467.76	3626523.32	12.31727	492463.94
3626507.51	11.54102		
492450.86	3626492.79	10.74375	492427.42
3626474.80	9.78846		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 44

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

X-COORD (M)		Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)		CONC		
- - - - -				
492402.89	3626460.63	9.02773		492803.94
3626616.07	17.86864			
492823.25	3626567.17	15.92887		492838.34
3626526.92	15.67051			
493039.78	3625834.45	2.03496		492743.19
3626628.92	22.01923			

492791.92	362663.04	21.43187	492731.11
3626741.92	17.37809		
492774.75	3626728.05	16.15896	492674.05
3626738.96	19.47511		
492708.49	3626698.47	31.29378	492703.25
3626652.75	28.64508		
493013.27	3625844.49	2.06235	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 45

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***
 INCLUDING SOURCE(S): STCK5 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	0.34059	0.36194	0.37140	0.41646	0.44197
0.46809	0.45659	0.41791	0.50666		
3628311.70	0.31328	0.39429	0.42457	0.44475	0.49085
0.54571	0.53877	0.46994	0.54800		
3628115.84	0.31293	0.34860	0.46923	0.50671	0.54755
0.60534	0.64337	0.57760	0.62333		
3627919.98	0.28587	0.34002	0.41332	0.55124	0.63141
0.70150	0.74936	0.75404	0.68357		
3627724.12	0.35845	0.34124	0.38996	0.51202	0.70036
0.81298	0.86348	0.96779	0.76594		
3627528.26	0.42567	0.46424	0.44788	0.48944	0.61926
0.88085	1.04649	1.13631	1.08751		
3627332.40	0.49701	0.53330	0.57434	0.63954	0.62884
0.69623	1.11364	1.54712	1.86167		
3627136.54	0.57068	0.64636	0.71901	0.77270	0.81978
0.91203	0.94651	1.65776	2.39116		
3626940.68	0.59900	0.66385	0.75492	0.87485	1.04091
1.26669	1.56522	1.91811	3.17303		

3626744.82	0.78623	0.93850	1.00252	1.18775	1.30113
1.89222	2.68749	4.18886	6.22911		
3626548.96	1.02277	1.20425	1.27618	1.71928	1.98594
2.44935	4.25668	7.44619	13.63765		
3626353.10	1.04069	1.39044	1.63666	1.94767	2.61541
3.07424	4.94457	6.44684	6.65504		
3626157.24	1.11780	1.42663	2.01515	2.36541	2.86038
3.36662	3.62498	3.54912	3.28553		
3625961.38	1.29600	1.46788	1.71728	2.16717	2.61962
2.52373	2.22731	2.07814	2.09310		
3625765.52	1.31317	1.75781	1.85183	1.73408	1.64773
1.57017	1.50739	1.48363	1.65556		
3625569.66	1.44591	1.64096	1.74337	1.60650	1.45896
1.42872	1.10867	1.13855	1.28596		
3625373.80	1.31331	1.35370	1.17969	1.33344	1.33074
1.17694	1.05254	1.07160	1.17300		
3625177.94	1.07555	1.15055	1.10372	1.03398	1.03669
0.98143	0.99152	0.88097	1.07405		
3624982.08	0.86668	0.97567	0.96217	0.91053	0.86796
0.85642	0.87192	0.78819	0.92890		
3624786.22	0.86194	0.78177	0.83250	0.76179	0.74915
0.76534	0.75849	0.75809	0.78850		
3624590.36	0.78609	0.74843	0.65398	0.64898	0.66374
0.67938	0.68438	0.75850	0.72403		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 46

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5
 INCLUDING SOURCE(S): STCK5 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	0.46241	0.40428	0.37620	0.33036	0.27752
0.22777	0.23607	0.27475	0.12777		

3628311.70		0.52815	0.46586	0.41413	0.31938	0.29632
0.26435		0.28625	0.27639	0.12768		
3628115.84		0.60420	0.48693	0.47897	0.41826	0.32707
0.32536		0.30643	0.29975	0.17023		
3627919.98		0.65948	0.59063	0.49426	0.46536	0.36635
0.37637		0.34090	0.28262	0.17525		
3627724.12		0.82012	0.87494	0.67622	0.48614	0.46293
0.39041		0.42717	0.32920	0.23402		
3627528.26		1.26844	0.93371	0.76424	0.60367	0.53990
0.51034		0.43065	0.44286	0.31768		
3627332.40		1.64290	1.24878	0.91014	0.84368	0.73638
0.58753		0.52734	0.46541	0.41165		
3627136.54		2.18299	1.54872	1.16190	1.04327	0.81737
0.68357		0.60606	0.53220	0.44063		
3626940.68		4.41315	2.75554	2.39379	1.50219	1.17243
0.89900		0.70904	0.58639	0.50987		
3626744.82		15.24876	14.08725	5.31022	2.86316	1.85431
1.19992		0.96208	0.78189	0.68145		
3626548.96		14.25792	27.56542	13.15266	5.98696	3.13750
2.00545		1.50094	1.18460	0.92698		
3626353.10		6.35228	8.06898	7.61354	6.37417	4.51755
2.97205		2.12366	1.54292	1.17915		
3626157.24		3.52139	3.98172	4.70287	4.00112	3.44420
3.29012		2.64776	2.02662	1.61844		
3625961.38		2.29111	2.43599	2.83553	3.29385	2.72585
2.39110		2.37662	2.19897	1.85708		
3625765.52		1.76526	1.83885	2.06220	2.35455	2.41114
2.09176		1.83059	1.77306	1.77543		
3625569.66		1.38422	1.42196	1.67221	1.73462	1.99817
1.84557		1.66363	1.46345	1.40951		
3625373.80		1.20118	1.22148	1.33653	1.40163	1.56055
1.70551		1.53416	1.40775	1.22065		
3625177.94		1.02237	1.04079	1.15132	1.16166	1.25857
1.42014		1.37497	1.26752	1.19173		
3624982.08		0.90301	0.90577	0.96442	1.03367	1.06952
1.18216		1.22646	1.13801	1.04440		
3624786.22		0.77082	0.78209	0.83754	0.97563	0.93431
0.97045		1.07072	1.06342	0.94660		
3624590.36		0.71229	0.71807	0.73768	0.86528	0.77059
0.84777		0.88080	0.97322	0.91967		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:55:07

PAGE 47

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)	494372.98	494567.08	494761.18	X-COORD (METERS)

3628507.56	0.10221	0.11202	0.11090
3628311.70	0.12686	0.12082	0.11525
3628115.84	0.13661	0.12684	0.13413
3627919.98	0.15846	0.16127	0.14031
3627724.12	0.19960	0.18528	0.13785
3627528.26	0.27545	0.27476	0.18353
3627332.40	0.37233	0.35184	0.22753
3627136.54	0.39927	0.36533	0.35868
3626940.68	0.44661	0.41091	0.37730
3626744.82	0.60422	0.55119	0.48527
3626548.96	0.79120	0.68607	0.62118
3626353.10	0.97549	0.80763	0.70826
3626157.24	1.29566	1.05682	0.87655
3625961.38	1.51801	1.27094	1.09938
3625765.52	1.61668	1.42032	1.19825
3625569.66	1.45993	1.37811	1.23525
3625373.80	1.20192	1.19501	1.15023
3625177.94	1.10003	1.02588	1.00395
3624982.08	1.03784	0.95417	0.90394
3624786.22	0.95388	0.86599	0.84481
3624590.36	0.81850	0.79917	0.77138

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 48

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
492883.25	3625830.80	2.13437	492919.80	
3625834.65	2.22797	2.32563	493069.86	
492955.07	3625845.55	2.34740	493110.90	
3625832.73	2.34740	2.34932	493166.70	
493094.87	3625832.73	2.51413	493201.33	
3625837.21	2.41670	2.58338	492881.32	
493151.95	3625834.01	2.74623	492901.84	
3625837.86	2.54011	2.43635	492933.91	
493187.86	3625836.57	2.51145	492973.67	
3625836.57	2.68745	2.51033	492996.11	
493240.44	3625836.57	2.51670	493023.05	
3625908.40	2.39829	2.50737	493066.66	
492906.98	3625898.14	2.62684	493087.18	
3625911.60	2.47006	2.74010	493112.19	
492928.14	3625914.81	2.88397	492874.27	
3625898.14	2.41251	2.90674	492910.18	
492951.87	3625908.40	2.11920	492947.38	
3625907.11	2.46536	2.14063	492982.65	
492993.55	3625914.17	2.15512	493021.12	
3625897.50	2.46021	2.14380	493055.75	
493015.99	3625896.85	2.16610	493094.87	
3625912.24	2.58886	2.23646	493129.50	
493044.21	3625907.11	2.33059		
3625907.76	2.65887			
493085.25	3625912.24			
3625895.57	2.67003			
493108.98	3625911.60			
3625897.50	2.74288			
493133.99	3625901.98			
3625788.48	1.99953			
492894.15	3625789.12			
3625790.40	2.09233			
492930.70	3625786.55			
3625791.04	2.14149			
492963.41	3625787.84			
3625787.84	2.14372			
492999.96	3625787.84			
3625791.04	2.07792			
493036.52	3625789.12			
3625789.76	2.16623			
493076.28	3625787.84			
3625787.84	2.19765			
493112.83	3625788.48			
3625787.19	2.33059			

493148.74	3625787.19	2.37848	493164.77
3625790.40	2.42593		
493184.65	3625789.12	2.48672	493201.97
3625791.04	2.49420		
493221.21	3625790.40	2.46543	493238.52
3625791.04	2.52034		
492780.00	3626415.01	10.40613	492778.72
3626388.08	8.94044		
492747.94	3626386.16	8.39993	492742.16
3626418.22	9.79463		
492699.20	3626422.71	9.20342	492697.92
3626391.93	7.97536		
492678.68	3626411.81	8.54918	492626.09
3626426.56	8.76782		
492606.85	3626435.54	9.34979	492599.16
3626405.39	7.94702		
492491.20	3626644.88	18.11587	492517.36
3626636.70	21.13126		
492521.18	3626603.45	21.36561	492521.72
3626582.19	20.14377		
492512.46	3626553.84	17.57737	492513.55
3626533.13	15.98114		
492501.01	3626506.42	13.85843	492490.65
3626485.70	12.62360		
492479.21	3626464.45	11.32539	492466.12
3626447.00	10.28891		
492447.59	3626418.66	8.89981	492431.78
3626430.65	9.32288		
492481.93	3626620.35	18.42062	492482.48
3626594.18	18.34264		
492479.21	3626572.92	17.37761	492477.02
3626546.76	15.85140		
492467.76	3626523.32	14.22286	492463.94
3626507.51	13.27482		
492450.86	3626492.79	12.35705	492427.42
3626474.80	11.12798		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 49

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***
 INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
492402.89	3626460.63	10.22829	492803.94	
3626616.07	25.11229			
492823.25	3626567.17	26.85335	492838.34	
3626526.92	23.83517			
493039.78	3625834.45	2.33244	492743.19	
3626628.92	47.66881			
492791.92	3626663.04	25.33795	492731.11	
3626741.92	26.95428			
492774.75	3626728.05	23.04292	492674.05	
3626738.96	25.77731			
492708.49	3626698.47	43.05791	492703.25	
3626652.75	43.74972			
493013.27	3625844.49	2.27250		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 50

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)	X-COORD (METERS)				
490879.18	491073.28				
491267.38	491461.48				
491655.58					
491849.68	492043.78				
492237.88	492431.98				
3628507.56	0.30467	0.31514	0.28454	0.33590	0.35862
0.40344	0.38421	0.33705	0.41266		
3628311.70	0.31421	0.37523	0.33567	0.35453	0.39288
0.45215	0.45241	0.35889	0.45424		

3628115.84		0.32395	0.35250	0.42950	0.40134	0.46788
0.49251		0.55183	0.45511	0.50803		
3627919.98		0.30298	0.35672	0.41375	0.49828	0.50966
0.58816		0.58877	0.59809	0.52651		
3627724.12		0.35347	0.35178	0.40960	0.49033	0.63066
0.63376		0.66902	0.78255	0.54486		
3627528.26		0.42543	0.45181	0.44575	0.51029	0.62294
0.79743		0.79342	0.84828	0.80675		
3627332.40		0.44968	0.49164	0.55947	0.61211	0.62501
0.70358		0.94192	1.18941	1.33615		
3627136.54		0.59311	0.55826	0.59256	0.67105	0.75436
0.84405		0.93169	1.40571	1.65122		
3626940.68		0.62299	0.73213	0.86150	0.96337	0.98554
1.00769		1.26743	1.67008	2.63598		
3626744.82		0.72887	0.86120	0.90214	1.07907	1.24712
1.83769		2.51211	3.60622	3.89704		
3626548.96		0.96704	1.18067	1.22042	1.68624	1.91278
2.29347		3.57425	5.95985	11.87761		
3626353.10		1.02754	1.34227	1.57563	1.76997	2.41891
2.82220		4.56307	7.06982	8.98643		
3626157.24		1.02191	1.32673	1.90243	2.39744	2.89805
3.56682		4.40646	4.29548	3.74289		
3625961.38		1.27353	1.51270	1.77132	2.26527	2.99717
3.18355		2.76514	2.30307	2.33194		
3625765.52		1.39823	1.71291	2.00777	1.96240	2.02994
1.92558		1.67175	1.58817	1.84828		
3625569.66		1.48340	1.69735	2.01056	1.94703	1.75071
1.61923		1.18594	1.19236	1.35021		
3625373.80		1.40368	1.57464	1.35418	1.53625	1.45827
1.22779		1.11527	1.15177	1.28934		
3625177.94		1.20327	1.45592	1.28162	1.14264	1.07942
1.05744		1.03377	0.97501	1.16738		
3624982.08		1.05308	1.15065	1.04146	0.95121	0.90545
0.89495		0.90587	0.85738	1.07542		
3624786.22		1.02409	0.89318	0.88463	0.78158	0.78744
0.78951		0.80646	0.77561	0.89750		
3624590.36		0.86200	0.80574	0.64970	0.70355	0.66020
0.69537		0.76137	0.74228	0.81592		

*** AERMOD - VERSION 23132 ***
 C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:55:07

PAGE 51

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK6 ***
 INCLUDING SOURCE(S): STCK6 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48	
493596.58	493790.68	493984.78	494178.88			

3628507.56	0.35319	0.31973	0.29696	0.29181	0.24311
0.20521	0.21498	0.25150	0.12795		
3628311.70	0.41341	0.37196	0.34505	0.28061	0.26780
0.23040	0.26559	0.27337	0.12339		
3628115.84	0.48083	0.39803	0.40209	0.35510	0.29207
0.29539	0.28640	0.29938	0.14373		
3627919.98	0.52219	0.48195	0.42509	0.39671	0.31970
0.35283	0.31055	0.25872	0.15097		
3627724.12	0.62967	0.65803	0.57994	0.43606	0.42267
0.35138	0.36908	0.33342	0.20117		
3627528.26	0.94896	0.72470	0.66074	0.52685	0.50301
0.43884	0.40809	0.43902	0.34805		
3627332.40	1.18310	0.98473	0.80785	0.72416	0.59990
0.55209	0.52897	0.46073	0.37913		
3627136.54	1.47983	1.27143	0.94080	0.78896	0.75280
0.68752	0.57073	0.49987	0.41367		
3626940.68	3.00206	2.37175	1.72148	1.30373	0.97274
0.81447	0.68762	0.56707	0.48572		
3626744.82	9.58239	8.24510	3.85844	2.15232	1.43458
0.99710	0.85049	0.72354	0.64063		
3626548.96	28.11105	29.38690	11.95163	6.15382	3.28331
2.06232	1.57055	1.20557	0.92250		
3626353.10	7.84471	9.32480	8.41301	6.71902	4.16319
2.74431	2.12634	1.69498	1.23830		
3626157.24	4.16118	4.54044	4.98047	4.09514	3.71719
3.31738	2.52072	1.87562	1.47412		
3625961.38	2.70366	2.83871	3.01586	3.18410	2.67860
2.49062	2.44814	2.18943	1.78967		
3625765.52	2.02820	2.07910	2.23194	2.45007	2.24972
1.96690	1.86919	1.82651	1.79837		
3625569.66	1.56182	1.55816	1.78353	1.77278	1.89484
1.74606	1.59977	1.52238	1.43985		
3625373.80	1.36071	1.35224	1.37387	1.41179	1.53102
1.52741	1.43906	1.34316	1.27384		
3625177.94	1.14292	1.15344	1.24740	1.23868	1.21722
1.38842	1.27544	1.19114	1.13876		
3624982.08	1.02678	0.99522	1.05652	1.05826	1.06990
1.17066	1.16734	1.05167	1.02925		

3624786.22		0.85359	0.86779	0.89919	0.96286	0.94657
0.95810		1.10246	0.93949	0.86563		
3624590.36		0.80517	0.79708	0.78935	0.88600	0.79948
0.83114		0.86177	0.93926	0.81466		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 52

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK6 ***
 INCLUDING SOURCE(S): STCK6 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)					X-COORD (METERS)
		494372.98	494567.08	494761.18	

3628507.56		0.09822	0.09067	0.09428
3628311.70		0.10432	0.10162	0.10142
3628115.84		0.11316	0.10939	0.10984
3627919.98		0.13087	0.13324	0.13515
3627724.12		0.18637	0.18027	0.12388
3627528.26		0.28866	0.27417	0.15079
3627332.40		0.34946	0.34726	0.19756
3627136.54		0.38622	0.35354	0.36447
3626940.68		0.42990	0.38444	0.36709
3626744.82		0.59446	0.54850	0.49517
3626548.96		0.78276	0.69505	0.59749
3626353.10		1.04752	0.90425	0.74505
3626157.24		1.23945	1.09501	0.92942
3625961.38		1.46280	1.19840	1.03799
3625765.52		1.59870	1.37542	1.15936
3625569.66		1.45213	1.38324	1.27795
3625373.80		1.20996	1.20004	1.18688
3625177.94		1.08666	1.02457	0.97900
3624982.08		0.93465	0.94026	0.89713
3624786.22		0.89906	0.81842	0.83141
3624590.36		0.74362	0.76147	0.72790

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 53

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK6

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	2.40358	492919.80
3625834.65	2.43854		
492955.07	3625845.55	2.48680	493069.86
3625832.73	2.46183		
493094.87	3625832.73	2.46098	493110.90
3625837.21	2.52276		
493151.95	3625834.01	2.68046	493166.70
3625837.86	2.72426		
493187.86	3625836.57	2.76078	493201.33
3625836.57	2.72155		
493240.44	3625836.57	2.70584	492881.32
3625908.40	2.67443		
492906.98	3625898.14	2.67842	492901.84
3625911.60	2.72347		
492928.14	3625914.81	2.75648	492933.91
3625898.14	2.69812		
492951.87	3625908.40	2.74208	492973.67
3625907.11	2.74739		
492993.55	3625914.17	2.70716	492996.11
3625897.50	2.67998		
493015.99	3625896.85	2.64495	493023.05
3625912.24	2.71696		
493044.21	3625907.11	2.76782	493066.66
3625907.76	2.78937		
493085.25	3625912.24	2.86611	493087.18
3625895.57	2.78986		
493108.98	3625911.60	2.99261	493112.19
3625897.50	2.92799		
493133.99	3625901.98	2.95729	492874.27
3625788.48	2.22532		

492894.15	3625789.12	2.22741	492910.18
3625790.40	2.28716		
492930.70	3625786.55	2.30063	492947.38
3625791.04	2.32061		
492963.41	3625787.84	2.31689	492982.65
3625787.84	2.28625		
492999.96	3625787.84	2.29239	493021.12
3625791.04	2.34091		
493036.52	3625789.12	2.30458	493055.75
3625789.76	2.30335		
493076.28	3625787.84	2.31058	493094.87
3625787.84	2.29699		
493112.83	3625788.48	2.32653	493129.50
3625787.19	2.36271		
493148.74	3625787.19	2.40669	493164.77
3625790.40	2.46345		
493184.65	3625789.12	2.51116	493201.97
3625791.04	2.54861		
493221.21	3625790.40	2.57212	493238.52
3625791.04	2.52840		
492780.00	3626415.01	12.26259	492778.72
3626388.08	10.62591		
492747.94	3626386.16	10.14035	492742.16
3626418.22	11.83360		
492699.20	3626422.71	11.38328	492697.92
3626391.93	9.84195		
492678.68	3626411.81	10.59246	492626.09
3626426.56	11.40427		
492606.85	3626435.54	12.55678	492599.16
3626405.39	10.27734		
492491.20	3626644.88	11.69400	492517.36
3626636.70	14.07570		
492521.18	3626603.45	17.76460	492521.72
3626582.19	19.19579		
492512.46	3626553.84	19.42141	492513.55
3626533.13	19.68388		
492501.01	3626506.42	18.39271	492490.65
3626485.70	17.05997		
492479.21	3626464.45	15.70694	492466.12
3626447.00	14.52560		
492447.59	3626418.66	12.50140	492431.78
3626430.65	12.69546		
492481.93	3626620.35	12.76616	492482.48
3626594.18	14.46588		
492479.21	3626572.92	15.21555	492477.02
3626546.76	16.14261		
492467.76	3626523.32	15.77936	492463.94
3626507.51	15.88527		
492450.86	3626492.79	15.07085	492427.42
3626474.80	13.84576		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 54

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: STCK6
 INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	12.42180	492803.94
3626616.07	25.85425		
492823.25	3626567.17	25.32493	492838.34
3626526.92	26.35754		
493039.78	3625834.45	2.43519	492743.19
3626628.92	62.84419		
492791.92	3626663.04	28.63816	492731.11
3626741.92	14.71976		
492774.75	3626728.05	14.80940	492674.05
3626738.96	16.39894		
492708.49	3626698.47	27.81186	492703.25
3626652.75	68.54486		
493013.27	3625844.49	2.46801	

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 55

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,

, L0000019 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	2.54707	2.65665	2.68612	2.95397	3.14145
3.38545	3.39699	3.23518	3.57776		
3628311.70	2.65005	2.98013	3.05880	3.18226	3.53697
3.89600	3.97243	3.70975	3.92460		
3628115.84	2.75258	3.04311	3.49760	3.64720	3.95601
4.43546	4.74347	4.43171	4.50971		
3627919.98	2.75536	3.13679	3.60118	4.17534	4.54843
5.08849	5.37287	5.56235	5.18652		
3627724.12	3.12105	3.27069	3.69875	4.38895	5.32778
5.76441	6.19273	7.12305	5.97367		
3627528.26	3.56659	3.88226	4.11856	4.66485	5.55786
6.76540	7.27248	8.20508	8.38836		
3627332.40	3.97449	4.41477	4.86484	5.46291	5.93841
6.83523	8.66527	10.76287	13.63214		
3627136.54	4.54419	4.91850	5.55662	6.30159	7.09362
8.11740	9.60399	13.09359	16.76328		
3626940.68	4.86409	5.52004	6.32507	7.42441	8.66149
10.24214	12.72560	16.90652	24.95587		
3626744.82	5.67035	6.82604	7.42181	8.73882	10.17179
14.32178	19.96536	29.31015	41.25185		
3626548.96	7.08072	8.41762	9.16698	12.20587	13.97637
17.24977	29.60178	47.08846	83.65140		
3626353.10	7.52686	9.82145	11.63725	13.37608	18.94026
21.36260	36.54315	54.16924	77.80925		
3626157.24	7.79838	9.71454	13.82519	17.31585	22.25696
27.81062	34.93959	43.67014	43.05106		
3625961.38	9.05334	10.69926	12.92857	16.37553	22.92238
25.24244	23.56515	22.74667	23.23940		
3625765.52	9.98197	12.77499	14.29665	14.97046	16.24540
16.62397	16.33717	16.32467	20.19859		
3625569.66	10.67616	12.50187	14.84453	15.65705	14.31785
14.33986	12.59023	13.74971	16.48849		
3625373.80	10.31035	11.29622	11.01775	13.06807	13.36273

13.15962	12.00905	13.20489	15.32569		
3625177.94		9.23383	11.10223	10.89360	10.16066 11.19167
11.19441	11.43820	9.96672	11.51357		
3624982.08		8.21601	9.44998	9.28695	9.37012 9.43115
9.39905	9.25642	8.27614	9.30510		
3624786.22		8.23490	7.69775	8.25488	8.14970 7.85330
7.83300	7.66636	7.08023	7.44719		
3624590.36		7.17721	7.15730	6.60657	6.64942 6.60851
6.58300	6.56041	6.62956	6.74606		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 56

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD					X-COORD (METERS)
(METERS)		492626.08	492820.18	493014.28	493208.38 493402.48
493596.58	493790.68	493984.78	494178.88		

- - - - -
 - - - - -

3628507.56		3.54539	3.39023	3.08704	3.14195	2.85372
2.69156	2.59704	1.95554	0.90569			
3628311.70		3.98458	3.91797	3.49888	3.20696	3.23222
3.08978	2.62569	1.92593	0.80621			
3628115.84		4.59711	4.19354	4.19186	4.39032	3.85959
3.66010	2.68793	1.99087	0.93538			
3627919.98		5.12636	5.10432	4.78977	5.08836	3.97961
4.15428	2.77235	1.74346	1.01874			
3627724.12		6.26869	7.80926	7.24450	5.89286	4.97971
4.10805	2.98283	2.16247	1.37567			

3627528.26		9.19233	8.33568	8.66397	7.24735	5.93671
5.78413		3.56606	2.95389	2.22646		
3627332.40		12.07480	11.63153	11.10587	9.80095	6.92603
5.06397		3.92688	3.37756	2.96977		
3627136.54		16.93226	16.53672	13.32062	10.64585	8.57126
8.34453		4.82899	4.07907	3.97644		
3626940.68		33.42128	30.37862	22.31328	15.18455	11.49240
9.26417		8.10720	6.06577	5.55678		
3626744.82		90.03991	92.16580	45.68569	25.65293	17.28659
11.29931		8.88824	7.24865	6.26149		
3626548.96		217.26720	460.45192	100.66551	48.89825	27.57338
18.13582		14.60257	11.04924	8.01211		
3626353.10		76.08574	75.11103	85.44853	58.69394	34.62042
23.41608		17.33709	13.34314	10.27304		
3626157.24		40.32557	37.18319	46.72619	37.13528	31.51286
28.39525		21.38566	15.03898	11.56337		
3625961.38		28.72639	26.68868	33.34975	30.38712	24.80194
21.27507		20.85482	16.70460	13.71840		
3625765.52		23.93734	41.66372	60.86245	42.55642	25.43692
19.29269		16.33022	14.99151	14.31907		
3625569.66		20.18931	19.84151	22.34045	25.22442	22.95506
18.69801		15.37243	13.59093	12.20714		
3625373.80		14.16273	13.81605	13.73673	15.45619	15.80242
16.52432		15.31047	12.89383	11.71891		
3625177.94		10.68580	11.38345	11.54459	12.73680	12.79412
13.28166		12.01928	11.17458	10.77062		
3624982.08		9.33381	9.23945	8.95903	10.50722	9.92530
10.22974		10.43754	9.66129	9.21802		
3624786.22		7.44333	7.98646	7.61837	8.46756	8.31002
8.62555		9.08826	8.85236	8.05924		
3624590.36		6.89934	7.00840	6.64783	6.94052	7.29682
7.73457		8.15901	7.89852	7.49906		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:55:07

PAGE 57

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)

494372.98	494567.08	494761.18

3628507.56	0.64797	0.64363	0.63675
3628311.70	0.72318	0.68884	0.68821
3628115.84	0.79158	0.75383	0.74603
3627919.98	0.93224	0.89761	0.80314
3627724.12	1.15478	1.21907	0.84958
3627528.26	1.97092	1.87044	1.03504
3627332.40	2.68592	2.38610	1.34190
3627136.54	3.25829	2.88110	2.43676
3626940.68	4.30897	3.78628	3.29247
3626744.82	5.66047	5.30467	4.64636
3626548.96	6.74788	5.86571	5.17036
3626353.10	8.43643	7.52377	6.20585
3626157.24	9.75558	7.93529	7.20665
3625961.38	11.81215	9.20027	8.33073
3625765.52	12.62051	10.71069	9.14570
3625569.66	11.70159	11.15006	9.98451
3625373.80	10.67916	9.98740	9.44754
3625177.94	10.08571	9.33769	8.62867
3624982.08	9.32635	8.82383	8.43702
3624786.22	7.79626	8.10231	7.97427
3624590.36	7.00298	6.88938	6.88900

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:55:07

PAGE 58

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): L0000001 , L0000002

, L0000003	, L0000004	, L0000005	,			
	L0000006	, L0000007	, L0000008	, L0000009	, L0000010	
, L0000011	, L0000012	, L0000013	,			
	L0000014	, L0000015	, L0000016	, L0000017	, L0000018	
, L0000019	, L0000020	, L0000021	,			
	L0000022	, L0000023	, L0000024	, L0000025	, L0000026	

, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

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

492883.25	3625830.80	44.09306	492919.80
3625834.65	49.01498		
492955.07	3625845.55	40.33150	493069.86
3625832.73	120.92532		
493094.87	3625832.73	85.32062	493110.90
3625837.21	60.15596		
493151.95	3625834.01	45.55696	493166.70
3625837.86	40.55648		
493187.86	3625836.57	36.99393	493201.33
3625836.57	35.09213		
493240.44	3625836.57	31.55318	492881.32
3625908.40	29.34382		
492906.98	3625898.14	30.88479	492901.84
3625911.60	30.54995		
492928.14	3625914.81	31.89880	492933.91
3625898.14	32.15651		
492951.87	3625908.40	32.94472	492973.67
3625907.11	34.13332		
492993.55	3625914.17	35.55724	492996.11
3625897.50	35.65642		
493015.99	3625896.85	39.81262	493023.05
3625912.24	38.29569		
493044.21	3625907.11	40.04177	493066.66
3625907.76	41.07095		
493085.25	3625912.24	37.62992	493087.18
3625895.57	42.86938		
493108.98	3625911.60	37.09864	493112.19
3625897.50	38.87482		
493133.99	3625901.98	36.52132	492874.27
3625788.48	52.39584		
492894.15	3625789.12	58.49400	492910.18
3625790.40	63.07653		
492930.70	3625786.55	65.84100	492947.38
3625791.04	69.43726		
492963.41	3625787.84	65.01536	492982.65
3625787.84	66.03453		
492999.96	3625787.84	73.22136	493021.12
3625791.04	93.66171		

493036.52	3625789.12	95.41342	493055.75
3625789.76	100.70737		
493076.28	3625787.84	101.85002	493094.87
3625787.84	92.71125		
493112.83	3625788.48	73.90743	493129.50
3625787.19	66.19058		
493148.74	3625787.19	57.81528	493164.77
3625790.40	51.99855		
493184.65	3625789.12	46.23102	493201.97
3625791.04	42.04220		
493221.21	3625790.40	38.23916	493238.52
3625791.04	35.22939		
492780.00	3626415.01	163.83808	492778.72
3626388.08	111.05295		
492747.94	3626386.16	107.32272	492742.16
3626418.22	164.36375		
492699.20	3626422.71	163.99974	492697.92
3626391.93	109.31481		
492678.68	3626411.81	128.03816	492626.09
3626426.56	131.21914		
492606.85	3626435.54	178.72443	492599.16
3626405.39	116.80750		
492491.20	3626644.88	92.32233	492517.36
3626636.70	106.99331		
492521.18	3626603.45	119.52435	492521.72
3626582.19	124.11260		
492512.46	3626553.84	123.09867	492513.55
3626533.13	125.75765		
492501.01	3626506.42	122.22121	492490.65
3626485.70	122.43934		
492479.21	3626464.45	122.68375	492466.12
3626447.00	121.58897		
492447.59	3626418.66	102.17323	492431.78
3626430.65	98.23581		
492481.93	3626620.35	95.14361	492482.48
3626594.18	101.44065		
492479.21	3626572.92	103.72688	492477.02
3626546.76	106.64720		
492467.76	3626523.32	104.86873	492463.94
3626507.51	105.78145		
492450.86	3626492.79	104.89046	492427.42
3626474.80	103.32918		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	87.51069	492803.94
3626616.07	277.34535		
492823.25	3626567.17	381.13549	492838.34
3626526.92	386.37300		
493039.78	3625834.45	172.75835	492743.19
3626628.92	375.24319		
492791.92	3626663.04	204.82730	492731.11
3626741.92	121.35215		
492774.75	3626728.05	118.91914	492674.05
3626738.96	123.01395		
492708.49	3626698.47	193.01635	492703.25
3626652.75	300.33876		
493013.27	3625844.49	124.25551	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 60
 *** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: SLINE1
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018

, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	490879.18	491073.28	491267.38
491461.48	491655.58		

3628507.6	51.54150 (21032421)	54.35060 (21012124)	59.50988 (22011623)
62.35384 (21021402)	75.82746 (21020820)		
3628311.7	58.64447 (22120523)	59.81874 (21032421)	64.38687 (21012124)
72.99667 (22011623)	73.66728 (20090706)		
3628115.8	62.04778 (22120701)	68.82099 (22120523)	70.53418 (21032421)
76.18018 (21012124)	85.37973 (22011623)		
3627920.0	63.92008 (20010719)	69.43811 (22120701)	81.92234 (22120523)
84.82435 (21032421)	89.30230 (21012124)		
3627724.1	71.12192 (22010221)	80.81618 (22120522)	83.04594 (20101702)
99.12527 (22120523)	104.61891 (21032421)		
3627528.3	64.41964 (21012201)	77.20410 (22010221)	99.42610 (22120522)
101.57558 (20101702)	128.19372 (22120701)		
3627332.4	71.17884 (21011623)	79.00755 (22011624)	88.18038 (21012201)
117.85481 (22010221)	140.65708 (22120522)		
3627136.5	73.87958 (20010821)	81.82019 (22123104)	99.26629 (21011623)
113.21106 (22011624)	131.50352 (21012201)		
3626940.7	74.79359 (21032124)	90.18019 (22120623)	103.68840 (21122422)
124.02286 (20121405)	145.47495 (22123104)		
3626744.8	78.77423 (22120624)	91.24142 (20011408)	104.84934 (22031223)
126.80362 (21122421)	163.52980 (22120524)		
3626549.0	98.95745 (21012919)	115.75214 (21012919)	135.79393 (21012919)
171.59901 (21012919)	203.75747 (21012919)		
3626353.1	164.73041 (20122123)	239.97343 (20122123)	341.12112 (20122123)
460.14118 (20122123)	591.50893 (20122123)		
3626157.2	256.74307 (20122123)	215.14523 (20122123)	153.25877 (20120821)
191.62254 (22011222)	232.88192 (22010222)		
3625961.4	96.23936 (20021601)	106.70584 (22010222)	129.16256 (20021722)
148.73767 (20022324)	275.90285 (21030222)		
3625765.5	92.25198 (20120923)	105.71533 (20022324)	129.38097 (21030222)
372.44315 (21030222)	379.63991 (22010619)		
3625569.7	86.13778 (22012701)	224.64110 (21030222)	330.05225 (21030222)
387.53476 (20011520)	377.48402 (21110104)		
3625373.8	251.87249 (21030222)	251.04521 (22010619)	336.16538 (20011520)
322.87023 (21110104)	343.34042 (20100406)		

```

3625177.9 | 184.27308 (20011520) 288.39715 (20011520) 228.52525 (21110104)
204.11860 (20100406) 374.49206 (20111623)
3624982.1 | 232.77206 (20011520) 182.25608 (21110104) 155.63547 (20100406)
289.33678 (20100406) 259.93429 (20111623)
3624786.2 | 145.31412 (21110104) 129.98057 (20102402) 247.72458 (20100406)
260.65812 (20111623) 299.20036 (22012923)
3624590.4 | 113.11711 (20102402) 208.85969 (20100406) 224.91595 (20111623)
228.43354 (22012923) 167.76077 (22012923)
^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

```

PAGE 61

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

```

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

```

Y-COORD | X-COORD (METERS)
(METERS) | 491849.68 492043.78 492237.88
492431.98 492626.08

```

```

-----
3628507.6 | 73.48105 (22090524) 83.71826 (22102624) 80.89036 (22011621)
79.97763 (22102623) 53.61846 (21102918)
3628311.7 | 91.71882 (21020820) 101.91195 (20022222) 87.16369 (20101705)
84.36617 (22102623) 58.04236 (21102918)
3628115.8 | 97.25035 (21020820) 102.75673 (20022222) 108.92669 (20101705)
94.64470 (22011621) 65.04846 (22071803)
3627920.0 | 102.76866 (21021402) 130.26856 (21020820) 139.37190 (22102624)
128.14294 (22011621) 84.61235 (22102623)
3627724.1 | 118.63704 (22011623) 138.83460 (20090706) 165.07617 (20022222)
155.70602 (22011621) 121.62454 (22102623)
3627528.3 | 133.30807 (21032421) 164.19487 (22011623) 205.27557 (21020820)

```


204.59179	(20101705)	189.88783	(22102623)		
3627332.4		171.41161	(22120701)	179.18339	(21102603) 217.84072 (21021402)
315.40755	(20022222)	253.64818	(22102623)		
3627136.5		194.07031	(22120522)	234.49759	(22120701) 271.67951 (21012124)
391.41060	(21020820)	369.80300	(22011621)		
3626940.7		187.23079	(21011623)	241.70293	(20040403) 346.47422 (20101702)
479.06428	(21012124)	637.00298	(20101705)		
3626744.8		207.70328	(22120623)	284.21983	(20121405) 405.10230 (21011623)
692.52055	(22010221)	1163.56613	(20090706)		
3626549.0		262.57049	(21012919)	471.79715	(21012919) 628.80320 (21012919)
875.29862	(21012919)	1937.83126	(20122123)		
3626353.1		554.12981	(20122123)	439.46841	(20022501) 799.21514 (21120120)
988.31266	(21100903)	1251.27365	(22120504)		
3626157.2		262.42619	(20120923)	566.33328	(21030222) 1229.31213 (20011520)
1425.37983	(20111623)	969.57433	(20070224)		
3625961.4		589.88109	(21030222)	689.36721	(20011520) 777.48319 (20100406)
619.43422	(22012923)	435.02076	(20021922)		
3625765.5		494.18326	(21110104)	538.41754	(20100406) 652.78035 (22012923)
292.07455	(22021320)	269.85676	(22120222)		
3625569.7		379.11820	(20100406)	473.24206	(20111623) 278.38650 (22012923)
172.09083	(21121921)	193.90155	(20012222)		
3625373.8		492.64109	(20111623)	426.20297	(22012923) 146.83851 (22021320)
187.13444	(21121921)	179.61754	(20012222)		
3625177.9		410.87687	(22012923)	159.22768	(22012923) 111.26825 (22120820)
144.72547	(21120123)	142.31319	(20012222)		
3624982.1		296.41762	(22012923)	115.69156	(22021320) 95.56078 (21121921)
122.67527	(20021922)	131.39151	(20012222)		
3624786.2		96.71262	(22012923)	98.89321	(22021320) 94.00743 (21121921)
93.49310	(20112124)	95.63730	(21040805)		
3624590.4		80.53974	(22021320)	87.89012	(22120820) 88.93031 (21121921)
86.05346	(20112124)	93.18414	(21040805)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 62

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
	492820.18		493014.28	493208.38
493402.48		493596.58		

3628507.6	72.43167 (22102021)	36.59334 (22102021)	52.34136 (22102202)
34.98432 (22102202)	32.63926 (20101418)		
3628311.7	82.55998 (22102021)	35.08646 (20100318)	52.11599 (22102202)
34.28087 (20101418)	41.49393 (21080821)		
3628115.8	86.07239 (22102021)	47.37219 (22102202)	70.67095 (22102202)
45.67568 (20101418)	55.48072 (21080821)		
3627920.0	103.35989 (22102021)	65.54963 (22102202)	65.71729 (22102202)
200.10901 (20101624)	80.81326 (20092419)		
3627724.1	166.08729 (22102021)	119.38580 (22102202)	66.07324 (20101418)
69.71103 (22050621)	178.87071 (22010702)		
3627528.3	158.07906 (22102021)	142.90620 (22102202)	123.62335 (21080821)
150.71028 (20121022)	114.77530 (20092420)		
3627332.4	201.23059 (22102021)	142.54682 (22102202)	147.99655 (20092419)
234.29631 (21122302)	280.99396 (22091021)		
3627136.5	257.61970 (22102021)	146.71591 (21080821)	145.32448 (20092420)
127.28434 (20092420)	149.53467 (20032305)		
3626940.7	369.62558 (22102202)	273.28631 (20092419)	182.97066 (20092420)
174.99665 (22122819)	117.30961 (20040319)		
3626744.8	675.02371 (22102202)	464.97957 (20032305)	230.21877 (20040319)
227.60104 (22120120)	204.91360 (22120120)		
3626549.0	2671.17855 (22040302)	769.94304 (22040302)	792.34862 (21070923)
580.83661 (21070923)	205.39893 (21080723)		
3626353.1	1135.74458 (21120822)	702.76816 (20021620)	707.61368 (20090703)
519.56268 (20041206)	453.94399 (20121024)		
3626157.2	782.77055 (22052506)	826.72386 (20102320)	469.24184 (22040123)
396.65932 (22101020)	396.80356 (21052723)		
3625961.4	362.72691 (21061301)	351.32604 (22052123)	324.18016 (20080523)
335.47809 (21081705)	312.75056 (20092022)		
3625765.5	296.09393 (21081704)	280.12775 (21120822)	306.88940 (20100623)
384.28412 (21021008)	251.61730 (21072106)		
3625569.7	177.84738 (21102021)	323.57310 (22052206)	201.78353 (21031721)
165.05605 (21090504)	236.27029 (21021008)		
3625373.8	344.94075 (22081103)	128.01370 (21091105)	134.34998 (21103122)
130.09092 (21013119)	134.20266 (21090504)		
3625177.9	142.73158 (21040803)	298.37379 (21030703)	117.58667 (22021319)
259.94129 (22081002)	262.57721 (21092704)		
3624982.1	238.21504 (22081103)	213.64853 (22090723)	109.13388 (20090822)
189.95572 (22040304)	153.72850 (20050806)		

3624786.2 | 170.10727 (21040803) 195.38155 (22090723) 187.07096 (22101306)
161.65087 (21120822) 145.16408 (21080802)
3624590.4 | 81.33055 (20122521) 187.90477 (22052124) 133.73638 (22052506)
171.76568 (20061224) 188.02384 (22070601)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 63

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)		
494372.98	493790.68	493984.78
	494567.08	494178.88

3628507.6 | 41.91040 (21080821) 72.35863 (22011808) 12.55699 (22100421)
8.91408 (20041221) 7.69310 (22022102)
3628311.7 | 105.34045 (20121022) 31.23807 (21012220) 10.01299 (20041221)
7.61198 (22022102) 8.14793 (20031823)
3628115.8 | 144.57494 (22011808) 30.59843 (22100421) 10.31706 (22022102)
9.15214 (20031823) 6.34195 (22022205)
3627920.0 | 142.38992 (21122302) 18.81025 (21081802) 11.82334 (20031823)
8.29278 (22022205) 9.72134 (20041219)
3627724.1 | 84.01173 (20092420) 24.23713 (20062406) 15.37190 (20060602)
12.34119 (20041219) 14.28358 (20051006)
3627528.3 | 173.02764 (22091021) 55.07670 (22091021) 23.38216 (21030804)
26.47405 (22122819) 29.40978 (21070819)
3627332.4 | 109.07675 (22091021) 66.47520 (22122819) 84.31532 (22122819)
85.85323 (21090103) 54.17238 (20050101)
3627136.5 | 165.99882 (22122819) 132.39785 (21090103) 250.64447 (20081602)

182.52746 (21072203)	131.23624 (21072203)		
3626940.7 102.00122 (21052124)	96.49821 (21052124)	100.51661 (20010717)	
161.78388 (21080324)	157.17298 (21080324)		
3626744.8 163.92270 (22120120)	120.86089 (22120120)	105.31100 (21071321)	
100.78813 (21071321)	97.65031 (21071321)		
3626549.0 190.26518 (21080723)	145.06842 (21080723)	98.04488 (21080723)	
85.00916 (21080723)	75.45488 (21080723)		
3626353.1 365.95281 (20070924)	301.82702 (20070924)	105.31881 (20101719)	
226.25853 (21083001)	83.62192 (21021002)		
3626157.2 213.02274 (21110419)	285.52762 (21100704)	245.35490 (20041206)	
235.47600 (20121024)	190.20816 (21040722)		
3625961.4 338.76957 (22091005)	236.51354 (21052723)	215.08741 (21072102)	
89.59138 (21080901)	178.30504 (21100704)		
3625765.5 194.30136 (22061005)	185.97407 (21070303)	221.56091 (21091622)	
220.61993 (21052723)	188.57925 (21081903)		
3625569.7 198.58000 (21072106)	192.71499 (20071003)	186.72377 (20092022)	
179.99285 (22091005)	186.71634 (21063023)		
3625373.8 279.19514 (20051621)	179.93163 (21072106)	172.41114 (20071003)	
161.59674 (20092022)	157.61802 (22082502)		
3625177.9 164.23276 (22082704)	146.03059 (21071502)	158.19846 (21072106)	
153.16740 (22040123)	142.56486 (22082523)		
3624982.1 155.88153 (21092804)	132.98282 (21021008)	147.88216 (22082223)	
173.66709 (20102302)	151.71514 (22040123)		
3624786.2 150.96112 (22101323)	140.38618 (21092804)	136.56207 (21021008)	
139.31760 (22082223)	171.69593 (21081124)		
3624590.4 183.68997 (22082604)	147.02592 (21092704)	130.13343 (20041404)	
148.93975 (21021008)	57.84782 (22080324)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 64

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	7.80205 (22122801)
3628311.7	7.25646 (21021519)
3628115.8	7.01184 (20041220)
3627920.0	7.09430 (20041219)
3627724.1	10.25279 (20100724)
3627528.3	14.03458 (20060406)
3627332.4	18.52820 (21051806)
3627136.5	50.31769 (21052124)
3626940.7	149.16522 (22072121)
3626744.8	84.67385 (21071321)
3626549.0	67.13263 (21080723)
3626353.1	136.38249 (21080724)
3626157.2	68.95119 (21072101)
3625961.4	68.77549 (22121818)
3625765.5	182.96967 (21072102)
3625569.7	160.30883 (21052723)
3625373.8	158.59978 (22091005)
3625177.9	155.38937 (22082502)
3624982.1	148.87072 (20071003)
3624786.2	144.37321 (22040123)
3624590.4	151.39727 (21081124)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 65

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SLINE1 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

	492883.25	3625830.80	372.26050	(22052506)	492919.80
3625834.65		353.99738 (22052506)			
	492955.07	3625845.55	302.04773	(22052206)	493069.86
3625832.73		291.77665 (22052123)			
	493094.87	3625832.73	273.63230	(21080802)	493110.90
3625837.21		266.10512 (22081801)			
	493151.95	3625834.01	306.19882	(20050806)	493166.70
3625837.86		291.29309 (20100623)			
	493187.86	3625836.57	282.60252	(21092704)	493201.33
3625836.57		285.77980 (21092704)			
	493240.44	3625836.57	305.32798	(21092804)	492881.32
3625908.40		420.69158 (22052506)			
	492906.98	3625898.14	365.75222	(22052506)	492901.84
3625911.60		390.13463 (22052506)			
	492928.14	3625914.81	329.87013	(20100624)	492933.91
3625898.14		306.49052 (22052206)			
	492951.87	3625908.40	304.26746	(22052206)	492973.67
3625907.11		334.57556 (21120822)			
	492993.55	3625914.17	341.38887	(21120822)	492996.11
3625897.50		343.96902 (21120822)			
	493015.99	3625896.85	306.73079	(22100905)	493023.05
3625912.24		319.37662 (22052123)			
	493044.21	3625907.11	317.46819	(22052123)	493066.66
3625907.76		317.98966 (21080802)			
	493085.25	3625912.24	329.58014	(20050806)	493087.18
3625895.57		313.01779 (20050806)			
	493108.98	3625911.60	337.52758	(20050806)	493112.19
3625897.50		337.65290 (20050806)			
	493133.99	3625901.98	330.88321	(20100623)	492874.27
3625788.48		326.20860 (22052506)			
	492894.15	3625789.12	373.15671	(22052506)	492910.18
3625790.40		383.68652 (22052506)			
	492930.70	3625786.55	355.25400	(22052506)	492947.38
3625791.04		305.57374 (22101306)			
	492963.41	3625787.84	309.63815	(22052206)	492982.65
3625787.84		298.23393 (22052206)			
	492999.96	3625787.84	273.89283	(21120822)	493021.12
3625791.04		299.07341 (21120822)			
	493036.52	3625789.12	292.15566	(21120822)	493055.75
3625789.76		289.85237 (22100905)			
	493076.28	3625787.84	288.45332	(22052123)	493094.87
3625787.84		291.22345 (22052123)			
	493112.83	3625788.48	282.55688	(21080802)	493129.50

3625787.19	267.52729	(21080802)		
493148.74	3625787.19	286.47426	(20050806)	493164.77
3625790.40	306.52992	(20050806)		
493184.65	3625789.12	303.56446	(20050806)	493201.97
3625791.04	294.66849	(20100623)		
493221.21	3625790.40	300.06549	(21092704)	493238.52
3625791.04	303.23146	(21092704)		
492780.00	3626415.01	1843.66145	(21052503)	492778.72
3626388.08	1855.91628	(20101004)		
492747.94	3626386.16	1815.09324	(20091123)	492742.16
3626418.22	1936.58010	(21031805)		
492699.20	3626422.71	1877.30863	(22120820)	492697.92
3626391.93	1743.74374	(21020924)		
492678.68	3626411.81	1855.43814	(22120504)	492626.09
3626426.56	1496.29372	(20102402)		
492606.85	3626435.54	2260.93490	(20011520)	492599.16
3626405.39	1508.43224	(20102402)		
492491.20	3626644.88	869.57222	(22123104)	492517.36
3626636.70	963.91613	(22123104)		
492521.18	3626603.45	1048.04448	(22120623)	492521.72
3626582.19	1060.33374	(22120624)		
492512.46	3626553.84	1165.90395	(21012919)	492513.55
3626533.13	1521.95317	(20122123)		
492501.01	3626506.42	1632.93317	(20122123)	492490.65
3626485.70	1307.63310	(20122123)		
492479.21	3626464.45	1148.20679	(20021601)	492466.12
3626447.00	1226.62758	(20021722)		
492447.59	3626418.66	1242.62538	(20011918)	492431.78
3626430.65	1276.81219	(20021723)		
492481.93	3626620.35	891.17825	(22120623)	492482.48
3626594.18	911.40760	(22120524)		
492479.21	3626572.92	918.39543	(21012919)	492477.02
3626546.76	1038.64214	(21012919)		
492467.76	3626523.32	1448.18289	(20122123)	492463.94
3626507.51	1562.81392	(20122123)		
492450.86	3626492.79	1484.17555	(20122123)	492427.42
3626474.80	1608.83313	(20122123)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 66

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SLINE1 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010

```

, L0000011      , L0000012      , L0000013      ,
                  L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
                  L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

```

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
492402.89	3626460.63	1184.05199	(20021206)	492803.94	
3626616.07	2117.02483	(20092420)			
492823.25	3626567.17	2459.94646	(22120120)	492838.34	
3626526.92	2468.54999	(22121818)			
493039.78	3625834.45	294.20092	(22100905)	492743.19	
3626628.92	2713.84747	(22102021)			
492791.92	3626663.04	1410.35448	(22102202)	492731.11	
3626741.92	1155.99786	(22102623)			
492774.75	3626728.05	1132.07382	(22102021)	492674.05	
3626738.96	1472.46294	(22102624)			
492708.49	3626698.47	1679.95385	(22102624)	492703.25	
3626652.75	2468.32361	(22102624)			
493013.27	3625844.49	307.20984	(21120822)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 67

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
490879.18	491073.28
	491267.38

491461.48

491655.58

3628507.6	72.20336 (21011618)	71.40817 (21031402)	75.23779 (22090601)
113.78232 (22062102)	119.88660 (20090706)		
3628311.7	77.45441 (22051505)	77.27384 (21011618)	74.33486 (22011702)
73.60905 (22080803)	151.29749 (22062102)		
3628115.8	72.84113 (22122902)	82.86109 (22032023)	82.91521 (21040201)
84.76720 (22090601)	84.84958 (20070601)		
3627920.0	71.46067 (21052423)	86.39655 (22122902)	88.17157 (22032023)
92.96543 (21040201)	104.41131 (22090601)		
3627724.1	79.46115 (22090223)	75.33931 (21081604)	92.72063 (21052423)
92.79827 (22032023)	111.09658 (21040201)		
3627528.3	102.47053 (22082905)	87.93580 (20081623)	96.72958 (21081604)
99.15320 (21052423)	96.07205 (22122902)		
3627332.4	147.44354 (21020722)	161.91590 (20061501)	127.02545 (22082905)
104.28889 (22090223)	108.29922 (21081604)		
3627136.5	182.25969 (22101701)	183.33485 (21040202)	187.41744 (21020722)
193.64464 (21021623)	155.76314 (22082905)		
3626940.7	166.14967 (22041606)	164.86949 (21092022)	206.57498 (21092022)
207.45835 (20101220)	227.12357 (21040202)		
3626744.8	202.14667 (22040523)	227.59187 (22040523)	223.10177 (22062101)
246.04319 (22062101)	240.79827 (22011703)		
3626549.0	207.01298 (21101721)	226.66991 (21101721)	216.70846 (20042724)
272.02041 (20042724)	272.79626 (21090703)		
3626353.1	173.57856 (21061202)	223.60668 (20081402)	230.94899 (21112923)
257.62626 (21112923)	293.16489 (20052123)		
3626157.2	175.85290 (20103021)	197.86251 (22043021)	253.40378 (20061223)
255.74799 (22040823)	267.70516 (20121705)		
3625961.4	165.35254 (22110522)	169.78810 (22123102)	199.51641 (22081101)
220.20972 (22092801)	263.95981 (22050405)		
3625765.5	166.42236 (20021723)	209.87884 (22040423)	200.07042 (22050405)
192.89896 (22051302)	214.48630 (20101401)		
3625569.7	172.26439 (22050405)	199.68755 (22051302)	217.02970 (20022424)
264.22839 (22042324)	250.11685 (20061423)		
3625373.8	165.78748 (20071603)	188.34363 (20101401)	196.92747 (20051324)
236.76640 (20061423)	258.13927 (20052324)		
3625177.9	155.02649 (20032902)	212.14227 (21031622)	219.50233 (22120502)
213.56102 (20052324)	243.97262 (22062801)		
3624982.1	155.52598 (22050401)	210.41871 (20050604)	207.70874 (21100901)
209.69572 (20080806)	220.62725 (21071905)		
3624786.2	200.07139 (20050604)	181.95326 (21100901)	183.80839 (20080806)
217.91245 (21071905)	204.34827 (20050524)		
3624590.4	180.51218 (21100901)	164.57721 (21081303)	177.42480 (20080624)
188.29599 (21052501)	214.72871 (20092303)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:55:07

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	491849.68	492043.78	492237.88
492431.98	492626.08		

3628507.6		117.03577 (20011701)	83.49408 (22122822)	98.55384 (22080905)
84.82016	(22062022)	91.56878 (22062723)		
3628311.7		166.72904 (20050702)	153.20875 (21113001)	100.49687 (20111805)
90.08191	(22062022)	98.70355 (22062723)		
3628115.8		171.45103 (22102622)	170.13015 (22102522)	108.30613 (20111805)
105.46279	(22080905)	104.11884 (22062723)		
3627920.0		159.17826 (22062102)	197.54655 (20090706)	174.71646 (21113001)
119.12354	(22080905)	96.02282 (22062723)		
3627724.1		120.59531 (22090601)	211.42377 (22062102)	260.33862 (22102522)
105.93002	(20111805)	91.66877 (22062723)		
3627528.3		123.62933 (21040201)	115.82738 (22090601)	205.50091 (20090706)
120.20568	(20111805)	117.87287 (22062022)		
3627332.4		112.87229 (22122902)	128.07117 (21040201)	166.92398 (21072302)
387.66225	(22102522)	159.40876 (22080905)		
3627136.5		115.89714 (22090223)	125.43449 (21052423)	149.76171 (21040201)
296.74886	(22062102)	151.95108 (20111805)		
3626940.7		219.82271 (21021623)	207.86267 (22082905)	151.74321 (21081604)
186.28399	(21040201)	447.89963 (22102522)		
3626744.8		293.47609 (22041606)	354.80267 (20051623)	391.24694 (21112321)
340.77000	(22082905)	238.69170 (21081301)		
3626549.0		278.06594 (21090703)	368.93492 (21090703)	422.09682 (21090703)
513.29236	(21090703)	681.26697 (22092802)		
3626353.1		272.19189 (22092203)	336.70721 (20061223)	370.35513 (20121705)
475.81782	(20011918)	693.68159 (20120120)		
3626157.2		308.43248 (21030901)	320.83999 (20011918)	352.80982 (20101401)
429.18014	(20081404)	519.04824 (21020303)		
3625961.4		277.18948 (20071603)	322.72518 (20051324)	337.00356 (20052324)
384.90508	(21040801)	402.87495 (20112021)		
3625765.5		226.37152 (20041701)	270.82080 (20052324)	306.18924 (21071905)
328.83352	(20112421)	337.08821 (20121620)		

3625569.7		277.60103	(20052324)	230.18919	(21071905)	254.92569	(20092303)
292.25441		(21040224)	289.60557	(20021621)			
3625373.8		256.83159	(22062801)	251.85519	(21040801)	259.89107	(20112421)
302.88118		(20112021)	270.89019	(20021220)			
3625177.9		250.84472	(22100802)	271.79923	(21031722)	240.03877	(21040224)
263.23984		(20121620)	238.37096	(20070424)			
3624982.1		244.01074	(20060802)	227.63258	(22081704)	208.91754	(22052202)
215.74659		(21020924)	251.27063	(20090401)			
3624786.2		239.85456	(22081602)	225.51537	(20021622)	231.90154	(20112021)
212.67232		(20021621)	223.71534	(20090401)			
3624590.4		202.47476	(22081704)	209.76275	(20091424)	199.29679	(20070224)
212.94959		(20021220)	212.44667	(20101822)			

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

PAGE 69

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD				X-COORD (METERS)
(METERS)		492820.18	493014.28	493208.38
493402.48		493596.58		

3628507.6		149.09289	(22050623)	144.72225	(20081922)	163.66901	(21100706)
145.08452		(22043024)	120.65531	(22050622)			
3628311.7		160.99771	(22050623)	141.40369	(20081922)	171.22088	(20031321)
164.30237		(21081221)	163.37245	(22082322)			
3628115.8		153.82615	(22050623)	181.32377	(20022901)	192.96603	(20022304)
185.36600		(21081221)	199.61341	(20101624)			
3627920.0		168.73412	(22050623)	213.47623	(20022901)	203.96319	(22061421)
174.78824		(22082322)	160.52232	(21080821)			
3627724.1		240.21207	(22090503)	280.03742	(20022901)	216.42885	(21081221)
246.44474		(20101624)	187.49346	(22081324)			
3627528.3		237.27096	(22090503)	274.14057	(21100706)	225.85913	(21081221)
214.03346		(20100320)	221.48513	(21040924)			
3627332.4		275.30839	(22090503)	307.53768	(20031321)	329.98746	(20101624)
293.68040		(22081324)	247.60441	(21052203)			

3627136.5	274.62407 (22090503)	239.59576 (21081221)	215.31268 (22081324)
244.99741 (21052203)	255.87884 (22091021)		
3626940.7	367.31684 (22103119)	375.11299 (20101624)	298.02597 (21052203)
265.90004 (20081923)	261.02519 (22051721)		
3626744.8	650.85219 (22090503)	511.95665 (21052203)	374.49930 (22051721)
370.04981 (21072203)	189.89454 (21053101)		
3626549.0	871.31910 (20121705)	600.15132 (20101806)	497.54839 (20090820)
365.14516 (20090820)	286.06179 (20090820)		
3626353.1	857.71690 (21060405)	569.24446 (20011219)	447.39568 (22111819)
379.58175 (20092322)	322.15660 (21091323)		
3626157.2	598.29314 (20072601)	514.02767 (20082006)	505.95215 (21102120)
342.67487 (20021620)	260.65557 (22111819)		
3625961.4	455.52314 (20072601)	421.25798 (22071905)	368.69088 (22050521)
371.49526 (21102120)	268.23399 (20021620)		
3625765.5	383.01317 (20072601)	293.65454 (21080902)	304.19699 (20082006)
327.02985 (22072124)	298.28505 (22092623)		
3625569.7	327.37015 (21101320)	235.66019 (22083006)	265.58815 (20061224)
258.12417 (21071002)	265.11943 (20041520)		
3625373.8	306.37441 (22082605)	177.82754 (22083006)	217.74266 (21080102)
218.14831 (21052323)	222.17814 (22050521)		
3625177.9	286.39620 (22082605)	170.21408 (20082203)	237.07469 (22071905)
212.45591 (21103122)	215.53686 (21071002)		
3624982.1	265.51118 (22082605)	165.04300 (20082203)	191.71623 (21080902)
190.35737 (20061224)	187.32885 (21052323)		
3624786.2	248.78467 (22082605)	174.33163 (22081103)	150.56969 (21030703)
170.43702 (20090822)	160.74768 (21103122)		
3624590.4	231.73396 (22082605)	186.00108 (22081103)	138.14716 (21030703)
172.14360 (21080102)	161.19409 (21103122)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 70

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	493790.68	493984.78	494178.88
494372.98	494567.08		

```

- - - - -
3628507.6 | 150.77438 (21072221) 135.97373 (20100320) 129.61899 (22081324)
83.40724 (21122302) 78.51290 (21070722)
3628311.7 | 139.73359 (21080821) 129.86335 (22081324) 98.60381 (21040924)
77.84977 (21070722) 74.91868 (21052203)
3628115.8 | 162.44951 (20100320) 165.52016 (22081324) 88.92749 (21070722)
80.32223 (21052203) 67.03738 (22061501)
3627920.0 | 218.91597 (22081324) 118.54828 (22051722) 97.10721 (21052203)
76.99230 (22091021) 84.42035 (22091021)
3627724.1 | 177.03560 (21122302) 164.50924 (21052203) 119.95118 (22091021)
94.23509 (22082422) 131.21111 (20081923)
3627528.3 | 210.57861 (21052203) 196.74325 (22091021) 126.22115 (20081923)
142.64359 (20081923) 128.65220 (20071323)
3627332.4 | 233.43221 (22091021) 204.06695 (20081923) 178.79326 (20071323)
175.81438 (22051721) 135.37566 (21090103)
3627136.5 | 219.00097 (20071323) 210.90656 (22051721) 166.77092 (22061422)
209.09152 (20081602) 210.88132 (21072203)
3626940.7 | 252.47125 (20081602) 259.93679 (21072203) 179.34195 (21091523)
145.66284 (21012119) 171.71764 (21080324)
3626744.8 | 224.16915 (22072121) 206.36754 (22072121) 167.36722 (21041922)
171.71981 (21041922) 168.24648 (20062123)
3626549.0 | 264.85229 (20090820) 237.24192 (21070923) 198.51194 (21070923)
187.52212 (21070923) 178.60815 (21070923)
3626353.1 | 284.66420 (20070924) 263.78598 (20070924) 203.35183 (22091223)
204.19393 (22091223) 184.81550 (22091223)
3626157.2 | 289.61903 (21072102) 249.34596 (21020719) 228.28465 (21091323)
214.68589 (21091323) 195.82482 (21040722)
3625961.4 | 211.33223 (20092021) 191.27679 (20052322) 227.37693 (21072222)
229.34223 (20092322) 194.22372 (21020719)
3625765.5 | 233.00954 (22052522) 194.65127 (22041522) 164.54543 (22060122)
156.52292 (20052322) 194.49041 (20090703)
3625569.7 | 250.19474 (21102120) 196.35422 (20071201) 191.28387 (20021620)
145.63355 (20082201) 136.92681 (22060122)
3625373.8 | 241.95055 (22062202) 218.08320 (21102120) 168.21970 (20071523)
161.30636 (20072523) 141.60838 (22041522)
3625177.9 | 218.11375 (22072124) 207.90597 (22092722) 193.52935 (21102120)
152.51690 (20081503) 152.87645 (22052522)
3624982.1 | 179.25110 (20090821) 185.15374 (22091921) 183.37245 (22092722)
175.16114 (21102120) 145.67545 (22050422)
3624786.2 | 172.98922 (21071002) 158.04490 (22080903) 163.47936 (20041520)
164.36519 (22080901) 157.08963 (21102120)
3624590.4 | 166.82747 (21052323) 156.59731 (20101621) 157.40398 (22072124)
152.19761 (22081224) 145.66700 (22080901)

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)	X-COORD (METERS)

3628507.6	74.48462 (21052203)
3628311.7	69.23824 (22061501)
3628115.8	86.78178 (22091021)
3627920.0	74.85722 (20081923)
3627724.1	92.82909 (20071323)
3627528.3	113.93223 (22051721)
3627332.4	109.77440 (21110620)
3627136.5	138.81103 (21091523)
3626940.7	176.39160 (22072121)
3626744.8	148.16375 (20062123)
3626549.0	169.95609 (21070923)
3626353.1	167.74031 (21080724)
3626157.2	181.58479 (21040722)
3625961.4	176.41364 (20062523)
3625765.5	192.99227 (21072102)
3625569.7	134.48842 (20052322)
3625373.8	125.94508 (20092021)
3625177.9	146.81455 (20021620)
3624982.1	148.36941 (22052522)
3624786.2	141.83495 (22050422)
3624590.4	138.55466 (21102120)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:55:07

PAGE 72

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	406.39610	(22081103)	492919.80
3625834.65	304.92976	(22081103)		
492955.07	3625845.55	305.19069	(22083006)	493069.86
3625832.73	328.20835	(20061224)		
493094.87	3625832.73	336.94854	(20061224)	493110.90
3625837.21	322.88424	(20061224)		
493151.95	3625834.01	305.31025	(20082006)	493166.70
3625837.86	322.88935	(20082006)		
493187.86	3625836.57	328.26741	(22010819)	493201.33
3625836.57	332.89582	(22010819)		
493240.44	3625836.57	337.91999	(21071002)	492881.32
3625908.40	428.43945	(22081103)		
492906.98	3625898.14	351.96674	(22081103)	492901.84
3625911.60	373.32153	(22081103)		
492928.14	3625914.81	320.15958	(22083006)	492933.91
3625898.14	317.45194	(22083006)		
492951.87	3625908.40	330.69991	(22083006)	492973.67
3625907.11	324.08087	(21030703)		
492993.55	3625914.17	383.61922	(22071905)	492996.11
3625897.50	371.47551	(22071905)		
493015.99	3625896.85	393.73694	(22071905)	493023.05
3625912.24	397.93571	(22071905)		
493044.21	3625907.11	357.51385	(20061224)	493066.66
3625907.76	370.50508	(20061224)		
493085.25	3625912.24	350.52148	(20061224)	493087.18
3625895.57	349.39862	(20061224)		
493108.98	3625911.60	340.13299	(22071602)	493112.19
3625897.50	335.32401	(22042322)		
493133.99	3625901.98	343.95858	(20082006)	492874.27
3625788.48	385.11805	(22081103)		
492894.15	3625789.12	388.20656	(22081103)	492910.18
3625790.40	346.05625	(22081103)		
492930.70	3625786.55	276.99404	(20082203)	492947.38
3625791.04	275.51949	(22083006)		
492963.41	3625787.84	285.05466	(22083006)	492982.65
3625787.84	277.15051	(21030703)		
492999.96	3625787.84	279.34919	(21080902)	493021.12
3625791.04	325.60676	(22071905)		
493036.52	3625789.12	344.63158	(22071905)	493055.75
3625789.76	345.75954	(22071905)		

493076.28	3625787.84	318.00485	(22071905)	493094.87
3625787.84	322.11752	(20061224)		
493112.83	3625788.48	322.12911	(20061224)	493129.50
3625787.19	307.66432	(20061224)		
493148.74	3625787.19	301.56255	(21103122)	493164.77
3625790.40	294.87008	(22071602)		
493184.65	3625789.12	307.03225	(20082006)	493201.97
3625791.04	308.64662	(20082006)		
493221.21	3625790.40	318.53130	(22010819)	493238.52
3625791.04	315.31017	(22010819)		
492780.00	3626415.01	954.49049	(20112107)	492778.72
3626388.08	905.73466	(21040224)		
492747.94	3626386.16	883.55428	(21020303)	492742.16
3626418.22	933.22617	(22040504)		
492699.20	3626422.71	888.73920	(22120301)	492697.92
3626391.93	825.74395	(20081404)		
492678.68	3626411.81	826.91519	(22120301)	492626.09
3626426.56	693.34765	(20112420)		
492606.85	3626435.54	674.31876	(20102405)	492599.16
3626405.39	649.14222	(20112420)		
492491.20	3626644.88	566.98994	(21021501)	492517.36
3626636.70	589.76860	(21021501)		
492521.18	3626603.45	601.64063	(22011703)	492521.72
3626582.19	619.44338	(22062101)		
492512.46	3626553.84	619.36243	(22092802)	492513.55
3626533.13	607.93873	(20061101)		
492501.01	3626506.42	564.87370	(20010922)	492490.65
3626485.70	559.72958	(20050624)		
492479.21	3626464.45	542.36426	(22092203)	492466.12
3626447.00	527.56113	(21041723)		
492447.59	3626418.66	507.17471	(20121705)	492431.78
3626430.65	495.81839	(21041723)		
492481.93	3626620.35	554.86697	(20051623)	492482.48
3626594.18	582.03004	(22092202)		
492479.21	3626572.92	572.10511	(22040523)	492477.02
3626546.76	580.31630	(21090703)		
492467.76	3626523.32	568.13947	(20061101)	492463.94
3626507.51	538.46731	(20010922)		
492450.86	3626492.79	519.72900	(21112923)	492427.42
3626474.80	506.77063	(20050624)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:55:07

PAGE 73

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	485.22779	(22092203)	492803.94
3626616.07	1361.72319	(22102522)		
492823.25	3626567.17	937.43546	(22102522)	492838.34
3626526.92	691.28217	(22012923)		
493039.78	3625834.45	363.34097	(22071905)	492743.19
3626628.92	590.66612	(21072302)		
492791.92	3626663.04	943.87460	(21113001)	492731.11
3626741.92	909.53619	(22102522)		
492774.75	3626728.05	597.32520	(21113001)	492674.05
3626738.96	569.36679	(21072302)		
492708.49	3626698.47	734.46392	(21072302)	492703.25
3626652.75	394.20043	(22010804)		
493013.27	3625844.49	352.85840	(22071905)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 74

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
490879.18	491073.28
491461.48	491267.38
491655.58	

3628507.6	66.90792 (21052422)	76.59530 (22072901)	80.39053 (22062102)
92.71990 (20090706)	71.71806 (20122121)		
3628311.7	78.68910 (22090601)	76.22175 (22080803)	98.28531 (22072901)
90.27599 (22102622)	102.66074 (20050702)		
3628115.8	78.29932 (21092903)	96.13341 (22090601)	82.39374 (22080803)
109.85047 (22062102)	105.31989 (20090706)		
3627920.0	87.97643 (21011618)	89.53363 (21092903)	111.21111 (22090601)
93.45057 (22072901)	112.31635 (22062102)		
3627724.1	81.61046 (22051505)	100.49066 (21011618)	100.22385 (21092903)
120.02507 (22090601)	128.64269 (22072901)		
3627528.3	92.33916 (20101702)	94.23633 (22032023)	113.11721 (21011618)
110.98122 (21092903)	119.91568 (21052422)		
3627332.4	97.82607 (21052423)	108.35520 (22122902)	110.10362 (22032023)
125.40863 (21011618)	116.68072 (21092903)		
3627136.5	106.77087 (22042905)	109.00405 (22120522)	123.52937 (22122902)
119.40678 (22032023)	142.04705 (21040201)		
3626940.7	122.46634 (20081623)	126.50384 (22090223)	121.35794 (22092824)
136.04704 (21052423)	121.19434 (20101805)		
3626744.8	119.74187 (21021622)	131.75145 (20080201)	145.63885 (20081623)
144.55666 (21081604)	138.65378 (22120522)		
3626549.0	118.48136 (22011221)	135.52621 (21093023)	137.47307 (21012123)
160.92037 (20080201)	171.56133 (20081623)		
3626353.1	133.42504 (21022323)	155.04604 (22042401)	157.09212 (22101701)
163.10784 (21040202)	189.80939 (22090602)		
3626157.2	131.48006 (20080123)	145.43354 (20080123)	167.07953 (22111307)
186.13410 (20042623)	210.58134 (21022323)		
3625961.4	137.38186 (20101523)	148.11161 (20101523)	153.94101 (20101523)
181.69976 (22061923)	217.55206 (22061923)		
3625765.5	146.22031 (22081005)	168.27370 (22081005)	181.00284 (22081005)
193.63289 (20051622)	215.30710 (20051622)		
3625569.7	129.58465 (20121324)	151.30952 (20070603)	174.66250 (20052123)
193.37028 (22042923)	198.23591 (20103021)		
3625373.8	133.99191 (21050502)	145.28450 (20103020)	159.90038 (20021206)
193.06097 (20052024)	207.99473 (22092004)		
3625177.9	130.90907 (22110522)	155.77378 (22092004)	174.15116 (20041622)
177.83015 (22092801)	217.02612 (22050405)		
3624982.1	132.60117 (20021723)	150.97138 (22092801)	173.92268 (22050405)
184.17318 (20051323)	200.13851 (20041521)		
3624786.2	147.33701 (22050405)	148.63818 (20051323)	160.31311 (20122604)
188.39190 (21040222)	195.64646 (21031622)		
3624590.4	129.81839 (21030301)	148.78542 (20012122)	160.88992 (21110822)
165.64915 (21031622)	189.90328 (20050604)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***
INCLUDING SOURCE(S): STCK2 ,

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

		** CONC OF PM ₁₀ IN MICROGRAMS/M**3			
Y-COORD (METERS)				X-COORD (METERS)	
492431.98		491849.68	492626.08	492043.78	492237.88

3628507.6		113.37040 (22090703)	100.02872 (20111805)	81.76057 (21030323)	
112.62120		(21081223)	104.82793 (21071322)		
3628311.7		106.85175 (22090703)	113.31212 (22122822)	117.85092 (20101705)	
128.02146		(21081223)	117.55465 (21071322)		
3628115.8		88.46856 (20122121)	125.27390 (22090703)	139.09003 (20111805)	
116.68884		(22080905)	120.53108 (21071322)		
3627920.0		124.85846 (20050702)	133.24420 (22090703)	126.03614 (20111805)	
131.90970		(22080905)	110.27778 (22062022)		
3627724.1		118.39118 (22102622)	119.31571 (22102522)	146.22499 (22122822)	
131.71965		(20101705)	126.17571 (22062022)		
3627528.3		143.28216 (22072901)	140.37110 (20090706)	160.72007 (22090703)	
177.10101		(20111805)	182.14711 (21081223)		
3627332.4		123.64680 (22080803)	138.77074 (22062102)	161.59882 (22102522)	
174.70076		(22122822)	186.56028 (22080905)		
3627136.5		128.33215 (22090601)	144.51202 (22072901)	157.67106 (20090706)	
193.27595		(22090703)	171.23870 (22080905)		
3626940.7		164.77559 (21040201)	161.23293 (22090601)	187.98686 (22072901)	
194.83970		(22102522)	218.26215 (20111805)		
3626744.8		160.37197 (22122902)	207.56637 (21040201)	217.80031 (22090601)	
179.51991		(22062102)	248.67294 (22090703)		
3626549.0		175.69440 (21081604)	225.18176 (21052423)	255.20319 (21040201)	
235.91513		(22090601)	257.47501 (22102522)		
3626353.1		175.30069 (20080201)	236.30447 (22090223)	236.15415 (22120522)	
321.90538		(21040201)	355.85100 (22072901)		
3626157.2		225.76610 (22110520)	239.28696 (21040202)	279.11759 (21021622)	
338.51023		(22090223)	396.37499 (22032023)		
3625961.4		237.77427 (22051301)	244.79818 (21010801)	275.05638 (20080123)	
326.08544		(21092022)	473.14183 (21040202)		
3625765.5		234.97415 (20051622)	266.24676 (22090201)	288.43975 (22090201)	
357.52144		(20070603)	453.39270 (20103021)		
3625569.7		219.46225 (20103020)	226.20578 (20021206)	261.21640 (22081101)	
310.51047		(20011918)	388.10376 (20051324)		
3625373.8		232.75195 (20041622)	237.75336 (20011918)	248.38871 (20041521)	
316.64108		(21031622)	347.17943 (21071905)		

3625177.9 | 221.66966 (22051302) 251.32443 (21040222) 225.96688 (22120502)
309.49382 (22062801) 332.30302 (21031722)
3624982.1 | 229.84575 (21110822) 240.67063 (20050604) 242.64616 (21081303)
298.79655 (21040801) 344.08691 (20021622)
3624786.2 | 219.86933 (20050604) 242.61767 (21081303) 230.19985 (22100802)
266.75780 (22081602) 266.72575 (20112021)
3624590.4 | 217.34873 (21081303) 223.84234 (21071905) 249.61986 (20060802)
268.21734 (20021622) 267.94605 (22103002)
▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

PAGE 76
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data
*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***
INCLUDING SOURCE(S): STCK2 ,
*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**
Y-COORD | X-COORD (METERS)
(METERS) | 492820.18 493014.28 493208.38
493402.48 493596.58
- - - - -
- - - - -

3628507.6 | 114.34319 (22103119) 101.26114 (22050623) 106.74687 (20081922)
102.01123 (20022901) 122.67233 (20031321)
3628311.7 | 113.35002 (22103119) 111.32071 (22050623) 117.11664 (20081922)
125.38188 (21100706) 127.73371 (20022304)
3628115.8 | 116.80204 (22062723) 124.73047 (22050623) 152.44033 (20081922)
162.72534 (21100706) 144.72663 (22061421)
3627920.0 | 144.52506 (22062723) 134.77489 (22050623) 166.20734 (20081922)
183.55620 (21100706) 164.48914 (22061421)
3627724.1 | 198.60856 (22062723) 172.23814 (22050623) 169.01346 (20081922)
160.28319 (20031321) 171.34543 (22043024)
3627528.3 | 185.84182 (22062723) 179.11831 (22050623) 192.67960 (20022901)
186.36863 (20031321) 188.97126 (21081221)
3627332.4 | 186.49656 (22062723) 194.10874 (22050623) 225.56794 (20022901)
210.22116 (22061421) 161.89893 (21081221)
3627136.5 | 167.70290 (21071322) 188.79162 (22050623) 204.14413 (20022901)
169.81763 (22043024) 239.10601 (20101624)
3626940.7 | 194.29445 (22062022) 210.67275 (22050623) 219.21010 (21100706)
207.48052 (21081221) 162.71417 (21080821)

3626744.8	245.17817 (22062022)	247.33471 (22050623)	245.90589 (20031321)
251.78988 (20101624)	183.39224 (22081324)		
3626549.0	326.81322 (22080905)	297.86217 (22090503)	290.49308 (22061421)
230.22019 (20100320)	234.10643 (21122302)		
3626353.1	420.90369 (20111805)	376.57498 (22090503)	371.57891 (21081221)
346.80221 (22081324)	338.00402 (22091021)		
3626157.2	512.16625 (22102522)	601.89866 (22090503)	486.63279 (22081324)
447.10688 (22091021)	321.00310 (22051721)		
3625961.4	675.26301 (21052423)	1033.17368 (20022901)	761.99634 (20081923)
589.90455 (21072203)	399.20460 (21110518)		
3625765.5	785.99574 (22092801)	1127.28280 (22092602)	911.30131 (21020719)
649.64150 (21083001)	507.99963 (22091223)		
3625569.7	539.86114 (21040801)	797.75885 (22081103)	572.87576 (22100904)
490.70227 (22082502)	481.18539 (21070803)		
3625373.8	481.71482 (21040224)	452.23647 (21101320)	448.01163 (22070601)
399.95994 (22080701)	360.91586 (20071003)		
3625177.9	379.34351 (20121620)	440.74659 (21101320)	405.28522 (21061223)
406.56833 (22072201)	379.77281 (20051621)		
3624982.1	365.48180 (20021621)	406.10578 (22082605)	386.98895 (20031421)
349.82154 (21080802)	334.28974 (21092804)		
3624786.2	321.67435 (20021220)	372.67483 (22082605)	361.06492 (21030703)
329.81186 (21013120)	330.66681 (22080705)		
3624590.4	269.80422 (20070424)	344.15518 (22082605)	345.66698 (22090723)
314.54604 (21061223)	295.11890 (22081002)		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 77

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	493790.68	493984.78	494178.88
494372.98	494567.08		

3628507.6	112.20434 (22043024)	117.90569 (21081221)	92.24059 (22082322)
42.16724 (22091722)	60.51297 (20100320)		

3628311.7	132.23565 (22043024)	97.96706 (22050622)	95.33011 (21072221)
71.00841 (21080821)	60.96345 (20100320)		
3628115.8	156.37387 (21081221)	131.05950 (22082322)	57.68485 (22091722)
72.24491 (20100320)	84.53378 (22081324)		
3627920.0	147.92550 (21081221)	161.91790 (20101624)	92.90325 (21080821)
70.89413 (21081621)	88.68219 (21040924)		
3627724.1	144.24099 (22082322)	115.40099 (21072221)	116.31844 (20100320)
124.49028 (22081324)	112.21874 (22051722)		
3627528.3	197.18922 (20101624)	149.28954 (20100320)	190.15256 (22081324)
162.58826 (21122302)	164.28398 (21052203)		
3627332.4	144.90950 (21080821)	163.63386 (22081324)	197.81930 (21122302)
181.21145 (21052203)	157.38612 (22061501)		
3627136.5	195.06883 (20100320)	201.89083 (21040924)	185.77412 (21052203)
182.88071 (22061501)	227.78161 (22091021)		
3626940.7	250.74652 (22081324)	177.45632 (21070722)	200.72176 (22061501)
223.10802 (22091021)	167.10432 (20081923)		
3626744.8	174.14419 (21070722)	193.86745 (22061501)	162.25514 (22091021)
194.22297 (20081923)	180.04674 (20071323)		
3626549.0	253.10692 (22061501)	198.17922 (22121802)	192.88260 (20071323)
181.55150 (22051721)	162.06621 (21090103)		
3626353.1	308.84775 (20081923)	254.97126 (22051721)	188.83915 (21090103)
264.59196 (20081602)	256.87579 (21072203)		
3626157.2	334.15102 (20081602)	355.02755 (21072203)	229.22497 (22102102)
221.56300 (21012119)	246.37366 (21080324)		
3625961.4	307.41585 (20062123)	346.10435 (20062123)	306.56561 (20062123)
260.15646 (20031703)	279.86819 (20031703)		
3625765.5	440.21176 (21020619)	406.51706 (21020619)	350.96543 (21020619)
319.10678 (22091222)	289.08168 (22091222)		
3625569.7	429.46386 (21020719)	405.66196 (21091323)	356.23653 (21040722)
312.86029 (21040722)	314.66447 (20070924)		
3625373.8	370.90731 (20110219)	361.84042 (21052723)	347.77963 (21072102)
318.73805 (21020719)	280.79754 (20041206)		
3625177.9	332.62352 (20042722)	347.51245 (22082502)	322.44517 (21063023)
309.09947 (21052723)	284.04066 (21072222)		
3624982.1	341.07234 (20051621)	302.49913 (22040123)	298.40160 (22082523)
294.62226 (22073105)	282.91843 (21063023)		
3624786.2	292.79776 (20041404)	301.77334 (20110221)	252.39430 (22040123)
219.63858 (20071003)	251.90973 (22082502)		
3624590.4	281.92112 (22072201)	234.31991 (21111920)	272.56727 (20110221)
224.72142 (20050501)	224.49973 (20071003)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 78

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	54.48585 (21081621)
3628311.7	94.24744 (22081324)
3628115.8	83.06121 (21122302)
3627920.0	69.23383 (22051722)
3627724.1	104.51280 (21052203)
3627528.3	104.18927 (22061501)
3627332.4	169.54165 (22091021)
3627136.5	129.85961 (22121802)
3626940.7	152.65218 (20071323)
3626744.8	178.02467 (22051721)
3626549.0	164.78398 (21110620)
3626353.1	187.48713 (22102102)
3626157.2	210.26279 (22072121)
3625961.4	240.34111 (20031703)
3625765.5	248.17617 (22091222)
3625569.7	231.62228 (22091124)
3625373.8	291.89851 (21091323)
3625177.9	272.19812 (20092322)
3624982.1	264.17214 (21052723)
3624786.2	220.17046 (20092021)
3624590.4	233.23112 (22041522)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 79

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC	CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)
492883.25	3625830.80	983.49207	(22081005)	492919.80
3625834.65	909.70878 (21061601)			
492955.07	3625845.55	655.95337	(22092802)	493069.86
3625832.73	1714.13040 (22011423)			
493094.87	3625832.73	1540.70684	(21092324)	493110.90
3625837.21	1486.73131 (20101806)			
493151.95	3625834.01	1287.50854	(21092324)	493166.70
3625837.86	1226.39395 (20101806)			
493187.86	3625836.57	1141.24524	(20101806)	493201.33
3625836.57	1092.11496 (20101806)			
493240.44	3625836.57	977.09868	(20090820)	492881.32
3625908.40	812.43261 (21081604)			
492906.98	3625898.14	800.46915	(21081604)	492901.84
3625911.60	841.35904 (22032023)			
492928.14	3625914.81	823.02152	(21040201)	492933.91
3625898.14	856.76730 (21040201)			
492951.87	3625908.40	917.42059	(22102522)	492973.67
3625907.11	933.12857 (20111805)			
492993.55	3625914.17	1002.10337	(22090503)	492996.11
3625897.50	773.43375 (20011819)			
493015.99	3625896.85	820.65320	(22010702)	493023.05
3625912.24	1129.22407 (21081221)			
493044.21	3625907.11	1391.35349	(22010702)	493066.66
3625907.76	1242.31372 (22010702)			
493085.25	3625912.24	934.19048	(21052203)	493087.18
3625895.57	1128.14501 (20081923)			
493108.98	3625911.60	1009.23776	(20081923)	493112.19
3625897.50	1035.05140 (20071323)			
493133.99	3625901.98	954.08958	(20071323)	492874.27
3625788.48	893.28753 (20011918)			
492894.15	3625789.12	946.21878	(20011918)	492910.18
3625790.40	915.21201 (20011918)			
492930.70	3625786.55	978.79109	(22120301)	492947.38
3625791.04	1098.27876 (22120301)			
492963.41	3625787.84	934.07074	(20021622)	492982.65
3625787.84	925.72537 (22012923)			
492999.96	3625787.84	932.59716	(22012923)	493021.12
3625791.04	1128.50582 (22092602)			
493036.52	3625789.12	1167.91826	(21081022)	493055.75
3625789.76	1209.69491 (22051422)			
493076.28	3625787.84	1293.32340	(21072003)	493094.87
3625787.84	1442.81746 (22082504)			
493112.83	3625788.48	1234.76646	(20082306)	493129.50
3625787.19	1145.40962 (22092902)			

493148.74	3625787.19	1075.30479	(22092902)	493164.77
3625790.40	1072.80501	(20082305)		
493184.65	3625789.12	1014.88709	(20082305)	493201.97
3625791.04	1001.54677	(21040722)		
493221.21	3625790.40	964.75544	(21040722)	493238.52
3625791.04	920.52934	(21083001)		
492780.00	3626415.01	341.54217	(20111805)	492778.72
3626388.08	360.79881	(22090703)		
492747.94	3626386.16	376.97944	(22090703)	492742.16
3626418.22	370.54090	(22090703)		
492699.20	3626422.71	352.60494	(22102522)	492697.92
3626391.93	335.78407	(22102522)		
492678.68	3626411.81	321.83932	(20050702)	492626.09
3626426.56	302.33161	(22062102)		
492606.85	3626435.54	315.78330	(22072901)	492599.16
3626405.39	344.03950	(22072901)		
492491.20	3626644.88	221.71507	(22062102)	492517.36
3626636.70	216.71334	(20090706)		
492521.18	3626603.45	226.68829	(22062102)	492521.72
3626582.19	247.61868	(22062102)		
492512.46	3626553.84	275.87525	(22072901)	492513.55
3626533.13	278.92031	(22072901)		
492501.01	3626506.42	251.65507	(22072901)	492490.65
3626485.70	258.27195	(22090601)		
492479.21	3626464.45	284.81019	(22090601)	492466.12
3626447.00	276.00685	(22090601)		
492447.59	3626418.66	273.65090	(22092901)	492431.78
3626430.65	271.02464	(22092901)		
492481.93	3626620.35	248.39884	(22072901)	492482.48
3626594.18	266.63732	(22072901)		
492479.21	3626572.92	267.98009	(22072901)	492477.02
3626546.76	251.82746	(22072901)		
492467.76	3626523.32	237.18563	(22090601)	492463.94
3626507.51	261.21807	(22090601)		
492450.86	3626492.79	274.91848	(22090601)	492427.42
3626474.80	246.43029	(22090601)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 80

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	264.84613	(22092901)	492803.94
3626616.07	309.26215	(22080905)		
492823.25	3626567.17	316.05286	(22080905)	492838.34
3626526.92	319.65092	(22080905)		
493039.78	3625834.45	1506.87379	(22011423)	492743.19
3626628.92	313.68403	(20111805)		
492791.92	3626663.04	297.22195	(22080905)	492731.11
3626741.92	243.51013	(20111805)		
492774.75	3626728.05	278.69353	(22080905)	492674.05
3626738.96	265.67647	(20111805)		
492708.49	3626698.47	297.04780	(20111805)	492703.25
3626652.75	286.58666	(20111805)		
493013.27	3625844.49	646.68587	(22090503)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 81

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,
*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

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

**

Y-COORD (METERS)	X-COORD (METERS)
490879.18	491073.28
491461.48	491267.38
491655.58	
3628507.6 81.88598 (21011618)	83.30470 (21031402)
102.32758 (22072901)	86.06467 (22090601)
3628311.7 82.67006 (20081606)	
87.60560 (22032023)	87.75467 (21011618)
82.50432 (22090601)	86.05238 (22011702)
104.70746 (22072901)	

3628115.8	86.26470 (22122902)	95.12220 (22032023)	95.66084 (21040201)
92.97427 (22011702)	96.43088 (20070601)		
3627920.0	89.98420 (20101707)	98.24286 (22122902)	99.50195 (22032023)
108.27245 (21040201)	112.60392 (22090601)		
3627724.1	107.58539 (22090223)	99.92772 (22120202)	109.95416 (21052423)
105.01378 (20101805)	131.89949 (21040201)		
3627528.3	104.22430 (20050803)	117.97791 (20081623)	117.32709 (21081604)
115.05790 (20101707)	121.22666 (22122902)		
3627332.4	106.57596 (21093023)	108.24381 (21020722)	114.74082 (20050803)
138.21843 (20081623)	141.04222 (21081604)		
3627136.5	142.77125 (22110520)	131.37703 (22110520)	120.31155 (22101701)
126.44763 (21093023)	128.08611 (21021623)		
3626940.7	146.30828 (20080123)	140.33881 (22111307)	156.05624 (22111307)
161.81152 (21022323)	194.44251 (22110520)		
3626744.8	143.94980 (22061823)	161.06184 (21052505)	156.61881 (21101723)
183.56278 (22010620)	202.29689 (22010620)		
3626549.0	149.42678 (20051622)	166.34389 (20051622)	160.14092 (20051622)
199.03572 (22090201)	197.06130 (22090201)		
3626353.1	132.61144 (20052123)	162.11340 (22042923)	179.31593 (20103021)
180.63917 (21050502)	216.63347 (20061223)		
3626157.2	125.41784 (20061223)	121.62363 (20052024)	145.27621 (22110522)
176.16004 (22081101)	190.03236 (20011918)		
3625961.4	116.74752 (22081101)	115.66384 (20021723)	132.76555 (20011918)
152.05066 (20051323)	177.88460 (20101401)		
3625765.5	113.88721 (20011918)	142.98905 (20051323)	128.38010 (21051102)
133.60252 (21040222)	141.24200 (20041701)		
3625569.7	115.80425 (21051102)	133.75592 (20101401)	157.60698 (20032322)
152.34431 (20102401)	159.11040 (20052324)		
3625373.8	115.04210 (21040222)	140.68772 (20051324)	131.77209 (20061423)
157.74819 (20052324)	169.10448 (21071602)		
3625177.9	109.19608 (21071703)	136.46018 (20061423)	150.43641 (20052324)
153.92196 (22030622)	170.72796 (21071905)		
3624982.1	117.46824 (20112224)	143.87007 (20052324)	152.53070 (22030622)
148.79872 (21071905)	159.48258 (21040801)		
3624786.2	136.05855 (20052324)	140.59492 (22030622)	138.04908 (21042703)
147.16646 (22100802)	156.94121 (20060802)		
3624590.4	138.09350 (22030622)	132.47124 (21042703)	128.15690 (22100802)
145.84773 (22050923)	156.42010 (22081602)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:55:07

PAGE 82

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
	491849.68		492043.78	492237.88
492431.98		492626.08		

3628507.6		102.07194 (22102522)	99.79916 (22122822)	114.97392 (22080905)
104.37988		(22062022)	109.34072 (22062723)	
3628311.7		109.94862 (22101422)	119.40529 (22090703)	117.93832 (20111805)
111.37718		(22062022)	120.90120 (22062723)	
3628115.8		99.10853 (21050323)	120.80679 (22102522)	127.67985 (20111805)
115.07896		(22080905)	130.28687 (22062723)	
3627920.0		133.30332 (22072901)	117.46195 (22101422)	130.32061 (22090703)
137.11295		(22080905)	122.27531 (22062723)	
3627724.1		134.01896 (22090601)	131.47480 (22072901)	145.09968 (22102522)
122.09696		(20111805)	117.37960 (22062723)	
3627528.3		146.87748 (21040201)	131.26238 (22090601)	112.20018 (22101422)
138.86470		(20111805)	146.23361 (22062022)	
3627332.4		133.79840 (21052423)	148.19690 (21040201)	149.41991 (22090601)
191.64740		(22102522)	178.79259 (22080905)	
3627136.5		150.62644 (20081623)	136.26980 (21052423)	171.22370 (21040201)
183.21623		(22072901)	177.60454 (20111805)	
3626940.7		150.74588 (22101701)	158.41589 (21093023)	199.30077 (22090223)
216.90360		(22032023)	226.60114 (22102522)	
3626744.8		250.41019 (21010801)	290.02208 (21112924)	324.88578 (22111307)
349.55495		(22110520)	295.16856 (20031323)	
3626549.0		191.66537 (21061202)	262.81338 (20070603)	321.81031 (20052123)
368.99858		(20061223)	417.91534 (22042106)	
3626353.1		166.11561 (22110522)	220.72657 (20041622)	282.98459 (20051323)
315.70302		(21102822)	418.82074 (21061101)	
3626157.2		205.12656 (20051323)	213.52709 (21040222)	251.88737 (20100107)
290.91534		(21071905)	306.60162 (20112021)	
3625961.4		191.81526 (20051324)	192.16805 (20120120)	213.16932 (22062801)
248.71494		(22081602)	233.41925 (20121620)	
3625765.5		156.06947 (21090704)	184.84482 (22062801)	201.68229 (22050923)
203.52747		(21040224)	184.69680 (20021220)	
3625569.7		180.81196 (22062801)	172.31491 (21040801)	177.05889 (21032821)
187.88894		(20112021)	159.63795 (20070424)	
3625373.8		166.06852 (21071905)	184.37690 (21113007)	164.63599 (21040224)
170.27568		(20121620)	153.22352 (20090401)	
3625177.9		173.07997 (22050923)	168.64440 (20112421)	141.43902 (20091424)
139.18258		(20021621)	140.59573 (20090401)	
3624982.1		169.67947 (21031722)	151.55011 (20021622)	156.90139 (20112021)
134.93722		(20101821)	136.80005 (20101822)	

3624786.2		150.63747	(20112421)	142.98229	(20091424)	134.54197	(20121620)
132.32642		(20021220)	129.01976	(20101822)			
3624590.4		139.05754	(20021622)	132.93669	(20112021)	124.60142	(20121620)
118.53066		(20021220)	125.13987	(20011420)			

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 83

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD				X-COORD (METERS)
(METERS)		492820.18	493014.28	493208.38
493402.48		493596.58		

3628507.6		110.48267	(22050623)	117.19827	(20022901)	123.87591	(20031321)
118.97251		(21081221)	116.57819	(22082322)			
3628311.7		115.08912	(22050623)	125.58294	(20022901)	101.35515	(20022304)
121.68128		(21081221)	144.84019	(20101624)			
3628115.8		111.29998	(22050623)	134.11410	(20022901)	122.63172	(22043024)
123.09248		(22082322)	99.95886	(21031321)			
3627920.0		117.98510	(22050623)	127.96618	(21100706)	148.50605	(21081221)
168.21096		(20101624)	134.09322	(20100320)			
3627724.1		138.18612	(22050623)	164.93261	(20031321)	142.97053	(21081221)
137.37752		(20100320)	166.11792	(22081324)			
3627528.3		139.98247	(22050623)	165.84952	(20031321)	198.51500	(20101624)
197.34792		(22081324)	169.56651	(21052203)			
3627332.4		160.85536	(22050623)	213.95303	(21081221)	201.89439	(20100320)
188.46740		(21070722)	158.99062	(22091021)			
3627136.5		176.22575	(21053124)	215.59581	(20101624)	175.86183	(21040924)
173.46613		(22091021)	200.25653	(20032305)			
3626940.7		247.90898	(20022901)	289.05059	(22010702)	203.04003	(22091021)
174.03153		(20080320)	208.26966	(21072203)			
3626744.8		442.78826	(20101624)	340.09364	(20080320)	368.44006	(21080324)
425.88597		(22072121)	253.46927	(22072121)			
3626549.0		486.82713	(20113022)	469.51354	(21091323)	644.94201	(21081523)
464.60726		(21080724)	352.40090	(21080724)			

3626353.1		369.30590	(22081103)	286.85759	(22080701)	264.40969	(22082502)
214.27293		(21052723)	266.43687	(21091323)			
3626157.2		271.25634	(22082605)	235.04140	(22081002)	213.73360	(20051621)
181.03970		(22041522)	180.91398	(22073105)			
3625961.4		216.47502	(22082605)	190.02169	(21060903)	186.66335	(22072201)
170.53253		(20051621)	162.15546	(20071201)			
3625765.5		180.09603	(22082605)	175.57954	(20052502)	161.07409	(22010819)
142.16196		(20080301)	148.30040	(20110221)			
3625569.7		159.73165	(22082605)	161.12755	(21030703)	146.75544	(22071602)
146.70351		(20101621)	119.54939	(22122323)			
3625373.8		150.13982	(22082605)	141.10260	(21030703)	131.20520	(20061224)
131.44356		(22010819)	126.34396	(20092323)			
3625177.9		140.58546	(22082605)	134.84684	(20042523)	127.49491	(22071905)
116.85365		(22071602)	125.63267	(21071002)			
3624982.1		131.71468	(22082605)	119.12985	(22052124)	123.57484	(21080902)
107.39457		(22071602)	115.27242	(22010819)			
3624786.2		124.62046	(22082605)	116.68433	(22052124)	122.98332	(20052502)
107.73178		(20061224)	99.42834	(22121819)			
3624590.4		118.61444	(22082605)	109.83793	(22052124)	111.92725	(21030703)
99.80185		(21061223)	102.37012	(22071602)			

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 84

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)			
494372.98		493790.68	493984.78
		494567.08	494178.88

3628507.6		80.37567	(21080821)	94.82966	(20100320)	96.19064	(21040924)
62.25166		(21070722)	80.16759	(21052203)			
3628311.7		123.45366	(20100320)	140.52341	(22081324)	71.33028	(22051722)
81.63529		(21052203)	57.54040	(22061501)			
3628115.8		148.00974	(22081324)	112.19335	(21122302)	100.48054	(21052203)
59.20837		(22061501)	72.18272	(22091021)			

3627920.0	135.30786 (21040924)	133.11220 (21052203)	70.91151 (22061501)
78.55806 (22091021)	59.08914 (21052202)		
3627724.1	154.57618 (21052203)	100.88324 (22061501)	93.34404 (22091021)
63.03535 (20032305)	65.83616 (20071323)		
3627528.3	127.50533 (22091021)	106.20992 (22082422)	110.63904 (20032305)
97.82292 (22122819)	85.97632 (22051721)		
3627332.4	147.99284 (20032305)	127.80415 (22122819)	117.11566 (21052201)
123.96576 (20042419)	114.59363 (20081602)		
3627136.5	154.14136 (21052201)	154.18246 (22061422)	164.01733 (21072203)
151.61350 (21072203)	140.89495 (21052124)		
3626940.7	214.72333 (21072203)	189.97251 (21080324)	243.16079 (21080324)
226.58666 (22072121)	203.42683 (22072121)		
3626744.8	237.48576 (21071321)	224.29117 (21071321)	210.02405 (20061323)
199.98677 (20061323)	195.44972 (20061323)		
3626549.0	333.72232 (21080724)	285.71287 (20070922)	214.70135 (20081921)
201.80884 (20081921)	189.18676 (20081921)		
3626353.1	327.24671 (21091323)	301.27701 (21081701)	239.90861 (21081523)
240.27357 (20070924)	222.15986 (20101719)		
3626157.2	165.71970 (21052723)	140.91334 (21072102)	145.70426 (21091323)
214.73555 (21091323)	214.07897 (21091323)		
3625961.4	156.91562 (22082502)	148.09007 (21063023)	138.20405 (21052723)
120.30012 (21072222)	111.90888 (20092322)		
3625765.5	138.68348 (20071201)	139.96581 (22041522)	137.50136 (22073105)
129.19738 (21063023)	120.64272 (21052723)		
3625569.7	130.95832 (20110221)	121.68832 (20042722)	115.46227 (22041522)
120.75601 (22082502)	113.34068 (22073105)		
3625373.8	118.65662 (22081224)	117.17975 (20110221)	107.53324 (20050501)
104.08318 (21071124)	109.70417 (22041522)		
3625177.9	109.47439 (20080301)	113.04951 (22080701)	106.46657 (22070621)
102.13775 (20050501)	103.43804 (20071201)		
3624982.1	115.96469 (22072201)	89.90424 (20041404)	104.88854 (22080701)
99.86289 (22070621)	96.54368 (20050501)		
3624786.2	109.23958 (21071002)	100.11262 (20092323)	84.81463 (20041520)
92.46347 (22080701)	94.33077 (22070621)		
3624590.4	103.54521 (22010819)	104.01182 (22072201)	92.09597 (20080301)
85.57648 (20041520)	92.96327 (22081701)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 85

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)

494761.18

3628507.6	59.28093 (22061501)
3628311.7	76.32293 (22091021)
3628115.8	57.19872 (22082422)
3627920.0	54.97053 (20032305)
3627724.1	51.50517 (22122819)
3627528.3	64.41737 (22061422)
3627332.4	95.11748 (21072203)
3627136.5	131.81163 (22102203)
3626940.7	174.49930 (21030922)
3626744.8	179.38937 (22120119)
3626549.0	175.31553 (20081921)
3626353.1	203.72952 (21071921)
3626157.2	194.64211 (21081701)
3625961.4	112.34644 (20092322)
3625765.5	105.34675 (20090703)
3625569.7	112.47380 (21063023)
3625373.8	108.06689 (22073105)
3625177.9	105.82293 (22041522)
3624982.1	102.03863 (20071201)
3624786.2	93.19910 (21081124)
3624590.4	88.59216 (22070621)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 86

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

492883.25	3625830.80	185.75948	(21103123)	492919.80
3625834.65	182.67964 (20042523)			
492955.07	3625845.55	190.29941	(21030703)	493069.86
3625832.73	170.23930 (20061224)			
493094.87	3625832.73	165.07413	(22071602)	493110.90
3625837.21	168.29189 (22071602)			
493151.95	3625834.01	160.79109	(22081002)	493166.70
3625837.86	166.99292 (22081002)			
493187.86	3625836.57	172.08483	(22010819)	493201.33
3625836.57	172.65121 (22010819)			
493240.44	3625836.57	170.12183	(20101621)	492881.32
3625908.40	197.84890 (21103123)			
492906.98	3625898.14	192.99714	(20042523)	492901.84
3625911.60	194.60671 (20042523)			
492928.14	3625914.81	201.94681	(21030703)	492933.91
3625898.14	199.31701 (21030703)			
492951.87	3625908.40	199.98623	(21030703)	492973.67
3625907.11	201.12941 (20052502)			
492993.55	3625914.17	193.13823	(21080902)	492996.11
3625897.50	190.13248 (21080902)			
493015.99	3625896.85	182.99171	(21080902)	493023.05
3625912.24	178.29521 (21060903)			
493044.21	3625907.11	181.42314	(20061224)	493066.66
3625907.76	176.29758 (20061224)			
493085.25	3625912.24	179.01957	(22071602)	493087.18
3625895.57	176.28597 (22071602)			
493108.98	3625911.60	170.83176	(22071602)	493112.19
3625897.50	169.66542 (22071602)			
493133.99	3625901.98	173.75268	(22081002)	492874.27
3625788.48	181.74456 (21103123)			
492894.15	3625789.12	175.70328	(21103123)	492910.18
3625790.40	172.01016 (22052124)			
492930.70	3625786.55	175.75051	(20042523)	492947.38
3625791.04	179.53568 (21030703)			
492963.41	3625787.84	181.48653	(21030703)	492982.65
3625787.84	180.36619 (20052502)			
492999.96	3625787.84	180.68631	(20052502)	493021.12
3625791.04	174.88746 (21080902)			
493036.52	3625789.12	171.68388	(21080902)	493055.75
3625789.76	161.72909 (21080902)			
493076.28	3625787.84	164.99470	(20061224)	493094.87
3625787.84	164.41336 (20061224)			
493112.83	3625788.48	161.12552	(22071602)	493129.50
3625787.19	163.21357 (22071602)			
493148.74	3625787.19	159.73794	(22071602)	493164.77
3625790.40	153.92361 (22121819)			
493184.65	3625789.12	161.17362	(22081002)	493201.97
3625791.04	165.57035 (22010819)			

493221.21	3625790.40	168.15748	(22010819)	493238.52
3625791.04	164.98249	(22010819)		
492780.00	3626415.01	440.69362	(20090401)	492778.72
3626388.08	418.04376	(20090401)		
492747.94	3626386.16	439.44156	(20121620)	492742.16
3626418.22	485.64388	(20121620)		
492699.20	3626422.71	493.74738	(20112421)	492697.92
3626391.93	449.10167	(20112107)		
492678.68	3626411.81	485.11399	(21020303)	492626.09
3626426.56	453.95595	(20082223)		
492606.85	3626435.54	439.41881	(20080701)	492599.16
3626405.39	429.45241	(20082223)		
492491.20	3626644.88	453.91864	(21090703)	492517.36
3626636.70	455.94110	(21090703)		
492521.18	3626603.45	437.21604	(21112923)	492521.72
3626582.19	438.29014	(21050502)		
492512.46	3626553.84	422.62509	(20061223)	492513.55
3626533.13	390.07702	(22081101)		
492501.01	3626506.42	400.87247	(20011918)	492490.65
3626485.70	408.71020	(22050405)		
492479.21	3626464.45	409.56756	(20051323)	492466.12
3626447.00	393.21289	(20051323)		
492447.59	3626418.66	372.13149	(20101401)	492431.78
3626430.65	367.92103	(20051323)		
492481.93	3626620.35	449.16303	(20061101)	492482.48
3626594.18	421.57770	(20070603)		
492479.21	3626572.92	420.02485	(21050502)	492477.02
3626546.76	409.90916	(20061223)		
492467.76	3626523.32	370.40531	(22081101)	492463.94
3626507.51	372.84095	(20011918)		
492450.86	3626492.79	380.41594	(20011918)	492427.42
3626474.80	374.43578	(20011918)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:55:07

PAGE 87

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

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

492402.89	3626460.63	356.53893	(20011918)	492803.94
3626616.07	363.63726	(22012923)		
492823.25	3626567.17	440.46144	(20113022)	492838.34
3626526.92	470.16695	(21081022)		
493039.78	3625834.45	169.03832	(21080902)	492743.19
3626628.92	522.03920	(20100406)		
492791.92	3626663.04	469.87979	(22010702)	492731.11
3626741.92	267.81836	(20122822)		
492774.75	3626728.05	333.06984	(20022901)	492674.05
3626738.96	307.18008	(21081301)		
492708.49	3626698.47	233.94946	(21101804)	492703.25
3626652.75	458.97844	(20042501)		
493013.27	3625844.49	180.23616	(21080902)	

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 88

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

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

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

Y-COORD (METERS)			X-COORD (METERS)
491461.48	490879.18	491073.28	491267.38
	491655.58		

3628507.6	74.97855 (21040201)	74.02238 (22092901)	86.93479 (22090601)
89.71638	(22072901)	71.26678 (22102622)	
3628311.7	76.07000 (22032023)	83.78057 (21040201)	78.44654 (22092901)
91.85950	(22090601)	104.81391 (22072901)	
3628115.8	79.56736 (22122902)	77.28336 (22032023)	92.73391 (21040201)
85.08727	(22092901)	95.95146 (22090601)	
3627920.0	74.64657 (22092824)	88.13428 (21052423)	81.01546 (20101805)
102.91683	(21040201)	100.00167 (22011702)	

3627724.1	88.54860 (22090223)	90.87771 (21081604)	81.47945 (21052423)
100.13729 (22122902)	122.93020 (21040201)		
3627528.3	88.36383 (21021622)	96.86658 (20050803)	106.04309 (22090223)
109.62907 (21081604)	124.13211 (21052423)		
3627332.4	97.11952 (21040202)	103.98357 (21093023)	102.27478 (21021622)
115.99729 (20050803)	126.93024 (22090223)		
3627136.5	81.94433 (21092022)	91.84067 (22110520)	107.28547 (22101701)
117.42227 (22101701)	123.52666 (21093023)		
3626940.7	86.50434 (21010801)	93.51961 (21112924)	95.86654 (21112924)
99.08537 (22091605)	102.45466 (22111307)		
3626744.8	122.22545 (20042724)	134.49348 (20042724)	133.94797 (20042724)
141.98510 (20042724)	138.70423 (20042724)		
3626549.0	133.52437 (21081401)	143.80424 (21061202)	135.21071 (21061202)
168.03310 (20070603)	171.66765 (20052123)		
3626353.1	126.08761 (20103021)	150.04704 (21050502)	158.59246 (20061223)
166.87675 (22040823)	182.59993 (22081101)		
3626157.2	117.92598 (22110522)	137.99665 (21113004)	164.00782 (22012620)
171.30605 (22040423)	181.19652 (20051323)		
3625961.4	119.41029 (20021723)	126.54344 (20011918)	138.11160 (20051323)
149.57189 (20071603)	160.59600 (21110822)		
3625765.5	118.63597 (20051323)	144.98457 (21051102)	148.15712 (20101401)
128.42356 (21110822)	137.36652 (20050604)		
3625569.7	122.77504 (20041521)	133.62164 (21040222)	144.20360 (21031622)
152.26428 (20050604)	141.41300 (21081303)		
3625373.8	123.17584 (21110822)	125.99724 (22050401)	131.26828 (20050604)
130.74984 (21081303)	125.66064 (21071905)		
3625177.9	103.30675 (22050401)	130.50683 (20050604)	121.06562 (22042922)
115.90070 (22111601)	127.28551 (22100802)		
3624982.1	104.14361 (20050604)	114.22489 (22042922)	112.87729 (22062801)
117.69542 (22100802)	128.00138 (20060802)		
3624786.2	107.60436 (22042922)	105.37835 (22062801)	114.72657 (21071905)
111.64657 (20050524)	121.68840 (21031722)		
3624590.4	99.75242 (20080806)	109.17765 (21071905)	107.90143 (21040801)
116.47636 (20092303)	110.14404 (21092101)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 89

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)	
	491849.68	492043.78	492237.88	
492431.98	492626.08			

3628507.6	87.31943 (22102522)	97.18302 (22122822)	106.82994 (22080905)	
108.81949 (22062022)	110.65390 (22103119)			
3628311.7	91.43019 (20050702)	115.63008 (22090703)	114.66146 (20111805)	
116.08781 (22062022)	122.97864 (22062723)			
3628115.8	106.70676 (22072901)	105.60605 (22102522)	123.12186 (20111805)	
116.21473 (21081223)	139.41695 (22062723)			
3627920.0	111.82578 (22072901)	96.40364 (20050702)	133.45306 (22090703)	
131.51286 (22080905)	137.23033 (22062723)			
3627724.1	114.83078 (22011702)	128.53673 (22072901)	130.97722 (22102522)	
124.93744 (20111805)	137.83207 (22062723)			
3627528.3	129.84393 (21040201)	118.66442 (22090601)	132.03480 (22072901)	
151.61731 (22090703)	168.50624 (22062022)			
3627332.4	109.01011 (21052423)	126.85885 (22032023)	161.43660 (22090601)	
183.64954 (22102522)	206.75215 (22062022)			
3627136.5	124.02822 (20061501)	140.35863 (22090223)	153.25778 (21052423)	
185.52512 (22090601)	214.68036 (20111805)			
3626940.7	120.65546 (20101220)	165.91310 (22101701)	185.25449 (21093023)	
221.41152 (21081604)	290.83885 (22072901)			
3626744.8	171.81070 (20042724)	199.12819 (20042724)	235.77249 (20042724)	
237.49991 (21052505)	457.17609 (21021501)			
3626549.0	175.91220 (20103021)	220.70343 (21041723)	273.68232 (22081101)	
320.90854 (20112420)	410.29377 (21040801)			
3626353.1	176.28467 (22092801)	221.03192 (20051323)	231.52854 (21110822)	
265.53755 (22062801)	290.98942 (20112021)			
3626157.2	183.82251 (20101401)	184.55425 (22050401)	207.97297 (22030622)	
234.92376 (21031722)	234.77602 (20021621)			
3625961.4	164.23488 (20112106)	167.70104 (21081303)	178.15693 (21040801)	
193.38655 (20112521)	202.80941 (21041524)			
3625765.5	140.41022 (21081303)	142.24507 (22100802)	164.67843 (22081602)	
178.55480 (20112021)	169.80667 (20070424)			
3625569.7	147.54329 (21071905)	138.89541 (20060802)	146.43094 (20021622)	
146.26874 (22081102)	165.51234 (20090401)			
3625373.8	131.97817 (20050524)	141.38614 (22081602)	148.86484 (20091424)	
146.94408 (20021621)	154.66751 (21040804)			
3625177.9	136.10249 (20092303)	140.91261 (20021622)	142.86866 (20112021)	
142.38443 (20021621)	150.28475 (20101822)			
3624982.1	123.34626 (21032821)	135.81393 (20091424)	125.70432 (20070224)	
144.17945 (21041524)	144.28019 (20011420)			
3624786.2	126.46677 (20021622)	127.62045 (21102022)	118.89611 (20111724)	
127.20849 (21041524)	140.17420 (20011420)			
3624590.4	123.19382 (20110324)	127.34708 (20112021)	124.23273 (21020924)	
122.26861 (20070424)	132.51012 (20011420)			

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

PAGE 90

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***
INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	492820.18	493014.28	493208.38
493402.48		493596.58	

- - - - -

3628507.6	135.36090 (22102021)	149.88783 (20031024)	196.31028 (22061421)
160.12933 (21081221)	185.51210 (21072221)		
3628311.7	150.33561 (22102021)	163.08440 (21100706)	188.44966 (22061421)
191.52950 (20101418)	223.39682 (21080821)		
3628115.8	146.78075 (22102021)	197.12239 (21100706)	208.99656 (22043024)
220.99752 (21072221)	211.75828 (21080821)		
3627920.0	167.88525 (22102021)	196.86421 (21100706)	216.27692 (21081221)
279.36059 (21080821)	235.06091 (22081324)		
3627724.1	252.13607 (22102021)	319.68164 (22061421)	278.22767 (21072221)
243.08844 (22081324)	204.13306 (21122302)		
3627528.3	224.67310 (22102021)	352.42146 (22061421)	384.96830 (21080821)
264.60473 (21122302)	217.77012 (21052203)		
3627332.4	299.37531 (22112918)	390.35415 (20101418)	378.00510 (22081324)
264.09876 (22091021)	220.79137 (21092019)		
3627136.5	430.62519 (20031024)	429.31846 (21080821)	300.21803 (22091021)
177.80411 (21092019)	153.59954 (22051721)		
3626940.7	784.97476 (22061421)	490.58659 (22082422)	205.79802 (20081602)
202.03028 (21072203)	151.39552 (21110518)		
3626744.8	292.51642 (21041922)	347.67693 (20101806)	265.36221 (20090820)
214.47534 (20090820)	161.62557 (20101806)		
3626549.0	390.91328 (20080623)	293.93105 (22082502)	260.53085 (21072102)
211.77536 (20041206)	163.88762 (21040722)		
3626353.1	262.74416 (22090723)	231.12395 (22072201)	206.39818 (22040123)
188.54067 (21063023)	173.02832 (21072222)		
3626157.2	224.53511 (22081103)	202.40148 (22121819)	178.93057 (22080701)
163.96030 (22040123)	154.27227 (20092022)		

3625961.4	194.88218 (22081103)	179.31633 (20061224)	157.77989 (22072201)
151.45283 (22080701)	142.14475 (22040123)		
3625765.5	169.19913 (22081103)	165.25430 (21080902)	144.08662 (20102503)
133.56862 (20041404)	142.62662 (20051621)		
3625569.7	157.38782 (22081103)	153.65004 (20052502)	151.96981 (22071602)
137.70753 (20101621)	132.87393 (20041404)		
3625373.8	140.59854 (22081103)	148.55212 (21030703)	146.65901 (20061224)
126.56113 (21041722)	120.49610 (22050521)		
3625177.9	131.44493 (22080704)	136.87984 (20042523)	133.36308 (21061223)
128.89948 (22070601)	117.06292 (21071002)		
3624982.1	125.00318 (22080704)	130.32067 (20042523)	135.05633 (21080902)
116.92020 (22071602)	108.61639 (21041722)		
3624786.2	119.54457 (22080704)	119.14689 (22052124)	126.39879 (20052502)
121.62357 (20061224)	111.13337 (20102503)		
3624590.4	114.57601 (22080704)	119.42974 (22052124)	114.80030 (20052502)
111.19635 (21061223)	115.82240 (22071602)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 91

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***
INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	493790.68	493984.78	494178.88
494372.98	494567.08		

3628507.6	203.51654 (21080821)	156.19325 (22081324)	88.82408 (21122302)
76.95356 (21052203)	73.27052 (20092420)		
3628311.7	175.19863 (22081324)	137.21102 (21122302)	84.13920 (21052203)
78.51958 (20092420)	76.05462 (22091021)		
3628115.8	186.61711 (22081324)	137.29131 (21052203)	85.13413 (20092420)
84.91745 (22091021)	72.24531 (22082422)		
3627920.0	173.38167 (21052203)	113.28101 (20092420)	96.93834 (22091021)
73.23179 (22082422)	63.10265 (20081923)		
3627724.1	167.24488 (20092420)	160.62999 (22091021)	87.64858 (21092019)
69.07379 (20071323)	70.25307 (22051721)		

3627528.3	199.64963 (22091021)	124.51087 (21092019)	88.10014 (20071323)
91.45479 (22051721)	78.14234 (22061422)		
3627332.4	127.26970 (20071323)	115.83763 (22051721)	112.23985 (20081602)
118.12985 (20081602)	112.81892 (21072203)		
3627136.5	157.01305 (20081602)	144.59319 (21072203)	100.04240 (22102102)
93.78014 (21012119)	103.95498 (21080324)		
3626940.7	150.82639 (22072121)	132.35445 (22072121)	105.54481 (20082204)
101.80865 (20062123)	96.08572 (20062123)		
3626744.8	146.74488 (20101806)	135.88296 (20101806)	130.50075 (21070923)
125.57825 (21070923)	120.22044 (21070923)		
3626549.0	157.10276 (20070924)	133.68519 (20070924)	120.51113 (22091223)
108.54793 (21020619)	112.73862 (21020619)		
3626353.1	167.95433 (20092322)	151.17190 (20041206)	133.43460 (21091323)
119.46707 (21040722)	112.81048 (20070924)		
3626157.2	154.65596 (21063023)	145.60809 (21070803)	139.73444 (21072102)
134.16219 (20092322)	124.64206 (21090204)		
3625961.4	146.14387 (22041522)	138.41561 (22073105)	128.37936 (21063023)
125.74484 (21070803)	126.04040 (21072222)		
3625765.5	127.82863 (21081124)	118.11769 (22041522)	121.00479 (22082502)
117.95322 (21091322)	108.81518 (21063023)		
3625569.7	132.24638 (20051621)	120.64390 (21081124)	115.27699 (20071003)
117.96203 (22041522)	118.29217 (22073105)		
3625373.8	114.12453 (21083005)	121.92178 (22081701)	114.44791 (21081124)
112.10080 (20071201)	113.37471 (22041522)		
3625177.9	106.59271 (21092804)	109.79795 (21083005)	113.36758 (20110221)
109.14080 (21081124)	106.75565 (20071201)		
3624982.1	110.63575 (22072201)	111.04248 (20041404)	108.15079 (22080701)
107.14833 (20110221)	104.57070 (21081124)		
3624786.2	102.81784 (21071002)	96.94312 (20092323)	103.82394 (20041404)
102.12715 (22080701)	100.52108 (20110221)		
3624590.4	100.01375 (22010819)	99.32654 (20101621)	91.28954 (21092804)
88.51018 (21111920)	94.22081 (22080701)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 15:55:07

PAGE 92

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		494761.18		X-COORD (METERS)

3628507.6		70.09014 (22091021)
3628311.7		70.92574 (22091021)
3628115.8		64.34014 (21092019)
3627920.0		55.69498 (20071323)
3627724.1		60.26524 (22051721)
3627528.3		81.59416 (20081602)
3627332.4		71.65973 (22102102)
3627136.5		102.95830 (22072121)
3626940.7		87.03772 (21041922)
3626744.8		114.61638 (21070923)
3626549.0		113.41172 (21020619)
3626353.1		115.11194 (20070924)
3626157.2		122.59735 (20041206)
3625961.4		125.88702 (20092322)
3625765.5		109.21809 (22111819)
3625569.7		113.35968 (21063023)
3625373.8		102.04787 (22082502)
3625177.9		94.36745 (22041522)
3624982.1		101.68680 (22040123)
3624786.2		101.37987 (21081124)
3624590.4		95.60542 (22070621)

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

PAGE 93

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***
INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

492883.25	3625830.80	165.28401	(22090723)	492919.80
3625834.65	167.55065	(21030703)		

492955.07	3625845.55	168.94537	(20052502)	493069.86
3625832.73	164.33339	(20061224)		
493094.87	3625832.73	160.82167	(22071602)	493110.90
3625837.21	163.06342	(22071602)		
493151.95	3625834.01	155.16400	(22121819)	493166.70
3625837.86	151.64793	(22121819)		
493187.86	3625836.57	146.59240	(22010819)	493201.33
3625836.57	147.88122	(22010819)		
493240.44	3625836.57	146.04972	(20101621)	492881.32
3625908.40	175.79167	(22090723)		
492906.98	3625898.14	174.14159	(21030703)	492901.84
3625911.60	175.01359	(21030703)		
492928.14	3625914.81	176.97298	(21030703)	492933.91
3625898.14	173.99334	(21030703)		
492951.87	3625908.40	176.76692	(20052502)	492973.67
3625907.11	177.77594	(21080902)		
492993.55	3625914.17	173.42904	(21080902)	492996.11
3625897.50	172.20933	(21080902)		
493015.99	3625896.85	165.99144	(21060903)	493023.05
3625912.24	171.80271	(20061224)		
493044.21	3625907.11	171.62687	(20061224)	493066.66
3625907.76	168.14699	(22071602)		
493085.25	3625912.24	169.70833	(22071602)	493087.18
3625895.57	168.16165	(22071602)		
493108.98	3625911.60	162.94396	(22070601)	493112.19
3625897.50	161.93324	(22070601)		
493133.99	3625901.98	158.18351	(22121819)	492874.27
3625788.48	162.81331	(22052124)		
492894.15	3625789.12	161.94127	(22090723)	492910.18
3625790.40	162.29809	(20042523)		
492930.70	3625786.55	163.52688	(21030703)	492947.38
3625791.04	164.35434	(21030703)		
492963.41	3625787.84	162.59929	(20052502)	492982.65
3625787.84	163.79018	(20052502)		
492999.96	3625787.84	166.74993	(21080902)	493021.12
3625791.04	163.77557	(21080902)		
493036.52	3625789.12	158.18653	(21061223)	493055.75
3625789.76	159.37577	(20061224)		
493076.28	3625787.84	162.53217	(20061224)	493094.87
3625787.84	159.29005	(20061224)		
493112.83	3625788.48	158.62872	(22071602)	493129.50
3625787.19	160.25365	(22071602)		
493148.74	3625787.19	156.52473	(22071602)	493164.77
3625790.40	153.01073	(22121819)		
493184.65	3625789.12	149.86393	(22121819)	493201.97
3625791.04	143.59527	(20102503)		
493221.21	3625790.40	145.18713	(22010819)	493238.52
3625791.04	144.15892	(22010819)		
492780.00	3626415.01	303.10360	(22081103)	492778.72
3626388.08	290.18309	(22081103)		

492747.94	3626386.16	302.78627	(20090401)	492742.16
3626418.22	325.91233	(20090401)		
492699.20	3626422.71	327.45419	(20021621)	492697.92
3626391.93	311.73757	(20021621)		
492678.68	3626411.81	313.17777	(22103002)	492626.09
3626426.56	322.36195	(22043006)		
492606.85	3626435.54	336.97562	(21020303)	492599.16
3626405.39	312.64288	(20112421)		
492491.20	3626644.88	379.43200	(20121705)	492517.36
3626636.70	394.24896	(20082202)		
492521.18	3626603.45	384.67496	(20112420)	492521.72
3626582.19	369.82902	(20081703)		
492512.46	3626553.84	343.82353	(20112220)	492513.55
3626533.13	325.47092	(20061423)		
492501.01	3626506.42	317.39335	(20112106)	492490.65
3626485.70	314.18375	(20052324)		
492479.21	3626464.45	308.94898	(20052324)	492466.12
3626447.00	300.19937	(20052324)		
492447.59	3626418.66	284.26187	(20052324)	492431.78
3626430.65	281.55631	(20052324)		
492481.93	3626620.35	370.35266	(20082202)	492482.48
3626594.18	357.34934	(20011918)		
492479.21	3626572.92	352.14387	(20081703)	492477.02
3626546.76	335.91347	(20101401)		
492467.76	3626523.32	319.16275	(20112220)	492463.94
3626507.51	309.14530	(20051324)		
492450.86	3626492.79	297.78860	(20051324)	492427.42
3626474.80	285.29108	(20051324)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 94

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

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

492402.89	3626460.63	276.40284	(20051324)	492803.94
3626616.07	249.64230	(20092001)		
492823.25	3626567.17	374.90150	(20080623)	492838.34
3626526.92	383.65353	(21111722)		
493039.78	3625834.45	161.35171	(20061224)	492743.19
3626628.92	332.95290	(20070501)		
492791.92	3626663.04	208.92921	(20082306)	492731.11
3626741.92	255.18925	(20070601)		
492774.75	3626728.05	274.08460	(20081602)	492674.05
3626738.96	321.81306	(20101607)		
492708.49	3626698.47	348.14143	(20121705)	492703.25
3626652.75	375.09619	(22010619)		
493013.27	3625844.49	164.68312	(21080902)	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

PAGE 95

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	490879.18	491073.28	491267.38
491461.48	491655.58		

3628507.6		106.97512 (22092901)	100.79266 (22090601)	121.72375 (22080803)
146.27782	(22062102)	149.50633 (20090706)		
3628311.7		92.43783 (22032023)	119.89726 (22092901)	122.73268 (22090601)
130.54183	(22080803)	139.94554 (22062102)		
3628115.8		90.15796 (22122902)	102.25666 (22032023)	133.13016 (22092901)
147.07657	(22090601)	149.02598 (22072901)		
3627920.0		82.14334 (20101707)	103.06739 (22122902)	108.42842 (22032023)
147.62271	(22092901)	173.92450 (22090601)		
3627724.1		108.55435 (22090223)	97.60296 (22092824)	114.36101 (21052423)
116.37631	(20101805)	168.74795 (22092901)		
3627528.3		97.57247 (20050803)	120.35755 (20081623)	122.79493 (21081604)
107.59136	(20101707)	129.10497 (22122902)		

3627332.4	105.04059 (21093023)	105.30955 (21020722)	115.65542 (20061501)
144.03820 (20081623)	148.49092 (21081604)		
3627136.5	106.37679 (21092022)	115.43107 (22110520)	125.22275 (22101701)
128.06799 (21093023)	125.45633 (20061501)		
3626940.7	108.50713 (21112924)	114.30141 (21112924)	115.63963 (22011703)
125.60226 (21010724)	137.08151 (21092022)		
3626744.8	128.24206 (20042724)	142.10578 (20042724)	139.91942 (20042724)
148.13083 (21052505)	150.99662 (21052505)		
3626549.0	131.78405 (21081401)	143.25368 (21081401)	139.14731 (21061202)
165.79591 (20070603)	177.35850 (20070603)		
3626353.1	121.44622 (20103021)	150.18837 (21050502)	158.67500 (20061223)
162.93635 (22040823)	179.53860 (22081101)		
3626157.2	111.28722 (22110522)	118.00463 (22081101)	162.51629 (22081101)
172.54152 (22040423)	192.64531 (20051323)		
3625961.4	113.73825 (20021723)	125.52526 (20011918)	136.93530 (20051323)
142.75463 (21051102)	189.24361 (20051324)		
3625765.5	115.57796 (20051323)	139.09287 (21051102)	150.35553 (20101401)
134.43174 (20051324)	156.22962 (20050604)		
3625569.7	123.03590 (20041521)	146.18257 (22042324)	152.09134 (21031622)
167.28124 (20050604)	154.22060 (22042922)		
3625373.8	129.37028 (21110822)	131.29560 (22050401)	133.49195 (20050604)
150.35557 (22042922)	150.83197 (22111601)		
3625177.9	110.85304 (20061423)	142.58787 (20052324)	134.81594 (22042922)
129.49377 (22062801)	152.63971 (22100802)		
3624982.1	121.15488 (20052324)	125.20993 (22042922)	124.48573 (22062801)
132.34252 (21071905)	145.01678 (20060802)		
3624786.2	115.91140 (21100901)	106.61163 (20080806)	130.75509 (21071905)
125.48823 (20050524)	137.95755 (21031722)		
3624590.4	102.41700 (22052503)	114.87949 (20080624)	112.96040 (22100802)
128.40726 (20092303)	122.05102 (21092101)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 96

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***
 INCLUDING SOURCE(S): STCK5 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD		X-COORD (METERS)
(METERS)	491849.68	492043.78
		492237.88

492431.98

492626.08

3628507.6 | 146.85815 (22090703) 169.23974 (20111805) 160.37046 (22080905)
156.06259 (21071322) 175.13727 (22103119)
3628311.7 | 153.38692 (22102522) 173.06613 (22122822) 164.12590 (22080905)
157.94384 (21071322) 183.83292 (22103119)
3628115.8 | 175.01250 (20090706) 192.45177 (22090703) 202.15477 (20111805)
181.26204 (22062022) 192.94461 (22103119)
3627920.0 | 196.68131 (22062102) 180.51589 (22102522) 199.68778 (20111805)
211.46515 (21081223) 182.38381 (22103119)
3627724.1 | 193.41112 (22090601) 184.99407 (22102622) 261.93763 (22090703)
207.34923 (22080905) 210.98509 (22062723)
3627528.3 | 192.83119 (22092901) 206.18526 (22080803) 228.02675 (20050702)
278.68573 (20111805) 322.56380 (22062723)
3627332.4 | 143.14188 (21052423) 223.05246 (22092901) 275.47395 (22072901)
380.43626 (22090703) 356.13547 (22062723)
3627136.5 | 158.16613 (20081623) 141.61191 (21052423) 275.60024 (22092901)
337.48832 (20090706) 336.14127 (22062022)
3626940.7 | 156.36942 (22101701) 176.91441 (22042601) 218.85806 (20081623)
387.51379 (22092901) 566.06105 (20111805)
3626744.8 | 195.47989 (21052505) 232.45440 (21052505) 293.46301 (22040523)
314.90028 (22092202) 427.08217 (22090104)
3626549.0 | 181.15763 (20103021) 247.28602 (20061223) 314.02701 (22081101)
404.10826 (20112420) 433.87536 (21020303)
3626353.1 | 180.12419 (22092801) 251.76182 (20051323) 297.99169 (20051324)
334.03560 (20080624) 424.45013 (20021621)
3626157.2 | 203.97639 (20101401) 226.19181 (22120301) 246.53703 (21081303)
271.20803 (22081602) 336.39691 (20070424)
3625961.4 | 192.53209 (20112106) 187.93811 (21081303) 196.67417 (21040801)
237.46439 (22052202) 278.55653 (20101822)
3625765.5 | 149.09732 (22042922) 162.86675 (21071905) 175.86518 (22081602)
221.14148 (22103002) 267.26945 (20101822)
3625569.7 | 166.44555 (21071905) 149.45793 (20060802) 175.37721 (20112521)
197.09512 (21020924) 249.60872 (20011420)
3625373.8 | 155.40868 (20050524) 152.40562 (21092101) 177.06982 (22052202)
209.05114 (20101821) 241.57435 (20011420)
3625177.9 | 155.58654 (20092303) 175.79737 (20021622) 163.19253 (22103002)
204.93840 (20021220) 219.80894 (20011420)
3624982.1 | 140.68005 (21092101) 159.33541 (20091424) 153.51325 (21031723)
177.36691 (20070424) 198.49498 (20072601)
3624786.2 | 159.51941 (20021622) 153.75260 (20112021) 160.28079 (21020924)
166.80685 (20070424) 192.23062 (20072601)
3624590.4 | 149.07406 (20112521) 146.32870 (22103002) 153.87285 (20101821)
144.68377 (20070424) 189.43609 (20072601)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 15:55:07

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	492820.18	493014.28	493208.38
493402.48	493596.58		

3628507.6		144.19484 (20081922)	156.45084 (21100706)	177.66551 (22061421)
139.19893	(21081221)	175.63814 (20101624)		
3628311.7		163.47053 (20081922)	163.02653 (21100706)	140.45604 (22043024)
138.34806	(22082322)	122.67894 (21080821)		
3628115.8		162.73897 (20081922)	164.76952 (22072824)	180.22645 (21081221)
215.27519	(20101624)	149.34143 (20100320)		
3627920.0		183.55458 (20081922)	179.61490 (22061421)	162.25807 (21081221)
143.60998	(21080821)	195.93388 (22081324)		
3627724.1		241.18134 (20081922)	234.95978 (22061421)	252.13902 (20101624)
159.93173	(22081324)	147.37858 (21122302)		
3627528.3		239.11895 (20022901)	242.62560 (21081221)	181.31646 (20100320)
181.51357	(21122302)	170.29086 (22061501)		
3627332.4		307.80255 (21100706)	304.55433 (20101624)	261.48213 (22081324)
188.64727	(22091021)	172.47493 (20081923)		
3627136.5		339.98159 (22061421)	231.74316 (22081324)	197.99465 (22091021)
188.82282	(20071323)	180.33572 (22051721)		
3626940.7		409.50507 (20101624)	258.92658 (22121802)	213.10361 (22051721)
224.78717	(21072203)	178.37189 (21020803)		
3626744.8		564.47727 (20081602)	320.52197 (20062123)	255.37927 (20062123)
205.29094	(20031703)	162.60115 (20031703)		
3626549.0		788.74950 (20110221)	319.78060 (21052723)	255.66694 (22061124)
202.22231	(21040722)	173.06559 (20070924)		
3626353.1		486.54308 (21060903)	484.46473 (20110221)	253.34576 (22082502)
218.72870	(21052723)	188.73758 (20092322)		
3626157.2		351.39976 (21030703)	398.25576 (22072201)	357.32987 (22070621)
182.75694	(22041522)	185.64626 (22073105)		
3625961.4		295.26283 (20042523)	298.64534 (22071602)	315.58318 (20041404)
305.71617	(22070621)	167.59576 (20071003)		
3625765.5		262.79567 (22052124)	282.95564 (20061224)	284.53479 (21071002)
266.15968	(21111920)	267.29054 (22070621)		

3625569.7		247.37899	(21103123)	263.06924	(21080902)	244.59941	(20102503)
255.87287		(22050521)	248.70765	(22081224)			
3625373.8		237.98735	(21103123)	230.44678	(20052502)	224.96638	(22071602)
241.98605		(22082604)	235.31347	(21092804)			
3625177.9		216.74254	(21103123)	221.27869	(21030703)	228.17522	(20061224)
213.11476		(22081002)	235.26510	(22072201)			
3624982.1		186.53184	(21103123)	194.92517	(21030703)	201.92663	(21061223)
206.04065		(22071602)	204.53367	(22082604)			
3624786.2		167.59262	(20101323)	197.17826	(20042523)	205.18432	(21080902)
183.53860		(21120822)	187.76907	(21041722)			
3624590.4		159.18337	(20101323)	177.01956	(20042523)	181.78835	(20052502)
183.87321		(20061224)	175.64076	(22070601)			

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 98

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK5 ***
INCLUDING SOURCE(S): STCK5 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD				X-COORD (METERS)
(METERS)		493790.68	493984.78	494178.88
494372.98		494567.08		

3628507.6		120.18582	(20100320)	145.13472	(22081324)	91.85666	(21122302)
66.33555		(21070722)	74.43459	(22061501)			
3628311.7		124.37120	(22081324)	116.22303	(21122302)	73.65078	(21070722)
77.31410		(22061501)	91.16916	(22091021)			
3628115.8		159.17716	(22081324)	108.06339	(21070722)	96.66977	(22061501)
97.11120		(22091021)	69.18860	(22121802)			
3627920.0		117.42353	(21070722)	129.21943	(22061501)	110.69103	(22091021)
74.50605		(22121802)	84.63735	(20081923)			
3627724.1		152.28628	(22061501)	135.19468	(22091021)	114.44272	(20081923)
99.03425		(20071323)	88.75166	(22051721)			
3627528.3		142.95953	(22121802)	136.83251	(20081923)	108.80187	(20071323)
123.68743		(22051721)	99.56501	(21090103)			
3627332.4		156.45949	(20071323)	147.93849	(22051721)	136.21600	(21110620)
151.40825		(20081602)	146.93677	(21072203)			

3627136.5	179.87686 (20081602)	176.18794 (21072203)	147.26259 (22102102)
124.78032 (21020803)	105.03886 (21110518)		
3626940.7	144.94038 (21110518)	134.45988 (22072121)	117.96924 (20062123)
133.71198 (20062123)	138.17435 (20062123)		
3626744.8	146.75201 (20031703)	131.67317 (20031703)	119.26115 (20101806)
115.71271 (20101806)	112.12553 (20101806)		
3626549.0	158.70377 (22091223)	146.76186 (22091223)	124.67144 (21020619)
127.21839 (21020619)	126.68435 (21020619)		
3626353.1	169.29874 (21090204)	155.28656 (21091323)	141.13000 (21040722)
133.99787 (21040722)	137.01211 (20070924)		
3626157.2	180.66307 (21052723)	160.91301 (21072102)	156.68596 (20092322)
137.95669 (21090204)	138.10457 (20041206)		
3625961.4	169.95040 (22082502)	162.53320 (21063023)	154.16476 (21052723)
141.97679 (21072222)	133.25950 (21072102)		
3625765.5	156.64970 (22040123)	154.35656 (22041522)	152.78057 (22073105)
147.08057 (21063023)	136.43203 (21052723)		
3625569.7	236.65950 (22070621)	144.86915 (22040123)	125.87279 (22041522)
135.35075 (22082502)	125.53690 (22073105)		
3625373.8	224.92230 (22080701)	213.89429 (22070621)	128.01812 (22040123)
123.94517 (20071003)	129.28111 (20092022)		
3625177.9	211.34166 (20041404)	197.12384 (21030821)	194.47254 (22070621)
111.81680 (20050501)	118.92517 (20071003)		
3624982.1	192.08458 (20092323)	177.40556 (21111920)	186.59471 (21030821)
178.33437 (22070621)	108.00272 (20050501)		
3624786.2	202.08387 (20101621)	186.40999 (21092804)	178.22543 (21111920)
182.68087 (22081701)	161.94886 (22070621)		
3624590.4	184.26579 (22010819)	182.72904 (22072201)	162.13640 (20041404)
169.80440 (22081224)	175.17107 (22081701)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 99

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD		X-COORD (METERS)
(METERS)	494761.18	

3628507.6		85.35163	(22091021)
3628311.7		72.12387	(21120901)
3628115.8		82.06856	(20081923)
3627920.0		81.47936	(20071323)
3627724.1		88.51169	(22051721)
3627528.3		105.74198	(20081602)
3627332.4		110.18440	(22102102)
3627136.5		108.47586	(21110518)
3626940.7		131.53214	(20062123)
3626744.8		107.42401	(20101806)
3626549.0		123.25938	(21020619)
3626353.1		126.94102	(20070924)
3626157.2		128.07910	(21091323)
3625961.4		134.56561	(20092322)
3625765.5		124.97027	(21070803)
3625569.7		130.99091	(21063023)
3625373.8		124.19462	(22073105)
3625177.9		120.64513	(22041522)
3624982.1		115.17375	(20071201)
3624786.2		104.35520	(20050501)
3624590.4		142.30905	(22070621)

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 100

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***
 INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	274.35809	(21030703)	492919.80
3625834.65	292.63867	(21080902)		
492955.07	3625845.55	287.00061	(21061223)	493069.86
3625832.73	275.07403	(22070601)		
493094.87	3625832.73	291.47750	(22081002)	493110.90
3625837.21	306.13238	(22081002)		

493151.95	3625834.01	298.28413	(22082604)	493166.70
3625837.86	294.61324	(22080705)		
493187.86	3625836.57	307.52610	(20101621)	493201.33
3625836.57	308.19878	(22072201)		
493240.44	3625836.57	283.40289	(20092323)	492881.32
3625908.40	281.78428	(20052502)		
492906.98	3625898.14	304.91441	(21080902)	492901.84
3625911.60	306.33371	(21080902)		
492928.14	3625914.81	293.93669	(21061223)	492933.91
3625898.14	291.42281	(21061223)		
492951.87	3625908.40	293.55367	(21061223)	492973.67
3625907.11	304.71707	(20061224)		
492993.55	3625914.17	281.82900	(22071602)	492996.11
3625897.50	285.07786	(20061224)		
493015.99	3625896.85	297.93496	(22071602)	493023.05
3625912.24	301.62695	(22071602)		
493044.21	3625907.11	284.10370	(22070601)	493066.66
3625907.76	315.17662	(22081002)		
493085.25	3625912.24	314.57136	(22010819)	493087.18
3625895.57	316.11421	(22081002)		
493108.98	3625911.60	312.32984	(22082604)	493112.19
3625897.50	309.00536	(22082604)		
493133.99	3625901.98	308.02842	(20101621)	492874.27
3625788.48	270.27231	(21030703)		
492894.15	3625789.12	268.07840	(21030703)	492910.18
3625790.40	268.73743	(20052502)		
492930.70	3625786.55	284.90572	(21080902)	492947.38
3625791.04	291.65514	(21080902)		
492963.41	3625787.84	276.05344	(21080902)	492982.65
3625787.84	279.46895	(21061223)		
492999.96	3625787.84	281.08101	(20061224)	493021.12
3625791.04	284.62507	(20061224)		
493036.52	3625789.12	266.48635	(20061224)	493055.75
3625789.76	279.75545	(22071602)		
493076.28	3625787.84	281.56947	(22071602)	493094.87
3625787.84	266.85486	(22070601)		
493112.83	3625788.48	279.91584	(22081002)	493129.50
3625787.19	297.00734	(22081002)		
493148.74	3625787.19	294.33823	(22010819)	493164.77
3625790.40	291.70889	(22010819)		
493184.65	3625789.12	287.66616	(22082604)	493201.97
3625791.04	295.09718	(20101621)		
493221.21	3625790.40	299.38085	(20101621)	493238.52
3625791.04	303.37485	(22072201)		
492780.00	3626415.01	555.92976	(21061223)	492778.72
3626388.08	524.68848	(21080902)		
492747.94	3626386.16	491.05578	(22052124)	492742.16
3626418.22	518.63603	(22052124)		
492699.20	3626422.71	524.00462	(20072601)	492697.92
3626391.93	499.27740	(20072601)		

492678.68	3626411.81	514.66423	(20011420)	492626.09
3626426.56	453.90364	(20021621)		
492606.85	3626435.54	459.62217	(20112021)	492599.16
3626405.39	436.23328	(20112021)		
492491.20	3626644.88	490.46667	(21022823)	492517.36
3626636.70	509.55068	(20121705)		
492521.18	3626603.45	519.34968	(20112420)	492521.72
3626582.19	530.58402	(22042324)		
492512.46	3626553.84	513.78370	(22120301)	492513.55
3626533.13	502.37899	(20120120)		
492501.01	3626506.42	463.23683	(20081404)	492490.65
3626485.70	449.29356	(21081303)		
492479.21	3626464.45	439.64887	(21081303)	492466.12
3626447.00	420.76389	(21081303)		
492447.59	3626418.66	393.05899	(21081303)	492431.78
3626430.65	375.07000	(20081404)		
492481.93	3626620.35	475.78295	(20082202)	492482.48
3626594.18	482.98938	(20011918)		
492479.21	3626572.92	467.65024	(20081703)	492477.02
3626546.76	478.20967	(22042324)		
492467.76	3626523.32	450.87622	(22120301)	492463.94
3626507.51	452.34549	(22120301)		
492450.86	3626492.79	437.66277	(22120301)	492427.42
3626474.80	414.32326	(22120301)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 101

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***
 INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³
 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	390.89621	(22120301)	492803.94
3626616.07	411.80007	(22070621)		
492823.25	3626567.17	713.22967	(20110221)	492838.34
3626526.92	752.61887	(20110221)		

493039.78	3625834.45	287.53636	(22071602)	492743.19
3626628.92	611.99320	(20110221)		
492791.92	3626663.04	296.69302	(21100705)	492731.11
3626741.92	482.49248	(21062704)		
492774.75	3626728.05	623.50521	(20081602)	492674.05
3626738.96	601.94096	(22102522)		
492708.49	3626698.47	403.70120	(22010619)	492703.25
3626652.75	368.56104	(20011520)		
493013.27	3625844.49	279.62627	(20061224)	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

PAGE 102

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK6 ***
INCLUDING SOURCE(S): STCK6 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	490879.18	491073.28	491267.38
491461.48	491655.58		

3628507.6	110.55949 (22092901)	117.39566 (22011702)	109.87274 (22080803)
144.49473 (22072901)	139.23936 (20050702)		
3628311.7	82.46635 (22051505)	123.76579 (22092901)	130.16735 (22090601)
131.19061 (22060102)	131.65396 (21050323)		
3628115.8	75.86321 (22122902)	88.70711 (22032023)	136.37284 (22092901)
164.43140 (22090601)	175.11398 (22072901)		
3627920.0	78.44974 (20101707)	89.95319 (22122902)	95.69545 (22032023)
149.59195 (22092901)	198.77792 (22090601)		
3627724.1	93.26726 (22090223)	87.43205 (22120202)	101.99041 (21052423)
102.48084 (22032023)	182.34595 (21031403)		
3627528.3	96.83097 (20050803)	104.28470 (20081623)	110.51235 (21081604)
107.47705 (21052423)	109.97313 (20101805)		
3627332.4	92.74305 (21093023)	89.77901 (21020722)	109.82507 (20050803)
122.92472 (22090223)	125.05566 (21081604)		
3627136.5	170.90746 (22110520)	132.75077 (22110520)	104.42139 (21040202)
107.77238 (21093023)	119.59095 (20050803)		

3626940.7	156.75302 (22050324)	165.31551 (22091605)	170.16978 (22111307)
198.84284 (21092022)	223.40547 (22110520)		
3626744.8	183.28525 (21052505)	203.36320 (21052505)	200.26823 (21101723)
209.88606 (21101723)	227.43751 (22040523)		
3626549.0	186.73461 (20051622)	205.31762 (20051622)	194.13138 (22090201)
243.37891 (22090201)	250.49031 (20010922)		
3626353.1	177.95602 (20052123)	216.65762 (22042923)	238.61257 (20103021)
233.29915 (21050502)	270.84077 (20061223)		
3626157.2	160.04692 (20061223)	173.83094 (22040823)	196.96268 (22123102)
245.30360 (22012620)	263.09030 (22040423)		
3625961.4	166.81383 (22081101)	162.73900 (20021723)	180.14275 (20011918)
213.30333 (20051323)	247.27243 (20101401)		
3625765.5	153.84220 (20011918)	201.25932 (20051323)	172.25322 (21051102)
172.89262 (21040222)	173.45122 (22050401)		
3625569.7	158.12168 (21051102)	187.56304 (20101401)	204.14961 (21110822)
197.37206 (20011322)	206.79202 (20052324)		
3625373.8	152.38196 (21040222)	155.69626 (21031622)	156.71756 (22120502)
194.64507 (20052324)	194.50347 (22111601)		
3625177.9	134.96604 (21031622)	177.79713 (20050604)	175.23693 (21100901)
174.15730 (22062801)	196.22721 (22100802)		
3624982.1	142.94692 (20050604)	164.89162 (21100901)	161.89331 (20080806)
174.77433 (21071905)	196.56053 (20050524)		
3624786.2	153.60958 (21100901)	135.71117 (20080806)	169.18563 (20080624)
163.18257 (21040801)	189.24490 (21031722)		
3624590.4	134.05337 (21081303)	140.67842 (20080624)	150.44540 (22100802)
174.23223 (20060802)	167.96863 (21092101)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 103

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)	491849.68	492043.78
492431.98	492626.08	492237.88

- - - - -
 - - - - -

3628507.6	161.57263 (21113001)	176.65114 (20111805)	203.44012 (22080905)
169.43899 (21071322)	188.43458 (22103119)		
3628311.7	177.15210 (22102522)	177.38833 (22122822)	180.74273 (22080905)
180.12798 (22062022)	194.07733 (22103119)		
3628115.8	162.27365 (20090706)	200.62324 (22090703)	215.17908 (20111805)
215.52173 (22062022)	195.52713 (22103119)		
3627920.0	223.89082 (22072901)	196.46385 (22102522)	194.88594 (22043023)
187.92615 (21081223)	188.05375 (22062723)		
3627724.1	200.20124 (22090601)	165.41182 (21050323)	252.30885 (22090703)
226.07273 (22080905)	229.59475 (22062723)		
3627528.3	205.73284 (21031403)	200.44082 (20070601)	224.36805 (22101422)
270.59516 (20111805)	308.15558 (22062723)		
3627332.4	118.49861 (22122902)	219.87650 (21031403)	306.54153 (22072901)
320.40877 (22072924)	286.20918 (22062723)		
3627136.5	138.91417 (22090223)	136.86318 (21052423)	261.88114 (21031403)
278.08491 (22101422)	317.73719 (22062022)		
3626940.7	130.16775 (21040202)	144.28491 (20050803)	183.82678 (21081604)
364.78002 (21031403)	415.84678 (20051422)		
3626744.8	292.44656 (21112924)	347.60134 (21112924)	407.76456 (21092022)
334.73433 (20042501)	721.24634 (21031403)		
3626549.0	248.77269 (20081402)	338.59452 (20070603)	423.30483 (22111321)
506.11360 (20121705)	639.41870 (22042324)		
3626353.1	234.42423 (20121705)	302.67277 (22092801)	376.63164 (22051302)
464.82643 (20052324)	560.29260 (20112021)		
3626157.2	281.16915 (20051323)	283.39123 (22042324)	336.08666 (20052324)
379.90288 (20011823)	380.94415 (20021220)		
3625961.4	241.86083 (21031622)	258.93577 (20052324)	272.53796 (21040801)
310.02600 (21040224)	279.41452 (20070424)		
3625765.5	201.46287 (20052324)	221.14133 (21071905)	251.40807 (22081602)
291.73065 (20112021)	254.40515 (20101822)		
3625569.7	200.09287 (22111601)	203.63349 (20060802)	225.39638 (20021622)
225.74165 (20121620)	235.86683 (20101822)		
3625373.8	221.37883 (21040801)	216.95528 (22081602)	206.51489 (20091424)
197.24970 (20021621)	225.69679 (20011420)		
3625177.9	216.96118 (20092303)	225.62966 (20021622)	203.26637 (20112021)
198.92223 (20021220)	209.97460 (20011420)		
3624982.1	192.84227 (21092101)	198.09137 (20112521)	188.52716 (20121620)
177.88095 (20021220)	197.37409 (20011420)		
3624786.2	196.78932 (20021622)	182.34619 (21102022)	152.21213 (20121620)
146.86206 (20070424)	170.70286 (20011420)		
3624590.4	182.18146 (20112521)	181.91095 (20112021)	141.71950 (20021621)
134.87132 (20090401)	169.21703 (20072601)		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK6 ***
INCLUDING SOURCE(S): STCK6 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD (METERS)				X-COORD (METERS)
493402.48	492820.18	493596.58	493014.28	493208.38

3628507.6	147.92275 (21012102)	176.53656 (20022901)	144.94855 (21092823)	
138.85135 (21081221)	177.41210 (20101624)			
3628311.7	156.36164 (21012102)	171.08213 (21100706)	132.16542 (22043024)	
133.69364 (22070804)	107.03395 (20101624)			
3628115.8	154.67753 (20081922)	191.43054 (20031321)	169.15156 (21081221)	
209.44441 (20101624)	151.39507 (20100320)			
3627920.0	182.56438 (20081922)	198.02794 (20031321)	161.30042 (21081221)	
128.23965 (20101624)	193.42351 (22081324)			
3627724.1	230.43908 (22100520)	204.90071 (21092823)	231.24910 (20101624)	
166.82896 (20100320)	185.90452 (21122302)			
3627528.3	239.17112 (20022901)	223.14451 (21081221)	167.29694 (20041224)	
211.23945 (21040924)	191.80764 (21052203)			
3627332.4	304.76499 (20022901)	244.88488 (20101624)	270.27460 (22010702)	
224.00470 (21052203)	244.76585 (22091021)			
3627136.5	290.01336 (20031321)	212.16308 (20100320)	213.57827 (21052203)	
197.10662 (22121802)	222.82468 (20071323)			
3626940.7	337.71853 (21092823)	300.04920 (21052203)	254.61626 (20071323)	
210.27698 (21090103)	279.14418 (21072203)			
3626744.8	627.87599 (22010702)	472.41021 (20081602)	301.61894 (21110518)	
248.79138 (21041922)	211.57516 (20062123)			
3626549.0	839.80127 (20110221)	544.40125 (21091323)	453.81448 (20070924)	
337.08924 (22091223)	267.65557 (22091223)			
3626353.1	552.42604 (21060903)	456.69431 (20110221)	249.56624 (22073105)	
192.68338 (21072222)	227.36473 (21091323)			
3626157.2	408.66410 (21030703)	409.08726 (22072201)	323.20098 (22070621)	
188.68746 (22041522)	182.58389 (21063023)			
3625961.4	307.90512 (22052124)	296.70361 (22071602)	268.48261 (20041404)	
271.35166 (22070621)	151.35171 (20071201)			
3625765.5	269.24663 (22052124)	270.30276 (20061224)	278.01713 (21071002)	
246.50673 (22122323)	235.08696 (22070621)			
3625569.7	247.82925 (21103123)	258.17401 (21080902)	230.48944 (22121819)	
239.74658 (22050521)	234.25271 (22081224)			
3625373.8	227.88053 (21103123)	223.76447 (20052502)	210.09754 (22071602)	
219.11185 (21071002)	205.81564 (20080301)			

3625177.9		201.53668 (22081103)	217.43452 (21030703)	206.06787 (20061224)
194.45043	(22081002)	224.49387 (22072201)		
3624982.1		182.69883 (22081103)	186.66368 (21030703)	184.92335 (21061223)
190.93862	(22071602)	191.97226 (22010819)		
3624786.2		164.14440 (22081103)	181.73182 (20042523)	188.66150 (21080902)
160.65122	(20061224)	171.84940 (22081002)		
3624590.4		148.50154 (20112619)	159.59219 (20042523)	175.14879 (20052502)
163.86295	(20061224)	155.69483 (22070601)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 105

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK6 ***
INCLUDING SOURCE(S): STCK6 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)
494372.98	493790.68	494178.88
	494567.08	

3628507.6		117.36939 (20100320)	144.60578 (22081324)	120.64340 (21122302)
87.49348	(21070722)	74.54015 (21070603)		
3628311.7		133.77774 (22011808)	142.17150 (21040924)	94.82768 (21070722)
75.62340	(21070603)	80.30492 (22061501)		
3628115.8		174.37675 (22081324)	123.58052 (21070722)	93.68476 (21052203)
78.54288	(22061501)	89.30301 (22091021)		
3627920.0		150.13921 (22051722)	131.52830 (21052203)	105.64047 (22091021)
86.22728	(22082422)	96.50452 (20081923)		
3627724.1		162.97860 (21052203)	186.15927 (22091021)	115.05377 (22121802)
113.38714	(20081923)	122.08880 (20071323)		
3627528.3		233.10544 (22091021)	173.01758 (20081923)	156.93125 (20071323)
136.94403	(22051721)	132.78300 (22051721)		
3627332.4		202.66201 (20081923)	161.26290 (22051721)	158.59571 (22051721)
148.73001	(21110620)	170.02451 (20081602)		
3627136.5		189.43201 (21090103)	220.85623 (20081602)	222.22381 (21072203)
156.37837	(22102102)	125.44390 (21053101)		
3626940.7		196.45016 (22102102)	172.23716 (21012119)	188.85476 (22072121)
179.55030	(22072121)	135.94929 (20082204)		

3626744.8	185.04431 (20062123)	177.39455 (20031703)	174.18361 (20031703)
165.52924 (20031703)	156.21189 (20031703)		
3626549.0	254.45313 (21020619)	238.77404 (21020619)	204.21116 (21020619)
191.11286 (22091222)	182.41979 (22091222)		
3626353.1	298.49824 (21091323)	244.68262 (21040722)	222.70878 (20070924)
238.00320 (20070924)	194.33654 (20070924)		
3626157.2	166.23297 (21052723)	144.88929 (21072102)	133.55790 (20092322)
199.13386 (21091323)	217.06800 (21091323)		
3625961.4	158.51182 (22082502)	156.41946 (21063023)	145.17309 (21052723)
128.88623 (21072222)	119.38701 (20092322)		
3625765.5	144.66334 (20071201)	144.05206 (22041522)	141.71255 (22073105)
136.26490 (21063023)	129.61478 (21052723)		
3625569.7	207.40469 (22070621)	128.54609 (20042722)	129.09911 (22041522)
126.73426 (22082502)	114.72368 (21091322)		
3625373.8	216.29737 (22080701)	186.79170 (22070621)	113.70333 (20042722)
101.42097 (21071124)	113.89157 (21082923)		
3625177.9	168.83151 (20041404)	179.16609 (21030821)	169.55899 (22070621)
104.12355 (20050501)	102.91736 (20071201)		
3624982.1	185.22987 (20092323)	160.77901 (21111920)	178.69097 (22081701)
154.59468 (22070621)	100.86021 (20050501)		
3624786.2	189.70103 (20101621)	168.99534 (20080301)	159.13246 (21111920)
172.25902 (22081701)	139.43456 (22070621)		
3624590.4	176.93703 (22010819)	170.93783 (22072201)	129.09133 (22072124)
159.28706 (22081224)	160.58085 (22081701)		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 106

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK6 ***
 INCLUDING SOURCE(S): STCK6 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD	X-COORD (METERS)
(METERS)	

494761.18

3628507.6	85.64514 (22061501)
3628311.7	108.86187 (22091021)
3628115.8	70.50089 (21052202)

3627920.0		80.50140	(20071323)
3627724.1		92.76050	(22051721)
3627528.3		95.82168	(22061422)
3627332.4		151.06254	(21072203)
3627136.5		126.59951	(21012119)
3626940.7		131.67370	(21072223)
3626744.8		144.20821	(21061724)
3626549.0		171.06412	(22091222)
3626353.1		163.74342	(22091223)
3626157.2		183.27188	(22070202)
3625961.4		113.57280	(21020719)
3625765.5		110.53469	(21072222)
3625569.7		118.71113	(21063023)
3625373.8		117.20375	(22073105)
3625177.9		115.65537	(22041522)
3624982.1		106.07064	(20071201)
3624786.2		97.35402	(20050501)
3624590.4		122.59759	(22070621)

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 107

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK6 ***
 INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

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

492883.25	3625830.80	290.73099	(21030703)	492919.80
3625834.65	287.13429	(20052502)		
492955.07	3625845.55	285.41129	(21080902)	493069.86
3625832.73	267.57527	(22071602)		
493094.87	3625832.73	276.10766	(22081002)	493110.90
3625837.21	296.95395	(22081002)		
493151.95	3625834.01	288.37865	(22010819)	493166.70
3625837.86	288.75704	(21071002)		
493187.86	3625836.57	300.27203	(20101621)	493201.33
3625836.57	305.29688	(22072201)		

493240.44	3625836.57	282.23701	(20092323)	492881.32
3625908.40	301.00332	(20052502)		
492906.98	3625898.14	296.68804	(20052502)	492901.84
3625911.60	301.65615	(20052502)		
492928.14	3625914.81	308.10057	(21080902)	492933.91
3625898.14	303.16199	(21080902)		
492951.87	3625908.40	295.58615	(21061223)	492973.67
3625907.11	299.57701	(20061224)		
492993.55	3625914.17	284.11262	(20061224)	492996.11
3625897.50	285.76059	(20061224)		
493015.99	3625896.85	296.11002	(22071602)	493023.05
3625912.24	298.57709	(22071602)		
493044.21	3625907.11	280.13855	(22121819)	493066.66
3625907.76	303.54809	(22081002)		
493085.25	3625912.24	313.60148	(22010819)	493087.18
3625895.57	310.16763	(22081002)		
493108.98	3625911.60	307.07552	(22010819)	493112.19
3625897.50	308.80949	(22010819)		
493133.99	3625901.98	305.92629	(20101621)	492874.27
3625788.48	276.11353	(21030703)		
492894.15	3625789.12	283.17050	(21030703)	492910.18
3625790.40	281.81200	(20052502)		
492930.70	3625786.55	279.87287	(20052502)	492947.38
3625791.04	288.10500	(21080902)		
492963.41	3625787.84	284.18468	(21080902)	492982.65
3625787.84	273.83288	(21061223)		
492999.96	3625787.84	268.14560	(20061224)	493021.12
3625791.04	276.45954	(20061224)		
493036.52	3625789.12	263.15052	(20061224)	493055.75
3625789.76	274.59550	(22071602)		
493076.28	3625787.84	273.77453	(22071602)	493094.87
3625787.84	258.07909	(22121819)		
493112.83	3625788.48	263.13505	(22081002)	493129.50
3625787.19	284.66760	(22081002)		
493148.74	3625787.19	289.97980	(22010819)	493164.77
3625790.40	290.96329	(22010819)		
493184.65	3625789.12	278.60892	(21071002)	493201.97
3625791.04	288.88822	(20101621)		
493221.21	3625790.40	293.22879	(22072201)	493238.52
3625791.04	296.27679	(22072201)		
492780.00	3626415.01	639.55862	(22082506)	492778.72
3626388.08	601.10843	(20052502)		
492747.94	3626386.16	598.58338	(21103123)	492742.16
3626418.22	631.05983	(22081103)		
492699.20	3626422.71	608.77100	(20101822)	492697.92
3626391.93	586.90329	(20101822)		
492678.68	3626411.81	601.67563	(20021621)	492626.09
3626426.56	644.13282	(20021622)		
492606.85	3626435.54	645.31477	(21020303)	492599.16
3626405.39	614.68781	(21020303)		

492491.20	3626644.88	642.63183	(22092802)	492517.36
3626636.70	656.33205	(21090703)		
492521.18	3626603.45	680.67951	(20050624)	492521.72
3626582.19	657.99116	(22010622)		
492512.46	3626553.84	632.78744	(20082202)	492513.55
3626533.13	625.45711	(20011918)		
492501.01	3626506.42	593.83040	(20051323)	492490.65
3626485.70	564.64816	(22051302)		
492479.21	3626464.45	553.83680	(22042324)	492466.12
3626447.00	547.00797	(22042324)		
492447.59	3626418.66	518.89393	(20051324)	492431.78
3626430.65	499.56649	(22042324)		
492481.93	3626620.35	612.50436	(20061101)	492482.48
3626594.18	629.34037	(20050624)		
492479.21	3626572.92	604.01804	(22010622)	492477.02
3626546.76	594.46632	(20121705)		
492467.76	3626523.32	554.80045	(21030901)	492463.94
3626507.51	571.39740	(20011918)		
492450.86	3626492.79	553.31518	(20011918)	492427.42
3626474.80	525.56779	(20051323)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 108

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK6 ***
 INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	501.29113	(20051323)	492803.94
3626616.07	1003.97449	(21040722)		
492823.25	3626567.17	570.50769	(22072024)	492838.34
3626526.92	829.88285	(20110221)		
493039.78	3625834.45	283.49706	(22071602)	492743.19
3626628.92	650.19609	(20110221)		
492791.92	3626663.04	762.56764	(20081602)	492731.11
3626741.92	872.59415	(22090503)		

492774.75	3626728.05	823.47320	(22010702)	492674.05
3626738.96	979.15714	(22072924)		
492708.49	3626698.47	960.15320	(22072924)	492703.25
3626652.75	790.57406	(20042501)		
493013.27	3625844.49	277.23426	(20061224)	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

PAGE 109

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD			X-COORD (METERS)
(METERS)	490879.18	491073.28	491267.38
491461.48	491655.58		

3628507.6	440.81893 (22092901)	447.55583 (21040602)	480.34633 (21052422)
602.44232 (22062102)	648.22350 (20090706)		
3628311.7	417.20221 (22032023)	485.25680 (22092901)	484.97300 (22090601)
516.12763 (22080803)	643.65843 (22062102)		
3628115.8	423.57842 (22122902)	452.66488 (22032023)	531.94471 (22092901)
594.91456 (22090601)	608.42039 (22072901)		
3627920.0	430.44608 (20101707)	477.80379 (22122902)	475.30221 (22032023)
585.69169 (22092901)	732.36918 (22090601)		
3627724.1	503.81340 (22090223)	473.22499 (22120202)	536.20720 (21122104)
500.56295 (20101805)	680.58086 (22092901)		
3627528.3	486.39218 (20080201)	543.46508 (20081623)	541.24401 (22090223)
561.73645 (20101707)	601.32999 (22122902)		
3627332.4	509.19107 (21020722)	533.65518 (21021622)	560.88309 (20080201)

640.91218 (20081623)	649.10113 (21081604)		
3627136.5 625.42868 (22110520)	543.31889 (22101701)	543.74678 (21040202)	
599.21542 (21020722)	613.11874 (20080201)		
3626940.7 575.48350 (22050324)	611.56709 (22111307)	620.74796 (20042623)	
723.37906 (21022323)	777.70862 (22110520)		
3626744.8 586.47373 (21101723)	668.42885 (21101723)	647.19773 (22010620)	
740.51813 (22010620)	766.53488 (22010620)		
3626549.0 638.45372 (22081005)	676.61562 (22081005)	660.72709 (20051622)	
776.12607 (20051622)	745.94490 (21081401)		
3626353.1 556.31999 (20052123)	677.24196 (20052123)	770.39136 (20122123)	
835.37159 (20122123)	951.10874 (20122123)		
3626157.2 506.11693 (20021206)	541.00831 (22110522)	685.53479 (22081101)	
752.15731 (20021723)	795.35224 (20011918)		
3625961.4 517.86968 (22012620)	529.47055 (22092801)	571.27388 (22050405)	
620.53803 (20051323)	810.20113 (20101401)		
3625765.5 510.81575 (22050405)	614.52044 (20051323)	608.07813 (20022424)	
647.45899 (21030222)	696.15115 (20011520)		
3625569.7 514.34416 (21051102)	607.79517 (20101401)	654.64641 (21110822)	
749.86735 (20011520)	701.76776 (21110104)		
3625373.8 505.80838 (21040222)	558.05290 (21031622)	619.73150 (20011520)	
688.16294 (21100901)	787.49057 (20100406)		
3625177.9 475.09798 (21031622)	608.07505 (20050604)	630.16422 (21100901)	
599.40216 (21081303)	795.44184 (20111623)		
3624982.1 501.80223 (20050604)	597.74103 (21100901)	616.97061 (21081303)	
650.95193 (20080624)	686.25030 (20050524)		
3624786.2 559.17824 (20052324)	568.25851 (21081303)	596.27907 (20080624)	
636.06534 (22100802)	658.31944 (20092303)		
3624590.4 577.47039 (21081303)	558.85241 (22040601)	574.81526 (22100802)	
629.16967 (20050524)	646.38587 (22081602)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 15:55:07

PAGE 110

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)				X-COORD (METERS)
	491849.68		492043.78	492237.88
492431.98		492626.08		

3628507.6		686.05069 (22090703)	743.28465 (20111805)	786.50291 (22080905)
621.58964	(21071322)	645.33812 (22103119)		
3628311.7		673.42471 (20050702)	789.10265 (22122822)	763.92434 (20101705)
705.23130	(22062022)	653.42348 (22062723)		
3628115.8		703.51774 (22102622)	865.23565 (22090703)	988.07575 (20111805)
761.65621	(21081223)	749.99506 (22062723)		
3627920.0		809.87052 (22062102)	794.61216 (20050702)	895.46655 (22122822)
882.95459	(22080905)	776.53733 (22062723)		
3627724.1		826.03329 (22090601)	833.46725 (22062102)	1093.01929 (22090703)
870.00636	(22080905)	853.53223 (22062723)		
3627528.3		758.58587 (22092901)	775.92333 (22090601)	957.58212 (20090706)
1260.45290	(20111805)	1086.04739 (22062723)		
3627332.4		643.84702 (21122104)	821.57036 (22092901)	1029.73063 (22072901)
1455.48538	(22090703)	1112.78274 (22062022)		
3627136.5		702.94578 (22090223)	722.47786 (21122104)	992.73577 (22092901)
1225.30005	(22062102)	1280.94739 (22080905)		
3626940.7		667.28332 (21020722)	755.13048 (21021622)	941.55209 (22090223)
1343.24532	(22092901)	2044.29798 (20111805)		
3626744.8		919.49553 (21010801)	1054.37367 (22050324)	1300.08456 (21022323)
1228.32237	(22110520)	1893.33740 (22080803)		
3626549.0		761.36772 (22090201)	1009.56250 (20070603)	1181.30952 (20103021)
1342.74847	(20121705)	2344.70465 (20122123)		
3626353.1		808.64534 (20122123)	948.36578 (20021723)	1290.75076 (21030901)
1550.71520	(20071703)	2080.00399 (20021622)		
3626157.2		791.87289 (21051102)	1008.47028 (21030222)	1638.96929 (20011520)
1969.46047	(20111623)	1801.21650 (21020924)		
3625961.4		898.20348 (21030222)	1020.10850 (21110104)	1198.70081 (20100406)
1027.23717	(22012923)	1170.51050 (20021220)		
3625765.5		815.21297 (21110104)	969.62984 (20100406)	1087.52583 (22012923)
923.12748	(21102022)	933.61624 (20021220)		
3625569.7		863.48770 (20100406)	786.87197 (20111623)	708.56877 (22081704)
737.31471	(20121620)	845.23336 (20101822)		
3625373.8		932.77140 (20111623)	773.10827 (22012923)	727.91125 (20091424)
780.60223	(21020924)	859.07329 (20101822)		
3625177.9		834.58291 (22012923)	727.89301 (22081704)	685.01642 (20112021)
765.45764	(20021220)	809.86130 (20101822)		
3624982.1		698.79698 (21101921)	696.36557 (20110324)	651.98226 (20112021)
767.78744	(20021220)	807.01534 (20011420)		
3624786.2		664.26414 (22081704)	651.90214 (20091424)	621.80322 (20070224)
713.07934	(20021220)	743.51800 (20101822)		

3624590.4 | 613.44750 (20110324) 654.25196 (21102022) 628.19865 (21031723)
630.39773 (21020706) 719.81536 (20101822)
^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 111

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M³
**

Y-COORD		X-COORD (METERS)
(METERS)		
493402.48	492820.18	493014.28
	493596.58	493208.38

- - - - -
- - - - -

3628507.6	633.95074 (22050623)	643.64032 (20022901)	648.14065 (20031321)
618.06494 (21081221)	676.00516 (20101624)		
3628311.7	656.91948 (22050623)	661.92068 (20022901)	595.08018 (22061421)
589.29980 (22050622)	658.81428 (20101624)		
3628115.8	608.62578 (22050623)	709.37748 (21100706)	696.69385 (22043024)
782.53151 (20101624)	613.06151 (20100320)		
3627920.0	639.31513 (22050623)	706.85402 (20031321)	769.05527 (21081221)
939.43940 (20101624)	769.70320 (22081324)		
3627724.1	822.41925 (20081922)	905.14239 (20031321)	870.52882 (20101624)
716.64170 (20100320)	879.86313 (21122302)		
3627528.3	789.83661 (20081922)	911.61895 (22043024)	883.44784 (20101624)
913.53349 (22081324)	809.51222 (21052203)		
3627332.4	1042.15266 (20022901)	1011.11305 (20101624)	1094.96015 (22081324)
930.06989 (21052203)	1006.64641 (22091021)		
3627136.5	1121.88455 (21100706)	907.47445 (20100320)	836.32072 (21052203)
668.00246 (20081923)	680.49316 (22051721)		
3626940.7	1431.57128 (22061421)	1131.13661 (21052203)	740.80538 (20071323)

```

755.57787 (20081602) 785.90660 (21072203)
3626744.8 | 1584.43388 (22010702) 1092.18842 (20081602) 960.89298 (21080324)
910.99398 (22072121) 677.82059 (20062123)
3626549.0 | 3078.98630 (20110221) 1651.63751 (21091323) 1727.58731 (20070924)
1430.79997 (21020619) 947.52661 (21080724)
3626353.1 | 2361.36681 (20061224) 2042.03017 (22081701) 1582.02445 (21063023)
1292.69049 (20092322) 1375.60750 (21091323)
3626157.2 | 1815.75315 (22090723) 2138.26473 (22072201) 1669.05074 (22070621)
1185.20338 (22041522) 1159.62351 (21063023)
3625961.4 | 1357.36612 (22052124) 1385.54997 (22071602) 1342.16994 (20041404)
1378.57650 (22070621) 967.49163 (22041522)
3625765.5 | 1200.68793 (21103123) 1764.25375 (21061223) 1291.58499 (21071002)
1284.87154 (21111920) 1187.55080 (22070621)
3625569.7 | 937.77616 (21103123) 1444.79253 (21080902) 1034.85084 (22081002)
1060.23288 (22050521) 1118.64593 (22081224)
3625373.8 | 1107.29847 (22081103) 921.10966 (21030703) 1226.14250 (22071602)
934.51508 (22010819) 969.47816 (20080301)
3625177.9 | 793.39142 (21103123) 1130.68911 (21030703) 1228.45830 (21061223)
1158.61488 (22081002) 1121.49702 (22072201)
3624982.1 | 856.07751 (22081103) 982.26280 (20042523) 1181.33579 (21080902)
1233.05832 (22071602) 926.45477 (22010819)
3624786.2 | 785.89844 (22082605) 901.79793 (20042523) 1116.31855 (20052502)
1177.66421 (20061224) 962.61315 (22081002)
3624590.4 | 641.78769 (22082605) 862.07147 (22052124) 900.61288 (21030703)
1100.88170 (20061224) 1067.34222 (22070601)
^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 15:55:07

```

PAGE 112

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

```

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)				X-COORD (METERS)
	493790.68		493984.78	494178.88
494372.98		494567.08		

3628507.6	568.92090 (21080821)	605.77584 (22081324)	406.93980 (21122302)	
301.90852 (21070722)	342.60389 (21052203)			
3628311.7	580.46715 (20121022)	622.73122 (22081324)	321.52574 (21070722)	
350.22569 (21052203)	276.31344 (22061501)			
3628115.8	837.66972 (22081324)	524.78947 (21122302)	414.44701 (21052203)	
303.72642 (22091021)	327.01990 (22091021)			
3627920.0	739.81077 (21122302)	537.27785 (21052203)	381.50705 (22091021)	
323.48089 (22091021)	306.12566 (20081923)			
3627724.1	737.61450 (21052203)	619.86375 (22091021)	370.72673 (22121802)	
324.62506 (20081923)	359.97965 (20071323)			
3627528.3	894.11673 (22091021)	580.43295 (20081923)	477.42535 (20071323)	
462.32924 (22051721)	440.30170 (22051721)			
3627332.4	626.44192 (20081923)	577.34210 (22051721)	534.25268 (21090103)	
583.71497 (20081602)	575.06486 (21072203)			
3627136.5	644.74613 (21090103)	738.07648 (20081602)	829.25830 (21072203)	
737.47851 (21072203)	553.82201 (21072203)			
3626940.7	666.24662 (21072203)	636.05379 (21080324)	695.08490 (22072121)	
752.13686 (22072121)	721.31842 (22072121)			
3626744.8	650.85396 (20031703)	628.45817 (20031703)	607.25801 (20031703)	
580.67558 (20031703)	590.43538 (21061724)			
3626549.0	962.21671 (22091222)	883.55111 (22091222)	747.15521 (22091222)	
719.96334 (22091222)	681.43374 (22091222)			
3626353.1	1294.39223 (21091323)	1113.75806 (21040722)	853.09851 (20070924)	
1018.77733 (20070924)	770.53164 (20070924)			
3626157.2	902.98473 (21052723)	957.18299 (20092322)	807.62447 (21020719)	
1008.76977 (21091323)	931.31822 (21091323)			
3625961.4	1025.35364 (20082201)	897.40913 (21063023)	818.10088 (21052723)	
666.11447 (21072222)	775.74632 (20092322)			
3625765.5	871.44818 (20071201)	846.57531 (22041522)	815.47343 (22073105)	
803.53256 (21063023)	751.19382 (21052723)			
3625569.7	1029.95898 (22070621)	790.32294 (20071201)	791.72454 (22041522)	
727.06700 (22082502)	703.14789 (20092021)			
3625373.8	1119.16770 (22080701)	938.61178 (22070621)	719.61461 (22040123)	
648.25852 (21071124)	698.62562 (22041522)			
3625177.9	884.68353 (20041404)	847.62293 (21030821)	855.29606 (22070621)	
646.48036 (22040123)	646.76831 (20071201)			
3624982.1	870.13165 (22050521)	767.57884 (21111920)	833.18802 (22081701)	
816.16634 (22070621)	614.15968 (20050501)			
3624786.2	905.09811 (20101621)	815.33681 (20080301)	772.18527 (21111920)	
807.90470 (22081701)	758.12456 (22070621)			
3624590.4	919.51652 (22010819)	834.18991 (22072201)	681.26742 (20041404)	
771.75471 (22081224)	696.36684 (22081701)			

*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 113

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD | X-COORD (METERS)
(METERS) | 494761.18

3628507.6 | 291.06726 (22061501)
3628311.7 | 362.49528 (22091021)
3628115.8 | 255.03095 (22121802)
3627920.0 | 270.84879 (20071323)
3627724.1 | 303.78288 (22051721)
3627528.3 | 333.00597 (21110620)
3627332.4 | 445.16501 (21072203)
3627136.5 | 475.05354 (21110518)
3626940.7 | 604.18288 (22072121)
3626744.8 | 566.19079 (21061724)
3626549.0 | 652.52420 (22091222)
3626353.1 | 736.68905 (22091223)
3626157.2 | 707.03909 (22070202)
3625961.4 | 588.50746 (21020719)
3625765.5 | 724.36769 (21072222)
3625569.7 | 702.27632 (21063023)
3625373.8 | 684.20084 (20082201)
3625177.9 | 708.98503 (22041522)
3624982.1 | 675.45061 (20071201)
3624786.2 | 618.99062 (21081124)
3624590.4 | 681.52224 (22070621)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 114

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	1197.55696	(20042523)	492919.80
3625834.65	1206.09611	(20052502)		
492955.07	3625845.55	1276.18924	(21080902)	493069.86
3625832.73	1730.23183	(22011423)		
493094.87	3625832.73	1545.70742	(21092324)	493110.90
3625837.21	1493.94041	(20101806)		
493151.95	3625834.01	1317.40785	(22010819)	493166.70
3625837.86	1281.79143	(22010819)		
493187.86	3625836.57	1336.14090	(20101621)	493201.33
3625836.57	1353.45625	(20101621)		
493240.44	3625836.57	1316.95431	(22072201)	492881.32
3625908.40	1255.61156	(21030703)		
492906.98	3625898.14	1229.03581	(20052502)	492901.84
3625911.60	1251.83141	(20052502)		
492928.14	3625914.81	1316.05183	(21080902)	492933.91
3625898.14	1286.32542	(21080902)		
492951.87	3625908.40	1300.95840	(21080902)	492973.67
3625907.11	1297.52782	(20061224)		
492993.55	3625914.17	1368.11477	(20061224)	492996.11
3625897.50	1359.66834	(20061224)		
493015.99	3625896.85	1289.15965	(20061224)	493023.05
3625912.24	1318.00489	(22071602)		

493044.21	3625907.11	1400.06478	(22010702)	493066.66
3625907.76	1296.82454	(22081002)		
493085.25	3625912.24	1366.58318	(22081002)	493087.18
3625895.57	1345.65366	(22081002)		
493108.98	3625911.60	1379.63809	(22010819)	493112.19
3625897.50	1370.70683	(22010819)		
493133.99	3625901.98	1354.15147	(21071002)	492874.27
3625788.48	1224.89670	(20042523)		
492894.15	3625789.12	1199.55456	(21030703)	492910.18
3625790.40	1217.78464	(21030703)		
492930.70	3625786.55	1213.80349	(20052502)	492947.38
3625791.04	1221.14989	(21080902)		
492963.41	3625787.84	1286.72102	(21080902)	492982.65
3625787.84	1452.68605	(21080902)		
492999.96	3625787.84	1619.87934	(21061223)	493021.12
3625791.04	2096.78021	(20080623)		
493036.52	3625789.12	2198.86250	(22081401)	493055.75
3625789.76	1923.84481	(21013120)		
493076.28	3625787.84	1630.35038	(22071602)	493094.87
3625787.84	1448.57422	(22082504)		
493112.83	3625788.48	1239.69582	(20082306)	493129.50
3625787.19	1236.47535	(22081002)		
493148.74	3625787.19	1289.52448	(22081002)	493164.77
3625790.40	1308.98085	(22010819)		
493184.65	3625789.12	1296.91161	(22010819)	493201.97
3625791.04	1303.29137	(21071002)		
493221.21	3625790.40	1346.10816	(20101621)	493238.52
3625791.04	1356.12822	(22072201)		
492780.00	3626415.01	2723.15702	(20091121)	492778.72
3626388.08	3255.21802	(21030703)		
492747.94	3626386.16	3111.51568	(22082605)	492742.16
3626418.22	2804.04195	(20091123)		
492699.20	3626422.71	2656.64938	(20021220)	492697.92
3626391.93	2780.32647	(20021220)		
492678.68	3626411.81	2799.36301	(20021622)	492626.09
3626426.56	2212.45632	(21071905)		
492606.85	3626435.54	2729.71709	(21110104)	492599.16
3626405.39	2162.41127	(22062801)		
492491.20	3626644.88	1620.32099	(21010801)	492517.36
3626636.70	1637.50357	(21010801)		
492521.18	3626603.45	1722.07179	(22012520)	492521.72
3626582.19	1671.08006	(20121705)		
492512.46	3626553.84	1647.17011	(20010720)	492513.55
3626533.13	2027.92489	(20122123)		
492501.01	3626506.42	2143.34425	(20122123)	492490.65
3626485.70	1805.63300	(20122123)		
492479.21	3626464.45	1515.17349	(20021722)	492466.12
3626447.00	1624.65697	(20021722)		
492447.59	3626418.66	1821.68829	(20011918)	492431.78
3626430.65	1796.85677	(20011918)		

```

492481.93 3626620.35 1579.84021 (20100201) 492482.48
3626594.18 1598.50659 (22012520)
492479.21 3626572.92 1551.75289 (20121705) 492477.02
3626546.76 1601.19756 (20122123)
492467.76 3626523.32 1945.50917 (20122123) 492463.94
3626507.51 2062.31012 (20122123)
492450.86 3626492.79 1978.93281 (20122123) 492427.42
3626474.80 2077.92892 (20122123)
^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
***
15:55:07

```

PAGE 115

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

```

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	1688.14138	(22123102)	492803.94
3626616.07	2312.91614	(22102522)		
492823.25	3626567.17	2698.93475	(20110221)	492838.34
3626526.92	2928.23386	(20110221)		
493039.78	3625834.45	1660.38973	(22071602)	492743.19
3626628.92	2839.01014	(22102021)		
492791.92	3626663.04	1702.29371	(21080821)	492731.11
3626741.92	1999.13495	(22062022)		
492774.75	3626728.05	1906.20343	(22010702)	492674.05
3626738.96	2764.58156	(22090703)		
492708.49	3626698.47	3009.23716	(20101705)	492703.25
3626652.75	3211.11654	(22102624)		
493013.27	3625844.49	1476.05129	(20061224)	

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 116

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (26304

HRS) RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

SLINE1	1ST HIGHEST VALUE IS	293.40829 AT (	492820.18, 3626548.96, 125.40,
	125.40, 0.00) GC UCART1		
	2ND HIGHEST VALUE IS	238.53374 AT (	492838.34, 3626526.92, 125.45,
	125.45, 0.00) DC		
	3RD HIGHEST VALUE IS	237.07515 AT (	492823.25, 3626567.17, 125.08,
	125.08, 0.00) DC		
	4TH HIGHEST VALUE IS	204.04152 AT (	492743.19, 3626628.92, 123.93,
	123.93, 0.00) DC		
	5TH HIGHEST VALUE IS	172.49588 AT (	492803.94, 3626616.07, 124.66,
	124.66, 0.00) DC		
	6TH HIGHEST VALUE IS	124.75758 AT (	492703.25, 3626652.75, 123.46,
	123.46, 0.00) DC		
	7TH HIGHEST VALUE IS	123.96594 AT (	492626.08, 3626548.96, 100.70,
	136.60, 0.00) GC UCART1		
	8TH HIGHEST VALUE IS	114.75896 AT (	492606.85, 3626435.54, 128.92,
	134.13, 0.00) DC		
	9TH HIGHEST VALUE IS	100.51767 AT (	492791.92, 3626663.04, 123.58,
	123.58, 0.00) DC		
	10TH HIGHEST VALUE IS	97.68543 AT (	492780.00, 3626415.01, 128.98,
	135.14, 0.00) DC		
STCK1	1ST HIGHEST VALUE IS	74.07129 AT (	492820.18, 3626548.96, 125.40,
	125.40, 0.00) GC UCART1		
	2ND HIGHEST VALUE IS	62.27349 AT (	492838.34, 3626526.92, 125.45,
	125.45, 0.00) DC		
	3RD HIGHEST VALUE IS	53.40667 AT (	492823.25, 3626567.17, 125.08,
	125.08, 0.00) DC		

129.76,	4TH HIGHEST VALUE IS	28.27020	AT (	492699.20,	3626422.71,	129.76,
	0.00) DC					
129.71,	5TH HIGHEST VALUE IS	27.26540	AT (	492742.16,	3626418.22,	129.71,
	0.00) DC					
134.69,	6TH HIGHEST VALUE IS	24.95353	AT (	492678.68,	3626411.81,	130.96,
	0.00) DC					
135.14,	7TH HIGHEST VALUE IS	23.71298	AT (	492780.00,	3626415.01,	128.98,
	0.00) DC					
134.78,	8TH HIGHEST VALUE IS	21.99014	AT (	492697.92,	3626391.93,	131.37,
	0.00) DC					
133.61,	9TH HIGHEST VALUE IS	21.46745	AT (	492626.09,	3626426.56,	132.75,
	0.00) DC					
134.13,	10TH HIGHEST VALUE IS	19.65863	AT (	492606.85,	3626435.54,	128.92,
	0.00) DC					
STCK2	1ST HIGHEST VALUE IS	156.36088	AT (	493039.78,	3625834.45,	141.93,
141.93,	0.00) DC					
141.76,	2ND HIGHEST VALUE IS	107.83633	AT (	493013.27,	3625844.49,	141.76,
	0.00) DC					
142.17,	3RD HIGHEST VALUE IS	104.37471	AT (	493069.86,	3625832.73,	142.17,
	0.00) DC					
141.87,	4TH HIGHEST VALUE IS	86.28154	AT (	493076.28,	3625787.84,	141.87,
	0.00) DC					
141.87,	5TH HIGHEST VALUE IS	85.24800	AT (	493055.75,	3625789.76,	141.87,
	0.00) DC					
141.85,	6TH HIGHEST VALUE IS	80.12173	AT (	493036.52,	3625789.12,	141.85,
	0.00) DC					
141.82,	7TH HIGHEST VALUE IS	78.47407	AT (	493021.12,	3625791.04,	141.82,
	0.00) DC					
141.87,	8TH HIGHEST VALUE IS	77.03139	AT (	493094.87,	3625787.84,	141.87,
	0.00) DC					
142.17,	9TH HIGHEST VALUE IS	68.58691	AT (	493094.87,	3625832.73,	142.17,
	0.00) DC					
141.71,	10TH HIGHEST VALUE IS	58.24440	AT (	492999.96,	3625787.84,	141.71,
	0.00) DC					
STCK3	1ST HIGHEST VALUE IS	31.24346	AT (	492743.19,	3626628.92,	123.93,
123.93,	0.00) DC					
123.46,	2ND HIGHEST VALUE IS	29.20766	AT (	492703.25,	3626652.75,	123.46,
	0.00) DC					
124.66,	3RD HIGHEST VALUE IS	24.14557	AT (	492803.94,	3626616.07,	124.66,
	0.00) DC					
136.60,	4TH HIGHEST VALUE IS	22.58794	AT (	492626.08,	3626548.96,	100.70,
	0.00) GC UCART1					
125.08,	5TH HIGHEST VALUE IS	21.21542	AT (	492823.25,	3626567.17,	125.08,
	0.00) DC					
123.58,	6TH HIGHEST VALUE IS	21.16517	AT (	492791.92,	3626663.04,	123.58,
	0.00) DC					
125.40,	7TH HIGHEST VALUE IS	19.69953	AT (	492820.18,	3626548.96,	125.40,
	0.00) GC UCART1					

8TH HIGHEST VALUE IS 18.25764 AT (492838.34, 3626526.92, 125.45,
 125.45, 0.00) DC
 9TH HIGHEST VALUE IS 15.08807 AT (492513.55, 3626533.13, 118.00,
 133.70, 0.00) DC
 10TH HIGHEST VALUE IS 14.85398 AT (492501.01, 3626506.42, 118.27,
 133.70, 0.00) DC

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 15:55:07

PAGE 117

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (26304

HRS) RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

STCK4 1ST HIGHEST VALUE IS 31.29378 AT (492708.49, 3626698.47, 121.52,
 121.52, 0.00) DC
 2ND HIGHEST VALUE IS 28.64508 AT (492703.25, 3626652.75, 123.46,
 123.46, 0.00) DC
 3RD HIGHEST VALUE IS 22.01923 AT (492743.19, 3626628.92, 123.93,
 123.93, 0.00) DC
 4TH HIGHEST VALUE IS 21.43187 AT (492791.92, 3626663.04, 123.58,
 123.58, 0.00) DC
 5TH HIGHEST VALUE IS 19.47511 AT (492674.05, 3626738.96, 119.68,
 121.09, 0.00) DC
 6TH HIGHEST VALUE IS 18.59782 AT (492820.18, 3626744.82, 108.40,
 125.30, 0.00) GC UCART1
 7TH HIGHEST VALUE IS 18.06057 AT (492517.36, 3626636.70, 113.55,
 133.70, 0.00) DC
 8TH HIGHEST VALUE IS 17.88029 AT (492521.18, 3626603.45, 117.51,
 117.51, 0.00) DC
 9TH HIGHEST VALUE IS 17.86864 AT (492803.94, 3626616.07, 124.66,
 124.66, 0.00) DC
 10TH HIGHEST VALUE IS 17.37809 AT (492731.11, 3626741.92, 118.49,
 121.20, 0.00) DC

STCK5 1ST HIGHEST VALUE IS 47.66881 AT (492743.19, 3626628.92, 123.93,

123.93,	0.00) DC	43.74972 AT (	492703.25,	3626652.75,	123.46,
123.46,	0.00) DC				
	3RD HIGHEST VALUE IS	43.05791 AT (	492708.49,	3626698.47,	121.52,
121.52,	0.00) DC				
	4TH HIGHEST VALUE IS	27.56542 AT (	492820.18,	3626548.96,	125.40,
125.40,	0.00) GC UCART1				
	5TH HIGHEST VALUE IS	26.95428 AT (	492731.11,	3626741.92,	118.49,
121.20,	0.00) DC				
	6TH HIGHEST VALUE IS	26.85335 AT (	492823.25,	3626567.17,	125.08,
125.08,	0.00) DC				
	7TH HIGHEST VALUE IS	25.77731 AT (	492674.05,	3626738.96,	119.68,
121.09,	0.00) DC				
	8TH HIGHEST VALUE IS	25.33795 AT (	492791.92,	3626663.04,	123.58,
123.58,	0.00) DC				
	9TH HIGHEST VALUE IS	25.11229 AT (	492803.94,	3626616.07,	124.66,
124.66,	0.00) DC				
	10TH HIGHEST VALUE IS	23.83517 AT (	492838.34,	3626526.92,	125.45,
125.45,	0.00) DC				
STCK6	1ST HIGHEST VALUE IS	68.54486 AT (	492703.25,	3626652.75,	123.46,
123.46,	0.00) DC				
	2ND HIGHEST VALUE IS	62.84419 AT (	492743.19,	3626628.92,	123.93,
123.93,	0.00) DC				
	3RD HIGHEST VALUE IS	29.38690 AT (	492820.18,	3626548.96,	125.40,
125.40,	0.00) GC UCART1				
	4TH HIGHEST VALUE IS	28.63816 AT (	492791.92,	3626663.04,	123.58,
123.58,	0.00) DC				
	5TH HIGHEST VALUE IS	28.11105 AT (	492626.08,	3626548.96,	100.70,
136.60,	0.00) GC UCART1				
	6TH HIGHEST VALUE IS	27.81186 AT (	492708.49,	3626698.47,	121.52,
121.52,	0.00) DC				
	7TH HIGHEST VALUE IS	26.35754 AT (	492838.34,	3626526.92,	125.45,
125.45,	0.00) DC				
	8TH HIGHEST VALUE IS	25.85425 AT (	492803.94,	3626616.07,	124.66,
124.66,	0.00) DC				
	9TH HIGHEST VALUE IS	25.32493 AT (	492823.25,	3626567.17,	125.08,
125.08,	0.00) DC				
	10TH HIGHEST VALUE IS	19.68388 AT (	492513.55,	3626533.13,	118.00,
133.70,	0.00) DC				
ALL	1ST HIGHEST VALUE IS	460.45192 AT (	492820.18,	3626548.96,	125.40,
125.40,	0.00) GC UCART1				
	2ND HIGHEST VALUE IS	386.37300 AT (	492838.34,	3626526.92,	125.45,
125.45,	0.00) DC				
	3RD HIGHEST VALUE IS	381.13549 AT (	492823.25,	3626567.17,	125.08,
125.08,	0.00) DC				
	4TH HIGHEST VALUE IS	375.24319 AT (	492743.19,	3626628.92,	123.93,
123.93,	0.00) DC				
	5TH HIGHEST VALUE IS	300.33876 AT (	492703.25,	3626652.75,	123.46,

```

123.46,    0.00) DC
      6TH HIGHEST VALUE IS    277.34535 AT (  492803.94,  3626616.07,  124.66,
124.66,    0.00) DC
      7TH HIGHEST VALUE IS    217.26720 AT (  492626.08,  3626548.96,  100.70,
136.60,    0.00) GC UCART1
      8TH HIGHEST VALUE IS    204.82730 AT (  492791.92,  3626663.04,  123.58,
123.58,    0.00) DC
      9TH HIGHEST VALUE IS    193.01635 AT (  492708.49,  3626698.47,  121.52,
121.52,    0.00) DC
      10TH HIGHEST VALUE IS   178.72443 AT (  492606.85,  3626435.54,  128.92,
134.13,    0.00) DC

```

```

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

```

```

^ *** AERMOD - VERSION 23132 ***      *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU ***      10/10/24
*** AERMET - VERSION  23132 ***      ***
***      15:55:07

```

```

                        PAGE 118
*** MODELOPTs:      RegDFAULT  CONC  ELEV  RURAL  SigA Data

```

```

*** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***

```

```

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

```

				DATE			
				NETWORK			
GROUP ID				AVERAGE CONC		(YYMMDDHH)	
(XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE GRID-ID			
-				-		-	
-				-		-	
SLINE1	HIGH	1ST HIGH VALUE IS	2713.84747	ON	22102021:	AT (	492743.19,
		3626628.92, 123.93, 123.93,	0.00)	DC			
STCK1	HIGH	1ST HIGH VALUE IS	1361.72319	ON	22102522:	AT (	492803.94,
		3626616.07, 124.66, 124.66,	0.00)	DC			
STCK2	HIGH	1ST HIGH VALUE IS	1714.13040	ON	22011423:	AT (	493069.86,
		3625832.73, 142.17, 142.17,	0.00)	DC			
STCK3	HIGH	1ST HIGH VALUE IS	644.94201	ON	21081523:	AT (	493208.38,
		3626548.96, 132.60, 132.60,	0.00)	GC UCART1			

STCK4 HIGH 1ST HIGH VALUE IS 784.97476 ON 22061421: AT (492820.18,
3626940.68, 57.70, 250.90, 0.00) GC UCART1

STCK5 HIGH 1ST HIGH VALUE IS 788.74950 ON 20110221: AT (492820.18,
3626548.96, 125.40, 125.40, 0.00) GC UCART1

STCK6 HIGH 1ST HIGH VALUE IS 1003.97449 ON 21040722: AT (492803.94,
3626616.07, 124.66, 124.66, 0.00) DC

ALL HIGH 1ST HIGH VALUE IS 3255.21802 ON 21030703: AT (492778.72,
3626388.08, 131.08, 135.14, 0.00) DC

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

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 15:55:07

PAGE 119

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

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

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

A Total of 0 Fatal Error Message(s)
A Total of 3 Warning Message(s)
A Total of 1415 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 654 Calm Hours Identified

A Total of 761 Missing Hours Identified (2.89 Percent)

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

***** WARNING MESSAGES *****
SO W320 184 PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
SO W320 185 PPARM: Input Parameter May Be Out-of-Range for Parameter
VS

MX W403 441 PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

*** AERMOD Finishes Successfully ***

HARP2 - HRACalc (dated 22118) 12/3/2024 3:15:48 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.583

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.583
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 6 HARP\hra\Phase 6

OffsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 6 HARP\hra\Phase 6

OffsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 6 HARP\hra\Phase 6

OffsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 6 HARP\hra\Phase 6

OffsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 6 HARP\hra\Phase 6

OffsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 6 HARP\hra\Phase 6

OffsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

[illegible]

[illegible]

94	ALL	UCART1	492626.1	3625374	1.03E-07	1.583YrCar	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	UCART1	492820.2	3625374	8.65E-08	1.583YrCar	8.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	UCART1	493014.3	3625374	9.32E-08	1.583YrCar	9.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	UCART1	493208.4	3625374	1.00E-07	1.583YrCar	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	UCART1	493402.5	3625374	9.87E-08	1.583YrCar	9.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	UCART1	493596.6	3625374	1.03E-07	1.583YrCar	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	UCART1	493790.7	3625374	9.22E-08	1.583YrCar	9.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	UCART1	493984.8	3625374	6.32E-08	1.583YrCar	6.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	UCART1	494178.9	3625374	5.93E-08	1.583YrCar	5.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	UCART1	494373	3625374	5.74E-08	1.583YrCar	5.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	UCART1	494567.1	3625374	5.84E-08	1.583YrCar	5.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	UCART1	494761.2	3625374	5.54E-08	1.583YrCar	5.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	UCART1	490879.2	3625570	7.53E-08	1.583YrCar	7.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	UCART1	491073.3	3625570	9.01E-08	1.583YrCar	9.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	UCART1	491267.4	3625570	1.19E-07	1.583YrCar	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	UCART1	491461.5	3625570	1.33E-07	1.583YrCar	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	UCART1	491655.6	3625570	1.15E-07	1.583YrCar	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	UCART1	491849.7	3625570	1.17E-07	1.583YrCar	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	UCART1	492043.8	3625570	1.03E-07	1.583YrCar	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	UCART1	492237.9	3625570	1.04E-07	1.583YrCar	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	UCART1	492432	3625570	1.12E-07	1.583YrCar	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	UCART1	492626.1	3625570	1.25E-07	1.583YrCar	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	UCART1	492820.2	3625570	1.30E-07	1.583YrCar	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	UCART1	493014.3	3625570	1.04E-07	1.583YrCar	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	UCART1	493208.4	3625570	1.48E-07	1.583YrCar	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	UCART1	493402.5	3625570	1.36E-07	1.583YrCar	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	UCART1	493596.6	3625570	8.49E-08	1.583YrCar	8.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	UCART1	493790.7	3625570	7.70E-08	1.583YrCar	7.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	UCART1	493984.8	3625570	7.22E-08	1.583YrCar	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	UCART1	494178.9	3625570	6.97E-08	1.583YrCar	6.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	UCART1	494373	3625570	7.05E-08	1.583YrCar	7.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	UCART1	494567.1	3625570	7.29E-08	1.583YrCar	7.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	UCART1	494761.2	3625570	6.41E-08	1.583YrCar	6.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	UCART1	490879.2	3625766	7.25E-08	1.583YrCar	7.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	UCART1	491073.3	3625766	9.29E-08	1.583YrCar	9.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	UCART1	491267.4	3625766	1.08E-07	1.583YrCar	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	UCART1	491461.5	3625766	1.28E-07	1.583YrCar	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	UCART1	491655.6	3625766	1.45E-07	1.583YrCar	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	UCART1	491849.7	3625766	1.52E-07	1.583YrCar	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	UCART1	492043.8	3625766	1.49E-07	1.583YrCar	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	UCART1	492237.9	3625766	1.45E-07	1.583YrCar	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	UCART1	492432	3625766	1.85E-07	1.583YrCar	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	UCART1	492626.1	3625766	1.85E-07	1.583YrCar	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	UCART1	492820.2	3625766	1.25E-07	1.583YrCar	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	UCART1	493014.3	3625766	1.50E-07	1.583YrCar	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	UCART1	493208.4	3625766	1.46E-07	1.583YrCar	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	UCART1	493402.5	3625766	1.46E-07	1.583YrCar	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

141		UCART1	493596.6	3625766	1.10E-07	1.583YrCar	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	UCART1	493790.7	3625766	8.79E-08	1.583YrCar	8.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	UCART1	493984.8	3625766	8.74E-08	1.583YrCar	8.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	UCART1	494178.9	3625766	8.82E-08	1.583YrCar	8.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	UCART1	494373	3625766	7.99E-08	1.583YrCar	7.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	UCART1	494567.1	3625766	6.43E-08	1.583YrCar	6.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	UCART1	494761.2	3625766	5.87E-08	1.583YrCar	5.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	UCART1	490879.2	3625961	6.62E-08	1.583YrCar	6.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	UCART1	491073.3	3625961	8.15E-08	1.583YrCar	8.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	UCART1	491267.4	3625961	1.03E-07	1.583YrCar	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	UCART1	491461.5	3625961	1.33E-07	1.583YrCar	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	UCART1	491655.6	3625961	2.14E-07	1.583YrCar	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	UCART1	491849.7	3625961	2.58E-07	1.583YrCar	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	UCART1	492043.8	3625961	2.36E-07	1.583YrCar	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	UCART1	492237.9	3625961	2.32E-07	1.583YrCar	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	UCART1	492432	3625961	2.37E-07	1.583YrCar	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	UCART1	492626.1	3625961	3.10E-07	1.583YrCar	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	UCART1	492820.2	3625961	1.51E-07	1.583YrCar	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	UCART1	493014.3	3625961	1.55E-07	1.583YrCar	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	UCART1	493208.4	3625961	1.58E-07	1.583YrCar	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	UCART1	493402.5	3625961	1.61E-07	1.583YrCar	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	UCART1	493596.6	3625961	1.43E-07	1.583YrCar	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	UCART1	493790.7	3625961	1.65E-07	1.583YrCar	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	UCART1	493984.8	3625961	1.05E-07	1.583YrCar	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	UCART1	494178.9	3625961	8.36E-08	1.583YrCar	8.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	UCART1	494373	3625961	8.54E-08	1.583YrCar	8.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	UCART1	494567.1	3625961	5.49E-08	1.583YrCar	5.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	UCART1	494761.2	3625961	5.83E-08	1.583YrCar	5.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	UCART1	490879.2	3626157	5.88E-08	1.583YrCar	5.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	UCART1	491073.3	3626157	7.25E-08	1.583YrCar	7.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	UCART1	491267.4	3626157	1.08E-07	1.583YrCar	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	UCART1	491461.5	3626157	1.45E-07	1.583YrCar	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	UCART1	491655.6	3626157	2.02E-07	1.583YrCar	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	UCART1	491849.7	3626157	2.61E-07	1.583YrCar	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	UCART1	492043.8	3626157	3.66E-07	1.583YrCar	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	UCART1	492237.9	3626157	5.51E-07	1.583YrCar	5.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	UCART1	492432	3626157	5.52E-07	1.583YrCar	5.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	UCART1	492626.1	3626157	4.70E-07	1.583YrCar	4.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	UCART1	492820.2	3626157	3.08E-07	1.583YrCar	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	UCART1	493014.3	3626157	4.34E-07	1.583YrCar	4.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	UCART1	493208.4	3626157	2.66E-07	1.583YrCar	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	UCART1	493402.5	3626157	2.29E-07	1.583YrCar	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	UCART1	493596.6	3626157	2.33E-07	1.583YrCar	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	UCART1	493790.7	3626157	1.71E-07	1.583YrCar	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	UCART1	493984.8	3626157	1.03E-07	1.583YrCar	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	UCART1	494178.9	3626157	7.31E-08	1.583YrCar	7.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	UCART1	494373	3626157	6.72E-08	1.583YrCar	6.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

188		UCART1	494567.1	3626157	4.74E-08	1.583YrCar	4.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	UCART1	494761.2	3626157	5.23E-08	1.583YrCar	5.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	UCART1	490879.2	3626353	5.54E-08	1.583YrCar	5.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	UCART1	491073.3	3626353	7.24E-08	1.583YrCar	7.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	UCART1	491267.4	3626353	8.86E-08	1.583YrCar	8.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	UCART1	491461.5	3626353	1.05E-07	1.583YrCar	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	UCART1	491655.6	3626353	1.69E-07	1.583YrCar	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	UCART1	491849.7	3626353	1.92E-07	1.583YrCar	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	UCART1	492043.8	3626353	3.75E-07	1.583YrCar	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	UCART1	492237.9	3626353	5.80E-07	1.583YrCar	5.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	UCART1	492432	3626353	9.67E-07	1.583YrCar	9.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	UCART1	492626.1	3626353	8.20E-07	1.583YrCar	8.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	UCART1	492820.2	3626353	7.62E-07	1.583YrCar	7.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	UCART1	493014.3	3626353	9.56E-07	1.583YrCar	9.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	UCART1	493208.4	3626353	4.88E-07	1.583YrCar	4.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	UCART1	493402.5	3626353	2.55E-07	1.583YrCar	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	UCART1	493596.6	3626353	1.81E-07	1.583YrCar	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	UCART1	493790.7	3626353	1.30E-07	1.583YrCar	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

235		UCART1	491461.5	3626745	7.57E-08	1.583YrCar	7.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	UCART1	491655.6	3626745	9.53E-08	1.583YrCar	9.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	UCART1	491849.7	3626745	1.31E-07	1.583YrCar	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	UCART1	492043.8	3626745	1.88E-07	1.583YrCar	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	UCART1	492237.9	3626745	2.90E-07	1.583YrCar	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	UCART1	492432	3626745	4.84E-07	1.583YrCar	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	UCART1	492626.1	3626745	1.01E-06	1.583YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	UCART1	492820.2	3626745	1.03E-06	1.583YrCar	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	UCART1	493014.3	3626745	5.17E-07	1.583YrCar	5.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	UCART1	493208.4	3626745	2.78E-07	1.583YrCar	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	UCART1	493402.5	3626745	1.87E-07	1.583YrCar	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	UCART1	493596.6	3626745	1.19E-07	1.583YrCar	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	UCART1	493790.7	3626745	8.97E-08	1.583YrCar	8.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	UCART1	493984.8	3626745	7.06E-08	1.583YrCar	7.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	UCART1	494178.9	3626745	5.92E-08	1.583YrCar	5.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	UCART1	494373	3626745	5.26E-08	1.583YrCar	5.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	UCART1	494567.1	3626745	4.99E-08	1.583YrCar	4.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	UCART1	494761.2	3626745	4.30E-08	1.583YrCar	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	UCART1	490879.2	3626941	4.00E-08	1.583YrCar	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	UCART1	491073.3	3626941	4.69E-08	1.583YrCar	4.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	UCART1	491267.4	3626941	5.58E-08	1.583YrCar	5.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	UCART1	491461.5	3626941	6.79E-08	1.583YrCar	6.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	UCART1	491655.6	3626941	8.43E-08	1.583YrCar	8.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	UCART1	491849.7	3626941	1.08E-07	1.583YrCar	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	UCART1	492043.8	3626941	1.43E-07	1.583YrCar	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	UCART1	492237.9	3626941	2.02E-07	1.583YrCar	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	UCART1	492432	3626941	2.99E-07	1.583YrCar	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	UCART1	492626.1	3626941	3.90E-07	1.583YrCar	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	UCART1	492820.2	3626941	3.73E-07	1.583YrCar	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	UCART1	493014.3	3626941	2.81E-07	1.583YrCar	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	UCART1	493208.4	3626941	1.93E-07	1.583YrCar	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	UCART1	493402.5	3626941	1.37E-07	1.583YrCar	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	UCART1	493596.6	3626941	1.10E-07	1.583YrCar	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	UCART1	493790.7	3626941	9.83E-08	1.583YrCar	9.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	UCART1	493984.8	3626941	6.71E-08	1.583YrCar	6.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	UCART1	494178.9	3626941	6.21E-08	1.583YrCar	6.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	UCART1	494373	3626941	3.97E-08	1.583YrCar	3.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	UCART1	494567.1	3626941	3.27E-08	1.583YrCar	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	UCART1	494761.2	3626941	2.39E-08	1.583YrCar	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	UCART1	490879.2	3627137	3.76E-08	1.583YrCar	3.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	UCART1	491073.3	3627137	4.32E-08	1.583YrCar	4.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	UCART1	491267.4	3627137	5.07E-08	1.583YrCar	5.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	UCART1	491461.5	3627137	6.02E-08	1.583YrCar	6.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	UCART1	491655.6	3627137	7.25E-08	1.583YrCar	7.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	UCART1	491849.7	3627137	8.96E-08	1.583YrCar	8.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	UCART1	492043.8	3627137	1.15E-07	1.583YrCar	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	UCART1	492237.9	3627137	1.50E-07	1.583YrCar	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

282	ALL	UCART1	492432	3627137	1.89E-07	1.583YrCar	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	UCART1	492626.1	3627137	2.08E-07	1.583YrCar	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	UCART1	492820.2	3627137	2.01E-07	1.583YrCar	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	UCART1	493014.3	3627137	1.70E-07	1.583YrCar	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	UCART1	493208.4	3627137	1.36E-07	1.583YrCar	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	UCART1	493402.5	3627137	1.06E-07	1.583YrCar	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	UCART1	493596.6	3627137	1.08E-07	1.583YrCar	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	UCART1	493790.7	3627137	3.10E-08	1.583YrCar	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	UCART1	493984.8	3627137	2.63E-08	1.583YrCar	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	UCART1	494178.9	3627137	3.65E-08	1.583YrCar	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	UCART1	494373	3627137	2.28E-08	1.583YrCar	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	UCART1	494567.1	3627137	1.78E-08	1.583YrCar	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	UCART1	494761.2	3627137	9.27E-09	1.583YrCar	9.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	UCART1	490879.2	3627332	3.45E-08	1.583YrCar	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	UCART1	491073.3	3627332	3.94E-08	1.583YrCar	3.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	UCART1	491267.4	3627332	4.54E-08	1.583YrCar	4.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	UCART1	491461.5	3627332	5.30E-08	1.583YrCar	5.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	UCART1	491655.6	3627332	6.27E-08	1.583YrCar	6.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

329	ALL	UCART1	493402.5	3627528	6.61E-08	1.583YrCar	6.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	UCART1	493596.6	3627528	7.37E-08	1.583YrCar	7.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	UCART1	493790.7	3627528	2.60E-08	1.583YrCar	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	UCART1	493984.8	3627528	1.16E-08	1.583YrCar	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	UCART1	494178.9	3627528	6.79E-09	1.583YrCar	6.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	UCART1	494373	3627528	6.14E-09	1.583YrCar	6.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	UCART1	494567.1	3627528	6.12E-09	1.583YrCar	6.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	UCART1	494761.2	3627528	3.05E-09	1.583YrCar	3.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	UCART1	490879.2	3627724	2.86E-08	1.583YrCar	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	UCART1	491073.3	3627724	3.19E-08	1.583YrCar	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	UCART1	491267.4	3627724	3.65E-08	1.583YrCar	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	UCART1	491461.5	3627724	4.24E-08	1.583YrCar	4.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	UCART1	491655.6	3627724	4.93E-08	1.583YrCar	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	UCART1	491849.7	3627724	5.54E-08	1.583YrCar	5.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	UCART1	492043.8	3627724	6.11E-08	1.583YrCar	6.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	UCART1	492237.9	3627724	6.83E-08	1.583YrCar	6.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	UCART1	492432	3627724	6.80E-08	1.583YrCar	6.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	UCART1	492626.1	3627724	6.98E-08	1.583YrCar	6.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

376	ALL	UCART1	494373	3627920	2.65E-09	1.583YrCar	2.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	UCART1	494567.1	3627920	2.54E-09	1.583YrCar	2.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	UCART1	494761.2	3627920	2.29E-09	1.583YrCar	2.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	UCART1	490879.2	3628116	2.47E-08	1.583YrCar	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	UCART1	491073.3	3628116	2.75E-08	1.583YrCar	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	UCART1	491267.4	3628116	3.07E-08	1.583YrCar	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	UCART1	491461.5	3628116	3.34E-08	1.583YrCar	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	UCART1	491655.6	3628116	3.65E-08	1.583YrCar	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	UCART1	491849.7	3628116	4.02E-08	1.583YrCar	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	UCART1	492043.8	3628116	4.29E-08	1.583YrCar	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	UCART1	492237.9	3628116	4.41E-08	1.583YrCar	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	UCART1	492432	3628116	4.55E-08	1.583YrCar	4.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	UCART1	492626.1	3628116	4.63E-08	1.583YrCar	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	UCART1	492820.2	3628116	4.36E-08	1.583YrCar	4.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	UCART1	493014.3	3628116	4.26E-08	1.583YrCar	4.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	UCART1	493208.4	3628116	5.01E-08	1.583YrCar	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	UCART1	493402.5	3628116	4.64E-08	1.583YrCar	4.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	UCART1	493596.6	3628116	4.41E-08	1.583YrCar	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

423	ALL	UCART1	491267.4	3628508	2.43E-08	1.583YrCar	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	UCART1	491461.5	3628508	2.62E-08	1.583YrCar	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	UCART1	491655.6	3628508	2.80E-08	1.583YrCar	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	UCART1	491849.7	3628508	2.98E-08	1.583YrCar	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	UCART1	492043.8	3628508	3.14E-08	1.583YrCar	3.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	UCART1	492237.9	3628508	3.22E-08	1.583YrCar	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	UCART1	492432	3628508	3.42E-08	1.583YrCar	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	UCART1	492626.1	3628508	3.46E-08	1.583YrCar	3.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	UCART1	492820.2	3628508	3.41E-08	1.583YrCar	3.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	UCART1	493014.3	3628508	3.04E-08	1.583YrCar	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	UCART1	493208.4	3628508	3.19E-08	1.583YrCar	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	UCART1	493402.5	3628508	3.12E-08	1.583YrCar	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	UCART1	493596.6	3628508	3.15E-08	1.583YrCar	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	UCART1	493790.7	3628508	3.07E-08	1.583YrCar	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	UCART1	493984.8	3628508	1.03E-08	1.583YrCar	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	UCART1	494178.9	3628508	2.62E-09	1.583YrCar	2.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	UCART1	494373	3628508	1.87E-09	1.583YrCar	1.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	UCART1	494567.1	3628508	1.82E-09	1.583YrCar	1.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	UCART1	494761.2	3628508	1.83E-09	1.583YrCar	1.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL		492883.3	3625831	1.34E-07	1.583YrCar	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL		492919.8	3625835	1.39E-07	1.583YrCar	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL		492955.1	3625846	1.32E-07	1.583YrCar	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL		493069.9	3625833	2.26E-07	1.583YrCar	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL		493094.9	3625833	1.87E-07	1.583YrCar	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL		493110.9	3625837	1.61E-07	1.583YrCar	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL		493152	3625834	1.48E-07	1.583YrCar	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL		493166.7	3625838	1.44E-07	1.583YrCar	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL		493187.9	3625837	1.42E-07	1.583YrCar	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL		493201.3	3625837	1.40E-07	1.583YrCar	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL		493240.4	3625837	1.39E-07	1.583YrCar	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL		492881.3	3625908	1.28E-07	1.583YrCar	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL		492907	3625898	1.25E-07	1.583YrCar	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL		492901.8	3625912	1.31E-07	1.583YrCar	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL		492928.1	3625915	1.35E-07	1.583YrCar	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL		492933.9	3625898	1.28E-07	1.583YrCar	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL		492951.9	3625908	1.34E-07	1.583YrCar	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL		492973.7	3625907	1.41E-07	1.583YrCar	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL		492993.6	3625914	1.48E-07	1.583YrCar	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL		492996.1	3625898	1.45E-07	1.583YrCar	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL		493016	3625897	1.43E-07	1.583YrCar	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL		493023.1	3625912	1.46E-07	1.583YrCar	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL		493044.2	3625907	1.48E-07	1.583YrCar	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL		493066.7	3625908	1.58E-07	1.583YrCar	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL		493085.3	3625912	1.53E-07	1.583YrCar	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL		493087.2	3625896	1.57E-07	1.583YrCar	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL		493109	3625912	1.54E-07	1.583YrCar	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL		493112.2	3625898	1.54E-07	1.583YrCar	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

470	ALL	493134	3625902	1.58E-07	1.583YrCar	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	492874.3	3625788	1.44E-07	1.583YrCar	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	492894.2	3625789	1.50E-07	1.583YrCar	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	492910.2	3625790	1.55E-07	1.583YrCar	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	492930.7	3625787	1.59E-07	1.583YrCar	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	492947.4	3625791	1.63E-07	1.583YrCar	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	492963.4	3625788	1.58E-07	1.583YrCar	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	492982.7	3625788	1.59E-07	1.583YrCar	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	493000	3625788	1.67E-07	1.583YrCar	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	493021.1	3625791	1.90E-07	1.583YrCar	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	493036.5	3625789	1.92E-07	1.583YrCar	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	493055.8	3625790	1.98E-07	1.583YrCar	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	493076.3	3625788	2.00E-07	1.583YrCar	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	493094.9	3625788	1.91E-07	1.583YrCar	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	493112.8	3625788	1.71E-07	1.583YrCar	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	493129.5	3625787	1.64E-07	1.583YrCar	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	493148.7	3625787	1.57E-07	1.583YrCar	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	493164.8	3625790	1.52E-07	1.583YrCar	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	493184.7	3625789	1.49E													

[illegible]

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEI RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL	UCART1	490879.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
2	ALL	UCART1	491073.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
3	ALL	UCART1	491267.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
4	ALL	UCART1	491461.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
5	ALL	UCART1	491655.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
6	ALL	UCART1	491849.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
7	ALL	UCART1	492043.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
8	ALL	UCART1	492237.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
9	ALL	UCART1	492432	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
10	ALL	UCART1	492626.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
11	ALL	UCART1	492820.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
12	ALL	UCART1	493014.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
13	ALL	UCART1	493208.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
14	ALL	UCART1	493402.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
15	ALL	UCART1	493596.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
16	ALL	UCART1	493790.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
17	ALL	UCART1	493984.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
18	ALL	UCART1	494178.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
19	ALL	UCART1	494373	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
20	ALL	UCART1	494567.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
21	ALL	UCART1	494761.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
22	ALL	UCART1	490879.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
23	ALL	UCART1	491073.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
24	ALL	UCART1	491267.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
25	ALL	UCART1	491461.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05
26	ALL	UCART1	491655.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
27	ALL	UCART1	491849.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
28	ALL	UCART1	492043.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
29	ALL	UCART1	492237.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
30	ALL	UCART1	492432	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
31	ALL	UCART1	492626.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
32	ALL	UCART1	492820.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05
33	ALL	UCART1	493014.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
34	ALL	UCART1	493208.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
35	ALL	UCART1	493402.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
36	ALL	UCART1	493596.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
37	ALL	UCART1	493790.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
38	ALL	UCART1	493984.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
39	ALL	UCART1	494178.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
40	ALL	UCART1	494373	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
41	ALL	UCART1	494567.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
42	ALL	UCART1	494761.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
43	ALL	UCART1	490879.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
44	ALL	UCART1	491073.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
45	ALL	UCART1	491267.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
46	ALL	UCART1	491461.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
47	ALL	UCART1	491655.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
48	ALL	UCART1	491849.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
49	ALL	UCART1	492043.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
50	ALL	UCART1	492237.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
51	ALL	UCART1	492432	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05

52		UCART1	492626.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05
53	ALL	UCART1	492820.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05
54	ALL	UCART1	493014.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
55	ALL	UCART1	493208.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
56	ALL	UCART1	493402.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
57	ALL	UCART1	493596.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
58	ALL	UCART1	493790.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
59	ALL	UCART1	493984.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
60	ALL	UCART1	494178.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05
61	ALL	UCART1	494373	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
62	ALL	UCART1	494567.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
63	ALL	UCART1	494761.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
64	ALL	UCART1	490879.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
65	ALL	UCART1	491073.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
66	ALL	UCART1	491267.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05
67	ALL	UCART1	491461.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05
68	ALL	UCART1	491655.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05
69	ALL	UCART1	491849.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05
70	ALL	UCART1	492043.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05
71	ALL	UCART1	492237.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05
72	ALL	UCART1	492432	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-05
73	ALL	UCART1	492626.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05
74	ALL	UCART1	492820.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-05
75	ALL	UCART1	493014.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05
76	ALL	UCART1	493208.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05
77	ALL	UCART1	493402.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05
78	ALL	UCART1	493596.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
79	ALL	UCART1	493790.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
80	ALL	UCART1	493984.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
81	ALL	UCART1	494178.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
82	ALL	UCART1	494373	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
83	ALL	UCART1	494567.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
84	ALL	UCART1	494761.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
85	ALL	UCART1	490879.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
86	ALL	UCART1	491073.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05
87	ALL	UCART1	491267.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05
88	ALL	UCART1	491461.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-05
89	ALL	UCART1	491655.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05
90	ALL	UCART1	491849.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05
91	ALL	UCART1	492043.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05
92	ALL	UCART1	492237.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05
93	ALL	UCART1	492432	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05
94	ALL	UCART1	492626.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05
95	ALL	UCART1	492820.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05
96	ALL	UCART1	493014.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05
97	ALL	UCART1	493208.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05
98	ALL	UCART1	493402.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-05
99	ALL	UCART1	493596.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
100	ALL	UCART1	493790.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-05
101	ALL	UCART1	493984.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
102	ALL	UCART1	494178.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
103	ALL	UCART1	494373	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0						

104		UCART1	494567.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
105	ALL	UCART1	494761.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05
106	ALL	UCART1	490879.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
107	ALL	UCART1	491073.3	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05
108	ALL	UCART1	491267.4	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05
109	ALL	UCART1	491461.5	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05
110	ALL	UCART1	491655.6	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05
111	ALL	UCART1	491849.7	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05
112	ALL	UCART1	492043.8	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05
113	ALL	UCART1	492237.9	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
114	ALL	UCART1	492432	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05
115	ALL	UCART1	492626.1	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-05
116	ALL	UCART1	492820.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05
117	ALL	UCART1	493014.3	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
118	ALL	UCART1	493208.4	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
119	ALL	UCART1	493402.5	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05
120	ALL	UCART1	493596.6	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05
121	ALL	UCART1	493790.7	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05
122	ALL	UCART1	493984.8	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05
123	ALL	UCART1	494178.9	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
124	ALL	UCART1	494373	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05
125	ALL	UCART1	494567.1	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
126	ALL	UCART1	494761.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05
127	ALL	UCART1	490879.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
128	ALL	UCART1	491073.3	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-05
129	ALL	UCART1	491267.4	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05
130	ALL	UCART1	491461.5	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05
131	ALL	UCART1	491655.6	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
132	ALL	UCART1	491849.7	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
133	ALL	UCART1	492043.8	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
134	ALL	UCART1	492237.9	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
135	ALL	UCART1	492432	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
136	ALL	UCART1	492626.1	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
137	ALL	UCART1	492820.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05
138	ALL	UCART1	493014.3	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
139	ALL	UCART1	493208.4	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
140	ALL	UCART1	493402.5	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
141	ALL	UCART1	493596.6	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05
142	ALL	UCART1	493790.7	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-05
143	ALL	UCART1	493984.8	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05
144	ALL	UCART1	494178.9	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05
145	ALL	UCART1	494373	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
146	ALL	UCART1	494567.1	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
147	ALL	UCART1	494761.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
148	ALL	UCART1	490879.2	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05
149	ALL	UCART1	491073.3	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05
150	ALL	UCART1	491267.4	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00												

208		UCART1	494373	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
209	ALL	UCART1	494567.1	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
210	ALL	UCART1	494761.2	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
211	ALL	UCART1	490879.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
212	ALL	UCART1	491073.3	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
213	ALL	UCART1	491267.4	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
214	ALL	UCART1	491461.5	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-05
215	ALL	UCART1	491655.6	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-05
216	ALL	UCART1	491849.7	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
217	ALL	UCART1	492043.8	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
218	ALL	UCART1	492237.9	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04
219	ALL	UCART1	492432	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04
220	ALL	UCART1	492626.1	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03
221	ALL	UCART1	492820.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-03
222	ALL	UCART1	493014.3	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-04
223	ALL	UCART1	493208.4	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
224	ALL	UCART1	493402.5	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
225	ALL	UCART1	493596.6	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
226	ALL	UCART1	493790.7	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05
227	ALL	UCART1	493984.8	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05
228	ALL	UCART1	494178.9	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05
229	ALL	UCART1	494373	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
230	ALL	UCART1	494567.1	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05
231	ALL	UCART1	494761.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
232	ALL	UCART1	490879.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
233	ALL	UCART1	491073.3	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
234	ALL	UCART1	491267.4	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
235	ALL	UCART1	491461.5	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05
236	ALL	UCART1	491655.6	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05
237	ALL	UCART1	491849.7	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-05
238	ALL	UCART1	492043.8	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
239	ALL	UCART1	492237.9	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
240	ALL	UCART1	492432	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04
241	ALL	UCART1	492626.1	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04
242	ALL	UCART1	492820.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04
243	ALL	UCART1	493014.3	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04
244	ALL	UCART1	493208.4	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
245	ALL	UCART1	493402.5	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
246	ALL	UCART1	493596.6	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05
247	ALL	UCART1	493790.7	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05
248	ALL	UCART1	493984.8	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05
249	ALL	UCART1	494178.9	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
250	ALL	UCART1	494373	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
251	ALL	UCART1	494567.1	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
252	ALL	UCART1	494761.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
253	ALL	UCART1	490879.2	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
254	ALL	UCART1	491073.3	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
255	ALL	UCART1	491267.4	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
256	ALL	UCART1	491461.5	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00				

312		UCART1	494178.9	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
313	ALL	UCART1	494373	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
314	ALL	UCART1	494567.1	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06
315	ALL	UCART1	494761.2	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06
316	ALL	UCART1	490879.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
317	ALL	UCART1	491073.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
318	ALL	UCART1	491267.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
319	ALL	UCART1	491461.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
320	ALL	UCART1	491655.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
321	ALL	UCART1	491849.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05
322	ALL	UCART1	492043.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05
323	ALL	UCART1	492237.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05
324	ALL	UCART1	492432	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05
325	ALL	UCART1	492626.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05
326	ALL	UCART1	492820.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-05
327	ALL	UCART1	493014.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
328	ALL	UCART1	493208.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05
329	ALL	UCART1	493402.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
330	ALL	UCART1	493596.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
331	ALL	UCART1	493790.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
332	ALL	UCART1	493984.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-06
333	ALL	UCART1	494178.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-06
334	ALL	UCART1	494373	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-06
335	ALL	UCART1	494567.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-06
336	ALL	UCART1	494761.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-06
337	ALL	UCART1	490879.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
338	ALL	UCART1	491073.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
339	ALL	UCART1	491267.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
340	ALL	UCART1	491461.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
341	ALL	UCART1	491655.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
342	ALL	UCART1	491849.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05
343	ALL	UCART1	492043.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
344	ALL	UCART1	492237.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05
345	ALL	UCART1	492432	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05
346	ALL	UCART1	492626.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05
347	ALL	UCART1	492820.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05
348	ALL	UCART1	493014.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05
349	ALL	UCART1	493208.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
350	ALL	UCART1	493402.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
351	ALL	UCART1	493596.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
352	ALL	UCART1	493790.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
353	ALL	UCART1	493984.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-06
354	ALL	UCART1	494178.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-06
355	ALL	UCART1	494373	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-06
356	ALL	UCART1	494567.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-06
357	ALL	UCART1	494761.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-06
358	ALL	UCART1	490879.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

364		UCART1	492043.8	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
365	ALL	UCART1	492237.9	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
366	ALL	UCART1	492432	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
367	ALL	UCART1	492626.1	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
368	ALL	UCART1	492820.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
369	ALL	UCART1	493014.3	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
370	ALL	UCART1	493208.4	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
371	ALL	UCART1	493402.5	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
372	ALL	UCART1	493596.6	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
373	ALL	UCART1	493790.7	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
374	ALL	UCART1	493984.8	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-06
375	ALL	UCART1	494178.9	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-06
376	ALL	UCART1	494373	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-06
377	ALL	UCART1	494567.1	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-06
378	ALL	UCART1	494761.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-06
379	ALL	UCART1	490879.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
380	ALL	UCART1	491073.3	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
381	ALL	UCART1	491267.4	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
382	ALL	UCART1	491461.5	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
383	ALL	UCART1	491655.6	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
384	ALL	UCART1	491849.7	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
385	ALL	UCART1	492043.8	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
386	ALL	UCART1	492237.9	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
387	ALL	UCART1	492432	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
388	ALL	UCART1	492626.1	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
389	ALL	UCART1	492820.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
390	ALL	UCART1	493014.3	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
391	ALL	UCART1	493208.4	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
392	ALL	UCART1	493402.5	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
393	ALL	UCART1	493596.6	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
394	ALL	UCART1	493790.7	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
395	ALL	UCART1	493984.8	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-06
396	ALL	UCART1	494178.9	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-06
397	ALL	UCART1	494373	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-06
398	ALL	UCART1	494567.1	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-06
399	ALL	UCART1	494761.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-06
400	ALL	UCART1	490879.2	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
401	ALL	UCART1	491073.3	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
402	ALL	UCART1	491267.4	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
403	ALL	UCART1	491461.5	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
404	ALL	UCART1	491655.6	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
405	ALL	UCART1	491849.7	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
406	ALL	UCART1	492043.8	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
407	ALL	UCART1	492237.9	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
408	ALL	UCART1	492432	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
409	ALL	UCART1	492626.1	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
410	ALL	UCART1	492820.2	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

[illegible]

HARP2 - HRACalc (dated 22118) 12/3/2024 3:15:35 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 1.583

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 1.583
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 6 HARP\hra\Phase 6

OnsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 6 HARP\hra\Phase 6

OnsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 6 HARP\hra\Phase 6

OnsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 6 HARP\hra\Phase 6

OnsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 6 HARP\hra\Phase 6

OnsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU EVOLVE PHASE 6 HARP\hra\Phase 6

OnsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

[illegible]

[illegible]

94	ALL	UCART1	492626.1	3625374	2.35E-09	1.583YrCar	2.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	UCART1	492820.2	3625374	1.97E-09	1.583YrCar	1.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	UCART1	493014.3	3625374	2.12E-09	1.583YrCar	2.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	UCART1	493208.4	3625374	2.28E-09	1.583YrCar	2.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	UCART1	493402.5	3625374	2.25E-09	1.583YrCar	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	UCART1	493596.6	3625374	2.35E-09	1.583YrCar	2.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	UCART1	493790.7	3625374	2.10E-09	1.583YrCar	2.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	UCART1	493984.8	3625374	1.44E-09	1.583YrCar	1.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	UCART1	494178.9	3625374	1.35E-09	1.583YrCar	1.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	UCART1	494373	3625374	1.31E-09	1.583YrCar	1.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	UCART1	494567.1	3625374	1.33E-09	1.583YrCar	1.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	UCART1	494761.2	3625374	1.26E-09	1.583YrCar	1.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	UCART1	490879.2	3625570	1.71E-09	1.583YrCar	1.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	UCART1	491073.3	3625570	2.05E-09	1.583YrCar	2.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	UCART1	491267.4	3625570	2.71E-09	1.583YrCar	2.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	UCART1	491461.5	3625570	3.03E-09	1.583YrCar	3.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	UCART1	491655.6	3625570	2.62E-09	1.583YrCar	2.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	UCART1	491849.7	3625570	2.66E-09	1.583YrCar	2.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	UCART1	492043.8	3625570	2.35E-09	1.583YrCar	2.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	UCART1	492237.9	3625570	2.36E-09	1.583YrCar	2.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	UCART1	492432	3625570	2.55E-09	1.583YrCar	2.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	UCART1	492626.1	3625570	2.83E-09	1.583YrCar	2.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	UCART1	492820.2	3625570	2.96E-09	1.583YrCar	2.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	UCART1	493014.3	3625570	2.36E-09	1.583YrCar	2.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	UCART1	493208.4	3625570	3.38E-09	1.583YrCar	3.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	UCART1	493402.5	3625570	3.08E-09	1.583YrCar	3.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	UCART1	493596.6	3625570	1.93E-09	1.583YrCar	1.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	UCART1	493790.7	3625570	1.75E-09	1.583YrCar	1.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	UCART1	493984.8	3625570	1.64E-09	1.583YrCar	1.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	UCART1	494178.9	3625570	1.59E-09	1.583YrCar	1.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	UCART1	494373	3625570	1.60E-09	1.583YrCar	1.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	UCART1	494567.1	3625570	1.66E-09	1.583YrCar	1.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	UCART1	494761.2	3625570	1.46E-09	1.583YrCar	1.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	UCART1	490879.2	3625766	1.65E-09	1.583YrCar	1.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	UCART1	491073.3	3625766	2.11E-09	1.583YrCar	2.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	UCART1	491267.4	3625766	2.46E-09	1.583YrCar	2.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	UCART1	491461.5	3625766	2.90E-09	1.583YrCar	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	UCART1	491655.6	3625766	3.30E-09	1.583YrCar	3.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	UCART1	491849.7	3625766	3.45E-09	1.583YrCar	3.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	UCART1	492043.8	3625766	3.39E-09	1.583YrCar	3.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	UCART1	492237.9	3625766	3.31E-09	1.583YrCar	3.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	UCART1	492432	3625766	4.20E-09	1.583YrCar	4.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	UCART1	492626.1	3625766	4.21E-09	1.583YrCar	4.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	UCART1	492820.2	3625766	2.85E-09	1.583YrCar	2.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	UCART1	493014.3	3625766	3.40E-09	1.583YrCar	3.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	UCART1	493208.4	3625766	3.32E-09	1.583YrCar	3.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	UCART1	493402.5	3625766	3.32E-09	1.583YrCar	3.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

141	ALL	UCART1	493596.6	3625766	2.51E-09	1.583YrCar	2.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	UCART1	493790.7	3625766	2.00E-09	1.583YrCar	2.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	UCART1	493984.8	3625766	1.99E-09	1.583YrCar	1.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	UCART1	494178.9	3625766	2.01E-09	1.583YrCar	2.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	UCART1	494373	3625766	1.82E-09	1.583YrCar	1.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	UCART1	494567.1	3625766	1.46E-09	1.583YrCar	1.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	UCART1	494761.2	3625766	1.34E-09	1.583YrCar	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	UCART1	490879.2	3625961	1.51E-09	1.583YrCar	1.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	UCART1	491073.3	3625961	1.85E-09	1.583YrCar	1.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	UCART1	491267.4	3625961	2.33E-09	1.583YrCar	2.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	UCART1	491461.5	3625961	3.02E-09	1.583YrCar	3.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	UCART1	491655.6	3625961	4.88E-09	1.583YrCar	4.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	UCART1	491849.7	3625961	5.88E-09	1.583YrCar	5.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	UCART1	492043.8	3625961	5.38E-09	1.583YrCar	5.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	UCART1	492237.9	3625961	5.29E-09	1.583YrCar	5.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	UCART1	492432	3625961	5.38E-09	1.583YrCar	5.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	UCART1	492626.1	3625961	7.05E-09	1.583YrCar	7.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	UCART1	492820.2	3625961	3.43E-09	1.583YrCar	3.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

188	ALL	UCART1	494567.1	3626157	1.08E-09	1.583YrCar	1.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	UCART1	494761.2	3626157	1.19E-09	1.583YrCar	1.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	UCART1	490879.2	3626353	1.26E-09	1.583YrCar	1.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	UCART1	491073.3	3626353	1.65E-09	1.583YrCar	1.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	UCART1	491267.4	3626353	2.01E-09	1.583YrCar	2.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	UCART1	491461.5	3626353	2.39E-09	1.583YrCar	2.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	UCART1	491655.6	3626353	3.85E-09	1.583YrCar	3.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	UCART1	491849.7	3626353	4.36E-09	1.583YrCar	4.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	UCART1	492043.8	3626353	8.54E-09	1.583YrCar	8.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	UCART1	492237.9	3626353	1.32E-08	1.583YrCar	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	UCART1	492432	3626353	2.20E-08	1.583YrCar	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	UCART1	492626.1	3626353	1.87E-08	1.583YrCar	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	UCART1	492820.2	3626353	1.73E-08	1.583YrCar	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	UCART1	493014.3	3626353	2.18E-08	1.583YrCar	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	UCART1	493208.4	3626353	1.11E-08	1.583YrCar	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	UCART1	493402.5	3626353	5.81E-09	1.583YrCar	5.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	UCART1	493596.6	3626353	4.11E-09	1.583YrCar	4.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	UCART1	493790.7	3626353	2.95E-09	1.583YrCar	2.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+							

235		UCART1	491461.5	3626745	1.72E-09	1.583YrCar	1.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	UCART1	491655.6	3626745	2.17E-09	1.583YrCar	2.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	UCART1	491849.7	3626745	2.98E-09	1.583YrCar	2.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	UCART1	492043.8	3626745	4.29E-09	1.583YrCar	4.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	UCART1	492237.9	3626745	6.61E-09	1.583YrCar	6.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	UCART1	492432	3626745	1.10E-08	1.583YrCar	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	UCART1	492626.1	3626745	2.30E-08	1.583YrCar	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	UCART1	492820.2	3626745	2.33E-08	1.583YrCar	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	UCART1	493014.3	3626745	1.18E-08	1.583YrCar	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	UCART1	493208.4	3626745	6.33E-09	1.583YrCar	6.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	UCART1	493402.5	3626745	4.25E-09	1.583YrCar	4.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	UCART1	493596.6	3626745	2.72E-09	1.583YrCar	2.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	UCART1	493790.7	3626745	2.04E-09	1.583YrCar	2.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	UCART1	493984.8	3626745	1.61E-09	1.583YrCar	1.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	UCART1	494178.9	3626745	1.35E-09	1.583YrCar	1.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	UCART1	494373	3626745	1.20E-09	1.583YrCar	1.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	UCART1	494567.1	3626745	1.13E-09	1.583YrCar	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	UCART1	494761.2	3626745	9.78E-10	1.583YrCar	9.78E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	UCART1	490879.2	3626941	9.10E-10	1.583YrCar	9.10E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	UCART1	491073.3	3626941	1.07E-09	1.583YrCar	1.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	UCART1	491267.4	3626941	1.27E-09	1.583YrCar	1.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	UCART1	491461.5	3626941	1.54E-09	1.583YrCar	1.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	UCART1	491655.6	3626941	1.92E-09	1.583YrCar	1.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	UCART1	491849.7	3626941	2.45E-09	1.583YrCar	2.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	UCART1	492043.8	3626941	3.26E-09	1.583YrCar	3.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	UCART1	492237.9	3626941	4.60E-09	1.583YrCar	4.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	UCART1	492432	3626941	6.79E-09	1.583YrCar	6.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	UCART1	492626.1	3626941	8.87E-09	1.583YrCar	8.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	UCART1	492820.2	3626941	8.48E-09	1.583YrCar	8.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	UCART1	493014.3	3626941	6.39E-09	1.583YrCar	6.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	UCART1	493208.4	3626941	4.40E-09	1.583YrCar	4.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	UCART1	493402.5	3626941	3.12E-09	1.583YrCar	3.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	UCART1	493596.6	3626941	2.49E-09	1.583YrCar	2.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	UCART1	493790.7	3626941	2.24E-09	1.583YrCar	2.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	UCART1	493984.8	3626941	1.53E-09	1.583YrCar	1.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	UCART1	494178.9	3626941	1.41E-09	1.583YrCar	1.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	UCART1	494373	3626941	9.02E-10	1.583YrCar	9.02E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	UCART1	494567.1	3626941	7.43E-10	1.583YrCar	7.43E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	UCART1	494761.2	3626941	5.44E-10	1.583YrCar	5.44E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	UCART1	490879.2	3627137	8.55E-10	1.583YrCar	8.55E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	UCART1	491073.3	3627137	9.83E-10	1.583YrCar	9.83E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	UCART1	491267.4	3627137	1.15E-09	1.583YrCar	1.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	UCART1	491461.5	3627137	1.37E-09	1.583YrCar	1.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	UCART1	491655.6	3627137	1.65E-09	1.583YrCar	1.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	UCART1	491849.7	3627137	2.04E-09	1.583YrCar	2.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	UCART1	492043.8	3627137	2.61E-09	1.583YrCar	2.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	UCART1	492237.9	3627137	3.42E-09	1.583YrCar	3.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

282	ALL	UCART1	492432	3627137	4.30E-09	1.583YrCar	4.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	UCART1	492626.1	3627137	4.72E-09	1.583YrCar	4.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	UCART1	492820.2	3627137	4.57E-09	1.583YrCar	4.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	UCART1	493014.3	3627137	3.88E-09	1.583YrCar	3.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	UCART1	493208.4	3627137	3.09E-09	1.583YrCar	3.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	UCART1	493402.5	3627137	2.42E-09	1.583YrCar	2.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	UCART1	493596.6	3627137	2.45E-09	1.583YrCar	2.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	UCART1	493790.7	3627137	7.04E-10	1.583YrCar	7.04E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	UCART1	493984.8	3627137	5.99E-10	1.583YrCar	5.99E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	UCART1	494178.9	3627137	8.31E-10	1.583YrCar	8.31E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	UCART1	494373	3627137	5.19E-10	1.583YrCar	5.19E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	UCART1	494567.1	3627137	4.06E-10	1.583YrCar	4.06E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	UCART1	494761.2	3627137	2.11E-10	1.583YrCar	2.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	UCART1	490879.2	3627332	7.85E-10	1.583YrCar	7.85E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	UCART1	491073.3	3627332	8.96E-10	1.583YrCar	8.96E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	UCART1	491267.4	3627332	1.03E-09	1.583YrCar	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	UCART1	491461.5	3627332	1.21E-09	1.583YrCar	1.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	UCART1	491655.6	3627332	1.43E-09	1.583YrCar	1.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

329	ALL	UCART1	493402.5	3627528	1.50E-09	1.583YrCar	1.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	UCART1	493596.6	3627528	1.68E-09	1.583YrCar	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	UCART1	493790.7	3627528	5.93E-10	1.583YrCar	5.93E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	UCART1	493984.8	3627528	2.63E-10	1.583YrCar	2.63E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	UCART1	494178.9	3627528	1.55E-10	1.583YrCar	1.55E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	UCART1	494373	3627528	1.40E-10	1.583YrCar	1.40E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	UCART1	494567.1	3627528	1.39E-10	1.583YrCar	1.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	UCART1	494761.2	3627528	6.93E-11	1.583YrCar	6.93E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	UCART1	490879.2	3627724	6.50E-10	1.583YrCar	6.50E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	UCART1	491073.3	3627724	7.27E-10	1.583YrCar	7.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	UCART1	491267.4	3627724	8.31E-10	1.583YrCar	8.31E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	UCART1	491461.5	3627724	9.65E-10	1.583YrCar	9.65E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	UCART1	491655.6	3627724	1.12E-09	1.583YrCar	1.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	UCART1	491849.7	3627724	1.26E-09	1.583YrCar	1.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	UCART1	492043.8	3627724	1.39E-09	1.583YrCar	1.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	UCART1	492237.9	3627724	1.56E-09	1.583YrCar	1.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	UCART1	492432	3627724	1.55E-09	1.583YrCar	1.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	UCART1	492626.1	3627724	1.59E-09	1.583YrCar	1.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

376	ALL	UCART1	494373	3627920	6.03E-11	1.583YrCar	6.03E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	UCART1	494567.1	3627920	5.78E-11	1.583YrCar	5.78E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	UCART1	494761.2	3627920	5.21E-11	1.583YrCar	5.21E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	UCART1	490879.2	3628116	5.62E-10	1.583YrCar	5.62E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	UCART1	491073.3	3628116	6.26E-10	1.583YrCar	6.26E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	UCART1	491267.4	3628116	6.99E-10	1.583YrCar	6.99E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	UCART1	491461.5	3628116	7.60E-10	1.583YrCar	7.60E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	UCART1	491655.6	3628116	8.30E-10	1.583YrCar	8.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	UCART1	491849.7	3628116	9.16E-10	1.583YrCar	9.16E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	UCART1	492043.8	3628116	9.75E-10	1.583YrCar	9.75E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	UCART1	492237.9	3628116	1.00E-09	1.583YrCar	1.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	UCART1	492432	3628116	1.04E-09	1.583YrCar	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	UCART1	492626.1	3628116	1.05E-09	1.583YrCar	1.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	UCART1	492820.2	3628116	9.93E-10	1.583YrCar	9.93E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	UCART1	493014.3	3628116	9.69E-10	1.583YrCar	9.69E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	UCART1	493208.4	3628116	1.14E-09	1.583YrCar	1.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	UCART1	493402.5	3628116	1.06E-09	1.583YrCar	1.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	UCART1	493596.6	3628116	1.00E-09	1.583YrCar	1.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

423	ALL	UCART1	491267.4	3628508	5.54E-10	1.583YrCar	5.54E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	UCART1	491461.5	3628508	5.96E-10	1.583YrCar	5.96E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	UCART1	491655.6	3628508	6.38E-10	1.583YrCar	6.38E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	UCART1	491849.7	3628508	6.78E-10	1.583YrCar	6.78E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	UCART1	492043.8	3628508	7.13E-10	1.583YrCar	7.13E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	UCART1	492237.9	3628508	7.33E-10	1.583YrCar	7.33E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	UCART1	492432	3628508	7.77E-10	1.583YrCar	7.77E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	UCART1	492626.1	3628508	7.88E-10	1.583YrCar	7.88E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	UCART1	492820.2	3628508	7.76E-10	1.583YrCar	7.76E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	UCART1	493014.3	3628508	6.92E-10	1.583YrCar	6.92E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	UCART1	493208.4	3628508	7.26E-10	1.583YrCar	7.26E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	UCART1	493402.5	3628508	7.09E-10	1.583YrCar	7.09E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	UCART1	493596.6	3628508	7.17E-10	1.583YrCar	7.17E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	UCART1	493790.7	3628508	6.98E-10	1.583YrCar	6.98E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	UCART1	493984.8	3628508	2.34E-10	1.583YrCar	2.34E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	UCART1	494178.9	3628508	5.96E-11	1.583YrCar	5.96E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	UCART1	494373	3628508	4.26E-11	1.583YrCar	4.26E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	UCART1	494567.1	3628508	4.15E-11	1.583YrCar	4.15E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	UCART1	494761.2	3628508	4.16E-11	1.583YrCar	4.16E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL		492883.3	3625831	3.05E-09	1.583YrCar	3.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL		492919.8	3625835	3.17E-09	1.583YrCar	3.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL		492955.1	3625846	3.00E-09	1.583YrCar	3.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL		493069.9	3625833	5.14E-09	1.583YrCar	5.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL		493094.9	3625833	4.25E-09	1.583YrCar	4.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL		493110.9	3625837	3.65E-09	1.583YrCar	3.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL		493152	3625834	3.36E-09	1.583YrCar	3.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL		493166.7	3625838	3.28E-09	1.583YrCar	3.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL		493187.9	3625837	3.22E-09	1.583YrCar	3.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL		493201.3	3625837	3.19E-09	1.583YrCar	3.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL		493240.4	3625837	3.17E-09	1.583YrCar	3.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL		492881.3	3625908	2.92E-09	1.583YrCar	2.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL		492907	3625898	2.84E-09	1.583YrCar	2.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL		492901.8	3625912	2.98E-09	1.583YrCar	2.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL		492928.1	3625915	3.07E-09	1.583YrCar	3.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL		492933.9	3625898	2.91E-09	1.583YrCar	2.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL		492951.9	3625908	3.06E-09	1.583YrCar	3.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL		492973.7	3625907	3.20E-09	1.583YrCar	3.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL		492993.6	3625914	3.36E-09	1.583YrCar	3.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL		492996.1	3625898	3.30E-09	1.583YrCar	3.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL		493016	3625897	3.25E-09	1.583YrCar	3.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL		493023.1	3625912	3.32E-09	1.583YrCar	3.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL		493044.2	3625907	3.38E-09	1.583YrCar	3.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL		493066.7	3625908	3.61E-09	1.583YrCar	3.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL		493085.3	3625912	3.49E-09	1.583YrCar	3.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL		493087.2	3625896	3.57E-09	1.583YrCar	3.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL		493109	3625912	3.49E-09	1.583YrCar	3.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL		493112.2	3625898	3.50E-09	1.583YrCar	3.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

470	ALL	493134	3625902	3.60E-09	1.583YrCar	3.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	492874.3	3625788	3.27E-09	1.583YrCar	3.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	492894.2	3625789	3.40E-09	1.583YrCar	3.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	492910.2	3625790	3.53E-09	1.583YrCar	3.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	492930.7	3625787	3.61E-09	1.583YrCar	3.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	492947.4	3625791	3.71E-09	1.583YrCar	3.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	492963.4	3625788	3.59E-09	1.583YrCar	3.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	492982.7	3625788	3.61E-09	1.583YrCar	3.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	493000	3625788	3.79E-09	1.583YrCar	3.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	493021.1	3625791	4.32E-09	1.583YrCar	4.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	493036.5	3625789	4.36E-09	1.583YrCar	4.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	493055.8	3625790	4.52E-09	1.583YrCar	4.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	493076.3	3625788	4.56E-09	1.583YrCar	4.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	493094.9	3625788	4.34E-09	1.583YrCar	4.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	493112.8	3625788	3.89E-09	1.583YrCar	3.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	493129.5	3625787	3.73E-09	1.583YrCar	3.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	493148.7	3625787	3.57E-09	1.583YrCar	3.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	493164.8	3625790	3.47E-09	1.583YrCar	3.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	493184.7	3625789	3.38E													

[illegible]

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEI RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL	UCART1	490879.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
2	ALL	UCART1	491073.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
3	ALL	UCART1	491267.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
4	ALL	UCART1	491461.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
5	ALL	UCART1	491655.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
6	ALL	UCART1	491849.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
7	ALL	UCART1	492043.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
8	ALL	UCART1	492237.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
9	ALL	UCART1	492432	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
10	ALL	UCART1	492626.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
11	ALL	UCART1	492820.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
12	ALL	UCART1	493014.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
13	ALL	UCART1	493208.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
14	ALL	UCART1	493402.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
15	ALL	UCART1	493596.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
16	ALL	UCART1	493790.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
17	ALL	UCART1	493984.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
18	ALL	UCART1	494178.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
19	ALL	UCART1	494373	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
20	ALL	UCART1	494567.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
21	ALL	UCART1	494761.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
22	ALL	UCART1	490879.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
23	ALL	UCART1	491073.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
24	ALL	UCART1	491267.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
25	ALL	UCART1	491461.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05
26	ALL	UCART1	491655.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
27	ALL	UCART1	491849.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
28	ALL	UCART1	492043.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
29	ALL	UCART1	492237.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
30	ALL	UCART1	492432	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
31	ALL	UCART1	492626.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
32	ALL	UCART1	492820.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05
33	ALL	UCART1	493014.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
34	ALL	UCART1	493208.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
35	ALL	UCART1	493402.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
36	ALL	UCART1	493596.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
37	ALL	UCART1	493790.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
38	ALL	UCART1	493984.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
39	ALL	UCART1	494178.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
40	ALL	UCART1	494373	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
41	ALL	UCART1	494567.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
42	ALL	UCART1	494761.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
43	ALL	UCART1	490879.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
44	ALL	UCART1	491073.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
45	ALL	UCART1	491267.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
46	ALL	UCART1	491461.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
47	ALL	UCART1	491655.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
48	ALL	UCART1	491849.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
49	ALL	UCART1	492043.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
50	ALL	UCART1	492237.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
51	ALL	UCART1	492432	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05

52		UCART1	492626.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05
53 ALL		UCART1	492820.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05
54 ALL		UCART1	493014.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
55 ALL		UCART1	493208.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
56 ALL		UCART1	493402.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
57 ALL		UCART1	493596.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
58 ALL		UCART1	493790.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
59 ALL		UCART1	493984.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
60 ALL		UCART1	494178.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05
61 ALL		UCART1	494373	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
62 ALL		UCART1	494567.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
63 ALL		UCART1	494761.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
64 ALL		UCART1	490879.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
65 ALL		UCART1	491073.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
66 ALL		UCART1	491267.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05
67 ALL		UCART1	491461.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05
68 ALL		UCART1	491655.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05
69 ALL		UCART1	491849.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05
70 ALL		UCART1	492043.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05
71 ALL		UCART1	492237.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05
72 ALL		UCART1	492432	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-05
73 ALL		UCART1	492626.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05
74 ALL		UCART1	492820.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-05
75 ALL		UCART1	493014.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05
76 ALL		UCART1	493208.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05
77 ALL		UCART1	493402.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05
78 ALL		UCART1	493596.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
79 ALL		UCART1	493790.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
80 ALL		UCART1	493984.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
81 ALL		UCART1	494178.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
82 ALL		UCART1	494373	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
83 ALL		UCART1	494567.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
84 ALL		UCART1	494761.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
85 ALL		UCART1	490879.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
86 ALL		UCART1	491073.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05
87 ALL		UCART1	491267.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05
88 ALL		UCART1	491461.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-05
89 ALL		UCART1	491655.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05
90 ALL		UCART1	491849.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05
91 ALL		UCART1	492043.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05
92 ALL		UCART1	492237.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05
93 ALL		UCART1	492432	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05
94 ALL		UCART1	492626.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05
95 ALL		UCART1	492820.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05
96 ALL		UCART1	493014.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05
97 ALL		UCART1	493208.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05
98 ALL		UCART1	493402.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-05
99 ALL		UCART1	493596.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
100 ALL		UCART1	493790.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-05
101 ALL		UCART1	493984.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
102 ALL		UCART1	494178.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
103 ALL		UCART1	494373	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00			

104		UCART1	494567.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
105	ALL	UCART1	494761.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05
106	ALL	UCART1	490879.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
107	ALL	UCART1	491073.3	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05
108	ALL	UCART1	491267.4	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05
109	ALL	UCART1	491461.5	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05
110	ALL	UCART1	491655.6	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05
111	ALL	UCART1	491849.7	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05
112	ALL	UCART1	492043.8	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05
113	ALL	UCART1	492237.9	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
114	ALL	UCART1	492432	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05
115	ALL	UCART1	492626.1	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-05
116	ALL	UCART1	492820.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05
117	ALL	UCART1	493014.3	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
118	ALL	UCART1	493208.4	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
119	ALL	UCART1	493402.5	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05
120	ALL	UCART1	493596.6	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05
121	ALL	UCART1	493790.7	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05
122	ALL	UCART1	493984.8	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05
123	ALL	UCART1	494178.9	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
124	ALL	UCART1	494373	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05
125	ALL	UCART1	494567.1	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
126	ALL	UCART1	494761.2	3625570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05
127	ALL	UCART1	490879.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
128	ALL	UCART1	491073.3	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-05
129	ALL	UCART1	491267.4	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05
130	ALL	UCART1	491461.5	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05
131	ALL	UCART1	491655.6	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
132	ALL	UCART1	491849.7	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
133	ALL	UCART1	492043.8	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
134	ALL	UCART1	492237.9	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
135	ALL	UCART1	492432	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
136	ALL	UCART1	492626.1	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
137	ALL	UCART1	492820.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05
138	ALL	UCART1	493014.3	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
139	ALL	UCART1	493208.4	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
140	ALL	UCART1	493402.5	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
141	ALL	UCART1	493596.6	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05
142	ALL	UCART1	493790.7	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-05
143	ALL	UCART1	493984.8	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05
144	ALL	UCART1	494178.9	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05
145	ALL	UCART1	494373	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
146	ALL	UCART1	494567.1	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
147	ALL	UCART1	494761.2	3625766	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
148	ALL	UCART1	490879.2	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05
149	ALL	UCART1	491073.3	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05
150	ALL	UCART1	491267.4	3625961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00												

208		UCART1	494373	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
209	ALL	UCART1	494567.1	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
210	ALL	UCART1	494761.2	3626353	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
211	ALL	UCART1	490879.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
212	ALL	UCART1	491073.3	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
213	ALL	UCART1	491267.4	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
214	ALL	UCART1	491461.5	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-05
215	ALL	UCART1	491655.6	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-05
216	ALL	UCART1	491849.7	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
217	ALL	UCART1	492043.8	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
218	ALL	UCART1	492237.9	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04
219	ALL	UCART1	492432	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04
220	ALL	UCART1	492626.1	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03
221	ALL	UCART1	492820.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-03
222	ALL	UCART1	493014.3	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-04
223	ALL	UCART1	493208.4	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
224	ALL	UCART1	493402.5	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
225	ALL	UCART1	493596.6	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
226	ALL	UCART1	493790.7	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05
227	ALL	UCART1	493984.8	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05
228	ALL	UCART1	494178.9	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05
229	ALL	UCART1	494373	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
230	ALL	UCART1	494567.1	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05
231	ALL	UCART1	494761.2	3626549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
232	ALL	UCART1	490879.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
233	ALL	UCART1	491073.3	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
234	ALL	UCART1	491267.4	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
235	ALL	UCART1	491461.5	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05
236	ALL	UCART1	491655.6	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05
237	ALL	UCART1	491849.7	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-05
238	ALL	UCART1	492043.8	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
239	ALL	UCART1	492237.9	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
240	ALL	UCART1	492432	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04
241	ALL	UCART1	492626.1	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04
242	ALL	UCART1	492820.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04
243	ALL	UCART1	493014.3	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04
244	ALL	UCART1	493208.4	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
245	ALL	UCART1	493402.5	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
246	ALL	UCART1	493596.6	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05
247	ALL	UCART1	493790.7	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05
248	ALL	UCART1	493984.8	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05
249	ALL	UCART1	494178.9	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
250	ALL	UCART1	494373	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
251	ALL	UCART1	494567.1	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
252	ALL	UCART1	494761.2	3626745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
253	ALL	UCART1	490879.2	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
254	ALL	UCART1	491073.3	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
255	ALL	UCART1	491267.4	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
256	ALL	UCART1	491461.5	3626941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00				

312		UCART1	494178.9	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
313	ALL	UCART1	494373	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
314	ALL	UCART1	494567.1	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06
315	ALL	UCART1	494761.2	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06
316	ALL	UCART1	490879.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
317	ALL	UCART1	491073.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
318	ALL	UCART1	491267.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
319	ALL	UCART1	491461.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
320	ALL	UCART1	491655.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
321	ALL	UCART1	491849.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05
322	ALL	UCART1	492043.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05
323	ALL	UCART1	492237.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05
324	ALL	UCART1	492432	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05
325	ALL	UCART1	492626.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05
326	ALL	UCART1	492820.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-05
327	ALL	UCART1	493014.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
328	ALL	UCART1	493208.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05
329	ALL	UCART1	493402.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
330	ALL	UCART1	493596.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
331	ALL	UCART1	493790.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
332	ALL	UCART1	493984.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-06
333	ALL	UCART1	494178.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-06
334	ALL	UCART1	494373	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-06
335	ALL	UCART1	494567.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-06
336	ALL	UCART1	494761.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-06
337	ALL	UCART1	490879.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
338	ALL	UCART1	491073.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
339	ALL	UCART1	491267.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
340	ALL	UCART1	491461.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
341	ALL	UCART1	491655.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
342	ALL	UCART1	491849.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05
343	ALL	UCART1	492043.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
344	ALL	UCART1	492237.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05
345	ALL	UCART1	492432	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05
346	ALL	UCART1	492626.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05
347	ALL	UCART1	492820.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05
348	ALL	UCART1	493014.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05
349	ALL	UCART1	493208.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
350	ALL	UCART1	493402.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
351	ALL	UCART1	493596.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
352	ALL	UCART1	493790.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
353	ALL	UCART1	493984.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-06
354	ALL	UCART1	494178.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-06
355	ALL	UCART1	494373	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-06
356	ALL	UCART1	494567.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-06
357	ALL	UCART1	494761.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-06
358	ALL	UCART1	490879.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

364		UCART1	492043.8	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
365	ALL	UCART1	492237.9	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
366	ALL	UCART1	492432	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
367	ALL	UCART1	492626.1	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
368	ALL	UCART1	492820.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
369	ALL	UCART1	493014.3	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
370	ALL	UCART1	493208.4	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
371	ALL	UCART1	493402.5	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
372	ALL	UCART1	493596.6	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
373	ALL	UCART1	493790.7	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
374	ALL	UCART1	493984.8	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-06
375	ALL	UCART1	494178.9	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-06
376	ALL	UCART1	494373	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-06
377	ALL	UCART1	494567.1	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-06
378	ALL	UCART1	494761.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-06
379	ALL	UCART1	490879.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
380	ALL	UCART1	491073.3	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
381	ALL	UCART1	491267.4	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
382	ALL	UCART1	491461.5	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
383	ALL	UCART1	491655.6	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
384	ALL	UCART1	491849.7	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
385	ALL	UCART1	492043.8	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
386	ALL	UCART1	492237.9	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
387	ALL	UCART1	492432	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
388	ALL	UCART1	492626.1	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
389	ALL	UCART1	492820.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
390	ALL	UCART1	493014.3	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
391	ALL	UCART1	493208.4	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
392	ALL	UCART1	493402.5	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
393	ALL	UCART1	493596.6	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
394	ALL	UCART1	493790.7	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
395	ALL	UCART1	493984.8	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-06
396	ALL	UCART1	494178.9	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-06
397	ALL	UCART1	494373	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-06
398	ALL	UCART1	494567.1	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-06
399	ALL	UCART1	494761.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-06
400	ALL	UCART1	490879.2	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
401	ALL	UCART1	491073.3	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
402	ALL	UCART1	491267.4	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
403	ALL	UCART1	491461.5	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
404	ALL	UCART1	491655.6	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
405	ALL	UCART1	491849.7	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
406	ALL	UCART1	492043.8	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
407	ALL	UCART1	492237.9	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
408	ALL	UCART1	492432	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
409	ALL	UCART1	492626.1	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
410	ALL	UCART1	492820.2	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

[illegible]

[illegible]


```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 10/10/2024
** File: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU Evolve
Operational\SDSU Evolve Phase 1.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL "SDSU Evolve Phase 1.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION STCK1      POINT      492847.720   3626536.360   124.220
** DESCRSRC Phase 1A Generator
  LOCATION STCK2      POINT      492991.100   3625839.681   141.860
** DESCRSRC Phase 1B Generator
  LOCATION STCK3      POINT      492813.583   3626627.676   123.610
** DESCRSRC Phase 2 Generator
  LOCATION STCK4      POINT      492774.272   3626745.821   115.890
** DESCRSRC Phase 3 Generator
  LOCATION STCK5      POINT      492694.167   3626698.759   121.120
** DESCRSRC Phase 4 Generator
  LOCATION STCK6      POINT      492729.911   3626620.159   124.070
** DESCRSRC Phase 5 Generator
  LOCATION STCK7      POINT      492749.993   3626546.418   125.180
** DESCRSRC Phase 6 Generator

```

```

** Source Parameters **

```

SRCPARAM STCK1	1.0	2.499	772.594	60.63624912892	0.13463016
SRCPARAM STCK2	1.0	2.499	772.594	60.63624912892	0.13463016
SRCPARAM STCK3	1.0	2.316	699.261	42.5980161814675	0.2033016
SRCPARAM STCK4	1.0	2.316	699.261	42.5980161814675	0.2033016
SRCPARAM STCK5	1.0	2.316	699.261	42.5980161814675	0.2033016
SRCPARAM STCK6	1.0	2.316	699.261	42.5980161814675	0.2033016
SRCPARAM STCK7	1.0	2.316	699.261	42.5980161814675	0.2033016

**** Building Downwash ****

BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK1	34.14	34.14	34.14	34.14	34.14	28.65
BUILDHGT	STCK1	28.65	28.65	28.65	28.65	28.65	28.65
BUILDHGT	STCK1	28.65	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK1	34.14	34.14	34.14	34.14	34.14	28.65

[illegible][illegible][illegible][illegible]

BUILDHGT	STCK6	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK6	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK6	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK6	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK6	34.14	34.14	34.14	34.14	34.14	34.14

BUILDHGT	STCK6	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK7	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK7	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK7	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK7	34.14	34.14	34.14	34.14	34.14	34.14
BUILDHGT	STCK7	34.14	34.14	34.14	34.14	34.14	34.14
BUILDWID	STCK1	55.84	65.58	73.32	78.84	81.95	83.80
BUILDWID	STCK1	84.85	71.97	62.25	50.64	37.49	78.77
BUILDWID	STCK1	73.48	71.73	127.27	118.63	136.19	44.41
BUILDWID	STCK1	55.84	65.58	73.32	78.84	81.95	83.80
BUILDWID	STCK1	84.85	71.97	62.25	50.64	37.49	78.77
BUILDWID	STCK1	73.48	71.73	127.27	118.63	136.19	44.41
BUILDWID	STCK2	57.08	60.17	61.43	60.83	58.38	54.16
BUILDWID	STCK2	48.29	40.95	32.88	41.34	48.91	54.99
BUILDWID	STCK2	59.40	62.01	62.73	61.55	58.50	53.67
BUILDWID	STCK2	57.08	60.17	61.43	60.83	58.38	54.16
BUILDWID	STCK2	48.29	40.95	32.88	41.34	48.91	54.99
BUILDWID	STCK2	59.40	62.01	62.73	61.55	58.50	53.67
BUILDWID	STCK3	185.05	82.69	84.81	87.06	87.17	84.62
BUILDWID	STCK3	79.50	71.97	134.05	117.31	97.01	141.18
BUILDWID	STCK3	135.95	132.05	127.27	118.63	136.19	163.10
BUILDWID	STCK3	185.05	82.69	140.34	151.02	157.11	84.62
BUILDWID	STCK3	79.50	71.97	134.05	117.31	97.01	141.18
BUILDWID	STCK3	135.95	132.05	127.27	118.63	136.19	163.10
BUILDWID	STCK4	80.76	82.69	140.34	151.02	157.11	240.63
BUILDWID	STCK4	240.13	232.33	217.47	196.00	127.90	126.08
BUILDWID	STCK4	124.91	130.59	127.27	118.63	136.19	163.10
BUILDWID	STCK4	185.05	201.38	211.59	221.65	233.82	240.63
BUILDWID	STCK4	240.13	232.33	217.47	196.00	127.90	126.08
BUILDWID	STCK4	124.91	130.59	127.27	118.63	136.19	76.37
BUILDWID	STCK5	115.41	128.12	140.34	151.02	233.82	240.63
BUILDWID	STCK5	240.13	232.33	217.47	196.00	168.58	141.18
BUILDWID	STCK5	73.48	71.73	70.93	67.98	79.96	99.19
BUILDWID	STCK5	115.41	128.12	140.34	151.02	233.82	240.63
BUILDWID	STCK5	240.13	232.33	217.47	196.00	168.58	141.18
BUILDWID	STCK5	73.48	71.73	50.16	60.84	69.66	76.37
BUILDWID	STCK6	80.76	82.69	84.81	87.06	87.17	84.62
BUILDWID	STCK6	79.50	71.97	134.05	117.31	97.01	78.77
BUILDWID	STCK6	73.48	37.97	50.16	60.84	69.66	76.37
BUILDWID	STCK6	80.76	82.69	84.81	87.06	87.17	84.62
BUILDWID	STCK6	79.50	71.97	134.05	117.31	97.01	78.77
BUILDWID	STCK6	73.48	37.97	50.16	60.84	69.66	76.37

BUILDWID	STCK7	80.76	82.69	84.81	87.06	87.17	84.62
BUILDWID	STCK7	79.50	71.97	62.25	50.64	37.49	78.77
BUILDWID	STCK7	73.48	37.97	50.16	60.84	69.66	76.37
BUILDWID	STCK7	80.76	82.69	84.81	87.06	87.17	84.62
BUILDWID	STCK7	79.50	71.97	62.25	50.64	37.49	78.77
BUILDWID	STCK7	73.48	37.97	50.16	60.84	69.66	76.37
BUILDLN	STCK1	79.44	73.46	65.25	55.05	43.18	30.92
BUILDLN	STCK1	25.51	69.66	76.37	80.76	82.69	140.34
BUILDLN	STCK1	151.02	157.11	240.63	240.13	232.33	83.01
BUILDLN	STCK1	79.44	73.46	65.25	55.05	43.18	30.92
BUILDLN	STCK1	25.51	69.66	76.37	80.76	82.69	140.34
BUILDLN	STCK1	151.02	157.11	240.63	240.13	232.33	83.01
BUILDLN	STCK2	41.34	48.91	54.99	59.40	62.01	62.73
BUILDLN	STCK2	61.55	58.50	53.67	57.08	60.17	61.43
BUILDLN	STCK2	60.83	58.38	54.16	48.29	40.95	32.88
BUILDLN	STCK2	41.34	48.91	54.99	59.40	62.01	62.73
BUILDLN	STCK2	61.55	58.50	53.67	57.08	60.17	61.43
BUILDLN	STCK2	60.83	58.38	54.16	48.29	40.95	32.88
BUILDLN	STCK3	196.00	37.49	28.21	27.74	37.97	50.16
BUILDLN	STCK3	60.84	69.66	99.19	115.41	128.12	211.59
BUILDLN	STCK3	221.65	233.82	240.63	240.13	232.33	217.47
BUILDLN	STCK3	196.00	37.49	78.77	73.48	71.73	50.16
BUILDLN	STCK3	60.84	69.66	99.19	115.41	128.12	211.59
BUILDLN	STCK3	221.65	233.82	240.63	240.13	232.33	217.47
BUILDLN	STCK4	50.64	37.49	78.77	73.48	71.73	127.27
BUILDLN	STCK4	118.63	136.19	163.10	185.05	149.20	165.65
BUILDLN	STCK4	177.07	183.10	240.63	240.13	232.33	217.47
BUILDLN	STCK4	196.00	168.58	141.18	135.95	132.05	127.27
BUILDLN	STCK4	118.63	136.19	163.10	185.05	149.20	165.65
BUILDLN	STCK4	177.07	183.10	240.63	240.13	232.33	62.25
BUILDLN	STCK5	117.31	97.01	78.77	73.48	132.05	127.27
BUILDLN	STCK5	118.63	136.19	163.10	185.05	201.38	211.59
BUILDLN	STCK5	151.02	157.11	158.42	154.92	146.71	134.05
BUILDLN	STCK5	117.31	97.01	78.77	73.48	132.05	127.27
BUILDLN	STCK5	118.63	136.19	163.10	185.05	201.38	211.59
BUILDLN	STCK5	151.02	157.11	84.62	79.50	71.97	62.25
BUILDLN	STCK6	50.64	37.49	28.21	27.74	37.97	50.16
BUILDLN	STCK6	60.84	69.66	99.19	115.41	128.12	140.34
BUILDLN	STCK6	151.02	87.17	84.62	79.50	71.97	62.25
BUILDLN	STCK6	50.64	37.49	28.21	27.74	37.97	50.16
BUILDLN	STCK6	60.84	69.66	99.19	115.41	128.12	140.34
BUILDLN	STCK6	151.02	87.17	84.62	79.50	71.97	62.25

BUILDLLEN	STCK7	50.64	37.49	28.21	27.74	37.97	50.16
BUILDLLEN	STCK7	60.84	69.66	76.37	80.76	82.69	140.34
BUILDLLEN	STCK7	151.02	87.17	84.62	79.50	71.97	62.25
BUILDLLEN	STCK7	50.64	37.49	28.21	27.74	37.97	50.16
BUILDLLEN	STCK7	60.84	69.66	76.37	80.76	82.69	140.34
BUILDLLEN	STCK7	151.02	87.17	84.62	79.50	71.97	62.25
XBADJ	STCK1	-34.99	-35.86	-35.65	-34.34	-32.00	-28.68
XBADJ	STCK1	-25.10	-131.36	-142.27	-148.85	-150.91	-203.92
XBADJ	STCK1	-207.70	-205.17	-278.62	-266.88	-247.04	-49.95
XBADJ	STCK1	-44.45	-37.60	-29.60	-20.71	-11.19	-2.24
XBADJ	STCK1	-0.41	61.70	65.90	68.10	68.22	63.58
XBADJ	STCK1	56.68	48.06	37.99	26.76	14.71	-33.06
XBADJ	STCK2	-21.67	-20.33	-18.37	-15.85	-12.86	-9.47
XBADJ	STCK2	-5.79	-1.94	1.97	0.66	-1.07	-2.77
XBADJ	STCK2	-4.39	-5.87	-7.17	-8.26	-9.09	-10.16
XBADJ	STCK2	-19.67	-28.58	-36.62	-43.55	-49.15	-53.27
XBADJ	STCK2	-55.76	-56.56	-55.64	-57.74	-59.10	-58.66
XBADJ	STCK2	-56.45	-52.51	-46.99	-40.03	-31.86	-22.72
XBADJ	STCK3	-94.34	-96.72	-101.16	-104.01	-109.16	-114.12
XBADJ	STCK3	-115.62	-113.60	-130.95	-134.03	-133.03	-192.27
XBADJ	STCK3	-193.48	-189.99	-182.46	-169.39	-151.18	-128.37
XBADJ	STCK3	-101.66	59.23	22.40	30.53	37.43	63.96
XBADJ	STCK3	54.78	43.94	31.76	18.62	4.91	-19.32
XBADJ	STCK3	-28.17	-43.84	-58.17	-70.73	-81.15	-89.10
XBADJ	STCK4	-203.86	-194.29	-183.82	-169.24	-154.99	-139.15
XBADJ	STCK4	-119.09	-113.79	-115.30	-113.31	-55.69	-53.21
XBADJ	STCK4	-49.12	-43.54	-60.49	-44.93	-28.01	-10.23
XBADJ	STCK4	7.86	25.71	42.64	33.29	22.93	11.88
XBADJ	STCK4	0.46	-22.40	-47.80	-71.75	-93.51	-112.44
XBADJ	STCK4	-127.94	-139.56	-180.14	-195.19	-204.32	-207.24
XBADJ	STCK5	-143.61	-122.67	-103.02	-81.70	-63.38	-46.25
XBADJ	STCK5	-27.72	-26.73	-35.20	-42.60	-48.70	-53.32
XBADJ	STCK5	14.31	17.93	21.01	23.45	25.17	26.13
XBADJ	STCK5	26.30	25.66	24.25	8.23	-68.68	-81.02
XBADJ	STCK5	-90.91	-109.46	-127.90	-142.46	-152.69	-158.27
XBADJ	STCK5	-165.33	-175.04	-179.43	-178.37	-171.88	-160.18
XBADJ	STCK6	-72.41	-61.04	-52.82	-44.47	-40.23	-37.90
XBADJ	STCK6	-34.42	-29.90	-47.28	-52.93	-56.98	-59.99
XBADJ	STCK6	-63.59	4.69	8.87	12.78	16.30	19.33
XBADJ	STCK6	21.77	23.55	24.61	16.72	2.27	-12.26
XBADJ	STCK6	-26.41	-39.77	-51.91	-62.48	-71.14	-80.35
XBADJ	STCK6	-87.43	-91.86	-93.49	-92.28	-88.27	-81.58
XBADJ	STCK7	-3.28	1.39	1.00	-0.89	-8.22	-18.42

XBADJ	STCK7	-28.07	-36.87	-44.54	-50.86	-55.64	-114.25
XBADJ	STCK7	-126.37	-64.71	-65.03	-63.38	-59.80	-54.41
XBADJ	STCK7	-47.36	-38.88	-29.21	-26.86	-29.75	-31.74
XBADJ	STCK7	-32.77	-32.80	-31.83	-29.90	-27.05	-26.09
XBADJ	STCK7	-24.65	-22.46	-19.59	-16.12	-12.17	-7.84
YBADJ	STCK1	19.89	19.95	19.41	18.28	16.60	15.01
YBADJ	STCK1	13.85	50.70	33.34	14.98	-3.84	0.24
YBADJ	STCK1	-19.26	-40.75	-34.39	-57.15	-81.66	-19.22
YBADJ	STCK1	-19.89	-19.95	-19.41	-18.28	-16.60	-15.01
YBADJ	STCK1	-13.85	-50.70	-33.34	-14.98	3.84	-0.24
YBADJ	STCK1	19.26	40.75	34.39	57.15	81.66	19.22
YBADJ	STCK2	-29.20	-29.01	-27.94	-26.03	-23.32	-19.91
YBADJ	STCK2	-15.89	-11.38	-6.28	-1.00	4.12	9.12
YBADJ	STCK2	13.85	18.15	21.90	24.98	27.31	28.81
YBADJ	STCK2	29.20	29.01	27.94	26.03	23.32	19.91
YBADJ	STCK2	15.89	11.38	6.28	1.00	-4.12	-9.12
YBADJ	STCK2	-13.85	-18.15	-21.90	-24.98	-27.31	-28.81
YBADJ	STCK3	80.01	46.25	30.76	15.36	-0.25	-15.86
YBADJ	STCK3	-30.98	-45.16	-22.08	-35.69	-48.21	-30.57
YBADJ	STCK3	-36.03	-43.13	-50.49	-56.31	-63.89	-73.06
YBADJ	STCK3	-80.01	-46.25	-58.52	-47.34	-34.72	15.86
YBADJ	STCK3	30.98	45.16	22.08	35.69	48.21	30.57
YBADJ	STCK3	36.03	43.13	50.49	56.31	63.89	73.06
YBADJ	STCK4	-0.23	-31.09	-34.59	-58.71	-81.05	-59.82
YBADJ	STCK4	-75.13	-88.16	-98.51	-105.86	-66.93	-67.54
YBADJ	STCK4	-64.60	-62.09	-75.51	-59.77	-45.69	-33.75
YBADJ	STCK4	-20.78	-7.18	6.64	23.40	42.69	59.82
YBADJ	STCK4	75.13	88.16	98.51	105.86	66.93	67.54
YBADJ	STCK4	64.60	62.09	75.51	59.77	45.69	30.63
YBADJ	STCK5	-53.62	-67.55	-80.43	-89.82	-58.13	-59.12
YBADJ	STCK5	-58.30	-55.72	-51.45	-45.61	-38.38	-32.43
YBADJ	STCK5	-44.97	-27.51	-10.78	6.27	21.34	38.06
YBADJ	STCK5	53.62	67.55	80.43	89.82	58.13	59.12
YBADJ	STCK5	58.30	55.72	51.45	45.61	38.38	32.43
YBADJ	STCK5	44.97	27.51	21.17	-2.70	-26.48	-49.47
YBADJ	STCK6	-22.10	-29.80	-37.94	-43.90	-48.27	-51.18
YBADJ	STCK6	-52.53	-52.29	-14.56	-13.75	-12.53	-13.43
YBADJ	STCK6	-7.73	-21.25	-12.82	-4.00	4.94	13.73
YBADJ	STCK6	22.10	29.80	37.94	43.90	48.27	51.18
YBADJ	STCK6	52.53	52.29	14.56	13.75	12.53	13.43
YBADJ	STCK6	7.73	21.25	12.82	4.00	-4.94	-13.73
YBADJ	STCK7	10.48	14.29	16.32	18.88	21.12	22.72
YBADJ	STCK7	23.63	23.82	23.29	22.04	20.13	40.39

YBADJ	STCK7	35.85	10.77	6.66	2.35	-2.03	-6.36
YBADJ	STCK7	-10.48	-14.29	-16.32	-18.88	-21.12	-22.72
YBADJ	STCK7	-23.63	-23.82	-23.29	-22.04	-20.13	-40.39
YBADJ	STCK7	-35.85	-10.77	-6.66	-2.35	2.03	6.36

SRCGROUP STCK1 STCK1
 SRCGROUP STCK2 STCK2
 SRCGROUP STCK3 STCK3
 SRCGROUP STCK4 STCK4
 SRCGROUP STCK5 STCK5
 SRCGROUP STCK6 STCK6
 SRCGROUP STCK7 STCK7
 SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "SDSU Evolve Phase 1.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE ..\KVR_2020_2022_v23132.SFC

PROFFILE ..\KVR_2020_2022_v23132.PFL

SURFDATA 93107 2020

UAIRDATA 3190 2020

SITEDATA 1016 2020

PROFBASE 132.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

** Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST "SDSU Evolve Phase 1.AD\01H1GALL.PLT" 31

PLOTFILE 1 STCK1 1ST "SDSU Evolve Phase 1.AD\01H1G001.PLT" 32

PLOTFILE 1 STCK2 1ST "SDSU Evolve Phase 1.AD\01H1G002.PLT" 33

```

PLOTFILE 1 STCK3 1ST "SDSU Evolve Phase 1.AD\01H1G003.PLT" 34
PLOTFILE 1 STCK4 1ST "SDSU Evolve Phase 1.AD\01H1G004.PLT" 35
PLOTFILE 1 STCK5 1ST "SDSU Evolve Phase 1.AD\01H1G005.PLT" 36
PLOTFILE 1 STCK6 1ST "SDSU Evolve Phase 1.AD\01H1G006.PLT" 37
PLOTFILE 1 STCK7 1ST "SDSU Evolve Phase 1.AD\01H1G007.PLT" 38
PLOTFILE PERIOD ALL "SDSU Evolve Phase 1.AD\PE00GALL.PLT" 39
PLOTFILE PERIOD STCK1 "SDSU Evolve Phase 1.AD\PE00G001.PLT" 40
PLOTFILE PERIOD STCK2 "SDSU Evolve Phase 1.AD\PE00G002.PLT" 41
PLOTFILE PERIOD STCK3 "SDSU Evolve Phase 1.AD\PE00G003.PLT" 42
PLOTFILE PERIOD STCK4 "SDSU Evolve Phase 1.AD\PE00G004.PLT" 43
PLOTFILE PERIOD STCK5 "SDSU Evolve Phase 1.AD\PE00G005.PLT" 44
PLOTFILE PERIOD STCK6 "SDSU Evolve Phase 1.AD\PE00G006.PLT" 45
PLOTFILE PERIOD STCK7 "SDSU Evolve Phase 1.AD\PE00G007.PLT" 46
SUMMFILE "SDSU Evolve Phase 1.sum"
OU FINISHED

```

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

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

```

A Total of          0 Fatal Error Message(s)
A Total of          3 Warning Message(s)
A Total of          0 Informational Message(s)

```

```

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

```

```

***** WARNING MESSAGES *****
SO W320      50      PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
SO W320      51      PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
MX W403     335      PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

```

```

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

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 14:49:32

```

```

PAGE 1
*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

```


*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses RURAL Dispersion Only.
- * CCVR_Sub - Meteorological data includes CCVR substitutions
- * TEMP_Sub - Meteorological data includes TEMP substitutions
- * Model Assumes No FLAGPOLE Receptor Heights.
- * The User Specified a Pollutant Type of: PM_10

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

**This Run Includes: 7 Source(s); 8 Source Group(s); and 536
Receptor(s)

with: 7 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 0 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

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

**The AERMET Input Meteorological Data Version Date: 23132

**Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

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

Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 132.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.7 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: SDSU Evolve Phase 1.err

**File for Summary of Results: SDSU Evolve Phase 1.sum

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 2

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** POINT SOURCE DATA ***

STACK	STACK	BLDG	URBAN	CAP/	EMIS	BASE	STACK	STACK	
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	TEMP.	EXIT	
VEL. DIAMETER	EXISTS	SOURCE	HOR	SCALAR					
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)		
(M/SEC)	(METERS)		VARY BY						
STCK1	0	0.10000E+01	492847.7	3626536.4	124.2	2.50	772.59		
60.64	0.13	YES	NO	NO					
STCK2	0	0.10000E+01	492991.1	3625839.7	141.9	2.50	772.59		
60.64	0.13	YES	NO	NO					
STCK3	0	0.10000E+01	492813.6	3626627.7	123.6	2.32	699.26		

42.60	0.20	YES	NO	NO				
STCK4		0	0.10000E+01	492774.3	3626745.8	115.9	2.32	699.26
42.60	0.20	YES	NO	NO				
STCK5		0	0.10000E+01	492694.2	3626698.8	121.1	2.32	699.26
42.60	0.20	YES	NO	NO				
STCK6		0	0.10000E+01	492729.9	3626620.2	124.1	2.32	699.26
42.60	0.20	YES	NO	NO				
STCK7		0	0.10000E+01	492750.0	3626546.4	125.2	2.32	699.26
42.60	0.20	YES	NO	NO				

*** AERMOD - VERSION 23132 *** C:\Users\apol1\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 3

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

STCK1	STCK1	,
STCK2	STCK2	,
STCK3	STCK3	,
STCK4	STCK4	,
STCK5	STCK5	,
STCK6	STCK6	,
STCK7	STCK7	,

ALL STCK1 , STCK2 , STCK3 , STCK4 , STCK5 ,
 STCK6 , STCK7 ,

*** AERMOD - VERSION 23132 *** C:\Users\apol1\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 4

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** DIRECTION SPECIFIC BUILDING DIMENSIONS

IFV YADJ	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
1 19.9,	28.7,	55.8,	79.4,	-35.0,	19.9,	2	28.7,	65.6,	73.5,	-35.9,
3 18.3,	28.7,	73.3,	65.2,	-35.6,	19.4,	4	28.7,	78.8,	55.0,	-34.3,
5 15.0,	28.7,	82.0,	43.2,	-32.0,	16.6,	6	28.7,	83.8,	30.9,	-28.7,
7 50.7,	28.7,	84.8,	25.5,	-25.1,	13.9,	8	34.1,	72.0,	69.7,	-131.4,
9 15.0,	34.1,	62.2,	76.4,	-142.3,	33.3,	10	34.1,	50.6,	80.8,	-148.9,
11 0.2,	34.1,	37.5,	82.7,	-150.9,	-3.8,	12	34.1,	78.8,	140.3,	-203.9,
13 -40.8,	34.1,	73.5,	151.0,	-207.7,	-19.3,	14	34.1,	71.7,	157.1,	-205.2,
15 -57.1,	34.1,	127.3,	240.6,	-278.6,	-34.4,	16	34.1,	118.6,	240.1,	-266.9,
17 -19.2,	34.1,	136.2,	232.3,	-247.0,	-81.7,	18	28.7,	44.4,	83.0,	-49.9,
19 -19.9,	28.7,	55.8,	79.4,	-44.4,	-19.9,	20	28.7,	65.6,	73.5,	-37.6,
21 -18.3,	28.7,	73.3,	65.2,	-29.6,	-19.4,	22	28.7,	78.8,	55.0,	-20.7,
23 -15.0,	28.7,	82.0,	43.2,	-11.2,	-16.6,	24	28.7,	83.8,	30.9,	-2.2,
25 -50.7,	28.7,	84.8,	25.5,	-0.4,	-13.9,	26	34.1,	72.0,	69.7,	61.7,
27 -15.0,	34.1,	62.2,	76.4,	65.9,	-33.3,	28	34.1,	50.6,	80.8,	68.1,
29 -0.2,	34.1,	37.5,	82.7,	68.2,	3.8,	30	34.1,	78.8,	140.3,	63.6,
31 40.8,	34.1,	73.5,	151.0,	56.7,	19.3,	32	34.1,	71.7,	157.1,	48.1,
33 57.1,	34.1,	127.3,	240.6,	38.0,	34.4,	34	34.1,	118.6,	240.1,	26.8,
35 19.2,	34.1,	136.2,	232.3,	14.7,	81.7,	36	28.7,	44.4,	83.0,	-33.1,

IFV YADJ	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
1 -29.0,	28.0,	57.1,	41.3,	-21.7,	-29.2,	2	28.0,	60.2,	48.9,	-20.3,
3 -26.0,	28.0,	61.4,	55.0,	-18.4,	-27.9,	4	28.0,	60.8,	59.4,	-15.9,

5	28.0,	58.4,	62.0,	-12.9,	-23.3,	6	28.0,	54.2,	62.7,	-9.5,
-19.9,										
7	28.0,	48.3,	61.5,	-5.8,	-15.9,	8	28.0,	40.9,	58.5,	-1.9,
-11.4,										
9	28.0,	32.9,	53.7,	2.0,	-6.3,	10	28.0,	41.3,	57.1,	0.7,
-1.0,										
11	28.0,	48.9,	60.2,	-1.1,	4.1,	12	28.0,	55.0,	61.4,	-2.8,
9.1,										
13	28.0,	59.4,	60.8,	-4.4,	13.9,	14	28.0,	62.0,	58.4,	-5.9,
18.2,										
15	28.0,	62.7,	54.2,	-7.2,	21.9,	16	28.0,	61.5,	48.3,	-8.3,
25.0,										
17	28.0,	58.5,	40.9,	-9.1,	27.3,	18	28.0,	53.7,	32.9,	-10.2,
28.8,										
19	28.0,	57.1,	41.3,	-19.7,	29.2,	20	28.0,	60.2,	48.9,	-28.6,
29.0,										
21	28.0,	61.4,	55.0,	-36.6,	27.9,	22	28.0,	60.8,	59.4,	-43.5,
26.0,										
23	28.0,	58.4,	62.0,	-49.1,	23.3,	24	28.0,	54.2,	62.7,	-53.3,
19.9,										
25	28.0,	48.3,	61.5,	-55.8,	15.9,	26	28.0,	40.9,	58.5,	-56.6,
11.4,										
27	28.0,	32.9,	53.7,	-55.6,	6.3,	28	28.0,	41.3,	57.1,	-57.7,
1.0,										
29	28.0,	48.9,	60.2,	-59.1,	-4.1,	30	28.0,	55.0,	61.4,	-58.7,
-9.1,										
31	28.0,	59.4,	60.8,	-56.4,	-13.9,	32	28.0,	62.0,	58.4,	-52.5,
-18.2,										
33	28.0,	62.7,	54.2,	-47.0,	-21.9,	34	28.0,	61.5,	48.3,	-40.0,
-25.0,										
35	28.0,	58.5,	40.9,	-31.9,	-27.3,	36	28.0,	53.7,	32.9,	-22.7,
-28.8,										

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
YADJ										
1	34.1,	185.1,	196.0,	-94.3,	80.0,	2	34.1,	82.7,	37.5,	-96.7,
46.2,										
3	34.1,	84.8,	28.2,	-101.2,	30.8,	4	34.1,	87.1,	27.7,	-104.0,
15.4,										
5	34.1,	87.2,	38.0,	-109.2,	-0.2,	6	34.1,	84.6,	50.2,	-114.1,
-15.9,										
7	34.1,	79.5,	60.8,	-115.6,	-31.0,	8	34.1,	72.0,	69.7,	-113.6,
-45.2,										
9	34.1,	134.1,	99.2,	-131.0,	-22.1,	10	34.1,	117.3,	115.4,	-134.0,
-35.7,										
11	34.1,	97.0,	128.1,	-133.0,	-48.2,	12	34.1,	141.2,	211.6,	-192.3,
-30.6,										
13	34.1,	136.0,	221.7,	-193.5,	-36.0,	14	34.1,	132.1,	233.8,	-190.0,

[illegible][illegible]

IFV YADJ	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
1 -67.5,	34.1,	115.4,	117.3,	-143.6,	-53.6,	2	34.1,	128.1,	97.0,	-122.7,
3 -89.8,	34.1,	140.3,	78.8,	-103.0,	-80.4,	4	34.1,	151.0,	73.5,	-81.7,
5 -59.1,	34.1,	233.8,	132.1,	-63.4,	-58.1,	6	34.1,	240.6,	127.3,	-46.2,
7 -55.7,	34.1,	240.1,	118.6,	-27.7,	-58.3,	8	34.1,	232.3,	136.2,	-26.7,
9 -45.6,	34.1,	217.5,	163.1,	-35.2,	-51.4,	10	34.1,	196.0,	185.1,	-42.6,
11 -32.4,	34.1,	168.6,	201.4,	-48.7,	-38.4,	12	34.1,	141.2,	211.6,	-53.3,
13 -27.5,	34.1,	73.5,	151.0,	14.3,	-45.0,	14	34.1,	71.7,	157.1,	17.9,
15 6.3,	34.1,	70.9,	158.4,	21.0,	-10.8,	16	34.1,	68.0,	154.9,	23.4,
17 38.1,	34.1,	80.0,	146.7,	25.2,	21.3,	18	34.1,	99.2,	134.1,	26.1,
19 67.5,	34.1,	115.4,	117.3,	26.3,	53.6,	20	34.1,	128.1,	97.0,	25.7,

21	34.1,	140.3,	78.8,	24.2,	80.4,	22	34.1,	151.0,	73.5,	8.2,
89.8,										
23	34.1,	233.8,	132.1,	-68.7,	58.1,	24	34.1,	240.6,	127.3,	-81.0,
59.1,										
25	34.1,	240.1,	118.6,	-90.9,	58.3,	26	34.1,	232.3,	136.2,	-109.5,
55.7,										
27	34.1,	217.5,	163.1,	-127.9,	51.4,	28	34.1,	196.0,	185.1,	-142.5,
45.6,										
29	34.1,	168.6,	201.4,	-152.7,	38.4,	30	34.1,	141.2,	211.6,	-158.3,
32.4,										
31	34.1,	73.5,	151.0,	-165.3,	45.0,	32	34.1,	71.7,	157.1,	-175.0,
27.5,										
33	34.1,	50.2,	84.6,	-179.4,	21.2,	34	34.1,	60.8,	79.5,	-178.4,
-2.7,										
35	34.1,	69.7,	72.0,	-171.9,	-26.5,	36	34.1,	76.4,	62.2,	-160.2,
-49.5,										

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
YADJ										
1	34.1,	80.8,	50.6,	-72.4,	-22.1,	2	34.1,	82.7,	37.5,	-61.0,
-29.8,										
3	34.1,	84.8,	28.2,	-52.8,	-37.9,	4	34.1,	87.1,	27.7,	-44.5,
-43.9,										
5	34.1,	87.2,	38.0,	-40.2,	-48.3,	6	34.1,	84.6,	50.2,	-37.9,
-51.2,										
7	34.1,	79.5,	60.8,	-34.4,	-52.5,	8	34.1,	72.0,	69.7,	-29.9,
-52.3,										
9	34.1,	134.1,	99.2,	-47.3,	-14.6,	10	34.1,	117.3,	115.4,	-52.9,
-13.8,										
11	34.1,	97.0,	128.1,	-57.0,	-12.5,	12	34.1,	78.8,	140.3,	-60.0,
-13.4,										
13	34.1,	73.5,	151.0,	-63.6,	-7.7,	14	34.1,	38.0,	87.2,	4.7,
-21.2,										
15	34.1,	50.2,	84.6,	8.9,	-12.8,	16	34.1,	60.8,	79.5,	12.8,
-4.0,										
17	34.1,	69.7,	72.0,	16.3,	4.9,	18	34.1,	76.4,	62.2,	19.3,
13.7,										
19	34.1,	80.8,	50.6,	21.8,	22.1,	20	34.1,	82.7,	37.5,	23.6,
29.8,										
21	34.1,	84.8,	28.2,	24.6,	37.9,	22	34.1,	87.1,	27.7,	16.7,
43.9,										
23	34.1,	87.2,	38.0,	2.3,	48.3,	24	34.1,	84.6,	50.2,	-12.3,
51.2,										
25	34.1,	79.5,	60.8,	-26.4,	52.5,	26	34.1,	72.0,	69.7,	-39.8,
52.3,										
27	34.1,	134.1,	99.2,	-51.9,	14.6,	28	34.1,	117.3,	115.4,	-62.5,
13.8,										
29	34.1,	97.0,	128.1,	-71.1,	12.5,	30	34.1,	78.8,	140.3,	-80.3,

13.4,											
31	34.1,	73.5,	151.0,	-87.4,	7.7,	32	34.1,	38.0,	87.2,	-91.9,	
21.2,											
33	34.1,	50.2,	84.6,	-93.5,	12.8,	34	34.1,	60.8,	79.5,	-92.3,	
4.0,											
35	34.1,	69.7,	72.0,	-88.3,	-4.9,	36	34.1,	76.4,	62.2,	-81.6,	
-13.7,											

SOURCE ID: STCK7

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
YADJ										
1	34.1,	80.8,	50.6,	-3.3,	10.5,	2	34.1,	82.7,	37.5,	1.4,
14.3,										
3	34.1,	84.8,	28.2,	1.0,	16.3,	4	34.1,	87.1,	27.7,	-0.9,
18.9,										
5	34.1,	87.2,	38.0,	-8.2,	21.1,	6	34.1,	84.6,	50.2,	-18.4,
22.7,										
7	34.1,	79.5,	60.8,	-28.1,	23.6,	8	34.1,	72.0,	69.7,	-36.9,
23.8,										
9	34.1,	62.2,	76.4,	-44.5,	23.3,	10	34.1,	50.6,	80.8,	-50.9,
22.0,										
11	34.1,	37.5,	82.7,	-55.6,	20.1,	12	34.1,	78.8,	140.3,	-114.2,
40.4,										
13	34.1,	73.5,	151.0,	-126.4,	35.8,	14	34.1,	38.0,	87.2,	-64.7,
10.8,										
15	34.1,	50.2,	84.6,	-65.0,	6.7,	16	34.1,	60.8,	79.5,	-63.4,
2.3,										
17	34.1,	69.7,	72.0,	-59.8,	-2.0,	18	34.1,	76.4,	62.2,	-54.4,
-6.4,										
19	34.1,	80.8,	50.6,	-47.4,	-10.5,	20	34.1,	82.7,	37.5,	-38.9,
-14.3,										
21	34.1,	84.8,	28.2,	-29.2,	-16.3,	22	34.1,	87.1,	27.7,	-26.9,
-18.9,										
23	34.1,	87.2,	38.0,	-29.8,	-21.1,	24	34.1,	84.6,	50.2,	-31.7,
-22.7,										
25	34.1,	79.5,	60.8,	-32.8,	-23.6,	26	34.1,	72.0,	69.7,	-32.8,
-23.8,										
27	34.1,	62.2,	76.4,	-31.8,	-23.3,	28	34.1,	50.6,	80.8,	-29.9,
-22.0,										
29	34.1,	37.5,	82.7,	-27.1,	-20.1,	30	34.1,	78.8,	140.3,	-26.1,
-40.4,										
31	34.1,	73.5,	151.0,	-24.7,	-35.8,	32	34.1,	38.0,	87.2,	-22.5,
-10.8,										
33	34.1,	50.2,	84.6,	-19.6,	-6.7,	34	34.1,	60.8,	79.5,	-16.1,
-2.3,										
35	34.1,	69.7,	72.0,	-12.2,	2.0,	36	34.1,	76.4,	62.2,	-7.8,
6.4,										

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 *** ***

*** 14:49:32

PAGE 6

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

490879.2, 491073.3, 491267.4, 491461.5, 491655.6, 491849.7, 492043.8,
492237.9, 492432.0, 492626.1,
492820.2, 493014.3, 493208.4, 493402.5, 493596.6, 493790.7, 493984.8,
494178.9, 494373.0, 494567.1,
494761.2,

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

3624590.4, 3624786.2, 3624982.1, 3625177.9, 3625373.8, 3625569.7, 3625765.5,
3625961.4, 3626157.2, 3626353.1,
3626549.0, 3626744.8, 3626940.7, 3627136.5, 3627332.4, 3627528.3, 3627724.1,
3627920.0, 3628115.8, 3628311.7,
3628507.6,

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 *** ***

*** 14:49:32

PAGE 7

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)
		490879.18	491073.28	491267.38	491461.48
					491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56		25.00	43.20	43.10	48.60
80.10	95.10	99.80	104.90		67.50

3628311.70		34.20	42.30	48.30	58.60	67.70
87.00		93.50	96.80	99.40		
3628115.84		35.30	39.20	49.50	59.30	74.90
90.50		89.90	94.60	98.40		
3627919.98		34.40	39.40	51.20	57.10	81.40
91.30		79.50	97.40	94.00		
3627724.12		29.60	38.00	49.50	69.90	82.20
89.30		62.50	99.00	55.90		
3627528.26		26.30	38.20	56.90	78.80	82.40
81.00		60.00	55.50	92.00		
3627332.40		25.20	36.20	57.80	66.70	68.80
45.50		41.60	85.80	115.00		
3627136.54		23.70	25.40	27.40	29.00	34.00
34.90		34.80	34.80	40.30		
3626940.68		35.80	38.20	39.70	41.60	40.50
45.80		55.20	53.60	49.60		
3626744.82		84.80	99.10	84.90	86.90	68.40
105.30		110.40	113.00	74.40		
3626548.96		89.90	97.80	78.80	108.90	95.30
82.60		127.20	121.30	108.70		
3626353.10		66.40	106.30	107.60	97.70	120.40
84.80		122.30	133.50	133.80		
3626157.24		38.60	71.90	115.10	118.10	120.60
115.70		115.40	127.50	126.90		
3625961.38		53.40	50.50	63.30	86.80	120.70
119.20		100.10	103.40	114.00		
3625765.52		52.20	100.40	87.70	59.60	70.40
76.70		86.10	95.90	121.70		
3625569.66		80.60	94.20	115.10	119.50	106.20
110.80		76.20	86.10	100.00		
3625373.80		73.80	91.40	81.80	120.10	123.20
122.50		106.00	109.80	126.70		
3625177.94		64.10	115.10	113.40	99.90	122.20
121.80		120.30	97.10	128.30		
3624982.08		74.00	113.60	110.50	117.80	119.20
121.10		121.20	106.70	124.00		
3624786.22		109.50	96.90	115.30	117.60	118.70
120.30		120.60	109.90	111.30		
3624590.36		108.30	109.70	105.40	113.00	116.20
118.50		119.60	120.80	117.70		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 8

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48	
493596.58	493790.68	493984.78	494178.88			

3628507.56		106.80	107.70	93.20	107.90	111.20
118.20		128.90	146.10	192.00		
3628311.70		103.20	106.80	82.70	90.50	112.70
121.70		133.00	155.40	216.90		
3628115.84		100.50	85.20	94.30	121.30	121.10
124.20		138.60	157.00	216.70		
3627919.98		76.70	87.30	82.50	121.70	131.00
130.00		141.30	170.80	228.80		
3627724.12		71.90	122.60	125.30	119.50	108.60
132.70		144.30	164.50	197.70		
3627528.26		112.50	95.30	119.80	130.00	130.40
124.60		139.30	151.20	167.00		
3627332.40		106.20	98.30	119.00	122.00	131.90
136.80		143.30	149.40	146.80		
3627136.54		42.50	42.90	43.20	48.90	81.30
127.20		140.70	140.90	134.10		
3626940.68		48.30	57.70	56.90	63.20	91.90
114.10		125.50	112.20	129.40		
3626744.82		112.00	108.40	100.30	105.10	115.20
91.80		98.50	100.30	105.90		
3626548.96		100.70	125.40	110.00	132.60	132.60
111.90		123.60	119.40	102.90		
3626353.10		133.90	135.30	116.80	134.20	135.40
133.50		133.00	132.60	112.90		
3626157.24		130.90	136.40	133.20	138.60	138.90
131.70		130.10	137.20	139.30		
3625961.38		128.60	139.60	141.20	140.80	139.70
140.00		133.40	140.10	140.40		
3625765.52		116.60	141.00	141.80	140.70	137.00
141.00		143.30	142.70	140.40		
3625569.66		106.70	112.70	139.30	129.90	118.50
142.10		143.30	142.80	142.50		
3625373.80		116.10	136.50	108.00	115.20	114.50
122.80		134.00	143.50	143.10		
3625177.94		114.50	129.90	134.00	125.90	138.00
136.00		143.70	144.90	144.30		
3624982.08		129.20	132.80	140.40	129.60	142.20
144.40		144.30	144.80	143.80		
3624786.22		112.40	130.90	140.80	141.40	143.70
144.90		143.10	143.90	144.70		
3624590.36		128.90	125.80	139.80	146.80	140.40

135.80 136.30 143.60 144.90
▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 14:49:32

PAGE 9
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)			X-COORD (METERS)
	494372.98	494567.08	494761.18

3628507.56	229.10	230.10	216.80
3628311.70	243.40	239.50	220.40
3628115.84	250.70	248.30	231.70
3627919.98	236.60	228.70	231.60
3627724.12	215.30	186.80	220.90
3627528.26	166.80	162.70	199.80
3627332.40	145.10	150.60	186.20
3627136.54	139.60	142.00	153.50
3626940.68	132.20	133.30	137.40
3626744.82	111.80	122.70	128.10
3626548.96	105.00	107.30	108.60
3626353.10	134.50	126.00	130.90
3626157.24	135.10	139.70	118.20
3625961.38	127.30	140.60	124.00
3625765.52	138.10	139.50	135.60
3625569.66	141.30	135.60	133.10
3625373.80	142.50	141.20	141.10
3625177.94	143.10	142.00	141.10
3624982.08	141.00	142.30	135.30
3624786.22	143.90	135.50	135.10
3624590.36	141.60	127.80	138.60

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 14:49:32

PAGE 10
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)					
	490879.18	491073.28	491267.38	491461.48	491655.58	
491849.68	492043.78	492237.88	492431.98			

3628507.56	126.10	43.20	43.10	88.30	67.50	
93.50	95.10	99.80	104.90			
3628311.70	125.30	42.30	49.80	58.60	93.50	
93.50	93.50	96.80	99.40			
3628115.84	35.30	45.00	50.40	85.00	90.10	
90.50	89.90	94.60	98.40			
3627919.98	34.40	39.40	79.50	89.70	81.40	
91.30	100.00	97.40	96.40			
3627724.12	29.60	78.80	80.10	79.70	82.20	
89.30	126.80	99.00	251.60			
3627528.26	109.80	79.50	79.50	78.80	82.40	
85.80	127.50	127.80	127.80			
3627332.40	111.30	111.30	57.80	66.70	83.00	
130.40	134.50	126.80	126.20			
3627136.54	117.50	120.10	131.00	134.50	134.70	
134.70	134.70	136.60	136.60			
3626940.68	117.50	120.10	131.00	134.20	134.70	
134.70	134.70	136.20	137.40			
3626744.82	111.30	111.30	112.70	118.80	134.20	
126.60	126.00	119.90	136.60			
3626548.96	111.30	111.30	119.70	116.10	130.40	
134.70	127.20	134.70	134.70			
3626353.10	119.20	109.30	116.30	121.40	120.40	
134.70	132.60	133.50	133.80			
3626157.24	121.80	119.20	117.60	118.10	120.60	
115.70	131.80	127.50	132.70			
3625961.38	119.80	123.20	123.30	122.50	120.70	
119.20	131.80	133.20	128.30			
3625765.52	122.30	112.00	121.80	123.60	123.60	
130.40	128.90	124.60	121.70			
3625569.66	115.20	116.40	115.10	121.50	123.60	
121.80	128.40	136.50	141.00			
3625373.80	116.50	116.40	123.60	120.10	123.20	
122.50	122.60	127.90	126.70			
3625177.94	116.50	115.10	115.20	123.10	122.20	
121.80	120.30	129.20	128.30			
3624982.08	116.60	113.60	114.90	117.80	119.20	
121.10	121.20	119.10	124.00			
3624786.22	109.50	114.70	115.30	117.60	118.70	
120.30	120.60	121.10	125.30			
3624590.36	108.30	109.70	105.40	113.00	116.20	

118.50 119.60 120.80 117.70
 *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 11

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48	
493596.58	493790.68	493984.78	494178.88			

- - - - -
 - - - - -

3628507.56		106.80	107.70	252.50	252.50	252.50
252.50	252.50	252.50	252.50			
3628311.70		103.20	106.80	252.50	252.50	252.50
252.50	252.50	252.50	252.50			
3628115.84		100.50	252.50	252.50	252.50	252.50
252.50	252.50	252.50	252.50			
3627919.98		252.10	252.50	252.50	252.50	252.50
252.50	252.50	252.50	239.10			
3627724.12		252.50	122.60	125.30	252.50	252.50
252.50	252.50	252.50	252.50			
3627528.26		127.80	129.10	127.50	130.00	252.50
252.50	252.50	252.50	252.50			
3627332.40		127.80	127.80	121.40	122.00	239.10
252.50	252.50	252.50	258.90			
3627136.54		252.50	252.50	252.50	258.90	252.50
250.90	244.20	252.50	258.90			
3626940.68		138.70	250.90	252.50	252.50	252.50
244.20	244.20	258.90	258.90			
3626744.82		123.20	125.30	133.70	134.30	132.80
251.40	252.10	258.90	258.90			
3626548.96		136.60	125.40	136.20	132.60	132.60
137.70	133.90	135.10	258.90			
3626353.10		133.90	135.30	137.90	134.20	139.00
135.00	134.90	135.30	140.40			
3626157.24		130.90	136.40	139.20	138.60	138.90
140.50	130.10	137.20	139.30			
3625961.38		134.70	139.60	141.20	140.80	139.70
140.00	133.40	140.10	140.40			
3625765.52		141.20	141.00	141.80	140.70	137.00
141.00	143.30	142.70	140.40			

3625569.66		142.00	142.20	139.30	140.30	143.10
142.10		143.30	142.80	142.50		
3625373.80		136.60	136.50	141.60	140.10	142.70
143.80		134.00	143.50	143.10		
3625177.94		136.00	139.40	140.50	140.40	138.00
143.70		143.70	144.90	144.30		
3624982.08		129.20	132.80	140.40	143.30	142.20
144.40		144.30	144.80	143.80		
3624786.22		131.30	130.90	140.80	141.40	143.70
144.90		143.10	143.90	144.70		
3624590.36		128.90	131.00	139.80	146.80	145.70
137.70		136.30	143.60	144.90		

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 12

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD		X-COORD (METERS)		
(METERS)		494372.98	494567.08	494761.18

3628507.56		229.10	230.10	232.70
3628311.70		251.90	241.80	250.40
3628115.84		250.70	248.30	246.90
3627919.98		240.20	248.90	231.60
3627724.12		244.20	258.90	232.50
3627528.26		258.90	258.90	258.90
3627332.40		258.90	258.90	258.90
3627136.54		258.90	258.90	258.90
3626940.68		258.90	258.90	258.90
3626744.82		258.90	258.90	258.90
3626548.96		258.90	258.90	258.90
3626353.10		134.50	140.20	130.90
3626157.24		138.10	139.70	140.80
3625961.38		140.20	140.60	141.00
3625765.52		138.10	139.50	135.60
3625569.66		141.30	135.60	133.10
3625373.80		142.50	141.20	141.10
3625177.94		143.10	142.00	141.10
3624982.08		141.00	142.30	140.70
3624786.22		143.90	142.50	141.10

3624590.36 | 141.60 142.40 141.20
 *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 13

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

(492883.2, 3625830.8, 141.7, 141.7, 0.0);	(492919.8,
3625834.6, 142.1, 142.1, 0.0);	
(492955.1, 3625845.5, 142.1, 142.1, 0.0);	(493069.9,
3625832.7, 142.2, 142.2, 0.0);	
(493094.9, 3625832.7, 142.2, 142.2, 0.0);	(493110.9,
3625837.2, 142.1, 142.1, 0.0);	
(493152.0, 3625834.0, 141.9, 141.9, 0.0);	(493166.7,
3625837.9, 141.8, 141.8, 0.0);	
(493187.9, 3625836.6, 141.7, 141.7, 0.0);	(493201.3,
3625836.6, 141.6, 141.6, 0.0);	
(493240.4, 3625836.6, 141.0, 141.0, 0.0);	(492881.3,
3625908.4, 141.6, 141.6, 0.0);	
(492907.0, 3625898.1, 142.3, 142.3, 0.0);	(492901.8,
3625911.6, 141.8, 141.8, 0.0);	
(492928.1, 3625914.8, 141.7, 141.7, 0.0);	(492933.9,
3625898.1, 142.3, 142.3, 0.0);	
(492951.9, 3625908.4, 141.8, 141.8, 0.0);	(492973.7,
3625907.1, 141.3, 141.3, 0.0);	
(492993.5, 3625914.2, 141.0, 141.0, 0.0);	(492996.1,
3625897.5, 141.0, 141.0, 0.0);	
(493016.0, 3625896.8, 141.8, 141.8, 0.0);	(493023.0,
3625912.2, 141.7, 141.7, 0.0);	
(493044.2, 3625907.1, 141.7, 141.7, 0.0);	(493066.7,
3625907.8, 141.0, 141.0, 0.0);	
(493085.2, 3625912.2, 141.4, 141.4, 0.0);	(493087.2,
3625895.6, 141.3, 141.3, 0.0);	
(493109.0, 3625911.6, 141.5, 141.5, 0.0);	(493112.2,
3625897.5, 141.4, 141.4, 0.0);	
(493134.0, 3625902.0, 140.9, 140.9, 0.0);	(492874.3,
3625788.5, 140.9, 140.9, 0.0);	
(492894.1, 3625789.1, 141.3, 141.3, 0.0);	(492910.2,
3625790.4, 141.4, 141.4, 0.0);	
(492930.7, 3625786.5, 141.4, 141.4, 0.0);	(492947.4,
3625791.0, 141.6, 141.6, 0.0);	
(492963.4, 3625787.8, 141.6, 141.6, 0.0);	(492982.6,
3625787.8, 141.6, 141.6, 0.0);	
(493000.0, 3625787.8, 141.7, 141.7, 0.0);	(493021.1,

3625791.0,	141.8,	141.8,	0.0);		
(493036.5,	3625789.1,	141.9,	141.9,	0.0);	(493055.8,
3625789.8,	141.9,	141.9,	0.0);		
(493076.3,	3625787.8,	141.9,	141.9,	0.0);	(493094.9,
3625787.8,	141.9,	141.9,	0.0);		
(493112.8,	3625788.5,	141.8,	141.8,	0.0);	(493129.5,
3625787.2,	141.7,	141.7,	0.0);		
(493148.7,	3625787.2,	141.6,	141.6,	0.0);	(493164.8,
3625790.4,	141.5,	141.5,	0.0);		
(493184.6,	3625789.1,	141.2,	141.2,	0.0);	(493202.0,
3625791.0,	141.1,	141.1,	0.0);		
(493221.2,	3625790.4,	141.0,	141.0,	0.0);	(493238.5,
3625791.0,	140.7,	140.7,	0.0);		
(492780.0,	3626415.0,	129.0,	135.1,	0.0);	(492778.7,
3626388.1,	131.1,	135.1,	0.0);		
(492747.9,	3626386.2,	131.2,	134.8,	0.0);	(492742.2,
3626418.2,	129.7,	129.7,	0.0);		
(492699.2,	3626422.7,	129.8,	129.8,	0.0);	(492697.9,
3626391.9,	131.4,	134.8,	0.0);		
(492678.7,	3626411.8,	131.0,	134.7,	0.0);	(492626.1,
3626426.6,	132.8,	133.6,	0.0);		
(492606.8,	3626435.5,	128.9,	134.1,	0.0);	(492599.2,
3626405.4,	132.5,	132.5,	0.0);		
(492491.2,	3626644.9,	115.1,	116.5,	0.0);	(492517.4,
3626636.7,	113.5,	133.7,	0.0);		
(492521.2,	3626603.4,	117.5,	117.5,	0.0);	(492521.7,
3626582.2,	118.3,	118.3,	0.0);		
(492512.5,	3626553.8,	118.7,	133.7,	0.0);	(492513.5,
3626533.1,	118.0,	133.7,	0.0);		
(492501.0,	3626506.4,	118.3,	133.7,	0.0);	(492490.6,
3626485.7,	120.5,	133.7,	0.0);		
(492479.2,	3626464.4,	122.4,	133.7,	0.0);	(492466.1,
3626447.0,	126.2,	133.2,	0.0);		
(492447.6,	3626418.7,	131.4,	131.4,	0.0);	(492431.8,
3626430.6,	131.2,	131.2,	0.0);		
(492481.9,	3626620.3,	116.3,	134.1,	0.0);	(492482.5,
3626594.2,	117.8,	133.7,	0.0);		
(492479.2,	3626572.9,	118.5,	134.1,	0.0);	(492477.0,
3626546.8,	118.9,	134.1,	0.0);		
(492467.8,	3626523.3,	118.7,	134.4,	0.0);	(492463.9,
3626507.5,	119.3,	134.6,	0.0);		
(492450.9,	3626492.8,	121.3,	134.6,	0.0);	(492427.4,
3626474.8,	126.0,	133.7,	0.0);		
(492402.9,	3626460.6,	131.3,	133.2,	0.0);	(492803.9,
3626616.1,	124.7,	124.7,	0.0);		
(492823.2,	3626567.2,	125.1,	125.1,	0.0);	(492838.3,
3626526.9,	125.5,	125.5,	0.0);		
(493039.8,	3625834.4,	141.9,	141.9,	0.0);	(492743.2,
3626628.9,	123.9,	123.9,	0.0);		
(492791.9,	3626663.0,	123.6,	123.6,	0.0);	(492731.1,

```

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

```

PAGE 14

```

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

```

```

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

```

PAGE 15

*** METEOROLOGICAL DAYS SELECTED FOR

(1=YES; 0=NO)

[illegible]

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON

WHAT IS INCLUDED IN THE DATA FILE.

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

10.80, 1.54, 3.09, 5.14, 8.23,

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 16
*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

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

Surface file: ..\KVR_2020_2022_v23132.SFC
Met Version: 23132
Profile file: ..\KVR_2020_2022_v23132.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 93107 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2020 Year: 2020

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							
20	01	01	1	01	-18.2	0.163	-9.000	-9.000	-999.	158.	21.3	0.10	1.21	
1.00	2.82	57.	10.0	283.1	10.0									
20	01	01	1	02	-8.1	0.093	-9.000	-9.000	-999.	70.	8.9	0.12	1.21	
1.00	2.06	73.	10.0	282.6	10.0									
20	01	01	1	03	-10.2	0.104	-9.000	-9.000	-999.	80.	9.7	0.10	1.21	
1.00	2.37	54.	10.0	283.5	10.0									
20	01	01	1	04	-8.0	0.092	-9.000	-9.000	-999.	67.	8.6	0.10	1.21	
1.00	2.10	59.	10.0	283.0	10.0									
20	01	01	1	05	-11.2	0.109	-9.000	-9.000	-999.	86.	10.4	0.12	1.21	
1.00	2.41	63.	10.0	282.4	10.0									
20	01	01	1	06	-7.4	0.089	-9.000	-9.000	-999.	64.	8.5	0.12	1.21	

1.00	1.97	64.	10.0	282.6	10.0								
20	01	01	1	07	-7.1	0.087	-9.000	-9.000	-999.	61.	8.3	0.12	1.21
1.00	1.92	70.	10.0	282.5	10.0								
20	01	01	1	08	-2.1	0.053	-9.000	-9.000	-999.	29.	6.3	0.14	1.21
0.50	1.12	129.	10.0	282.4	10.0								
20	01	01	1	09	36.2	0.144	0.391	0.005	59.	131.	-7.4	0.17	1.21
0.30	1.03	112.	10.0	286.4	10.0								
20	01	01	1	10	90.0	0.280	0.921	0.005	310.	356.	-21.8	0.14	1.21
0.23	2.46	148.	10.0	289.0	10.0								
20	01	01	1	11	126.8	0.254	1.266	0.005	572.	308.	-11.6	0.16	1.21
0.21	2.01	225.	10.0	290.5	10.0								
20	01	01	1	12	144.1	0.324	1.461	0.005	774.	444.	-21.2	0.16	1.21
0.20	2.77	211.	10.0	291.3	10.0								
20	01	01	1	13	141.4	0.344	1.588	0.005	1011.	485.	-25.8	0.16	1.21
0.20	3.00	210.	10.0	291.2	10.0								
20	01	01	1	14	118.9	0.362	1.554	0.005	1126.	523.	-35.6	0.16	1.21
0.21	3.26	234.	10.0	290.8	10.0								
20	01	01	1	15	77.8	0.368	1.376	0.005	1195.	535.	-56.9	0.16	1.21
0.24	3.44	227.	10.0	290.3	10.0								
20	01	01	1	16	21.2	0.319	0.897	0.005	1212.	434.	-136.4	0.17	1.21
0.33	3.08	244.	10.0	289.4	10.0								
20	01	01	1	17	-7.3	0.092	-9.000	-9.000	-999.	146.	9.7	0.16	1.21
0.61	1.92	236.	10.0	288.2	10.0								
20	01	01	1	18	-8.4	0.098	-9.000	-9.000	-999.	74.	10.0	0.20	1.21
1.00	1.92	193.	10.0	287.3	10.0								
20	01	01	1	19	-6.6	0.086	-9.000	-9.000	-999.	61.	8.6	0.14	1.21
1.00	1.83	140.	10.0	286.6	10.0								
20	01	01	1	20	-2.9	0.057	-9.000	-9.000	-999.	33.	5.7	0.14	1.21
1.00	1.21	144.	10.0	286.2	10.0								
20	01	01	1	21	-3.2	0.060	-9.000	-9.000	-999.	35.	6.0	0.17	1.21
1.00	1.21	99.	10.0	285.3	10.0								
20	01	01	1	22	-5.1	0.075	-9.000	-9.000	-999.	49.	7.3	0.12	1.21
1.00	1.65	76.	10.0	284.8	10.0								
20	01	01	1	23	-2.1	0.048	-9.000	-9.000	-999.	26.	4.8	0.17	1.21
1.00	0.98	99.	10.0	284.5	10.0								
20	01	01	1	24	-4.4	0.069	-9.000	-9.000	-999.	43.	6.6	0.12	1.21
1.00	1.52	78.	10.0	283.8	10.0								

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
20	01	01	01	10.0	1	57.	2.82	283.2	6.0	-99.00	0.29

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

*** AERMOD - VERSION 23132 ***
 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU ***
 10/10/24
 *** AERMET - VERSION 23132 ***

 14:49:32

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	0.32312	0.31011	0.31637	0.34231	0.35704
0.40655	0.41469	0.38226	0.37898		
3628311.70	0.34905	0.36874	0.34462	0.37643	0.39207
0.44320	0.47040	0.44764	0.41432		
3628115.84	0.34600	0.39826	0.41541	0.40214	0.44589
0.48318	0.52785	0.52162	0.47358		
3627919.98	0.33358	0.38054	0.45096	0.48907	0.49495
0.54928	0.55386	0.62472	0.55740		
3627724.12	0.33826	0.36698	0.44473	0.51997	0.60485
0.60758	0.58702	0.73680	0.61538		
3627528.26	0.41335	0.41063	0.42011	0.53362	0.64231
0.72452	0.71785	0.73308	0.86303		
3627332.40	0.48174	0.54150	0.54815	0.53825	0.59487
0.75068	0.88596	0.98577	1.23130		
3627136.54	0.62802	0.67309	0.68130	0.73079	0.71923
0.72815	0.93481	1.21643	1.32308		
3626940.68	0.59668	0.68506	0.82303	0.97160	1.05772
1.15883	1.12525	1.33225	2.06930		
3626744.82	0.69346	0.83290	0.89820	1.02893	1.14734
1.61391	2.20040	2.98953	2.87076		
3626548.96	0.83424	0.99301	1.04589	1.37973	1.54923
1.78603	2.80692	4.07561	6.22893		
3626353.10	0.95867	1.23801	1.39937	1.48013	1.91409
1.79829	2.98411	4.90471	9.29078		
3626157.24	0.87723	0.98799	1.42734	1.89766	2.64796
3.32441	4.18662	5.58050	6.20870		
3625961.38	1.17750	1.41794	1.66900	2.13934	2.90192
3.32644	3.72300	3.49507	3.11126		
3625765.52	1.34738	1.74769	1.86369	1.91494	2.30461
2.53837	2.39415	2.16380	2.20297		
3625569.66	1.36944	1.70914	2.08181	2.46759	2.26228
2.19409	1.64101	1.48647	1.59523		

3625373.80		1.50588	1.70499	1.72184	2.05020	1.93221
1.80546		1.41057	1.39124	1.50132		
3625177.94		1.44595	1.75918	1.65635	1.45288	1.55102
1.32112		1.23752	1.07764	1.21041		
3624982.08		1.20682	1.39280	1.37530	1.30872	1.17435
1.07072		1.05502	0.98599	1.10420		
3624786.22		1.30011	1.15610	1.11119	1.09197	0.95029
0.94879		0.94925	0.92763	0.93486		
3624590.36		1.03425	0.97091	0.89673	0.85389	0.86487
0.80782		0.84816	0.83876	0.86759		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 18

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)				
		492626.08	492820.18	493014.28	493208.38	493402.48
493596.58		493790.68	493984.78	494178.88		

3628507.56		0.35195	0.36253	0.29893	0.32786	0.27008
0.26282		0.21520	0.27039	0.14551		
3628311.70		0.37554	0.41174	0.34182	0.33853	0.31196
0.28636		0.24307	0.32920	0.11965		
3628115.84		0.42495	0.42732	0.40315	0.42949	0.36094
0.29702		0.33634	0.33596	0.13563		
3627919.98		0.44881	0.51256	0.45062	0.48141	0.39880
0.35717		0.38349	0.24373	0.15301		
3627724.12		0.52849	0.76518	0.68867	0.54505	0.40762
0.46454		0.42725	0.33628	0.19367		
3627528.26		0.79177	0.80509	0.83022	0.63853	0.56924
0.50585		0.46061	0.46850	0.32857		
3627332.40		1.09459	1.09651	1.04350	0.76620	0.71601
0.60151		0.56555	0.56453	0.46965		
3627136.54		1.40013	1.34256	1.07477	0.86067	0.74532
0.77531		0.69776	0.53301	0.45256		

3626940.68	2.32260	2.24321	1.66011	1.25606	1.16371
0.92609	0.79367	0.67180	0.62157		
3626744.82	5.70143	5.67878	3.95000	2.77888	1.76908
1.15458	0.95307	0.83374	0.76772		
3626548.96	11.53596	50.93386	11.22324	6.95987	4.18935
2.62815	2.31779	1.77191	1.24717		
3626353.10	16.24144	14.15837	17.38634	17.36513	9.39056
5.25669	3.48202	2.63828	1.87675		
3626157.24	5.35017	6.16923	7.65413	8.84428	8.38354
7.45002	5.66797	3.81362	2.74095		
3625961.38	3.05965	3.74835	4.23851	4.80889	5.39149
5.28823	5.13607	4.40340	3.62124		
3625765.52	2.22951	2.70980	2.69295	3.31899	3.62720
3.84840	3.76492	3.64216	3.49790		
3625569.66	1.68846	1.93377	1.94871	2.47315	2.61149
2.81044	2.94519	2.92137	2.78766		
3625373.80	1.56653	1.73428	1.30909	1.82916	1.99334
2.28029	2.28186	2.36971	2.36897		
3625177.94	1.31582	1.43646	1.21269	1.61388	1.71984
1.83682	1.89883	1.85456	1.96446		
3624982.08	1.12061	1.20955	1.04603	1.32927	1.44759
1.50827	1.62222	1.60573	1.56877		
3624786.22	0.94166	1.06301	0.94531	1.11930	1.25606
1.29454	1.35873	1.42666	1.37944		
3624590.36	0.89237	0.95645	0.83986	0.96580	1.09880
1.12514	1.16930	1.25961	1.23314		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 19

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)	X-COORD (METERS)		
	494372.98	494567.08	494761.18
3628507.56	0.09634	0.09070	0.08905

3628311.70	0.10451	0.09646	0.09708
3628115.84	0.11090	0.10684	0.10474
3627919.98	0.13085	0.12493	0.11683
3627724.12	0.16208	0.19724	0.13978
3627528.26	0.32441	0.30451	0.14728
3627332.40	0.38153	0.37306	0.19517
3627136.54	0.44084	0.41832	0.42851
3626940.68	0.55350	0.49833	0.46747
3626744.82	0.71963	0.74354	0.67289
3626548.96	1.07469	0.94658	0.83986
3626353.10	1.73161	1.50864	1.26342
3626157.24	2.08606	1.63031	1.35192
3625961.38	2.96224	2.16915	1.85926
3625765.52	3.06105	2.58783	2.16169
3625569.66	2.77639	2.65049	2.29103
3625373.80	2.23253	2.22532	2.21633
3625177.94	1.98226	1.85090	1.82631
3624982.08	1.68004	1.69446	1.59760
3624786.22	1.34746	1.46272	1.48380
3624590.36	1.19280	1.21582	1.25946

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 20

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

X-COORD (M)		Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)		CONC		
492883.25	3625830.80	2.78676	492919.80	
3625834.65	2.63271			
492955.07	3625845.55	2.79572	493069.86	
3625832.73	3.37960			
493094.87	3625832.73	3.46979	493110.90	
3625837.21	3.54443			
493151.95	3625834.01	3.63311	493166.70	
3625837.86	3.67905			

493187.86	3625836.57	3.69794	493201.33
3625836.57	3.71319		
493240.44	3625836.57	3.76068	492881.32
3625908.40	3.15286		
492906.98	3625898.14	2.99719	492901.84
3625911.60	3.10765		
492928.14	3625914.81	3.07032	492933.91
3625898.14	2.99997		
492951.87	3625908.40	3.18490	492973.67
3625907.11	3.33983		
492993.55	3625914.17	3.57909	492996.11
3625897.50	3.44733		
493015.99	3625896.85	3.60961	493023.05
3625912.24	3.79911		
493044.21	3625907.11	3.87969	493066.66
3625907.76	4.00022		
493085.25	3625912.24	4.12917	493087.18
3625895.57	3.97046		
493108.98	3625911.60	4.19077	493112.19
3625897.50	4.06950		
493133.99	3625901.98	4.14189	492874.27
3625788.48	2.67948		
492894.15	3625789.12	2.59750	492910.18
3625790.40	2.48952		
492930.70	3625786.55	2.43554	492947.38
3625791.04	2.46985		
492963.41	3625787.84	2.52489	492982.65
3625787.84	2.62562		
492999.96	3625787.84	2.72661	493021.12
3625791.04	2.86752		
493036.52	3625789.12	2.94581	493055.75
3625789.76	3.04594		
493076.28	3625787.84	3.11752	493094.87
3625787.84	3.17828		
493112.83	3625788.48	3.24714	493129.50
3625787.19	3.28270		
493148.74	3625787.19	3.32943	493164.77
3625790.40	3.38188		
493184.65	3625789.12	3.41589	493201.97
3625791.04	3.44840		
493221.21	3625790.40	3.46619	493238.52
3625791.04	3.48827		
492780.00	3626415.01	23.94850	492778.72
3626388.08	18.25675		
492747.94	3626386.16	18.88963	492742.16
3626418.22	27.26389		
492699.20	3626422.71	28.28294	492697.92
3626391.93	21.99398		
492678.68	3626411.81	24.98150	492626.09
3626426.56	21.59497		

492606.85	3626435.54	19.56939	492599.16
3626405.39	18.67237		
492491.20	3626644.88	6.57595	492517.36
3626636.70	7.13846		
492521.18	3626603.45	8.33592	492521.72
3626582.19	8.69478		
492512.46	3626553.84	8.65677	492513.55
3626533.13	8.56837		
492501.01	3626506.42	8.41862	492490.65
3626485.70	8.46474		
492479.21	3626464.45	8.80591	492466.12
3626447.00	8.73835		
492447.59	3626418.66	8.83911	492431.78
3626430.65	7.86961		
492481.93	3626620.35	6.81341	492482.48
3626594.18	7.30505		
492479.21	3626572.92	7.57290	492477.02
3626546.76	7.75630		
492467.76	3626523.32	7.36300	492463.94
3626507.51	7.49294		
492450.86	3626492.79	7.30884	492427.42
3626474.80	6.99566		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 21

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: STCK1
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

		** CONC OF PM ₁₀	IN MICROGRAMS/M**3
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	6.45585	492803.94
3626616.07	6.96609		
492823.25	3626567.17	34.06676	492838.34
3626526.92	44.56491		
493039.78	3625834.45	3.25533	492743.19
3626628.92	5.63498		

492791.92	362663.04	4.39020	492731.11
3626741.92	4.31684		
492774.75	3626728.05	3.24975	492674.05
3626738.96	6.36357		
492708.49	3626698.47	6.68194	492703.25
3626652.75	6.98883		
492723.78	3626582.16	15.07264	492761.18
3626553.82	22.08922		
493013.27	3625844.49	3.16889	

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 22

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

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

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

Y-COORD						
(METERS)		490879.18	491073.28	491267.38	491461.48	491655.58
491849.68		492043.78	492237.88	492431.98		

3628507.56		0.19588	0.21880	0.23532	0.23619	0.25745
0.25350		0.24037	0.20846	0.24338		
3628311.70		0.21730	0.22590	0.25745	0.25975	0.28322
0.28674		0.28788	0.24844	0.25856		
3628115.84		0.25409	0.25146	0.26915	0.30551	0.29831
0.32966		0.32206	0.29589	0.27852		
3627919.98		0.28206	0.29108	0.28211	0.31734	0.34239
0.36838		0.36795	0.35404	0.29798		
3627724.12		0.30721	0.32721	0.33350	0.33391	0.37992
0.39513		0.42146	0.41883	0.33782		
3627528.26		0.31207	0.34674	0.38076	0.39357	0.39289
0.44654		0.46804	0.47808	0.43298		
3627332.40		0.28649	0.35443	0.41027	0.45347	0.45079
0.46920		0.51995	0.57281	0.59046		
3627136.54		0.30115	0.32434	0.39750	0.48517	0.52850
0.53169		0.56531	0.61657	0.64933		

3626940.68		0.39441	0.38919	0.38491	0.44122	0.55847
0.63803		0.64901	0.72112	0.79381		
3626744.82		0.41285	0.48650	0.51229	0.48725	0.51894
0.68879		0.85131	0.89926	0.94194		
3626548.96		0.49977	0.53715	0.56578	0.65703	0.67997
0.66756		0.94026	1.18686	1.20178		
3626353.10		0.54943	0.63623	0.71354	0.75753	0.90586
0.90444		1.08378	1.29642	1.82532		
3626157.24		0.54700	0.62968	0.76726	0.90179	1.09619
1.24435		1.42136	1.80087	2.00946		
3625961.38		0.57919	0.65066	0.76895	0.89161	1.10532
1.32554		1.54446	2.03257	2.89153		
3625765.52		0.76481	0.90766	1.07253	1.24347	1.49697
1.80177		2.29157	3.03697	4.76919		
3625569.66		0.89978	1.07337	1.29439	1.54285	1.75936
2.18916		2.78116	4.06735	6.05983		
3625373.80		0.96045	1.16054	1.37229	1.88627	2.50798
3.20663		3.56713	4.58677	5.38791		
3625177.94		1.16724	1.59391	1.89955	2.18646	2.78308
3.29155		3.71335	3.12388	3.18519		
3624982.08		1.43051	1.77169	1.97042	2.29402	2.72113
2.80295		2.63906	2.14836	2.05352		
3624786.22		1.51827	1.69327	2.04254	2.28618	2.16081
2.10168		1.88610	1.51989	1.50174		
3624590.36		1.53090	1.74955	1.76487	1.75014	1.66964
1.60499		1.40853	1.33579	1.27897		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 23

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)				X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56		0.27894	0.24441	0.21078	0.19851	0.20349
0.20036		0.17549	0.17765	0.11292		
3628311.70		0.29754	0.28518	0.23129	0.22222	0.22582
0.21727		0.20579	0.19991	0.07453		
3628115.84		0.33309	0.29322	0.26139	0.27397	0.26998
0.23664		0.23848	0.21278	0.07934		
3627919.98		0.34607	0.34324	0.29945	0.30921	0.31552
0.26014		0.26791	0.26291	0.10056		
3627724.12		0.37994	0.45392	0.38595	0.34398	0.31982
0.30258		0.28160	0.27221	0.16862		
3627528.26		0.44728	0.46038	0.43606	0.42239	0.39605
0.31979		0.28432	0.27842	0.33550		
3627332.40		0.47978	0.54768	0.49982	0.47012	0.44304
0.38236		0.31406	0.34272	0.28665		
3627136.54		0.54555	0.61589	0.53771	0.48971	0.40479
0.38271		0.41855	0.37992	0.30690		
3626940.68		0.71533	0.73408	0.66559	0.59908	0.48514
0.41055		0.45016	0.34234	0.34019		
3626744.82		1.05338	0.96025	0.89451	0.78186	0.60932
0.52960		0.43724	0.38773	0.34639		
3626548.96		1.34338	1.39046	1.24590	1.11772	0.84734
0.64055		0.58056	0.51104	0.43877		
3626353.10		2.15961	2.27416	1.88909	1.51637	1.20605
0.96986		0.83960	0.59872	0.46713		
3626157.24		2.91868	4.27781	4.03158	2.75009	2.05076
1.36153		0.99707	0.79025	0.69238		
3625961.38		4.67305	8.05215	12.57255	7.62526	3.35796
1.96631		1.36849	1.10629	0.95789		
3625765.52		8.12736	28.47545	46.24789	25.82185	7.55679
3.91811		2.62360	1.95773	1.55194		
3625569.66		8.76498	7.83973	10.29936	10.64646	8.14672
6.06859		3.68649	2.54467	1.82094		
3625373.80		4.18261	4.31217	3.90185	4.51655	4.39063
4.27344		4.17346	3.29114	2.58648		
3625177.94		2.46528	2.74363	2.93863	3.13972	3.62777
3.23229		3.12881	3.01656	2.75672		
3624982.08		2.03196	2.12023	2.27357	2.41097	2.54220
2.59774		2.50387	2.32937	2.22366		
3624786.22		1.49386	1.77880	1.84083	1.98526	1.99741
2.22392		2.00111	2.01075	1.86243		
3624590.36		1.36017	1.40121	1.50828	1.55943	1.61343
1.62853		1.86522	1.59049	1.65695		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 24

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2
 INCLUDING SOURCE(S): STCK2 ,

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

 ** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)	X-COORD (METERS)		
	494372.98	494567.08	494761.18
3628507.56	0.05619	0.06943	0.07656
3628311.70	0.07063	0.07663	0.07988
3628115.84	0.08866	0.08699	0.07337
3627919.98	0.10574	0.09698	0.07556
3627724.12	0.13369	0.16037	0.09814
3627528.26	0.28600	0.24844	0.12854
3627332.40	0.26653	0.23538	0.18314
3627136.54	0.29960	0.28558	0.23827
3626940.68	0.31481	0.29081	0.30949
3626744.82	0.35769	0.31293	0.26510
3626548.96	0.33449	0.30054	0.28396
3626353.10	0.45978	0.38600	0.36592
3626157.24	0.56789	0.50291	0.39115
3625961.38	0.73202	0.72791	0.58366
3625765.52	1.18169	1.01137	0.77443
3625569.66	1.45629	1.13522	0.96326
3625373.80	2.00201	1.53900	1.24019
3625177.94	2.27077	1.93405	1.52617
3624982.08	2.22641	2.02096	1.69908
3624786.22	1.72144	1.75620	1.72411
3624590.36	1.55702	1.31157	1.40776

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 25

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3625834.65	492883.25	3625830.80	29.32408	492919.80
		34.02772		
3625832.73	492955.07	3625845.55	24.61279	493069.86
		104.37471		
3625837.21	493094.87	3625832.73	68.58691	493110.90
		43.04331		
3625837.86	493151.95	3625834.01	27.86336	493166.70
		22.57731		
3625836.57	493187.86	3625836.57	18.77872	493201.33
		16.71680		
3625908.40	493240.44	3625836.57	12.82748	492881.32
		12.62236		
3625911.60	492906.98	3625898.14	14.39100	492901.84
		13.52802		
3625898.14	492928.14	3625914.81	14.48502	492933.91
		15.41414		
3625907.11	492951.87	3625908.40	15.37192	492973.67
		16.09717		
3625897.50	492993.55	3625914.17	16.93656	492996.11
		17.51980		
3625912.24	493015.99	3625896.85	21.80806	493023.05
		19.61069		
3625907.76	493044.21	3625907.11	21.21187	493066.66
		21.68297		
3625895.57	493085.25	3625912.24	17.95507	493087.18
		23.76327		
3625897.50	493108.98	3625911.60	17.01445	493112.19
		19.32664		
3625788.48	493133.99	3625901.98	16.28261	492874.27
		38.36979		
3625790.40	492894.15	3625789.12	44.42750	492910.18
		48.88805		
3625791.04	492930.70	3625786.55	51.56574	492947.38
		54.95082		
3625787.84	492963.41	3625787.84	50.39496	492982.65
		51.22654		
3625791.04	492999.96	3625787.84	58.24440	493021.12
		78.47407		
3625789.76	493036.52	3625789.12	80.12173	493055.75
		85.24800		
3625787.84	493076.28	3625787.84	86.28154	493094.87
		77.03139		

493112.83	3625788.48	57.98634	493129.50
3625787.19	50.03636		
493148.74	3625787.19	41.37317	493164.77
3625790.40	35.25945		
493184.65	3625789.12	29.17839	493201.97
3625791.04	24.76927		
493221.21	3625790.40	20.85268	493238.52
3625791.04	17.66427		
492780.00	3626415.01	1.94262	492778.72
3626388.08	2.09457		
492747.94	3626386.16	2.13559	492742.16
3626418.22	1.98703		
492699.20	3626422.71	1.97406	492697.92
3626391.93	2.10233		
492678.68	3626411.81	2.01261	492626.09
3626426.56	1.91171		
492606.85	3626435.54	1.81247	492599.16
3626405.39	1.92338		
492491.20	3626644.88	1.18416	492517.36
3626636.70	1.21786		
492521.18	3626603.45	1.28664	492521.72
3626582.19	1.31151		
492512.46	3626553.84	1.35557	492513.55
3626533.13	1.38178		
492501.01	3626506.42	1.40547	492490.65
3626485.70	1.44812		
492479.21	3626464.45	1.50091	492466.12
3626447.00	1.56374		
492447.59	3626418.66	1.68274	492431.78
3626430.65	1.62496		
492481.93	3626620.35	1.21447	492482.48
3626594.18	1.25617		
492479.21	3626572.92	1.28453	492477.02
3626546.76	1.31394		
492467.76	3626523.32	1.34700	492463.94
3626507.51	1.36181		
492450.86	3626492.79	1.39817	492427.42
3626474.80	1.46135		

*** AERMOD - VERSION 23132 *** C:\Users\apol1\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 26

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3626616.07	492402.89	3626460.63	1.54147	492803.94
3626526.92	492823.25	3626567.17	1.33111	492838.34
3626628.92	493039.78	3625834.45	156.36088	492743.19
3626741.92	492791.92	3626663.04	1.12408	492731.11
3626738.96	492774.75	3626728.05	1.00739	492674.05
3626652.75	492708.49	3626698.47	1.12051	492703.25
3626553.82	492723.78	3626582.16	1.39703	492761.18
	493013.27	3625844.49	107.83633	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 27

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
491849.68	490879.18
492043.78	491073.28
492237.88	491267.38
492431.98	491461.48
	491655.58

3628507.56		0.29987	0.30210	0.30279	0.33490	0.35938
0.39675		0.39532	0.35209	0.38353		
3628311.70		0.32683	0.35113	0.33912	0.35946	0.39803
0.44972		0.45489	0.41313	0.41241		
3628115.84		0.31876	0.36220	0.39826	0.39834	0.44655
0.50556		0.52676	0.49062	0.46633		
3627919.98		0.30243	0.35742	0.42108	0.46716	0.50299
0.56886		0.57734	0.61129	0.53885		
3627724.12		0.34302	0.34817	0.41002	0.50392	0.59644
0.63657		0.63286	0.75846	0.58388		
3627528.26		0.44279	0.43099	0.43222	0.50921	0.62732
0.72952		0.72965	0.78716	0.87221		
3627332.40		0.54268	0.55916	0.58927	0.57661	0.59520
0.68571		0.83609	1.07287	1.34463		
3627136.54		0.63274	0.70195	0.73335	0.79043	0.80149
0.76783		0.88129	1.21661	1.52960		
3626940.68		0.61226	0.69621	0.79423	0.94233	1.08158
1.23963		1.38122	1.50499	2.16692		
3626744.82		0.71258	0.86281	0.92058	1.08386	1.15990
1.65997		2.24542	3.31930	4.06181		
3626548.96		0.84599	0.97030	1.00313	1.30840	1.46629
1.72175		2.74658	4.33935	7.93131		
3626353.10		0.90925	1.21133	1.40583	1.56857	2.20976
2.48227		4.02752	6.82805	10.09100		
3626157.24		0.99258	1.25075	1.76851	2.24237	2.86841
3.45580		4.39211	4.74463	4.29799		
3625961.38		1.21468	1.39446	1.67948	2.17401	2.95565
3.22845		2.72595	2.52899	2.29242		
3625765.52		1.38258	1.75968	1.81641	2.01392	2.00943
1.89006		1.79700	1.58091	1.79023		
3625569.66		1.39453	1.72269	1.99540	1.86911	1.73393
1.62487		1.22752	1.20539	1.28441		
3625373.80		1.43673	1.56124	1.34811	1.51938	1.43265
1.26120		1.10888	1.12668	1.10596		
3625177.94		1.14783	1.30422	1.28358	1.17229	1.11938
1.01291		0.99200	0.91249	0.91235		
3624982.08		1.01637	1.13707	1.03566	0.97236	0.89546
0.87802		0.87892	0.83093	0.80990		
3624786.22		0.97928	0.88039	0.89496	0.80981	0.77962
0.78022		0.77343	0.70818	0.71071		
3624590.36		0.83755	0.79263	0.73056	0.68023	0.69489
0.70026		0.71115	0.64360	0.65914		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 28

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3

INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD (METERS)				X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

- - - - -
- - - - -

3628507.56	0.37370	0.33265	0.30731	0.31795	0.32379
0.31679	0.31543	0.36744	0.17898		
3628311.70	0.41996	0.37807	0.33232	0.33677	0.38045
0.36210	0.39995	0.39906	0.15802		
3628115.84	0.47886	0.40142	0.39503	0.45317	0.45666
0.45385	0.46338	0.40011	0.17163		
3627919.98	0.50785	0.47148	0.44671	0.55060	0.52183
0.56660	0.48485	0.32724	0.19492		
3627724.12	0.60011	0.63136	0.62307	0.67036	0.60882
0.63142	0.51901	0.43165	0.25157		
3627528.26	0.87899	0.74341	0.78846	0.85338	0.85712
0.66347	0.59517	0.60215	0.46452		
3627332.40	1.22307	1.03032	1.10336	1.18358	0.92060
0.79748	0.77831	0.69657	0.58584		
3627136.54	1.60312	1.31937	1.39266	1.13222	0.96122
1.08887	0.88287	0.73372	0.62461		
3626940.68	3.08690	2.40932	2.57069	1.74485	1.37088
1.21030	1.04612	0.79384	0.73072		
3626744.82	6.27860	5.69802	5.26316	2.98180	2.19546
1.40532	1.14383	0.96304	0.84588		
3626548.96	22.48512	18.30458	15.80115	7.79872	4.00201
2.42592	1.94012	1.53636	1.15569		
3626353.10	8.73795	7.67422	8.36613	7.29492	5.69970
3.89984	2.66323	1.93761	1.44417		
3626157.24	4.00550	3.86591	4.47749	4.26261	3.82979
3.42919	3.10302	2.54020	1.95373		
3625961.38	2.32901	2.44757	2.72983	2.85668	2.66597
2.54895	2.38390	2.24386	2.08956		
3625765.52	1.58353	1.73330	1.91979	2.05751	2.06738
1.96381	1.91158	1.77998	1.73690		
3625569.66	1.22904	1.30048	1.50085	1.55119	1.68256
1.61155	1.56968	1.52045	1.41706		
3625373.80	1.08260	1.11511	1.16658	1.25064	1.32603
1.41727	1.28767	1.29116	1.26497		

3625177.94	0.94444	0.95813	1.01960	1.10353	1.11344
1.21648	1.18685	1.11343	1.11485		
3624982.08	0.85196	0.84023	0.88889	0.95648	0.97155
1.00984	1.08048	1.00209	0.95873		
3624786.22	0.74381	0.74072	0.77167	0.85282	0.85813
0.86961	0.93944	0.93690	0.86123		
3624590.36	0.67686	0.67242	0.68851	0.76412	0.75327
0.75168	0.79008	0.85891	0.80365		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 29

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3
 INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)	494372.98	494567.08	494761.18	X-COORD (METERS)
3628507.56	0.12636	0.11951	0.11712	
3628311.70	0.13734	0.13240	0.12705	
3628115.84	0.15621	0.14465	0.14468	
3627919.98	0.17778	0.18143	0.17313	
3627724.12	0.23255	0.24793	0.18049	
3627528.26	0.41049	0.38436	0.19227	
3627332.40	0.49860	0.45909	0.24806	
3627136.54	0.56216	0.50820	0.47629	
3626940.68	0.63492	0.57394	0.53003	
3626744.82	0.76740	0.73952	0.65586	
3626548.96	0.99852	0.88775	0.79340	
3626353.10	1.21401	1.04815	0.90809	
3626157.24	1.53609	1.24734	1.04827	
3625961.38	1.86284	1.52921	1.30299	
3625765.52	1.65342	1.56623	1.43423	
3625569.66	1.38214	1.35047	1.30113	
3625373.80	1.18480	1.15105	1.15121	
3625177.94	1.08066	1.02782	0.96773	
3624982.08	0.95105	0.93545	0.88874	

```

3624786.22 | 0.83448 0.84600 0.83043
3624590.36 | 0.75538 0.75802 0.76265
^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 14:49:32

```

PAGE 30

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	1.99789	492919.80
3625834.65	2.05223		
492955.07	3625845.55	2.12678	493069.86
3625832.73	2.14935		
493094.87	3625832.73	2.16555	493110.90
3625837.21	2.19426		
493151.95	3625834.01	2.22617	493166.70
3625837.86	2.26236		
493187.86	3625836.57	2.26807	493201.33
3625836.57	2.29563		
493240.44	3625836.57	2.32235	492881.32
3625908.40	2.30581		
492906.98	3625898.14	2.29206	492901.84
3625911.60	2.33981		
492928.14	3625914.81	2.38002	492933.91
3625898.14	2.31860		
492951.87	3625908.40	2.40107	492973.67
3625907.11	2.42608		
492993.55	3625914.17	2.46441	492996.11
3625897.50	2.39153		
493015.99	3625896.85	2.40410	493023.05
3625912.24	2.47557		
493044.21	3625907.11	2.46726	493066.66
3625907.76	2.48543		
493085.25	3625912.24	2.51824	493087.18
3625895.57	2.44993		

493108.98	3625911.60	2.55750	493112.19
3625897.50	2.47421		
493133.99	3625901.98	2.52302	492874.27
3625788.48	1.83982		
492894.15	3625789.12	1.86597	492910.18
3625790.40	1.88787		
492930.70	3625786.55	1.88493	492947.38
3625791.04	1.92890		
492963.41	3625787.84	1.93756	492982.65
3625787.84	1.96205		
492999.96	3625787.84	1.96893	493021.12
3625791.04	1.99832		
493036.52	3625789.12	1.99892	493055.75
3625789.76	2.01121		
493076.28	3625787.84	2.01329	493094.87
3625787.84	2.02285		
493112.83	3625788.48	2.03660	493129.50
3625787.19	2.04594		
493148.74	3625787.19	2.06799	493164.77
3625790.40	2.09396		
493184.65	3625789.12	2.11614	493201.97
3625791.04	2.13147		
493221.21	3625790.40	2.14933	493238.52
3625791.04	2.16761		
492780.00	3626415.01	10.16355	492778.72
3626388.08	8.79212		
492747.94	3626386.16	8.92860	492742.16
3626418.22	10.85020		
492699.20	3626422.71	12.31895	492697.92
3626391.93	10.12318		
492678.68	3626411.81	11.92803	492626.09
3626426.56	14.75819		
492606.85	3626435.54	16.34494	492599.16
3626405.39	12.89956		
492491.20	3626644.88	7.57746	492517.36
3626636.70	8.43263		
492521.18	3626603.45	9.82685	492521.72
3626582.19	11.05757		
492512.46	3626553.84	12.51564	492513.55
3626533.13	14.40736		
492501.01	3626506.42	14.99597	492490.65
3626485.70	15.10871		
492479.21	3626464.45	14.86120	492466.12
3626447.00	14.06464		
492447.59	3626418.66	12.71765	492431.78
3626430.65	12.38621		
492481.93	3626620.35	7.69985	492482.48
3626594.18	8.53229		
492479.21	3626572.92	9.30613	492477.02
3626546.76	10.72632		

492467.76	3626523.32	11.51562	492463.94
3626507.51	12.34467		
492450.86	3626492.79	12.20895	492427.42
3626474.80	11.52197		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apol1\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 31

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

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

492402.89	3626460.63	10.58693	492803.94
3626616.07	21.49225		
492823.25	3626567.17	19.30258	492838.34
3626526.92	20.14708		
493039.78	3625834.45	2.15667	492743.19
3626628.92	22.01677		
492791.92	3626663.04	14.13167	492731.11
3626741.92	7.07422		
492774.75	3626728.05	6.32765	492674.05
3626738.96	7.50943		
492708.49	3626698.47	11.92618	492703.25
3626652.75	14.94254		
492723.78	3626582.16	35.74739	492761.18
3626553.82	27.17671		
493013.27	3625844.49	2.18312	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apol1\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 32

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	0.30948	0.31765	0.32180	0.34597	0.35833
0.38231	0.39195	0.35411	0.37915		
3628311.70	0.32006	0.35088	0.36321	0.37767	0.41086
0.44692	0.45329	0.41633	0.40857		
3628115.84	0.31188	0.35923	0.40659	0.42645	0.47146
0.51986	0.52223	0.50206	0.46567		
3627919.98	0.30996	0.34436	0.41259	0.48098	0.54570
0.60617	0.58285	0.62945	0.54575		
3627724.12	0.38526	0.37683	0.40149	0.50432	0.62215
0.69679	0.66599	0.78447	0.60863		
3627528.26	0.45849	0.48803	0.50203	0.54330	0.62808
0.76439	0.79986	0.83419	0.93674		
3627332.40	0.54209	0.58619	0.64012	0.69052	0.70390
0.71323	0.88383	1.22050	1.52368		
3627136.54	0.53467	0.60278	0.69623	0.79576	0.90586
0.98030	1.04378	1.33007	1.80861		
3626940.68	0.56087	0.61878	0.69868	0.79370	0.94132
1.18346	1.60429	2.13107	2.89499		
3626744.82	0.80428	0.93425	1.00783	1.17705	1.28113
1.84927	2.58116	3.89815	5.81324		
3626548.96	1.00102	1.15833	1.23709	1.58763	1.87281
2.34736	3.83263	6.53323	11.93487		
3626353.10	1.00474	1.28273	1.52207	1.83795	2.39974
2.92863	4.48119	5.86710	5.91590		
3626157.24	1.05244	1.36650	1.84879	2.15247	2.61777
3.15001	3.55973	3.41186	3.00964		
3625961.38	1.27433	1.38823	1.65010	2.09008	2.44315
2.46317	2.22113	1.99554	2.01639		
3625765.52	1.25273	1.69060	1.80204	1.66508	1.69545
1.58540	1.43722	1.37726	1.51779		
3625569.66	1.42751	1.58506	1.66243	1.60134	1.46205
1.31476	1.06002	1.10904	1.19073		
3625373.80	1.27275	1.32678	1.24572	1.26359	1.16155
1.02385	1.00179	1.03305	1.07644		

3625177.94	1.05294	1.19347	1.11488	1.00371	0.91687
0.87482	0.88887	0.86379	0.94590		
3624982.08	0.93344	0.98804	0.92470	0.83165	0.78107
0.78459	0.79351	0.78279	0.85797		
3624786.22	0.88194	0.80722	0.78090	0.70981	0.70184
0.70911	0.71100	0.71033	0.78780		
3624590.36	0.75328	0.71472	0.63421	0.64004	0.64397
0.65222	0.64295	0.66560	0.72038		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 33

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4
 INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)	X-COORD (METERS)				
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	0.49987	0.56162	0.47941	0.50021	0.42811
0.39781	0.39241	0.40779	0.19480		
3628311.70	0.54149	0.64888	0.54781	0.47932	0.48972
0.45437	0.45838	0.38490	0.17883		
3628115.84	0.59824	0.67534	0.66445	0.67090	0.55810
0.54246	0.50952	0.38483	0.20058		
3627919.98	0.62050	0.82583	0.76862	0.75868	0.66009
0.61656	0.53513	0.33309	0.22263		
3627724.12	0.70810	1.32652	1.17942	0.87507	0.77272
0.65322	0.59615	0.41756	0.27838		
3627528.26	1.03571	1.39628	1.41658	1.07268	0.88183
0.72769	0.65665	0.53878	0.35397		
3627332.40	1.35438	1.99084	1.71788	1.33657	1.03551
0.85358	0.67297	0.55066	0.47974		
3627136.54	1.83114	2.92396	1.95186	1.38825	1.01744
0.83550	0.73375	0.61538	0.49359		
3626940.68	4.12176	4.87043	3.26370	1.76708	1.31130
1.02902	0.78981	0.66083	0.57678		

3626744.82	15.69509	18.02334	7.69337	3.82981	2.41778
1.52460	1.15688	0.95037	0.80162		
3626548.96	9.67604	10.97906	15.02812	8.05637	4.11837
2.41605	1.65402	1.29022	1.03285		
3626353.10	5.42676	6.33431	6.78824	6.14169	4.93299
3.55810	2.51362	1.82287	1.36165		
3626157.24	3.21607	3.47368	3.78459	3.72728	3.41941
3.12798	2.75881	2.26921	1.84395		
3625961.38	2.22110	2.29371	2.55899	2.55546	2.48563
2.39518	2.23200	2.11823	1.94288		
3625765.52	1.66527	1.68478	1.88732	1.94253	1.96218
1.91534	1.85588	1.70847	1.67222		
3625569.66	1.32075	1.31853	1.50435	1.56638	1.57332
1.59878	1.53945	1.52557	1.39948		
3625373.80	1.14488	1.12792	1.21402	1.31814	1.32773
1.34575	1.31340	1.29262	1.29190		
3625177.94	0.99086	0.97477	1.04459	1.12199	1.16756
1.17136	1.18063	1.13431	1.09535		
3624982.08	0.87256	0.87486	0.90401	0.98697	1.02199
1.01497	1.05215	1.02351	0.98062		
3624786.22	0.77688	0.76715	0.80998	0.89408	0.88351
0.90935	0.91657	0.93565	0.90546		
3624590.36	0.69057	0.68475	0.71672	0.79779	0.78949
0.80864	0.81156	0.84946	0.83779		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 34

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4
 INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)	X-COORD (METERS)		
	494372.98	494567.08	494761.18
3628507.56	0.14678	0.13932	0.13475
3628311.70	0.16015	0.15074	0.14763
3628115.84	0.17744	0.16343	0.15602

3627919.98	0.20035	0.18065	0.15247
3627724.12	0.22004	0.21344	0.15864
3627528.26	0.30302	0.28712	0.19636
3627332.40	0.42581	0.38101	0.23457
3627136.54	0.45650	0.41910	0.37349
3626940.68	0.51140	0.46346	0.43223
3626744.82	0.70251	0.61377	0.54663
3626548.96	0.87542	0.77192	0.68191
3626353.10	1.06124	0.87722	0.74821
3626157.24	1.47633	1.18099	0.98905
3625961.38	1.63582	1.40383	1.19928
3625765.52	1.61127	1.47044	1.28334
3625569.66	1.35493	1.32097	1.29290
3625373.80	1.20226	1.13025	1.12624
3625177.94	1.11521	1.04120	0.99027
3624982.08	0.97604	0.97909	0.90752
3624786.22	0.85904	0.87293	0.87705
3624590.36	0.79551	0.74433	0.78342

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 35

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

492883.25	3625830.80	1.93250	492919.80
3625834.65	1.97131		
492955.07	3625845.55	2.03464	493069.86
3625832.73	2.09615		
493094.87	3625832.73	2.09477	493110.90
3625837.21	2.11379		
493151.95	3625834.01	2.11482	493166.70
3625837.86	2.12973		
493187.86	3625836.57	2.11433	493201.33
3625836.57	2.11463		

493240.44	3625836.57	2.11153	492881.32
3625908.40	2.18404		
492906.98	3625898.14	2.17141	492901.84
3625911.60	2.21140		
492928.14	3625914.81	2.24991	492933.91
3625898.14	2.18405		
492951.87	3625908.40	2.25900	492973.67
3625907.11	2.31527		
492993.55	3625914.17	2.35921	492996.11
3625897.50	2.28862		
493015.99	3625896.85	2.29573	493023.05
3625912.24	2.35186		
493044.21	3625907.11	2.34391	493066.66
3625907.76	2.34577		
493085.25	3625912.24	2.37333	493087.18
3625895.57	2.31369		
493108.98	3625911.60	2.37423	493112.19
3625897.50	2.32503		
493133.99	3625901.98	2.33150	492874.27
3625788.48	1.78472		
492894.15	3625789.12	1.82033	492910.18
3625790.40	1.83073		
492930.70	3625786.55	1.84160	492947.38
3625791.04	1.86221		
492963.41	3625787.84	1.86640	492982.65
3625787.84	1.89631		
492999.96	3625787.84	1.91529	493021.12
3625791.04	1.96409		
493036.52	3625789.12	1.96672	493055.75
3625789.76	1.97768		
493076.28	3625787.84	1.98017	493094.87
3625787.84	1.97852		
493112.83	3625788.48	1.99159	493129.50
3625787.19	1.98477		
493148.74	3625787.19	1.99121	493164.77
3625790.40	2.00425		
493184.65	3625789.12	2.00416	493201.97
3625791.04	2.01205		
493221.21	3625790.40	1.99663	493238.52
3625791.04	2.00170		
492780.00	3626415.01	8.00821	492778.72
3626388.08	7.11288		
492747.94	3626386.16	6.79871	492742.16
3626418.22	7.70183		
492699.20	3626422.71	7.50313	492697.92
3626391.93	6.60405		
492678.68	3626411.81	7.03603	492626.09
3626426.56	7.27171		
492606.85	3626435.54	7.64846	492599.16
3626405.39	6.62913		

492491.20	3626644.88	15.50195	492517.36
3626636.70	17.84711		
492521.18	3626603.45	17.74538	492521.72
3626582.19	16.79830		
492512.46	3626553.84	14.84585	492513.55
3626533.13	13.59750		
492501.01	3626506.42	11.87618	492490.65
3626485.70	10.71627		
492479.21	3626464.45	9.66309	492466.12
3626447.00	8.87641		
492447.59	3626418.66	7.79582	492431.78
3626430.65	8.22792		
492481.93	3626620.35	15.34804	492482.48
3626594.18	15.24704		
492479.21	3626572.92	14.54101	492477.02
3626546.76	13.50201		
492467.76	3626523.32	12.31186	492463.94
3626507.51	11.56141		
492450.86	3626492.79	10.77627	492427.42
3626474.80	9.82562		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 36

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: STCK4 INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	9.06019	492803.94
3626616.07	15.54300		
492823.25	3626567.17	12.49745	492838.34
3626526.92	12.90739		
493039.78	3625834.45	2.08958	492743.19
3626628.92	16.42519		
492791.92	3626663.04	19.04060	492731.11
3626741.92	15.92837		

492774.75	3626728.05	15.15435	492674.05
3626738.96	17.94157		
492708.49	3626698.47	26.68947	492703.25
3626652.75	22.15932		
492723.78	3626582.16	11.28793	492761.18
3626553.82	10.21541		
493013.27	3625844.49	2.12408	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 37

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***
 INCLUDING SOURCE(S): STCK5 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	0.32630	0.33935	0.36079	0.43759	0.50268
0.51912	0.51079	0.47915	0.57158		
3628311.70	0.32696	0.37265	0.39239	0.44346	0.54315
0.60308	0.59054	0.55506	0.62330		
3628115.84	0.33621	0.37798	0.43385	0.45988	0.55327
0.69208	0.71167	0.67392	0.71058		
3627919.98	0.31809	0.37460	0.44384	0.51296	0.57009
0.71980	0.85409	0.83539	0.82460		
3627724.12	0.36233	0.37178	0.43299	0.53140	0.63877
0.74307	0.96617	1.08057	0.99948		
3627528.26	0.43792	0.46219	0.48066	0.53545	0.65593
0.81145	0.98508	1.36077	1.31845		
3627332.40	0.51516	0.53931	0.58942	0.65059	0.67004
0.79165	1.07938	1.52224	2.22877		
3627136.54	0.57781	0.63867	0.70943	0.75938	0.82801
0.90644	1.07098	1.63710	2.68416		
3626940.68	0.59157	0.65746	0.75265	0.86652	1.03497
1.26136	1.59417	1.93840	3.11013		

3626744.82	0.78979	0.92883	0.99546	1.17267	1.28517
1.89966	2.68862	4.21236	6.24348		
3626548.96	1.00394	1.17642	1.25051	1.66642	1.93098
2.43816	4.20413	7.36366	13.65700		
3626353.10	1.01658	1.34822	1.58885	1.89655	2.52136
3.04656	4.85172	6.38456	6.25766		
3626157.24	1.08440	1.39701	1.94128	2.26730	2.74656
3.26148	3.61478	3.32319	3.47532		
3625961.38	1.26184	1.41685	1.66936	2.09725	2.51593
2.45780	2.03071	2.05572	2.24045		
3625765.52	1.26840	1.69782	1.80415	1.67847	1.62484
1.43346	1.47253	1.49683	1.73019		
3625569.66	1.41038	1.57941	1.67684	1.54553	1.32822
1.35115	1.09567	1.19685	1.34307		
3625373.80	1.26856	1.31785	1.16280	1.18925	1.20348
1.12145	1.07051	1.11795	1.24957		
3625177.94	1.04966	1.11695	1.02076	0.98539	0.98789
0.95744	0.99203	0.91581	1.10474		
3624982.08	0.85435	0.89256	0.90885	0.86805	0.83636
0.85967	0.88798	0.85904	0.98682		
3624786.22	0.79092	0.76331	0.79256	0.74237	0.74040
0.77423	0.78805	0.78529	0.85018		
3624590.36	0.73413	0.70769	0.65379	0.64427	0.67881
0.70288	0.71361	0.77219	0.77656		

*** AERMOD - VERSION 23132 ***
 C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU
 *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 38

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5
 INCLUDING SOURCE(S): STCK5 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	0.47319	0.41293	0.38963	0.36719	0.31671
0.29478	0.30461	0.30487	0.15923		

3628311.70	0.54410	0.47607	0.42640	0.35711	0.34396
0.35478	0.32934	0.31766	0.15094		
3628115.84	0.64547	0.50933	0.50626	0.47478	0.41350
0.40749	0.34883	0.32603	0.17820		
3627919.98	0.76190	0.61599	0.54316	0.52440	0.48965
0.42503	0.37595	0.29227	0.18337		
3627724.12	0.95763	0.95996	0.75914	0.61221	0.52321
0.45100	0.43852	0.33542	0.23611		
3627528.26	1.46040	0.99797	0.87348	0.76437	0.59922
0.52394	0.43602	0.43940	0.32040		
3627332.40	1.88317	1.35128	1.13558	0.89766	0.75412
0.60111	0.52264	0.46139	0.40740		
3627136.54	2.69112	1.76408	1.28598	1.04458	0.83128
0.68025	0.60745	0.52381	0.43592		
3626940.68	4.81310	3.18178	2.32004	1.48269	1.15981
0.89435	0.69830	0.57838	0.50287		
3626744.82	13.41362	12.10692	5.27725	2.85357	1.84839
1.23603	0.94313	0.78757	0.66338		
3626548.96	10.59254	21.88875	11.15518	5.57923	3.08089
1.95319	1.42662	1.12926	0.90847		
3626353.10	6.82943	9.12647	9.08249	6.08725	4.21330
2.79877	1.95401	1.45888	1.15223		
3626157.24	3.83091	4.50809	5.09126	4.54144	3.76890
2.95649	2.43730	1.90299	1.48854		
3625961.38	2.54345	2.83652	3.12216	3.26752	3.05365
2.69995	2.19292	2.02967	1.71257		
3625765.52	1.86015	2.03572	2.27080	2.44869	2.41739
2.34269	2.08125	1.79075	1.65512		
3625569.66	1.46151	1.54807	1.83463	1.89084	2.04572
1.85228	1.84746	1.69071	1.49173		
3625373.80	1.27063	1.32193	1.42197	1.50262	1.59491
1.72324	1.54689	1.55915	1.43446		
3625177.94	1.08736	1.12531	1.26163	1.26126	1.35474
1.43595	1.39135	1.30236	1.32276		
3624982.08	0.95947	0.97762	1.06722	1.10724	1.15805
1.20290	1.27219	1.16218	1.10946		
3624786.22	0.84438	0.85200	0.90728	1.02409	0.98739
1.01286	1.13023	1.07448	0.99232		
3624590.36	0.78646	0.77813	0.79619	0.91071	0.83154
0.89463	0.91059	0.99264	0.93672		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 39

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)				X-COORD (METERS)
	494372.98	494567.08	494761.18	

3628507.56	0.11869	0.12174	0.11859
3628311.70	0.13690	0.12781	0.11758
3628115.84	0.14362	0.12879	0.13498
3627919.98	0.16015	0.16312	0.14168
3627724.12	0.20147	0.18554	0.14000
3627528.26	0.27425	0.27333	0.18627
3627332.40	0.36851	0.35551	0.22854
3627136.54	0.39329	0.35924	0.35224
3626940.68	0.44035	0.40181	0.37085
3626744.82	0.58681	0.52984	0.46798
3626548.96	0.76113	0.68053	0.59944
3626353.10	0.93447	0.78716	0.67759
3626157.24	1.19879	0.98165	0.81622
3625961.38	1.43512	1.19876	1.02583
3625765.52	1.53310	1.33209	1.13443
3625569.66	1.34667	1.28716	1.20172
3625373.80	1.29810	1.14824	1.13278
3625177.94	1.22393	1.11501	1.01804
3624982.08	1.16028	1.05048	0.96384
3624786.22	0.98173	1.02619	0.92110
3624590.36	0.87081	0.88764	0.88676

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 40

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

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

	492883.25	3625830.80	2.36734	492919.80
3625834.65	2.41427			
	492955.07	3625845.55	2.51018	493069.86
3625832.73	2.55446			
	493094.87	3625832.73	2.60414	493110.90
3625837.21	2.63860			
	493151.95	3625834.01	2.65194	493166.70
3625837.86	2.67897			
	493187.86	3625836.57	2.72602	493201.33
3625836.57	2.77591			
	493240.44	3625836.57	2.79749	492881.32
3625908.40	2.63908			
	492906.98	3625898.14	2.66861	492901.84
3625911.60	2.72254			
	492928.14	3625914.81	2.77466	492933.91
3625898.14	2.70722			
	492951.87	3625908.40	2.73286	492973.67
3625907.11	2.76047			
	492993.55	3625914.17	2.82149	492996.11
3625897.50	2.75426			
	493015.99	3625896.85	2.75429	493023.05
3625912.24	2.83517			
	493044.21	3625907.11	2.85922	493066.66
3625907.76	2.86981			
	493085.25	3625912.24	2.96593	493087.18
3625895.57	2.88177			
	493108.98	3625911.60	2.99316	493112.19
3625897.50	2.89432			
	493133.99	3625901.98	3.03125	492874.27
3625788.48	2.21672			
	492894.15	3625789.12	2.22069	492910.18
3625790.40	2.26257			
	492930.70	3625786.55	2.28751	492947.38
3625791.04	2.31260			
	492963.41	3625787.84	2.31222	492982.65
3625787.84	2.31854			
	492999.96	3625787.84	2.32931	493021.12
3625791.04	2.30820			
	493036.52	3625789.12	2.35556	493055.75
3625789.76	2.38581			
	493076.28	3625787.84	2.37923	493094.87
3625787.84	2.39760			
	493112.83	3625788.48	2.43113	493129.50
3625787.19	2.48375			

493148.74	3625787.19	2.50414	493164.77
3625790.40	2.54356		
493184.65	3625789.12	2.56541	493201.97
3625791.04	2.60750		
493221.21	3625790.40	2.59484	493238.52
3625791.04	2.61295		
492780.00	3626415.01	12.05281	492778.72
3626388.08	10.31258		
492747.94	3626386.16	9.40520	492742.16
3626418.22	10.92795		
492699.20	3626422.71	9.99988	492697.92
3626391.93	8.64613		
492678.68	3626411.81	9.21359	492626.09
3626426.56	9.14270		
492606.85	3626435.54	9.45964	492599.16
3626405.39	8.22818		
492491.20	3626644.88	18.34945	492517.36
3626636.70	21.53920		
492521.18	3626603.45	21.76224	492521.72
3626582.19	20.35535		
492512.46	3626553.84	17.53128	492513.55
3626533.13	15.66759		
492501.01	3626506.42	13.40477	492490.65
3626485.70	12.00300		
492479.21	3626464.45	10.67957	492466.12
3626447.00	9.71984		
492447.59	3626418.66	8.36485	492431.78
3626430.65	8.88463		
492481.93	3626620.35	18.52646	492482.48
3626594.18	18.44505		
492479.21	3626572.92	17.48443	492477.02
3626546.76	15.92569		
492467.76	3626523.32	14.16980	492463.94
3626507.51	13.12391		
492450.86	3626492.79	12.16079	492427.42
3626474.80	10.96708		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 41

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***
 INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3626616.07	492402.89	3626460.63	10.12010	492803.94
		26.83903		
	492823.25	3626567.17	22.98250	492838.34
3626526.92		24.66014		
	493039.78	3625834.45	2.54801	492743.19
3626628.92		23.70859		
	492791.92	3626663.04	21.36971	492731.11
3626741.92		20.06662		
	492774.75	3626728.05	17.52246	492674.05
3626738.96		19.00413		
	492708.49	3626698.47	29.11848	492703.25
3626652.75		26.88790		
	492723.78	3626582.16	22.08855	492761.18
3626553.82		24.84393		
	493013.27	3625844.49	2.50935	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 14:49:32

PAGE 42

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK6 ***
INCLUDING SOURCE(S): STCK6 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
491849.68	490879.18
	491073.28
	491267.38
	491461.48
	491655.58
	492043.78
	492237.88
	492431.98
3628507.56	0.29035
0.39364	0.27176
	0.28796
	0.34751
	0.37666
	0.39934
	0.35797
	0.44837

3628311.70	0.32645	0.33540	0.32122	0.34985	0.41155
0.47098	0.46218	0.40628	0.47105		
3628115.84	0.32665	0.37834	0.39267	0.38210	0.43454
0.51004	0.53674	0.48934	0.53010		
3627919.98	0.29136	0.36653	0.42990	0.46070	0.47040
0.56030	0.62981	0.62954	0.57818		
3627724.12	0.32245	0.33401	0.42268	0.51824	0.59130
0.60058	0.68982	0.78742	0.64120		
3627528.26	0.44439	0.42556	0.41181	0.51622	0.62794
0.73428	0.77068	0.91083	0.90757		
3627332.40	0.47604	0.50388	0.58841	0.57551	0.57992
0.73141	0.94811	1.14612	1.44983		
3627136.54	0.60026	0.65417	0.65037	0.70660	0.78225
0.77979	0.93768	1.38834	1.70778		
3626940.68	0.58024	0.66321	0.76056	0.91172	1.03630
1.13133	1.30014	1.52203	2.54927		
3626744.82	0.70902	0.85316	0.90935	1.06868	1.15058
1.63402	2.24609	3.40636	4.21052		
3626548.96	0.90350	1.04224	1.09572	1.44910	1.65656
1.98087	3.38210	5.58203	10.47803		
3626353.10	1.03169	1.36659	1.60499	1.82909	2.55945
2.75559	4.70393	7.46907	10.41253		
3626157.24	1.11922	1.29784	1.94254	2.49333	3.17373
3.75993	4.57817	4.72526	4.14706		
3625961.38	1.32627	1.52821	1.82158	2.31453	3.09724
3.30324	2.86049	2.50357	2.22345		
3625765.52	1.48252	1.87262	1.95654	2.01072	2.06620
1.95214	1.77670	1.57017	1.70202		
3625569.66	1.50821	1.75447	2.03821	2.01162	1.80928
1.66780	1.22229	1.20112	1.26653		
3625373.80	1.42371	1.58824	1.34824	1.59869	1.43906
1.24648	1.11919	1.08242	1.18293		
3625177.94	1.20470	1.36410	1.33279	1.17305	1.15354
1.02710	0.98822	0.89470	1.03268		
3624982.08	0.97261	1.13383	1.06749	0.98565	0.88872
0.87322	0.84167	0.80797	0.98204		
3624786.22	1.01455	0.91572	0.90606	0.78447	0.79585
0.78003	0.76627	0.72774	0.79607		
3624590.36	0.84322	0.81762	0.71673	0.68652	0.67719
0.67177	0.71208	0.70639	0.73300		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 14:49:32

PAGE 43

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

- - - - -

3628507.56	0.41777	0.37771	0.34199	0.32414	0.26867
0.23537	0.21578	0.26401	0.13110		
3628311.70	0.47907	0.42480	0.37607	0.30221	0.29989
0.23568	0.26741	0.30614	0.12530		
3628115.84	0.54614	0.44715	0.45442	0.39722	0.32986
0.30529	0.30314	0.30168	0.13718		
3627919.98	0.60154	0.52410	0.49158	0.45193	0.33859
0.38151	0.31848	0.26192	0.14608		
3627724.12	0.72796	0.77234	0.66357	0.48655	0.42497
0.40248	0.37537	0.32634	0.18605		
3627528.26	1.08376	0.83307	0.74187	0.54326	0.53242
0.44492	0.40018	0.41006	0.34342		
3627332.40	1.34663	1.09742	0.87335	0.75964	0.59370
0.52989	0.50294	0.50116	0.39677		
3627136.54	1.64194	1.39672	0.89971	0.70456	0.67585
0.71159	0.57607	0.49153	0.40836		
3626940.68	2.99467	2.31225	1.46764	1.24764	1.06162
0.82874	0.71088	0.57592	0.51913		
3626744.82	8.15963	5.55229	4.51575	2.50510	1.68294
1.09744	0.89009	0.76913	0.68100		
3626548.96	29.50652	38.20243	10.52760	4.76250	2.68058
1.74208	1.37187	1.09012	0.86748		
3626353.10	8.63051	11.72769	9.53481	6.96518	4.03604
2.57148	1.78637	1.32880	1.08062		
3626157.24	4.04277	4.82575	6.03261	4.50398	3.95499
3.31041	2.43312	1.83892	1.45978		
3625961.38	2.54692	2.77933	3.29480	3.80093	2.91113
2.59984	2.46956	2.10338	1.73009		
3625765.52	1.85582	1.97417	2.32513	2.72014	2.67108
2.19472	1.96727	1.89155	1.76135		
3625569.66	1.43830	1.47953	1.85124	1.92433	2.21140
2.03799	1.73717	1.53765	1.48053		
3625373.80	1.25748	1.28084	1.40024	1.51057	1.66319
1.78335	1.65972	1.46405	1.31363		
3625177.94	1.06677	1.08550	1.23050	1.25498	1.30386
1.49253	1.41108	1.35360	1.22512		

3624982.08		0.93574	0.92413	1.01959	1.10251	1.17207
1.24292		1.32649	1.16558	1.11307		
3624786.22		0.82865	0.83430	0.85040	1.02365	0.98596
0.98867		1.17657	1.12539	0.99240		
3624590.36		0.77673	0.73860	0.75197	0.90350	0.80470
0.85216		0.90561	0.98359	0.88579		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 44

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK6 ***
 INCLUDING SOURCE(S): STCK6 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)					X-COORD (METERS)
		494372.98	494567.08	494761.18	

3628507.56		0.09891	0.09602	0.09168
3628311.70		0.10791	0.09781	0.09755
3628115.84		0.11614	0.10640	0.10011
3627919.98		0.13351	0.12044	0.13083
3627724.12		0.16619	0.19102	0.13031
3627528.26		0.30366	0.28370	0.14269
3627332.40		0.33987	0.33465	0.19193
3627136.54		0.38886	0.37023	0.37351
3626940.68		0.45856	0.41576	0.37902
3626744.82		0.61325	0.57146	0.50701
3626548.96		0.74844	0.67254	0.60807
3626353.10		0.90426	0.80969	0.69359
3626157.24		1.10732	0.88646	0.77199
3625961.38		1.41002	1.16281	1.02353
3625765.52		1.54796	1.33882	1.15821
3625569.66		1.45200	1.35700	1.20696
3625373.80		1.20373	1.21898	1.20985
3625177.94		1.11381	1.04045	1.04023
3624982.08		1.06270	0.94166	0.88001
3624786.22		0.94917	0.89125	0.82795
3624590.36		0.83073	0.83561	0.78818

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 45

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: STCK6 ***
 INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	2.34247	492919.80
3625834.65	2.43229		
492955.07	3625845.55	2.57242	493069.86
3625832.73	2.64776		
493094.87	3625832.73	2.74463	493110.90
3625837.21	2.83247		
493151.95	3625834.01	2.94774	493166.70
3625837.86	2.96240		
493187.86	3625836.57	3.10619	493201.33
3625836.57	3.13549		
493240.44	3625836.57	3.07932	492881.32
3625908.40	2.67456		
492906.98	3625898.14	2.71070	492901.84
3625911.60	2.75817		
492928.14	3625914.81	2.84226	492933.91
3625898.14	2.78083		
492951.87	3625908.40	2.80805	492973.67
3625907.11	2.83497		
492993.55	3625914.17	2.84449	492996.11
3625897.50	2.77427		
493015.99	3625896.85	2.83187	493023.05
3625912.24	2.93817		
493044.21	3625907.11	3.01828	493066.66
3625907.76	3.13020		
493085.25	3625912.24	3.17526	493087.18
3625895.57	3.14510		
493108.98	3625911.60	3.37531	493112.19
3625897.50	3.29351		

493133.99	3625901.98	3.32905	492874.27
3625788.48	2.16376		
492894.15	3625789.12	2.24357	492910.18
3625790.40	2.29257		
492930.70	3625786.55	2.30453	492947.38
3625791.04	2.33950		
492963.41	3625787.84	2.34747	492982.65
3625787.84	2.35967		
492999.96	3625787.84	2.38158	493021.12
3625791.04	2.36481		
493036.52	3625789.12	2.38106	493055.75
3625789.76	2.43280		
493076.28	3625787.84	2.47776	493094.87
3625787.84	2.52120		
493112.83	3625788.48	2.59440	493129.50
3625787.19	2.64782		
493148.74	3625787.19	2.70859	493164.77
3625790.40	2.80374		
493184.65	3625789.12	2.82324	493201.97
3625791.04	2.90785		
493221.21	3625790.40	2.95033	493238.52
3625791.04	2.92201		
492780.00	3626415.01	16.36997	492778.72
3626388.08	13.31287		
492747.94	3626386.16	12.03425	492742.16
3626418.22	14.67566		
492699.20	3626422.71	13.82774	492697.92
3626391.93	11.30668		
492678.68	3626411.81	12.75138	492626.09
3626426.56	14.98627		
492606.85	3626435.54	16.73450	492599.16
3626405.39	13.15303		
492491.20	3626644.88	8.97368	492517.36
3626636.70	10.35063		
492521.18	3626603.45	13.97958	492521.72
3626582.19	16.24161		
492512.46	3626553.84	17.59851	492513.55
3626533.13	18.65067		
492501.01	3626506.42	18.00756	492490.65
3626485.70	17.51126		
492479.21	3626464.45	16.58367	492466.12
3626447.00	15.44195		
492447.59	3626418.66	13.66386	492431.78
3626430.65	13.47968		
492481.93	3626620.35	9.89794	492482.48
3626594.18	11.89538		
492479.21	3626572.92	13.35263	492477.02
3626546.76	14.72961		
492467.76	3626523.32	14.90733	492463.94
3626507.51	15.17660		

492450.86 3626492.79 14.76683 492427.42
 3626474.80 13.71013
 *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 46
 *** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data
 *** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK6 ***
 INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

*** CONC OF PM₁₀ IN MICROGRAMS/M³
 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
492402.89	3626460.63	12.37154	492803.94
3626616.07	37.28821		
492823.25	3626567.17	38.93049	492838.34
3626526.92	35.21575		
493039.78	3625834.45	2.56946	492743.19
3626628.92	46.51986		
492791.92	3626663.04	21.28970	492731.11
3626741.92	8.00881		
492774.75	3626728.05	7.39681	492674.05
3626738.96	9.30643		
492708.49	3626698.47	10.70793	492703.25
3626652.75	21.00949		
492723.78	3626582.16	59.05975	492761.18
3626553.82	72.97667		
493013.27	3625844.49	2.59055	

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 47
 *** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data
 *** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK7 ***

INCLUDING SOURCE(S): STCK7 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

- - - - -

3628507.56	0.31302	0.26939	0.28207	0.33796	0.35071
0.36728	0.36778	0.30242	0.39758		
3628311.70	0.33514	0.35864	0.30163	0.35209	0.39010
0.43328	0.43096	0.34294	0.41845		
3628115.84	0.35493	0.38670	0.42881	0.36867	0.45953
0.48509	0.50344	0.41928	0.46211		
3627919.98	0.33218	0.39827	0.44307	0.49599	0.45294
0.53519	0.58247	0.56644	0.49834		
3627724.12	0.32987	0.36422	0.45707	0.53378	0.62405
0.59065	0.61360	0.70859	0.49670		
3627528.26	0.39640	0.40533	0.42621	0.55437	0.65501
0.76959	0.73513	0.80444	0.75004		
3627332.40	0.47194	0.52776	0.50456	0.54324	0.61721
0.76757	0.95139	1.05828	1.19370		
3627136.54	0.58779	0.62878	0.67769	0.72019	0.70473
0.75618	0.98562	1.34708	1.37857		
3626940.68	0.57783	0.67049	0.81284	0.92743	1.01651
1.14658	1.09924	1.46009	2.36029		
3626744.82	0.67730	0.80995	0.88735	1.02435	1.15941
1.64304	2.27479	3.15293	3.00718		
3626548.96	0.88513	1.01587	1.07846	1.45835	1.63074
1.94471	3.00277	4.63005	8.13025		
3626353.10	0.98441	1.33580	1.52373	1.76090	2.25011
2.43588	3.99113	6.74249	11.87017		
3626157.24	1.02514	1.13732	1.66884	2.14977	2.86784
3.47692	4.50925	5.38377	5.00382		
3625961.38	1.17339	1.36031	1.67764	2.18145	2.94913
3.40748	3.14023	2.78719	2.61108		
3625765.52	1.38670	1.75988	1.86215	1.99516	2.18648
2.11329	1.95529	1.74780	2.01871		
3625569.66	1.43531	1.70732	2.05050	2.13072	1.92657
1.79744	1.34258	1.32013	1.44369		
3625373.80	1.41669	1.64107	1.41862	1.69714	1.58395
1.37823	1.22133	1.19783	1.34026		
3625177.94	1.25413	1.43259	1.39965	1.22674	1.22768
1.07683	1.08682	0.99675	1.15881		

3624982.08	1.01652	1.17841	1.11180	1.06141	0.95489
0.95275	0.92485	0.92157	1.07986		
3624786.22	1.00705	0.94453	0.96387	0.84053	0.85433
0.84213	0.84167	0.79966	0.90748		
3624590.36	0.86511	0.86124	0.75787	0.72518	0.72819
0.72842	0.78898	0.73357	0.83646		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 48

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK7 ***

INCLUDING SOURCE(S): STCK7 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	492626.08	492820.18	493014.28	493208.38	493402.48
493596.58	493790.68	493984.78	494178.88		

3628507.56	0.36464	0.31396	0.29083	0.29165	0.23492
0.21554	0.19024	0.23964	0.12538		
3628311.70	0.40169	0.35719	0.31710	0.28649	0.26964
0.20936	0.23415	0.29179	0.11214		
3628115.84	0.45016	0.38180	0.38671	0.33850	0.29868
0.26254	0.28456	0.28526	0.13001		
3627919.98	0.48984	0.45203	0.41420	0.38479	0.30145
0.34187	0.28984	0.25156	0.14305		
3627724.12	0.58971	0.62590	0.56036	0.44196	0.36676
0.37372	0.34059	0.32276	0.18144		
3627528.26	0.86777	0.68458	0.65215	0.48108	0.48314
0.40541	0.37617	0.38447	0.34365		
3627332.40	1.09631	0.88924	0.77963	0.65924	0.54289
0.49802	0.47036	0.46799	0.36961		
3627136.54	1.21606	1.08420	0.79890	0.68005	0.64766
0.66813	0.52351	0.45577	0.39818		
3626940.68	2.17609	1.87825	1.35580	1.14457	0.92521
0.75269	0.64718	0.52049	0.46723		
3626744.82	7.89616	5.25556	3.44086	1.96749	1.32745
0.88296	0.72135	0.61800	0.56764		

3626548.96	25.79066	34.91480	8.20538	4.05843	2.36059
1.64602	1.34440	1.06590	0.79881		
3626353.10	11.61240	13.48584	10.69098	8.39214	4.61116
2.62054	1.85294	1.40470	1.10627		
3626157.24	4.97278	5.62820	6.22725	5.05513	4.54128
3.88871	2.97214	2.00998	1.49549		
3625961.38	3.01007	3.23915	3.39135	3.70263	3.10427
3.05955	2.76505	2.41677	2.10690		
3625765.52	2.17518	2.25633	2.47706	2.67486	2.53146
2.25894	2.23542	2.16083	1.96029		
3625569.66	1.64370	1.64448	1.94751	1.93438	2.00480
2.00915	1.76513	1.72125	1.67797		
3625373.80	1.43757	1.43200	1.43896	1.48879	1.63379
1.57195	1.57978	1.39233	1.42040		
3625177.94	1.19877	1.20777	1.30644	1.31014	1.28813
1.51013	1.27327	1.30231	1.15923		
3624982.08	1.06912	1.03099	1.09650	1.10853	1.11368
1.24164	1.20550	1.04460	1.07177		
3624786.22	0.90287	0.91994	0.95110	1.02691	0.98314
0.97137	1.11522	1.01165	0.89856		
3624590.36	0.85535	0.82488	0.81059	0.91535	0.82717
0.82814	0.90102	0.91389	0.80775		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 49

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK7
 INCLUDING SOURCE(S): STCK7 ,

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

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

Y-COORD (METERS)	X-COORD (METERS)		
	494372.98	494567.08	494761.18

3628507.56	0.09574	0.09109	0.09234
3628311.70	0.10229	0.09740	0.09831
3628115.84	0.11349	0.10591	0.09690
3627919.98	0.13243	0.11670	0.13200
3627724.12	0.16375	0.20026	0.13320

3627528.26	0.30768	0.27885	0.14053
3627332.40	0.31734	0.32224	0.19172
3627136.54	0.36439	0.34195	0.34706
3626940.68	0.41529	0.37362	0.32701
3626744.82	0.51446	0.50655	0.45702
3626548.96	0.70291	0.61096	0.52165
3626353.10	0.97508	0.84282	0.73323
3626157.24	1.15906	0.95363	0.78004
3625961.38	1.59903	1.26300	1.06237
3625765.52	1.66982	1.57360	1.19959
3625569.66	1.65995	1.46805	1.29912
3625373.80	1.35171	1.35566	1.32295
3625177.94	1.19383	1.14019	1.13448
3624982.08	0.98980	1.01440	0.96166
3624786.22	0.97526	0.85884	0.90523
3624590.36	0.75362	0.82766	0.75434

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 50

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK7 ***
 INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

*** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

492883.25	3625830.80	2.61492	492919.80
3625834.65	2.69162		
492955.07	3625845.55	2.77852	493069.86
3625832.73	2.78194		
493094.87	3625832.73	2.81392	493110.90
3625837.21	2.88718		
493151.95	3625834.01	3.01008	493166.70
3625837.86	3.07164		
493187.86	3625836.57	3.01624	493201.33
3625836.57	3.02166		
493240.44	3625836.57	2.90542	492881.32
3625908.40	3.00154		

492906.98	3625898.14	2.98337	492901.84
3625911.60	3.04802		
492928.14	3625914.81	3.10229	492933.91
3625898.14	3.02331		
492951.87	3625908.40	3.09123	492973.67
3625907.11	3.06690		
492993.55	3625914.17	3.06875	492996.11
3625897.50	2.98805		
493015.99	3625896.85	3.00505	493023.05
3625912.24	3.09614		
493044.21	3625907.11	3.14137	493066.66
3625907.76	3.21732		
493085.25	3625912.24	3.34373	493087.18
3625895.57	3.21303		
493108.98	3625911.60	3.36212	493112.19
3625897.50	3.32755		
493133.99	3625901.98	3.36544	492874.27
3625788.48	2.41695		
492894.15	3625789.12	2.45319	492910.18
3625790.40	2.48261		
492930.70	3625786.55	2.50925	492947.38
3625791.04	2.53600		
492963.41	3625787.84	2.53388	492982.65
3625787.84	2.53585		
492999.96	3625787.84	2.51109	493021.12
3625791.04	2.57136		
493036.52	3625789.12	2.52989	493055.75
3625789.76	2.49632		
493076.28	3625787.84	2.55826	493094.87
3625787.84	2.58837		
493112.83	3625788.48	2.64406	493129.50
3625787.19	2.68783		
493148.74	3625787.19	2.73845	493164.77
3625790.40	2.81316		
493184.65	3625789.12	2.80508	493201.97
3625791.04	2.84277		
493221.21	3625790.40	2.78626	493238.52
3625791.04	2.77736		
492780.00	3626415.01	18.16334	492778.72
3626388.08	15.15609		
492747.94	3626386.16	14.08970	492742.16
3626418.22	16.46096		
492699.20	3626422.71	16.79495	492697.92
3626391.93	13.88947		
492678.68	3626411.81	16.23090	492626.09
3626426.56	21.97880		
492606.85	3626435.54	23.98330	492599.16
3626405.39	18.76589		
492491.20	3626644.88	7.70166	492517.36
3626636.70	8.51529		

492521.18	3626603.45	10.51891	492521.72
3626582.19	11.48973		
492512.46	3626553.84	12.61890	492513.55
3626533.13	14.23139		
492501.01	3626506.42	14.69896	492490.65
3626485.70	15.16046		
492479.21	3626464.45	15.07930	492466.12
3626447.00	14.56416		
492447.59	3626418.66	13.64608	492431.78
3626430.65	12.65166		
492481.93	3626620.35	8.21419	492482.48
3626594.18	9.09291		
492479.21	3626572.92	9.71621	492477.02
3626546.76	10.88156		
492467.76	3626523.32	11.54363	492463.94
3626507.51	12.13186		
492450.86	3626492.79	12.04827	492427.42
3626474.80	11.52558		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 51

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK7 ***
 INCLUDING SOURCE(S): STCK7 ,

*** *** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492402.89	3626460.63	10.48199	492803.94
3626616.07	21.06906		
492823.25	3626567.17	30.71274	492838.34
3626526.92	32.15622		
493039.78	3625834.45	2.74017	492743.19
3626628.92	25.62189		
492791.92	3626663.04	13.47567	492731.11
3626741.92	7.09119		
492774.75	3626728.05	7.18470	492674.05
3626738.96	8.30027		

492708.49	3626698.47	11.00333	492703.25
3626652.75	19.77453		
492723.78	3626582.16	72.58315	492761.18
3626553.82	75.57016		
493013.27	3625844.49	2.72964	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 52

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): STCK1 , STCK2
 , STCK3 , STCK4 , STCK5 ,
 STCK6 , STCK7 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)				X-COORD (METERS)	
	490879.18	491073.28	491267.38	491461.48	491655.58
491849.68	492043.78	492237.88	492431.98		

3628507.56	2.05802	2.02914	2.10711	2.38244	2.56225
2.71915	2.72024	2.43647	2.80256		
3628311.70	2.20179	2.36333	2.31964	2.51870	2.82900
3.13392	3.15013	2.82981	3.00667		
3628115.84	2.24853	2.51417	2.74474	2.74308	3.10954
3.52546	3.65073	3.39273	3.38690		
3627919.98	2.16966	2.51280	2.88355	3.22420	3.37946
3.90797	4.14838	4.25088	3.84110		
3627724.12	2.38840	2.48920	2.90249	3.44555	4.05748
4.27038	4.57692	5.27514	4.28308		
3627528.26	2.90542	2.96947	3.05379	3.58576	4.22947
4.98028	5.20629	5.90854	6.08102		
3627332.40	3.31614	3.61222	3.87021	4.02818	4.21192
4.90945	6.10473	7.57858	9.56237		
3627136.54	3.86244	4.22377	4.54587	4.98832	5.27005
5.45039	6.41947	8.75220	11.08112		
3626940.68	3.91387	4.38039	5.02691	5.85452	6.72687
7.75922	8.75332	10.60995	15.94471		

3626744.82		4.79927	5.70839	6.13107	7.04279	7.70247
10.98866		15.08779	21.87788	27.14894		
3626548.96		5.97360	6.89332	7.27658	9.50666	10.78658
12.88644		20.91539	33.71079	59.56216		
3626353.10		6.45477	8.41891	9.75837	11.13072	14.76039
16.35167		26.12338	39.49239	55.66336		
3626157.24		6.69802	8.06709	11.36456	14.10468	18.01846
21.67289		26.26202	28.97007	28.15199		
3625961.38		8.00720	9.15667	10.93613	13.88828	17.96832
19.51211		18.24598	17.39866	17.38658		
3625765.52		8.88511	11.43595	12.17753	12.52176	13.38397
13.31449		13.12446	12.97376	15.73109		
3625569.66		9.44516	11.13147	12.79959	13.16875	12.28168
12.13929		10.37025	11.58636	14.18349		
3625373.80		9.28477	10.30072	9.61762	11.20452	11.26087
11.04331		10.49941	11.53594	12.84439		
3625177.94		8.32246	9.76444	9.70754	9.20051	9.73946
9.56177		9.89881	8.78507	9.55008		
3624982.08		7.43063	8.49441	8.39422	8.32186	8.25197
8.22193		8.02100	7.33664	7.87431		
3624786.22		7.49212	7.16054	7.49209	7.26513	6.98314
6.93620		6.71578	6.17871	6.48883		
3624590.36		6.59844	6.61435	6.15476	5.98027	5.95756
5.86836		5.82546	5.69589	5.87210		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apol1\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 53

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

 *** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): STCK1 , STCK2
 , STCK3 , STCK4 , STCK5 ,
 STCK6 , STCK7 ,

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

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

Y-COORD (METERS)		X-COORD (METERS)				
		492626.08	492820.18	493014.28	493208.38	493402.48
493596.58		493790.68	493984.78	494178.88		

- - - - -
 - - - - -

3628507.56		2.76005	2.60580	2.31889	2.32750	2.04577
1.92348		1.80916	2.03179	1.04792		
3628311.70		3.05939	2.98194	2.57281	2.32265	2.32143
2.11994		2.13810	2.22867	0.91940		
3628115.84		3.47691	3.13558	3.07141	3.03804	2.68771
2.50529		2.48424	2.24665	1.03257		
3627919.98		3.77651	3.74523	3.41435	3.46102	3.02594
2.94889		2.65565	1.97272	1.14362		
3627724.12		4.49194	5.53519	4.86018	3.97518	3.42391
3.27897		2.97849	2.44222	1.49585		
3627528.26		6.56568	5.92077	5.73883	4.77569	4.31902
3.59107		3.20912	3.12179	2.49004		
3627332.40		8.47792	8.00329	7.15311	6.07301	5.00586
4.26395		3.82683	3.58502	2.99567		
3627136.54		10.92905	10.44678	7.94160	6.30003	5.28355
5.14236		4.43997	3.73312	3.12012		
3626940.68		20.23044	17.62932	13.30356	9.24197	7.47767
6.05175		5.13613	4.14361	3.75848		
3626744.82		58.19791	53.27514	31.03491	17.69851	11.85043
7.83053		6.24559	5.30957	4.67364		
3626548.96		110.93023	176.61394	73.18657	38.33285	21.27914
13.45195		10.63538	8.39480	6.44924		
3626353.10		59.63811	64.78106	63.73806	53.76267	34.08982
21.67528		15.09180	11.18985	8.48881		
3626157.24		28.33689	32.74866	37.29891	33.68482	29.94868
25.52434		20.36942	15.16517	11.67481		
3625961.38		20.38325	25.39677	31.90819	28.61737	22.97010
20.55801		18.54799	16.42159	14.16112		
3625765.52		19.49682	40.86955	59.82094	40.98457	22.83347
18.44202		16.43992	14.93147	13.83570		
3625569.66		17.54675	17.06459	20.88664	21.98673	20.27601
17.98878		15.09057	13.46168	12.07537		
3625373.80		11.94231	12.32425	11.85271	13.41648	13.92963
14.39529		13.84279	12.66016	11.68081		
3625177.94		9.06931	9.53158	10.01408	10.80550	11.57535
11.89556		11.47082	11.07712	10.63848		
3624982.08		7.84142	7.97762	8.29580	9.00197	9.42712
9.81827		10.06291	9.33305	9.02607		
3624786.22		6.53210	6.95593	7.07657	7.92611	7.95160
8.27032		8.63785	8.52148	7.89183		
3624590.36		6.03851	6.05644	6.11211	6.81671	6.71839
6.88891		7.35339	7.44858	7.16179		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , STCK4 , STCK5 ,
STCK6 , STCK7 ,

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

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

Y-COORD (METERS)			X-COORD (METERS)
	494372.98	494567.08	494761.18
3628507.56	0.73900	0.72781	0.72008
3628311.70	0.81973	0.77925	0.76507
3628115.84	0.90645	0.84301	0.81079
3627919.98	1.04082	0.98426	0.92250
3627724.12	1.27977	1.39579	0.98058
3627528.26	2.20950	2.06031	1.13394
3627332.40	2.59819	2.46094	1.47313
3627136.54	2.90563	2.70262	2.58936
3626940.68	3.32882	3.01771	2.81610
3626744.82	4.26174	4.01761	3.57250
3626548.96	5.49559	4.87083	4.32829
3626353.10	7.28045	6.25968	5.39005
3626157.24	9.13154	7.38329	6.14865
3625961.38	11.63709	9.45467	8.05693
3625765.52	12.25832	10.88039	9.14593
3625569.66	11.42837	10.56937	9.55612
3625373.80	10.47514	9.76850	9.39955
3625177.94	9.98046	9.14961	8.50323
3624982.08	9.04631	8.63650	7.89844
3624786.22	7.66858	7.71412	7.56967
3624590.36	6.75587	6.58065	6.64257

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 55
*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , STCK4 , STCK5 ,

STCK6 , STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
492883.25	3625830.80	43.36597	492919.80
3625834.65	48.22214		
492955.07	3625845.55	39.43104	493069.86
3625832.73	119.98398		
493094.87	3625832.73	84.47970	493110.90
3625837.21	59.25405		
493151.95	3625834.01	44.44722	493166.70
3625837.86	39.36146		
493187.86	3625836.57	35.70750	493201.33
3625836.57	33.77330		
493240.44	3625836.57	29.80427	492881.32
3625908.40	28.58025		
492906.98	3625898.14	30.21432	492901.84
3625911.60	29.71560		
492928.14	3625914.81	30.90450	492933.91
3625898.14	31.42812		
492951.87	3625908.40	31.84903	492973.67
3625907.11	32.84069		
492993.55	3625914.17	34.07401	492996.11
3625897.50	34.16387		
493015.99	3625896.85	38.70871	493023.05
3625912.24	37.10672		
493044.21	3625907.11	38.92161	493066.66
3625907.76	39.73173		
493085.25	3625912.24	36.46073	493087.18
3625895.57	41.73726		
493108.98	3625911.60	35.86754	493112.19
3625897.50	37.71076		
493133.99	3625901.98	35.00474	492874.27
3625788.48	51.47124		
492894.15	3625789.12	57.62876	492910.18
3625790.40	62.13392		
492930.70	3625786.55	64.82910	492947.38
3625791.04	68.39987		
492963.41	3625787.84	63.91739	492982.65
3625787.84	64.92459		
492999.96	3625787.84	72.07721	493021.12
3625791.04	92.54837		

493036.52	3625789.12	94.29970	493055.75
3625789.76	99.59775		
493076.28	3625787.84	100.80777	493094.87
3625787.84	91.71821		
493112.83	3625788.48	72.93126	493129.50
3625787.19	65.16918		
493148.74	3625787.19	56.71298	493164.77
3625790.40	50.90000		
493184.65	3625789.12	44.90830	493201.97
3625791.04	40.71930		
493221.21	3625790.40	36.79625	493238.52
3625791.04	33.63416		
492780.00	3626415.01	90.64901	492778.72
3626388.08	75.03786		
492747.94	3626386.16	72.28167	492742.16
3626418.22	89.86754		
492699.20	3626422.71	90.70165	492697.92
3626391.93	74.66582		
492678.68	3626411.81	84.15403	492626.09
3626426.56	91.64435		
492606.85	3626435.54	95.55270	492599.16
3626405.39	80.27155		
492491.20	3626644.88	65.86430	492517.36
3626636.70	75.04119		
492521.18	3626603.45	83.45553	492521.72
3626582.19	85.94885		
492512.46	3626553.84	85.12254	492513.55
3626533.13	86.50466		
492501.01	3626506.42	82.80753	492490.65
3626485.70	80.41256		
492479.21	3626464.45	77.17366	492466.12
3626447.00	72.96910		
492447.59	3626418.66	66.71012	492431.78
3626430.65	65.12467		
492481.93	3626620.35	67.71436	492482.48
3626594.18	71.77388		
492479.21	3626572.92	73.25785	492477.02
3626546.76	74.83542		
492467.76	3626523.32	73.15824	492463.94
3626507.51	73.19321		
492450.86	3626492.79	70.66811	492427.42
3626474.80	66.00739		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:49:32

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): STCK1 , STCK2
 , STCK3 , STCK4 , STCK5 ,
 STCK6 , STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

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

492402.89	3626460.63	60.61806	492803.94
3626616.07	130.44626		
492823.25	3626567.17	159.82363	492838.34
3626526.92	171.09639		
493039.78	3625834.45	171.72010	492743.19
3626628.92	141.16262		
492791.92	3626663.04	94.82163	492731.11
3626741.92	63.47448		
492774.75	3626728.05	57.84312	492674.05
3626738.96	69.49081		
492708.49	3626698.47	97.24784	492703.25
3626652.75	112.99793		
492723.78	3626582.16	217.23643	492761.18
3626553.82	234.29271		
493013.27	3625844.49	123.14196	

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 57
 *** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: STCK1
 INCLUDING SOURCE(S): STCK1 ,
 *** NETWORK ID: UCART1 ; NETWORK TYPE:
 GRIDCART ***

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

Y-COORD (METERS)				X-COORD (METERS)
	490879.18		491073.28	491267.38
491461.48		491655.58		

3628507.6	80.91345 (22092901)	76.96808 (22090601)	77.75016 (22080803)	
98.30347 (22072901)	76.05631 (20090706)			
3628311.7	93.52318 (21040201)	86.53376 (22092901)	90.93277 (22090601)	
82.78162 (22060102)	85.86039 (22072901)			
3628115.8	78.45076 (20101702)	99.67903 (22051505)	92.50870 (22092901)	
104.90962 (22090601)	108.34159 (22072901)			
3627920.0	100.40341 (21052423)	91.46467 (20101702)	107.34521 (22051505)	
99.61263 (22092901)	119.93722 (22090601)			
3627724.1	108.54185 (21081604)	94.17594 (20101707)	111.01349 (22122902)	
119.02912 (22032023)	114.10284 (21031403)			
3627528.3	113.97631 (20081623)	119.84563 (20051603)	114.00030 (21081604)	
133.51642 (21052423)	132.69705 (22032023)			
3627332.4	141.11306 (21012123)	146.36531 (22112722)	131.20294 (20081623)	
133.61175 (20051603)	122.08485 (21052423)			
3627136.5	161.49017 (22101701)	158.70082 (21040202)	169.25811 (22090602)	
175.72610 (21021622)	148.17588 (20081623)			
3626940.7	141.32547 (22111307)	134.79734 (20042623)	175.32989 (21092022)	
195.28726 (22101701)	205.26484 (21040202)			
3626744.8	161.21016 (22051301)	183.43157 (22051301)	183.23768 (21010801)	
203.30579 (21112924)	187.92797 (22050324)			
3626549.0	140.08212 (21101721)	154.40932 (21101721)	150.16404 (21101721)	
186.99260 (21101721)	185.79886 (21101721)			
3626353.1	118.84414 (21061202)	153.72998 (21112923)	170.19160 (21112923)	
168.50235 (20052123)	199.76020 (20103021)			
3626157.2	121.09591 (22043021)	130.47879 (20061223)	217.53898 (21041723)	
255.74799 (22040823)	267.70516 (20121705)			
3625961.4	165.35254 (22110522)	169.78810 (22123102)	199.51641 (22081101)	
220.20972 (22092801)	263.95981 (22050405)			
3625765.5	166.42236 (20021723)	209.87884 (22040423)	200.07042 (22050405)	
192.89896 (22051302)	214.48630 (20101401)			
3625569.7	172.26439 (22050405)	199.68755 (22051302)	217.02970 (20022424)	
264.22839 (22042324)	250.11685 (20061423)			
3625373.8	165.78748 (20071603)	188.34363 (20101401)	196.92747 (20051324)	
236.76640 (20061423)	258.13927 (20052324)			
3625177.9	155.02649 (20032902)	212.14227 (21031622)	219.50233 (22120502)	
213.56102 (20052324)	243.97262 (22062801)			
3624982.1	155.52598 (22050401)	210.41871 (20050604)	207.70874 (21100901)	
209.69572 (20080806)	220.62725 (21071905)			
3624786.2	200.07139 (20050604)	181.95326 (21100901)	183.80839 (20080806)	
217.91245 (21071905)	204.34827 (20050524)			
3624590.4	180.51218 (21100901)	164.57721 (21081303)	177.42480 (20080624)	
188.29599 (21052501)	214.72871 (20092303)			

*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 58

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	491849.68	492043.78	492237.88
492431.98	492626.08		

3628507.6	87.69760 (22102522)	89.87882 (22122822)	104.58898 (22080905)
83.86698 (22062022)	91.70347 (22062723)		
3628311.7	92.79581 (20050702)	106.50022 (22090703)	106.67212 (20111805)
88.33061 (22062022)	98.24514 (22062723)		
3628115.8	88.17515 (22102622)	102.86549 (22102522)	114.22006 (20111805)
111.77081 (22080905)	103.06897 (22062723)		
3627920.0	136.73599 (22072901)	100.25540 (20050702)	115.64130 (22090703)
125.87811 (22080905)	94.58969 (22062723)		
3627724.1	126.76538 (22090601)	112.85123 (22072901)	122.92659 (22102522)
110.87058 (20111805)	90.05202 (22062723)		
3627528.3	124.55731 (21031403)	119.03284 (20070601)	100.57403 (20050702)
125.32229 (20111805)	122.34314 (22080905)		
3627332.4	123.32224 (22032023)	130.16888 (21040201)	167.99157 (22072901)
163.02819 (22102522)	167.43377 (22080905)		
3627136.5	155.62391 (21081604)	153.37699 (22122902)	157.13221 (21040201)
171.12042 (22072901)	157.16147 (20111805)		
3626940.7	208.03593 (21021622)	197.47206 (20080201)	186.08461 (21052423)
214.23030 (21040201)	184.31652 (22102522)		
3626744.8	238.99954 (22111307)	312.85163 (21092022)	378.02642 (21040202)
308.96632 (20080201)	355.51477 (21040201)		
3626549.0	189.88274 (21101721)	262.12799 (20061101)	318.83669 (20061101)
369.30458 (20061101)	451.51076 (20010922)		
3626353.1	182.11270 (22043021)	313.98737 (21041723)	370.35513 (20121705)
475.81782 (20011918)	693.68159 (20120120)		
3626157.2	308.43248 (21030901)	320.83999 (20011918)	352.80982 (20101401)
429.18014 (20081404)	519.04824 (21020303)		
3625961.4	277.18948 (20071603)	322.72518 (20051324)	337.00356 (20052324)
384.90508 (21040801)	402.87495 (20112021)		

3625765.5		226.37152 (20041701)	270.82080 (20052324)	306.18924 (21071905)
328.83352	(20112421)	337.08821 (20121620)		
3625569.7		277.60103 (20052324)	230.18919 (21071905)	254.92569 (20092303)
292.25441	(21040224)	289.60557 (20021621)		
3625373.8		256.83159 (22062801)	251.85519 (21040801)	259.89107 (20112421)
302.88118	(20112021)	270.89019 (20021220)		
3625177.9		250.84472 (22100802)	271.79923 (21031722)	240.03877 (21040224)
263.23984	(20121620)	238.37096 (20070424)		
3624982.1		244.01074 (20060802)	227.63258 (22081704)	208.91754 (22052202)
215.74659	(21020924)	251.27063 (20090401)		
3624786.2		239.85456 (22081602)	225.51537 (20021622)	231.90154 (20112021)
212.67232	(20021621)	223.71534 (20090401)		
3624590.4		202.47476 (22081704)	209.76275 (20091424)	199.29679 (20070224)
212.94959	(20021220)	212.44667 (20101822)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 59

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	492820.18	493014.28	493208.38
493402.48		493596.58	

3628507.6		149.09289 (22050623)	144.72225 (20081922)	163.66901 (21100706)
145.08452	(22043024)	120.65531 (22050622)		
3628311.7		160.99771 (22050623)	141.40369 (20081922)	171.22088 (20031321)
164.30237	(21081221)	163.37245 (22082322)		
3628115.8		153.82615 (22050623)	181.32377 (20022901)	192.96603 (20022304)
185.36600	(21081221)	199.61341 (20101624)		
3627920.0		168.73412 (22050623)	213.47623 (20022901)	203.96319 (22061421)
174.78824	(22082322)	160.52232 (21080821)		
3627724.1		240.21207 (22090503)	280.03742 (20022901)	216.42885 (21081221)
246.44474	(20101624)	187.49346 (22081324)		
3627528.3		237.27096 (22090503)	274.14057 (21100706)	225.85913 (21081221)
214.03346	(20100320)	221.48513 (21040924)		

3627332.4	275.30839 (22090503)	307.53768 (20031321)	329.98746 (20101624)
293.68040 (22081324)	247.60441 (21052203)		
3627136.5	274.62407 (22090503)	239.59576 (21081221)	215.31268 (22081324)
244.99741 (21052203)	255.87884 (22091021)		
3626940.7	367.31684 (22103119)	375.11299 (20101624)	298.02597 (21052203)
265.90004 (20081923)	261.02519 (22051721)		
3626744.8	650.85219 (22090503)	511.95665 (21052203)	374.49930 (22051721)
370.04981 (21072203)	189.89454 (21053101)		
3626549.0	871.31910 (20121705)	686.44515 (21070923)	731.28793 (21070923)
537.21167 (21070923)	381.32198 (21070923)		
3626353.1	857.71690 (21060405)	606.19436 (21050422)	664.37975 (22082522)
528.30264 (20062523)	441.97050 (21081701)		
3626157.2	598.29314 (20072601)	447.22098 (22010819)	442.99806 (21050422)
416.78192 (21082924)	385.73177 (22082522)		
3625961.4	455.52314 (20072601)	333.56512 (22071905)	310.60226 (22050521)
323.78994 (21050422)	288.90038 (20021620)		
3625765.5	383.01317 (20072601)	241.99473 (21080902)	267.56887 (22010819)
262.10096 (22072124)	265.36025 (22010618)		
3625569.7	327.37015 (21101320)	174.10606 (22083006)	208.75488 (20061224)
236.18828 (20101621)	219.22947 (20041520)		
3625373.8	306.37441 (22082605)	136.03817 (22083006)	174.59383 (20121619)
202.25611 (22010819)	192.05978 (20080301)		
3625177.9	286.39620 (22082605)	129.74105 (22052124)	188.01306 (22071905)
165.52452 (21103122)	195.16359 (20101621)		
3624982.1	265.51118 (22082605)	124.34527 (20082203)	157.98288 (21080902)
152.10440 (20061224)	173.67492 (22010819)		
3624786.2	248.78467 (22082605)	174.33163 (22081103)	115.95396 (21080902)
137.98247 (20061224)	128.58222 (21103122)		
3624590.4	231.73396 (22082605)	186.00108 (22081103)	105.66852 (21030703)
137.57573 (22071905)	128.04660 (21103122)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 60

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)	493790.68	493984.78
		494178.88

494372.98

494567.08

3628507.6	150.77438 (21072221)	135.97373 (20100320)	129.61899 (22081324)
83.40724 (21122302)	78.51290 (21070722)		
3628311.7	139.73359 (21080821)	129.86335 (22081324)	98.60381 (21040924)
77.84977 (21070722)	74.91868 (21052203)		
3628115.8	162.44951 (20100320)	165.52016 (22081324)	88.92749 (21070722)
80.32223 (21052203)	67.03738 (22061501)		
3627920.0	218.91597 (22081324)	118.54828 (22051722)	97.10721 (21052203)
76.99230 (22091021)	84.42035 (22091021)		
3627724.1	177.03560 (21122302)	164.50924 (21052203)	119.95118 (22091021)
94.23509 (22082422)	131.21111 (20081923)		
3627528.3	210.57861 (21052203)	196.74325 (22091021)	126.22115 (20081923)
142.64359 (20081923)	128.65220 (20071323)		
3627332.4	233.43221 (22091021)	204.06695 (20081923)	178.79326 (20071323)
175.81438 (22051721)	135.37566 (21090103)		
3627136.5	219.00097 (20071323)	210.90656 (22051721)	166.77092 (22061422)
209.09152 (20081602)	210.88132 (21072203)		
3626940.7	252.47125 (20081602)	259.93679 (21072203)	179.34195 (21091523)
148.53206 (21032522)	152.91719 (20010717)		
3626744.8	185.56639 (21080324)	163.57999 (22072121)	153.66455 (21070821)
152.34497 (21070821)	166.01513 (21071321)		
3626549.0	377.30476 (21070923)	315.45303 (21070923)	235.50530 (21070923)
217.41915 (21070923)	203.95022 (21070923)		
3626353.1	393.96786 (21081523)	333.24826 (20070924)	252.18401 (21071921)
270.87680 (21080724)	262.95938 (21080724)		
3626157.2	354.11887 (21030520)	315.95925 (20042521)	290.40301 (20080121)
268.14984 (21061221)	244.66528 (20062522)		
3625961.4	298.32881 (20092021)	269.53998 (22082522)	273.80845 (20090703)
259.85224 (21110419)	227.99620 (20042521)		
3625765.5	251.58916 (22052522)	246.30408 (21082924)	227.18395 (22060122)
215.88508 (21021920)	229.83627 (20090703)		
3625569.7	224.79934 (22010618)	211.46273 (20071201)	206.11687 (20021620)
202.36360 (20082201)	194.10908 (21063023)		
3625373.8	202.80476 (22081224)	197.84113 (22010618)	182.05010 (20071523)
174.30197 (20072523)	185.18025 (21082924)		
3625177.9	177.95121 (22072124)	170.75077 (22092722)	176.69736 (22010618)
164.50449 (20081503)	164.59287 (22052522)		
3624982.1	169.94749 (22072201)	151.44274 (22040623)	152.74282 (22080901)
163.95789 (22010618)	156.61566 (22050422)		
3624786.2	163.50630 (21071002)	145.91008 (20080301)	139.67815 (20041520)
140.79908 (22080901)	154.22391 (22010618)		
3624590.4	153.87688 (22010819)	152.12823 (22072201)	135.24616 (22072124)
133.53827 (22081224)	133.77548 (22081701)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 14:49:32

PAGE 61

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	74.48462 (21052203)
3628311.7	69.23824 (22061501)
3628115.8	86.78178 (22091021)
3627920.0	74.85722 (20081923)
3627724.1	92.82909 (20071323)
3627528.3	113.93223 (22051721)
3627332.4	109.77440 (21110620)
3627136.5	138.81103 (21091523)
3626940.7	145.36123 (21080324)
3626744.8	164.79108 (21071321)
3626549.0	191.60713 (21070923)
3626353.1	237.96028 (21080724)
3626157.2	222.81988 (21081523)
3625961.4	225.22424 (20062523)
3625765.5	203.22646 (22060924)
3625569.7	187.42415 (20052322)
3625373.8	174.75269 (20092021)
3625177.9	165.44927 (21082923)
3624982.1	159.81426 (22052522)
3624786.2	152.31214 (22050422)
3624590.4	139.51641 (22010618)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 62

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	406.39610	(22081103)	492919.80
3625834.65	304.92976	(22081103)		
492955.07	3625845.55	224.06472	(22083006)	493069.86
3625832.73	263.88360	(20061224)		
493094.87	3625832.73	267.26500	(20061224)	493110.90
3625837.21	255.89482	(20061224)		
493151.95	3625834.01	260.85703	(22081002)	493166.70
3625837.86	276.00276	(22081002)		
493187.86	3625836.57	292.06084	(22010819)	493201.33
3625836.57	291.57470	(22010819)		
493240.44	3625836.57	291.97408	(20101621)	492881.32
3625908.40	428.43945	(22081103)		
492906.98	3625898.14	351.96674	(22081103)	492901.84
3625911.60	373.32153	(22081103)		
492928.14	3625914.81	235.23485	(22083006)	492933.91
3625898.14	233.11655	(22083006)		
492951.87	3625908.40	240.90293	(22083006)	492973.67
3625907.11	269.99136	(21080902)		
492993.55	3625914.17	309.77089	(21080902)	492996.11
3625897.50	301.24673	(21080902)		
493015.99	3625896.85	313.18532	(22071905)	493023.05
3625912.24	315.78971	(22071905)		
493044.21	3625907.11	289.05659	(20061224)	493066.66
3625907.76	295.75585	(20061224)		
493085.25	3625912.24	279.96839	(20061224)	493087.18
3625895.57	278.89196	(20061224)		
493108.98	3625911.60	275.84007	(22071602)	493112.19
3625897.50	272.08933	(22071602)		
493133.99	3625901.98	296.92085	(22081002)	492874.27
3625788.48	385.11805	(22081103)		
492894.15	3625789.12	388.20656	(22081103)	492910.18
3625790.40	346.05625	(22081103)		
492930.70	3625786.55	269.42156	(22081103)	492947.38
3625791.04	204.76307	(22083006)		
492963.41	3625787.84	210.01122	(22083006)	492982.65
3625787.84	209.93125	(21030703)		
492999.96	3625787.84	232.35175	(21080902)	493021.12
3625791.04	263.17517	(21080902)		

493036.52	3625789.12	273.12889	(22071905)	493055.75
3625789.76	272.56927	(22071905)		
493076.28	3625787.84	252.84369	(21080902)	493094.87
3625787.84	256.83438	(20061224)		
493112.83	3625788.48	255.18109	(20061224)	493129.50
3625787.19	243.61911	(20061224)		
493148.74	3625787.19	242.44133	(22071602)	493164.77
3625790.40	242.69353	(22081002)		
493184.65	3625789.12	262.85764	(22081002)	493201.97
3625791.04	277.58472	(22010819)		
493221.21	3625790.40	281.94041	(22010819)	493238.52
3625791.04	272.03101	(22010819)		
492780.00	3626415.01	954.49049	(20112107)	492778.72
3626388.08	905.73466	(21040224)		
492747.94	3626386.16	883.55428	(21020303)	492742.16
3626418.22	933.22617	(22040504)		
492699.20	3626422.71	888.73920	(22120301)	492697.92
3626391.93	825.74395	(20081404)		
492678.68	3626411.81	826.91519	(22120301)	492626.09
3626426.56	693.34765	(20112420)		
492606.85	3626435.54	674.31876	(20102405)	492599.16
3626405.39	649.14222	(20112420)		
492491.20	3626644.88	556.14032	(21040202)	492517.36
3626636.70	568.30656	(21040202)		
492521.18	3626603.45	522.70761	(20110422)	492521.72
3626582.19	523.04579	(20110422)		
492512.46	3626553.84	432.48435	(20061101)	492513.55
3626533.13	433.93896	(20010922)		
492501.01	3626506.42	419.28236	(22111321)	492490.65
3626485.70	417.40337	(22043021)		
492479.21	3626464.45	498.73867	(21041723)	492466.12
3626447.00	527.56113	(21041723)		
492447.59	3626418.66	507.17471	(20121705)	492431.78
3626430.65	495.81839	(21041723)		
492481.93	3626620.35	481.84689	(20101220)	492482.48
3626594.18	509.65338	(20110422)		
492479.21	3626572.92	460.24931	(22040523)	492477.02
3626546.76	423.63243	(20061101)		
492467.76	3626523.32	396.73870	(20010922)	492463.94
3626507.51	400.07849	(21112923)		
492450.86	3626492.79	393.01161	(22111321)	492427.42
3626474.80	386.52932	(22043021)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK1 ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

 ** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC	CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)
492402.89	3626460.63	364.86565	(21041723)	492803.94
3626616.07	590.55394	(22090503)		
492823.25	3626567.17	854.99438	(22090503)	492838.34
3626526.92	691.28217	(22012923)		
493039.78	3625834.45	287.65154	(22071905)	492743.19
3626628.92	185.70348	(20070601)		
492791.92	3626663.04	332.36895	(22103119)	492731.11
3626741.92	227.73112	(22072901)		
492774.75	3626728.05	275.85984	(22090703)	492674.05
3626738.96	428.51378	(22072901)		
492708.49	3626698.47	349.33280	(22090601)	492703.25
3626652.75	306.72285	(21081301)		
492723.78	3626582.16	544.70383	(21020821)	492761.18
3626553.82	682.84024	(20121705)		
493013.27	3625844.49	284.63554	(21080902)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 64
 *** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***
 INCLUDING SOURCE(S): STCK2 ,

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

 ** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD (METERS)	X-COORD (METERS)
490879.18	491073.28
	491267.38

491461.48

491655.58

3628507.6	66.90792 (21052422)	76.59530 (22072901)	80.39053 (22062102)
92.71990 (20090706)	71.71806 (20122121)		
3628311.7	78.68910 (22090601)	76.22175 (22080803)	98.28531 (22072901)
90.27599 (22102622)	102.66074 (20050702)		
3628115.8	78.29932 (21092903)	96.13341 (22090601)	82.39374 (22080803)
109.85047 (22062102)	105.31989 (20090706)		
3627920.0	87.97643 (21011618)	89.53363 (21092903)	111.21111 (22090601)
93.45057 (22072901)	112.31635 (22062102)		
3627724.1	81.61046 (22051505)	100.49066 (21011618)	100.22385 (21092903)
120.02507 (22090601)	128.64269 (22072901)		
3627528.3	92.33916 (20101702)	94.23633 (22032023)	113.11721 (21011618)
110.98122 (21092903)	119.91568 (21052422)		
3627332.4	97.82607 (21052423)	108.35520 (22122902)	110.10362 (22032023)
125.40863 (21011618)	116.68072 (21092903)		
3627136.5	106.77087 (22042905)	109.00405 (22120522)	123.52937 (22122902)
119.40678 (22032023)	142.04705 (21040201)		
3626940.7	122.46634 (20081623)	126.50384 (22090223)	121.35794 (22092824)
136.04704 (21052423)	121.19434 (20101805)		
3626744.8	119.74187 (21021622)	131.75145 (20080201)	145.63885 (20081623)
144.55666 (21081604)	138.65378 (22120522)		
3626549.0	118.48136 (22011221)	135.52621 (21093023)	137.47307 (21012123)
160.92037 (20080201)	171.56133 (20081623)		
3626353.1	133.42504 (21022323)	155.04604 (22042401)	157.09212 (22101701)
163.10784 (21040202)	189.80939 (22090602)		
3626157.2	131.48006 (20080123)	145.43354 (20080123)	167.07953 (22111307)
186.13410 (20042623)	210.58134 (21022323)		
3625961.4	137.38186 (20101523)	148.11161 (20101523)	153.94101 (20101523)
181.69976 (22061923)	217.55206 (22061923)		
3625765.5	146.22031 (22081005)	168.27370 (22081005)	181.00284 (22081005)
193.63289 (20051622)	215.30710 (20051622)		
3625569.7	129.58465 (20121324)	151.30952 (20070603)	174.66250 (20052123)
193.37028 (22042923)	198.23591 (20103021)		
3625373.8	133.99191 (21050502)	145.28450 (20103020)	159.90038 (20021206)
193.06097 (20052024)	207.99473 (22092004)		
3625177.9	130.90907 (22110522)	155.77378 (22092004)	174.15116 (20041622)
177.83015 (22092801)	217.02612 (22050405)		
3624982.1	132.60117 (20021723)	150.97138 (22092801)	173.92268 (22050405)
184.17318 (20051323)	200.13851 (20041521)		
3624786.2	147.33701 (22050405)	148.63818 (20051323)	160.31311 (20122604)
188.39190 (21040222)	195.64646 (21031622)		
3624590.4	129.81839 (21030301)	148.78542 (20012122)	160.88992 (21110822)
165.64915 (21031622)	189.90328 (20050604)		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 *** ***

*** 14:49:32

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	491849.68	492043.78	492237.88
492431.98	492626.08		

3628507.6		113.37040 (22090703)	100.02872 (20111805)	81.76057 (21030323)
112.62120	(21081223)	104.82793 (21071322)		
3628311.7		106.85175 (22090703)	113.31212 (22122822)	117.85092 (20101705)
128.02146	(21081223)	117.55465 (21071322)		
3628115.8		88.46856 (20122121)	125.27390 (22090703)	139.09003 (20111805)
116.68884	(22080905)	120.53108 (21071322)		
3627920.0		124.85846 (20050702)	133.24420 (22090703)	126.03614 (20111805)
131.90970	(22080905)	110.27778 (22062022)		
3627724.1		118.39118 (22102622)	119.31571 (22102522)	146.22499 (22122822)
131.71965	(20101705)	126.17571 (22062022)		
3627528.3		143.28216 (22072901)	140.37110 (20090706)	160.72007 (22090703)
177.10101	(20111805)	182.14711 (21081223)		
3627332.4		123.64680 (22080803)	138.77074 (22062102)	161.59882 (22102522)
174.70076	(22122822)	186.56028 (22080905)		
3627136.5		128.33215 (22090601)	144.51202 (22072901)	157.67106 (20090706)
193.27595	(22090703)	171.23870 (22080905)		
3626940.7		164.77559 (21040201)	161.23293 (22090601)	187.98686 (22072901)
194.83970	(22102522)	218.26215 (20111805)		
3626744.8		160.37197 (22122902)	207.56637 (21040201)	217.80031 (22090601)
179.51991	(22062102)	248.67294 (22090703)		
3626549.0		175.69440 (21081604)	225.18176 (21052423)	255.20319 (21040201)
235.91513	(22090601)	257.47501 (22102522)		
3626353.1		175.30069 (20080201)	236.30447 (22090223)	236.15415 (22120522)
321.90538	(21040201)	355.85100 (22072901)		
3626157.2		225.76610 (22110520)	239.28696 (21040202)	279.11759 (21021622)
338.51023	(22090223)	396.37499 (22032023)		
3625961.4		237.77427 (22051301)	244.79818 (21010801)	275.05638 (20080123)
326.08544	(21092022)	473.14183 (21040202)		
3625765.5		234.97415 (20051622)	266.24676 (22090201)	288.43975 (22090201)
357.52144	(20070603)	453.39270 (20103021)		

3625569.7	219.46225 (20103020)	226.20578 (20021206)	261.21640 (22081101)
310.51047 (20011918)	388.10376 (20051324)		
3625373.8	232.75195 (20041622)	237.75336 (20011918)	248.38871 (20041521)
316.64108 (21031622)	347.17943 (21071905)		
3625177.9	221.66966 (22051302)	251.32443 (21040222)	225.96688 (22120502)
309.49382 (22062801)	332.30302 (21031722)		
3624982.1	229.84575 (21110822)	240.67063 (20050604)	242.64616 (21081303)
298.79655 (21040801)	344.08691 (20021622)		
3624786.2	219.86933 (20050604)	242.61767 (21081303)	230.19985 (22100802)
266.75780 (22081602)	266.72575 (20112021)		
3624590.4	217.34873 (21081303)	223.84234 (21071905)	249.61986 (20060802)
268.21734 (20021622)	267.94605 (22103002)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 66

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***
INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	492820.18	493014.28	493208.38
493402.48	493596.58		

3628507.6	114.34319 (22103119)	101.26114 (22050623)	106.74687 (20081922)
102.01123 (20022901)	122.67233 (20031321)		
3628311.7	113.35002 (22103119)	111.32071 (22050623)	117.11664 (20081922)
125.38188 (21100706)	127.73371 (20022304)		
3628115.8	116.80204 (22062723)	124.73047 (22050623)	152.44033 (20081922)
162.72534 (21100706)	144.72663 (22061421)		
3627920.0	144.52506 (22062723)	134.77489 (22050623)	166.20734 (20081922)
183.55620 (21100706)	164.48914 (22061421)		
3627724.1	198.60856 (22062723)	172.23814 (22050623)	169.01346 (20081922)
160.28319 (20031321)	171.34543 (22043024)		
3627528.3	185.84182 (22062723)	179.11831 (22050623)	192.67960 (20022901)
186.36863 (20031321)	188.97126 (21081221)		
3627332.4	186.49656 (22062723)	194.10874 (22050623)	225.56794 (20022901)
210.22116 (22061421)	161.89893 (21081221)		

3627136.5	167.70290 (21071322)	188.79162 (22050623)	204.14413 (20022901)
169.81763 (22043024)	239.10601 (20101624)		
3626940.7	194.29445 (22062022)	210.67275 (22050623)	219.21010 (21100706)
207.48052 (21081221)	162.71417 (21080821)		
3626744.8	245.17817 (22062022)	247.33471 (22050623)	245.90589 (20031321)
251.78988 (20101624)	183.39224 (22081324)		
3626549.0	326.81322 (22080905)	297.86217 (22090503)	290.49308 (22061421)
230.22019 (20100320)	234.10643 (21122302)		
3626353.1	420.90369 (20111805)	376.57498 (22090503)	371.57891 (21081221)
346.80221 (22081324)	338.00402 (22091021)		
3626157.2	512.16625 (22102522)	601.89866 (22090503)	486.63279 (22081324)
447.10688 (22091021)	321.00310 (22051721)		
3625961.4	675.26301 (21052423)	1033.17368 (20022901)	761.99634 (20081923)
589.90455 (21072203)	399.20460 (21110518)		
3625765.5	785.99574 (22092801)	1127.28280 (22092602)	911.30131 (21020719)
649.64150 (21083001)	507.99963 (22091223)		
3625569.7	539.86114 (21040801)	797.75885 (22081103)	572.87576 (22100904)
490.70227 (22082502)	481.18539 (21070803)		
3625373.8	481.71482 (21040224)	452.23647 (21101320)	448.01163 (22070601)
399.95994 (22080701)	360.91586 (20071003)		
3625177.9	379.34351 (20121620)	440.74659 (21101320)	405.28522 (21061223)
406.56833 (22072201)	379.77281 (20051621)		
3624982.1	365.48180 (20021621)	406.10578 (22082605)	386.98895 (20031421)
349.82154 (21080802)	334.28974 (21092804)		
3624786.2	321.67435 (20021220)	372.67483 (22082605)	361.06492 (21030703)
329.81186 (21013120)	330.66681 (22080705)		
3624590.4	269.80422 (20070424)	344.15518 (22082605)	345.66698 (22090723)
314.54604 (21061223)	295.11890 (22081002)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 67

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	493790.68	493984.78	494178.88
494372.98	494567.08		

```

- - - - -
3628507.6 | 112.20434 (22043024) 117.90569 (21081221) 92.24059 (22082322)
42.16724 (22091722) 60.51297 (20100320)
3628311.7 | 132.23565 (22043024) 97.96706 (22050622) 95.33011 (21072221)
71.00841 (21080821) 60.96345 (20100320)
3628115.8 | 156.37387 (21081221) 131.05950 (22082322) 57.68485 (22091722)
72.24491 (20100320) 84.53378 (22081324)
3627920.0 | 147.92550 (21081221) 161.91790 (20101624) 92.90325 (21080821)
70.89413 (21081621) 88.68219 (21040924)
3627724.1 | 144.24099 (22082322) 115.40099 (21072221) 116.31844 (20100320)
124.49028 (22081324) 112.21874 (22051722)
3627528.3 | 197.18922 (20101624) 149.28954 (20100320) 190.15256 (22081324)
162.58826 (21122302) 164.28398 (21052203)
3627332.4 | 144.90950 (21080821) 163.63386 (22081324) 197.81930 (21122302)
181.21145 (21052203) 157.38612 (22061501)
3627136.5 | 195.06883 (20100320) 201.89083 (21040924) 185.77412 (21052203)
182.88071 (22061501) 227.78161 (22091021)
3626940.7 | 250.74652 (22081324) 177.45632 (21070722) 200.72176 (22061501)
223.10802 (22091021) 167.10432 (20081923)
3626744.8 | 174.14419 (21070722) 193.86745 (22061501) 162.25514 (22091021)
194.22297 (20081923) 180.04674 (20071323)
3626549.0 | 253.10692 (22061501) 198.17922 (22121802) 192.88260 (20071323)
181.55150 (22051721) 162.06621 (21090103)
3626353.1 | 308.84775 (20081923) 254.97126 (22051721) 188.83915 (21090103)
264.59196 (20081602) 256.87579 (21072203)
3626157.2 | 334.15102 (20081602) 355.02755 (21072203) 229.22497 (22102102)
221.56300 (21012119) 246.37366 (21080324)
3625961.4 | 307.41585 (20062123) 346.10435 (20062123) 306.56561 (20062123)
260.15646 (20031703) 279.86819 (20031703)
3625765.5 | 440.21176 (21020619) 406.51706 (21020619) 350.96543 (21020619)
319.10678 (22091222) 289.08168 (22091222)
3625569.7 | 429.46386 (21020719) 405.66196 (21091323) 356.23653 (21040722)
312.86029 (21040722) 314.66447 (20070924)
3625373.8 | 370.90731 (20110219) 361.84042 (21052723) 347.77963 (21072102)
318.73805 (21020719) 280.79754 (20041206)
3625177.9 | 332.62352 (20042722) 347.51245 (22082502) 322.44517 (21063023)
309.09947 (21052723) 284.04066 (21072222)
3624982.1 | 341.07234 (20051621) 302.49913 (22040123) 298.40160 (22082523)
294.62226 (22073105) 282.91843 (21063023)
3624786.2 | 292.79776 (20041404) 301.77334 (20110221) 252.39430 (22040123)
219.63858 (20071003) 251.90973 (22082502)
3624590.4 | 281.92112 (22072201) 234.31991 (21111920) 272.56727 (20110221)
224.72142 (20050501) 224.49973 (20071003)

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 14:49:32

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)

3628507.6	54.48585 (21081621)
3628311.7	94.24744 (22081324)
3628115.8	83.06121 (21122302)
3627920.0	69.23383 (22051722)
3627724.1	104.51280 (21052203)
3627528.3	104.18927 (22061501)
3627332.4	169.54165 (22091021)
3627136.5	129.85961 (22121802)
3626940.7	152.65218 (20071323)
3626744.8	178.02467 (22051721)
3626549.0	164.78398 (21110620)
3626353.1	187.48713 (22102102)
3626157.2	210.26279 (22072121)
3625961.4	240.34111 (20031703)
3625765.5	248.17617 (22091222)
3625569.7	231.62228 (22091124)
3625373.8	291.89851 (21091323)
3625177.9	272.19812 (20092322)
3624982.1	264.17214 (21052723)
3624786.2	220.17046 (20092021)
3624590.4	233.23112 (22041522)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 14:49:32

PAGE 69

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	983.49207	(22081005)	492919.80
3625834.65	909.70878	(21061601)		
492955.07	3625845.55	655.95337	(22092802)	493069.86
3625832.73	1714.13040	(22011423)		
493094.87	3625832.73	1540.70684	(21092324)	493110.90
3625837.21	1486.73131	(20101806)		
493151.95	3625834.01	1287.50854	(21092324)	493166.70
3625837.86	1226.39395	(20101806)		
493187.86	3625836.57	1141.24524	(20101806)	493201.33
3625836.57	1092.11496	(20101806)		
493240.44	3625836.57	977.09868	(20090820)	492881.32
3625908.40	812.43261	(21081604)		
492906.98	3625898.14	800.46915	(21081604)	492901.84
3625911.60	841.35904	(22032023)		
492928.14	3625914.81	823.02152	(21040201)	492933.91
3625898.14	856.76730	(21040201)		
492951.87	3625908.40	917.42059	(22102522)	492973.67
3625907.11	933.12857	(20111805)		
492993.55	3625914.17	1002.10337	(22090503)	492996.11
3625897.50	773.43375	(20011819)		
493015.99	3625896.85	820.65320	(22010702)	493023.05
3625912.24	1129.22407	(21081221)		
493044.21	3625907.11	1391.35349	(22010702)	493066.66
3625907.76	1242.31372	(22010702)		
493085.25	3625912.24	934.19048	(21052203)	493087.18
3625895.57	1128.14501	(20081923)		
493108.98	3625911.60	1009.23776	(20081923)	493112.19
3625897.50	1035.05140	(20071323)		
493133.99	3625901.98	954.08958	(20071323)	492874.27
3625788.48	893.28753	(20011918)		
492894.15	3625789.12	946.21878	(20011918)	492910.18
3625790.40	915.21201	(20011918)		
492930.70	3625786.55	978.79109	(22120301)	492947.38
3625791.04	1098.27876	(22120301)		
492963.41	3625787.84	934.07074	(20021622)	492982.65
3625787.84	925.72537	(22012923)		
492999.96	3625787.84	932.59716	(22012923)	493021.12
3625791.04	1128.50582	(22092602)		
493036.52	3625789.12	1167.91826	(21081022)	493055.75
3625789.76	1209.69491	(22051422)		

493076.28	3625787.84	1293.32340	(21072003)	493094.87
3625787.84	1442.81746	(22082504)		
493112.83	3625788.48	1234.76646	(20082306)	493129.50
3625787.19	1145.40962	(22092902)		
493148.74	3625787.19	1075.30479	(22092902)	493164.77
3625790.40	1072.80501	(20082305)		
493184.65	3625789.12	1014.88709	(20082305)	493201.97
3625791.04	1001.54677	(21040722)		
493221.21	3625790.40	964.75544	(21040722)	493238.52
3625791.04	920.52934	(21083001)		
492780.00	3626415.01	341.54217	(20111805)	492778.72
3626388.08	360.79881	(22090703)		
492747.94	3626386.16	376.97944	(22090703)	492742.16
3626418.22	370.54090	(22090703)		
492699.20	3626422.71	352.60494	(22102522)	492697.92
3626391.93	335.78407	(22102522)		
492678.68	3626411.81	321.83932	(20050702)	492626.09
3626426.56	302.33161	(22062102)		
492606.85	3626435.54	315.78330	(22072901)	492599.16
3626405.39	344.03950	(22072901)		
492491.20	3626644.88	221.71507	(22062102)	492517.36
3626636.70	216.71334	(20090706)		
492521.18	3626603.45	226.68829	(22062102)	492521.72
3626582.19	247.61868	(22062102)		
492512.46	3626553.84	275.87525	(22072901)	492513.55
3626533.13	278.92031	(22072901)		
492501.01	3626506.42	251.65507	(22072901)	492490.65
3626485.70	258.27195	(22090601)		
492479.21	3626464.45	284.81019	(22090601)	492466.12
3626447.00	276.00685	(22090601)		
492447.59	3626418.66	273.65090	(22092901)	492431.78
3626430.65	271.02464	(22092901)		
492481.93	3626620.35	248.39884	(22072901)	492482.48
3626594.18	266.63732	(22072901)		
492479.21	3626572.92	267.98009	(22072901)	492477.02
3626546.76	251.82746	(22072901)		
492467.76	3626523.32	237.18563	(22090601)	492463.94
3626507.51	261.21807	(22090601)		
492450.86	3626492.79	274.91848	(22090601)	492427.42
3626474.80	246.43029	(22090601)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 14:49:32

PAGE 70

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	264.84613	(22092901)	492803.94
3626616.07	309.26215	(22080905)		
492823.25	3626567.17	316.05286	(22080905)	492838.34
3626526.92	319.65092	(22080905)		
493039.78	3625834.45	1506.87379	(22011423)	492743.19
3626628.92	313.68403	(20111805)		
492791.92	3626663.04	297.22195	(22080905)	492731.11
3626741.92	243.51013	(20111805)		
492774.75	3626728.05	278.69353	(22080905)	492674.05
3626738.96	265.67647	(20111805)		
492708.49	3626698.47	297.04780	(20111805)	492703.25
3626652.75	286.58666	(20111805)		
492723.78	3626582.16	295.29151	(20111805)	492761.18
3626553.82	335.58573	(20111805)		
493013.27	3625844.49	646.68587	(22090503)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 71

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
490879.18	491073.28
491461.48	491267.38
491655.58	

```

- - - - -
3628507.6 |      67.67195 (21011618)      73.04657 (21031402)      74.48066 (22090601)
      89.65622 (22072901)      74.13559 (20090706)
3628311.7 |      80.37477 (22051505)      72.64175 (21011618)      76.46415 (22011702)
      72.73107 (22090601)      90.92627 (22072901)
3628115.8 |      72.63667 (22122902)      84.33406 (22032023)      80.82017 (21040201)
      81.83347 (22011702)      88.04666 (20070601)
3627920.0 |      74.50813 (20101707)      84.47141 (22122902)      91.23854 (22032023)
      91.12611 (21040201)      101.25925 (22090601)
3627724.1 |      87.41297 (22090223)      82.41479 (22120202)      95.07982 (21052423)
      98.23495 (22032023)      110.96449 (21040201)
3627528.3 |      106.93982 (20080201)      96.30275 (20081623)      104.13248 (21081604)
      101.43238 (21052423)      105.29324 (20101805)
3627332.4 |      117.93780 (21020722)      118.83473 (21021622)      124.48511 (20080201)
      113.98001 (22090223)      115.40680 (21081604)
3627136.5 |      122.04825 (22110520)      131.23035 (22101701)      130.90237 (21093023)
      133.70634 (21020722)      134.87117 (20080201)
3626940.7 |      115.70007 (22091605)      118.28717 (22111307)      120.68588 (22102523)
      140.99080 (21092022)      156.58413 (22101701)
3626744.8 |      118.75097 (20101523)      136.08263 (22040523)      143.55464 (22040523)
      158.32569 (22051301)      154.17968 (21010801)
3626549.0 |      129.22590 (22081005)      139.29092 (22081005)      132.34791 (22081005)
      158.38952 (20051622)      158.05139 (22090201)
3626353.1 |      112.35824 (20070603)      153.43894 (20070603)      163.38878 (20052123)
      159.55623 (22042923)      195.66085 (21050502)
3626157.2 |      113.53124 (21050502)      130.45290 (20040305)      167.92265 (20052024)
      171.79410 (21113004)      199.56049 (22012620)
3625961.4 |      109.10236 (21113004)      129.94601 (22081101)      135.14251 (22092801)
      162.45587 (22050405)      195.13394 (22051302)
3625765.5 |      116.96642 (22092801)      153.21203 (22050405)      146.95868 (20051323)
      137.05159 (20101401)      130.40170 (20051324)
3625569.7 |      129.92301 (20051323)      136.74244 (20122604)      164.37522 (21040222)
      139.18617 (21031622)      146.71819 (20050604)
3625373.8 |      121.56113 (20101401)      121.33203 (20051324)      111.29349 (22050401)
      136.31474 (20052324)      147.33468 (21081303)
3625177.9 |      94.86016 (21071703)      116.26892 (20061423)      128.99400 (20052324)
      131.37375 (21081303)      144.10893 (21071905)
3624982.1 |      93.82777 (22120502)      123.43989 (20052324)      129.24347 (21081303)
      130.95394 (20110120)      141.50168 (21052501)
3624786.2 |      116.63406 (20052324)      116.29075 (21081303)      121.66435 (22040601)
      133.12042 (21052501)      150.13424 (20092303)
3624590.4 |      114.55529 (21081303)      115.10411 (22040601)      108.76584 (20021623)
      142.70739 (20050524)      146.02942 (22081602)

```

```

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 14:49:32

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

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

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

**

Y-COORD		X-COORD (METERS)
(METERS)		
492431.98	491849.68	492043.78
	492626.08	492237.88

3628507.6	91.16760 (22102522)	90.49965 (22122822)	104.69010 (22080905)
93.78615 (22062022)	98.74819 (22062723)		
3628311.7	99.04533 (22101422)	108.22512 (22090703)	106.96800 (20111805)
100.22861 (22062022)	108.86875 (22062723)		
3628115.8	88.42295 (20063001)	107.14120 (22102522)	116.04129 (20111805)
104.92139 (22080905)	117.31494 (22062723)		
3627920.0	118.70466 (22072901)	106.43392 (22101422)	118.35362 (22090703)
124.43183 (22080905)	110.80848 (22062723)		
3627724.1	116.58160 (22090601)	112.48522 (22072901)	127.82604 (22102522)
111.05478 (20111805)	107.36823 (22062723)		
3627528.3	122.87661 (21040201)	111.85138 (22090601)	103.08491 (22101422)
127.49329 (20111805)	132.62048 (22062022)		
3627332.4	109.48386 (21052423)	121.84642 (21040201)	129.62925 (20070601)
168.83208 (22102522)	162.90517 (22080905)		
3627136.5	121.99478 (22090223)	120.65353 (21052423)	144.78160 (21040201)
155.60888 (22072901)	160.75304 (20111805)		
3626940.7	162.53227 (21093023)	169.84166 (20061501)	159.59922 (22090223)
180.50210 (21040201)	197.07013 (22102522)		
3626744.8	202.14804 (21112924)	218.11680 (21010724)	271.97564 (21092022)
266.49557 (22042601)	234.83350 (20061501)		
3626549.0	158.80268 (22090201)	220.15280 (21081401)	281.16082 (20010922)
332.69928 (21112923)	409.32159 (20011918)		
3626353.1	185.93000 (20040305)	242.02612 (22081101)	309.40576 (20011918)
360.51919 (20101401)	380.29607 (20060802)		
3626157.2	220.24728 (20011918)	226.83175 (21051102)	222.99900 (20061423)
270.66758 (21071905)	319.34853 (20112021)		
3625961.4	210.33791 (21040222)	171.09420 (20050604)	187.57708 (22062801)
238.83222 (22081602)	213.31608 (20121620)		
3625765.5	143.35407 (20050604)	155.70456 (22062801)	190.12343 (20060802)
208.89266 (20112521)	158.44976 (21041524)		
3625569.7	151.69223 (22062801)	148.39719 (21052501)	165.13851 (21032821)
181.09863 (22103002)	138.45066 (20070424)		

3625373.8	147.79260 (21071905)	174.14790 (20092303)	173.69749 (20112521)
169.31953 (20121620)	141.64846 (20090401)		
3625177.9	167.21436 (20050524)	160.02165 (22081704)	145.13058 (21033023)
128.06510 (20021621)	130.09068 (21040804)		
3624982.1	158.08861 (22081602)	148.44278 (20112521)	150.79203 (22103002)
117.89608 (20101821)	127.62457 (20101822)		
3624786.2	146.53700 (22081704)	141.44152 (20091424)	134.68484 (20121620)
114.93706 (20021220)	121.21167 (20101822)		
3624590.4	135.81052 (20021622)	138.23083 (20112021)	117.11573 (20121620)
103.02649 (20021220)	119.18449 (20011420)		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 *** ***

*** 14:49:32

PAGE 73

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

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

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

**

Y-COORD			X-COORD (METERS)
(METERS)	492820.18	493014.28	493208.38
493402.48	493596.58		

3628507.6	98.55738 (22050623)	101.76031 (20022901)	102.87552 (20031321)
125.96867 (22043024)	146.27316 (20101418)		
3628311.7	102.76316 (22050623)	107.02831 (20022901)	92.75657 (22043024)
131.36972 (21081221)	158.36340 (21072221)		
3628115.8	99.61222 (22050623)	113.93373 (20022901)	154.37229 (22043024)
162.81324 (20101418)	231.00299 (21080821)		
3627920.0	105.79093 (22050623)	110.06700 (21100706)	182.12647 (22043024)
191.76973 (21072221)	204.79700 (20121022)		
3627724.1	124.25023 (22050623)	139.61635 (20031321)	187.27652 (21081221)
268.41340 (21080821)	252.97723 (22081324)		
3627528.3	126.10512 (22050623)	186.21284 (22043024)	245.24216 (20101418)
285.56910 (22081324)	242.53632 (21052203)		
3627332.4	145.15378 (22050623)	270.86160 (22043024)	408.98170 (21080821)
277.51772 (21122302)	280.55424 (22091021)		
3627136.5	146.38501 (21053124)	267.02368 (20101418)	287.87043 (21122302)
290.39665 (22091021)	267.46832 (21020104)		

3626940.7	213.40802 (20022901)	491.07620 (22081324)	390.90445 (22091021)
242.30595 (20080320)	261.05883 (21072203)		
3626744.8	324.02602 (22043024)	562.41826 (21020104)	424.44407 (21072203)
332.30361 (22072121)	204.78189 (22072121)		
3626549.0	472.94914 (20072601)	442.63139 (21091323)	468.62028 (20070924)
316.03424 (20070924)	258.90564 (21020619)		
3626353.1	313.53986 (22081103)	292.63273 (22080701)	250.65986 (22082502)
249.48037 (20090703)	209.07614 (20092322)		
3626157.2	243.16293 (22081103)	235.08186 (22081002)	217.36147 (20051621)
174.71981 (22041522)	162.92604 (22073105)		
3625961.4	194.63301 (22081103)	189.04224 (21060903)	184.26387 (22072201)
170.25926 (20051621)	151.39184 (20071201)		
3625765.5	160.52885 (22082605)	167.56598 (21080902)	161.54028 (22081002)
137.44992 (20102320)	148.66453 (20110221)		
3625569.7	143.77739 (22082605)	152.33053 (21030703)	149.18365 (22071602)
149.90559 (20101621)	122.86308 (22122323)		
3625373.8	136.39641 (22082605)	140.20364 (21030703)	137.28222 (20061224)
134.83168 (22081002)	131.63204 (20092323)		
3625177.9	129.19587 (22082605)	135.32993 (20042523)	126.96723 (21061223)
119.82341 (22070601)	128.19689 (20101621)		
3624982.1	122.26910 (22082605)	121.41479 (20042523)	127.63747 (21080902)
112.60394 (22071602)	118.41121 (22010819)		
3624786.2	116.56835 (22082605)	118.76508 (22052124)	122.48774 (20052502)
114.66954 (20061224)	105.26323 (22121819)		
3624590.4	111.62857 (22082605)	112.86985 (22052124)	111.59596 (21030703)
105.80340 (21061223)	108.58337 (22071602)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 74

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)	493790.68	493984.78
494372.98	494567.08	494178.88

- - - - -
 - - - - -

3628507.6	181.43180 (21080821)	137.49280 (20121022)	102.71794 (22081324)
70.36701 (21122302)	79.20240 (21052203)		
3628311.7	204.40381 (21080821)	165.66403 (22081324)	84.18765 (21122302)
84.30524 (21052203)	71.41990 (22072321)		
3628115.8	192.71237 (22081324)	153.75552 (21122302)	96.52444 (21052203)
77.30721 (22072321)	91.55252 (22091021)		
3627920.0	191.32345 (22081324)	146.18135 (21052203)	87.07387 (21021324)
101.44926 (22091021)	76.64553 (22082422)		
3627724.1	203.50771 (21052203)	145.01927 (21021324)	127.17565 (22091021)
88.59790 (21092019)	90.48208 (21020104)		
3627528.3	213.99784 (22091021)	193.51668 (22082422)	143.71014 (20032305)
126.66133 (22122819)	119.66847 (22051721)		
3627332.4	210.73270 (21092019)	169.42090 (22122819)	160.66240 (22051721)
152.61790 (22061422)	138.62471 (20081602)		
3627136.5	209.12129 (22051721)	192.79864 (22061422)	204.57950 (21072203)
189.97362 (21072203)	166.21730 (21052124)		
3626940.7	270.76650 (21072203)	188.08257 (21052124)	193.80610 (21080324)
180.10065 (22072121)	162.66972 (22072121)		
3626744.8	197.74711 (21071321)	183.61826 (21071321)	165.60613 (20061323)
157.65820 (20061323)	159.12123 (20061323)		
3626549.0	250.52941 (22091222)	232.38071 (22091222)	194.65964 (22091222)
182.41364 (22091222)	170.54481 (22091222)		
3626353.1	247.46289 (21091323)	199.46208 (22070202)	191.09616 (20070924)
187.95685 (20070924)	160.01047 (20070924)		
3626157.2	177.68874 (20090703)	161.41787 (20092322)	140.90460 (20092322)
172.87233 (21091323)	171.50234 (21091323)		
3625961.4	142.96657 (22082502)	135.78850 (21063023)	138.62417 (22082522)
132.96670 (21072222)	129.49832 (20092322)		
3625765.5	131.42062 (20071201)	131.90867 (22041522)	125.67873 (22073105)
117.55074 (21063023)	117.92002 (22082522)		
3625569.7	132.03323 (20110221)	115.77306 (20042722)	111.34055 (22041522)
110.81738 (22082502)	102.81273 (22073105)		
3625373.8	118.00101 (22080701)	118.48172 (20110221)	102.49735 (20050501)
98.44328 (21071124)	103.76386 (22041522)		
3625177.9	110.56539 (20080301)	115.04163 (22080701)	108.74837 (22070621)
97.74809 (20050501)	98.02786 (20071201)		
3624982.1	119.93599 (22072201)	95.27077 (20041404)	107.09298 (22080701)
102.49969 (22070621)	92.83143 (20050501)		
3624786.2	112.12122 (21071002)	106.04290 (20092323)	86.65688 (22122323)
94.99031 (22080701)	97.18324 (22070621)		
3624590.4	107.24822 (22010819)	109.25805 (22072201)	95.26424 (20080301)
86.50017 (21111920)	95.35178 (20051621)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	67.55240 (22072321)
3628311.7	87.12805 (22091021)
3628115.8	77.65282 (22082422)
3627920.0	80.35915 (20032305)
3627724.1	75.77932 (20080320)
3627528.3	81.35790 (21090103)
3627332.4	111.74187 (21072203)
3627136.5	117.93216 (21052124)
3626940.7	146.76899 (21030922)
3626744.8	140.87632 (20061323)
3626549.0	158.08356 (22091222)
3626353.1	137.28482 (22091223)
3626157.2	144.69618 (22070202)
3625961.4	110.57897 (20092322)
3625765.5	119.37648 (20090703)
3625569.7	102.23236 (21063023)
3625373.8	101.08347 (22073105)
3625177.9	101.18833 (22041522)
3624982.1	97.16664 (20071201)
3624786.2	90.25304 (21081124)
3624590.4	91.61300 (22070621)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 76

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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

	492883.25	3625830.80	175.36653	(22052124)	492919.80
3625834.65		174.59861	(20042523)		
	492955.07	3625845.55	177.93613	(21030703)	493069.86
3625832.73		167.80966	(20061224)		
	493094.87	3625832.73	165.11254	(22071602)	493110.90
3625837.21		166.12118	(22071602)		
	493151.95	3625834.01	161.36282	(22081002)	493166.70
3625837.86		167.01160	(22081002)		
	493187.86	3625836.57	168.14305	(22010819)	493201.33
3625836.57		167.87735	(22010819)		
	493240.44	3625836.57	169.48794	(20101621)	492881.32
3625908.40		187.24794	(22052124)		
	492906.98	3625898.14	183.65710	(20042523)	492901.84
3625911.60		185.94921	(22090723)		
	492928.14	3625914.81	189.63637	(21030703)	492933.91
3625898.14		187.06776	(21030703)		
	492951.87	3625908.40	186.29857	(20052502)	492973.67
3625907.11		185.32270	(21080902)		
	492993.55	3625914.17	186.19878	(21080902)	492996.11
3625897.50		183.93278	(21080902)		
	493015.99	3625896.85	175.35406	(21061223)	493023.05
3625912.24		179.19952	(21060903)		
	493044.21	3625907.11	179.33656	(20061224)	493066.66
3625907.76		176.99543	(22071602)		
	493085.25	3625912.24	177.13216	(22071602)	493087.18
3625895.57		175.38088	(22071602)		
	493108.98	3625911.60	169.49906	(22121819)	493112.19
3625897.50		167.60425	(22121819)		
	493133.99	3625901.98	176.35975	(22081002)	492874.27
3625788.48		171.11909	(21103123)		
	492894.15	3625789.12	169.51391	(22052124)	492910.18
3625790.40		166.89772	(22090723)		
	492930.70	3625786.55	168.09676	(20042523)	492947.38
3625791.04		171.40948	(21030703)		
	492963.41	3625787.84	170.78757	(21030703)	492982.65
3625787.84		169.98370	(20052502)		
	492999.96	3625787.84	168.01442	(20052502)	493021.12
3625791.04		169.16302	(21080902)		
	493036.52	3625789.12	164.02767	(21080902)	493055.75
3625789.76		160.14502	(21060903)		
	493076.28	3625787.84	164.02783	(20061224)	493094.87
3625787.84		161.03413	(20061224)		

493112.83	3625788.48	161.54453	(22071602)	493129.50
3625787.19	161.99998	(22071602)		
493148.74	3625787.19	156.07515	(22071602)	493164.77
3625790.40	154.03900	(22121819)		
493184.65	3625789.12	162.08572	(22081002)	493201.97
3625791.04	163.01553	(22081002)		
493221.21	3625790.40	164.51468	(22010819)	493238.52
3625791.04	160.16435	(22010819)		
492780.00	3626415.01	354.36375	(20090401)	492778.72
3626388.08	336.51222	(21040804)		
492747.94	3626386.16	399.94107	(20121620)	492742.16
3626418.22	445.58317	(22103002)		
492699.20	3626422.71	461.03742	(20021622)	492697.92
3626391.93	445.21960	(21040224)		
492678.68	3626411.81	436.10981	(20060722)	492626.09
3626426.56	411.69303	(22062801)		
492606.85	3626435.54	414.84343	(20120120)	492599.16
3626405.39	391.86439	(22030622)		
492491.20	3626644.88	362.08885	(22040523)	492517.36
3626636.70	368.08553	(22040523)		
492521.18	3626603.45	357.18288	(21081401)	492521.72
3626582.19	405.40145	(20010922)		
492512.46	3626553.84	395.59023	(21112923)	492513.55
3626533.13	416.69762	(22040823)		
492501.01	3626506.42	421.67124	(22081101)	492490.65
3626485.70	434.56700	(20011918)		
492479.21	3626464.45	444.71384	(20011918)	492466.12
3626447.00	425.93732	(20011918)		
492447.59	3626418.66	405.52791	(20051323)	492431.78
3626430.65	401.12899	(20011918)		
492481.93	3626620.35	338.89821	(20061101)	492482.48
3626594.18	351.40778	(20010922)		
492479.21	3626572.92	384.35439	(20010922)	492477.02
3626546.76	375.88830	(21112923)		
492467.76	3626523.32	391.59059	(22040823)	492463.94
3626507.51	392.04273	(22040823)		
492450.86	3626492.79	400.17576	(22081101)	492427.42
3626474.80	394.48283	(22081101)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 14:49:32

PAGE 77

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK3 ***
 INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	377.12552	(22081101)	492803.94
3626616.07	337.05002	(21100502)		
492823.25	3626567.17	422.45503	(20011420)	492838.34
3626526.92	462.55591	(21013120)		
493039.78	3625834.45	164.37391	(21060903)	492743.19
3626628.92	184.13343	(22051422)		
492791.92	3626663.04	199.53942	(21072003)	492731.11
3626741.92	249.58947	(21052423)		
492774.75	3626728.05	257.17255	(20022901)	492674.05
3626738.96	241.65764	(21081301)		
492708.49	3626698.47	369.93064	(20080201)	492703.25
3626652.75	251.17821	(21101804)		
492723.78	3626582.16	449.72246	(22012923)	492761.18
3626553.82	340.80397	(22012923)		
493013.27	3625844.49	174.40277	(21080902)	

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 78

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
491461.48	490879.18
	491655.58
	491073.28
	491267.38

3628507.6	74.97855 (21040201)	74.02238 (22092901)	86.93479 (22090601)
89.71638 (22072901)	65.48489 (22102622)		
3628311.7	76.07000 (22032023)	83.78057 (21040201)	78.44654 (22092901)
91.85950 (22090601)	104.81391 (22072901)		
3628115.8	79.56736 (22122902)	77.28336 (22032023)	92.73391 (21040201)
85.08727 (22092901)	95.95146 (22090601)		
3627920.0	74.64657 (22092824)	88.13428 (21052423)	81.01546 (20101805)
102.91683 (21040201)	100.00167 (22011702)		
3627724.1	88.54860 (22090223)	90.87771 (21081604)	81.47945 (21052423)
100.13729 (22122902)	122.93020 (21040201)		
3627528.3	88.36383 (21021622)	96.86658 (20050803)	106.04309 (22090223)
109.62907 (21081604)	124.13211 (21052423)		
3627332.4	97.11952 (21040202)	103.98357 (21093023)	102.27478 (21021622)
115.99729 (20050803)	126.93024 (22090223)		
3627136.5	76.29020 (21092022)	85.52994 (22110520)	107.28547 (22101701)
117.42227 (22101701)	123.52666 (21093023)		
3626940.7	81.30905 (21010801)	88.21700 (21112924)	91.06858 (21112924)
94.21414 (22091605)	96.68295 (22091605)		
3626744.8	118.42532 (20042724)	129.32952 (20042724)	129.51680 (20042724)
136.94019 (20042724)	134.29886 (20042724)		
3626549.0	129.67153 (21081401)	139.43963 (21061202)	132.26366 (20070603)
162.25415 (20070603)	165.71770 (20052123)		
3626353.1	123.56955 (20103021)	145.26919 (21050502)	153.56888 (20040305)
161.72408 (22040823)	175.14433 (22081101)		
3626157.2	115.16815 (22110522)	134.67447 (21113004)	158.65043 (22012620)
165.47258 (22040423)	165.18078 (20051323)		
3625961.4	116.48631 (20021723)	121.02446 (22040423)	127.28056 (20051323)
137.91849 (20071603)	145.91756 (20112220)		
3625765.5	109.96924 (20051323)	133.67650 (21051102)	135.97033 (20101401)
115.57955 (21110822)	124.67105 (20050604)		
3625569.7	114.05216 (20041521)	123.34324 (21040222)	129.31506 (21031622)
138.04254 (20050604)	126.38736 (21081303)		
3625373.8	110.79992 (21110822)	114.54589 (22050401)	119.45633 (20050604)
118.38299 (21081303)	114.27304 (21071905)		
3625177.9	94.89498 (22050401)	120.02674 (20050604)	109.47017 (21081303)
104.71010 (22111601)	116.41711 (22100802)		
3624982.1	96.89732 (20050604)	103.74166 (22042922)	101.81947 (22062801)
108.59956 (22100802)	113.33433 (20060802)		
3624786.2	98.14971 (22042922)	95.15353 (22062801)	104.29583 (20080624)
101.59710 (20050524)	109.33045 (22081602)		
3624590.4	91.44982 (20080806)	99.63756 (20080624)	95.79206 (21040801)
104.10157 (20092303)	101.72120 (21092101)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***
INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD (METERS)				X-COORD (METERS)
492431.98	491849.68	492626.08	492043.78	492237.88

3628507.6	80.15782 (22102522)	87.66366 (22122822)	97.22211 (22080905)	
98.22989 (22062022)	152.75045 (22103119)			
3628311.7	83.29974 (20050702)	105.29940 (22090703)	105.17359 (20111805)	
104.64807 (22062022)	149.94308 (22103119)			
3628115.8	106.70676 (22072901)	96.73123 (22102522)	112.46533 (20111805)	
104.38123 (21081223)	147.27478 (22103119)			
3627920.0	111.82578 (22072901)	88.10530 (20050702)	122.38084 (22090703)	
120.15641 (22080905)	134.08872 (22103119)			
3627724.1	114.83078 (22011702)	128.53673 (22072901)	119.99209 (22102522)	
115.33214 (20111805)	125.40018 (22062723)			
3627528.3	129.84393 (21040201)	118.66442 (22090601)	132.03480 (22072901)	
140.48719 (22090703)	154.08709 (22062022)			
3627332.4	109.01011 (21052423)	126.85885 (22032023)	161.43660 (22090601)	
170.19635 (22102522)	187.85050 (22062022)			
3627136.5	124.02822 (20061501)	140.35863 (22090223)	153.25778 (21052423)	
185.52512 (22090601)	198.01409 (20111805)			
3626940.7	120.65546 (20101220)	165.91310 (22101701)	185.25449 (21093023)	
221.41152 (21081604)	290.83885 (22072901)			
3626744.8	167.50375 (20042724)	192.81873 (20042724)	226.96161 (20042724)	
230.92134 (21052505)	457.17609 (21021501)			
3626549.0	173.08234 (20103021)	214.76793 (21041723)	262.72184 (22081101)	
291.49316 (22051302)	249.66435 (20111623)			
3626353.1	172.53286 (20102405)	203.83897 (20051323)	208.66665 (21110822)	
224.94604 (22030622)	247.13298 (20112021)			
3626157.2	167.96529 (20101401)	167.81101 (22050401)	182.74718 (21081303)	
197.36603 (22081602)	199.60329 (20021621)			
3625961.4	145.79672 (20112106)	148.69233 (21081303)	151.39110 (21040801)	
169.05086 (20112521)	174.47340 (20021220)			
3625765.5	123.59449 (21081303)	127.37177 (22100802)	142.04949 (22081602)	
157.71173 (20112021)	152.41521 (20090401)			
3625569.7	130.10338 (21071905)	119.05785 (20060802)	125.31035 (20021622)	
125.68460 (22081102)	139.67644 (20090401)			
3625373.8	118.13063 (20050524)	125.31970 (22081602)	131.59434 (20091424)	
128.92680 (21020924)	140.20157 (20101822)			

```

3625177.9 | 119.74012 (20092303) 122.92495 (20021622) 124.84862 (20112021)
124.90347 (20101821) 134.60902 (20101822)
3624982.1 | 112.28301 (21092101) 120.88341 (20091424) 113.04184 (20070224)
125.51788 (20021220) 128.79934 (20011420)
3624786.2 | 112.57732 (20032022) 113.64720 (21102022) 106.50810 (20111724)
112.46465 (20021220) 123.82439 (20011420)
3624590.4 | 109.87866 (20110324) 113.74870 (20112021) 110.53913 (21020924)
106.12247 (20070424) 116.63557 (20011420)
^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 14:49:32

```

```

PAGE 80
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***
INCLUDING SOURCE(S): STCK4 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

```

```

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

**

Y-COORD | X-COORD (METERS)
(METERS) | 492820.18 493014.28 493208.38
493402.48 493596.58
- - - - -
- - - - -

```

```

3628507.6 | 186.37012 (22102021) 140.72058 (20031024) 184.59608 (22061421)
148.81033 (21081221) 177.05388 (21072221)
3628311.7 | 208.68092 (22102021) 154.78224 (21100706) 177.33114 (22061421)
189.90518 (20101418) 192.14353 (21080821)
3628115.8 | 205.71258 (22102021) 180.55992 (21100706) 208.06956 (22061421)
210.87742 (21072221) 183.75067 (21080821)
3627920.0 | 236.81696 (22102021) 187.16840 (21100706) 206.27410 (21081221)
240.13533 (21080821) 202.63760 (22081324)
3627724.1 | 357.05820 (22102021) 313.70689 (22061421) 281.74377 (20101418)
210.85181 (22081324) 181.07494 (21122302)
3627528.3 | 317.30630 (22102021) 349.94115 (22061421) 326.18566 (21080821)
234.09534 (21122302) 199.70945 (22072321)
3627332.4 | 363.89775 (20061122) 414.59296 (20101418) 324.18757 (22081324)
245.93303 (22091021) 204.73747 (21092019)
3627136.5 | 408.44093 (22112918) 373.08707 (21080821) 290.77453 (22091021)
161.30587 (21092019) 147.39206 (22051721)
3626940.7 | 600.97651 (22061421) 488.58926 (22082422) 207.93789 (20081602)
204.62754 (21072203) 150.27177 (21110518)

```

3626744.8	300.99556 (20081602)	345.52717 (20101806)	262.94005 (20090820)
212.71929 (20090820)	162.17509 (20090820)		
3626549.0	297.32595 (21103123)	293.93105 (22082502)	260.53085 (21072102)
211.77536 (20041206)	161.49051 (21040722)		
3626353.1	246.00846 (22090723)	228.31642 (22100904)	206.39818 (22040123)
188.54067 (21063023)	173.02832 (21072222)		
3626157.2	206.87724 (22052124)	192.48196 (22121819)	178.93057 (22080701)
163.96030 (22040123)	154.27227 (20092022)		
3625961.4	179.10987 (21103123)	172.17071 (20061224)	147.60722 (22072201)
151.45283 (22080701)	142.14475 (22040123)		
3625765.5	154.26777 (21103123)	157.16022 (21080902)	137.63006 (20102503)
133.56862 (20041404)	142.62662 (20051621)		
3625569.7	142.28765 (22081103)	147.03435 (20052502)	143.97530 (22071602)
127.18781 (20101621)	132.87393 (20041404)		
3625373.8	129.45349 (22081103)	141.66817 (21030703)	139.86703 (20061224)
117.45014 (21041722)	112.34131 (22072201)		
3625177.9	119.82491 (22081103)	130.60216 (20042523)	126.38364 (21061223)
122.45258 (22070601)	109.09606 (21071002)		
3624982.1	112.66841 (22080704)	124.04371 (20042523)	128.83166 (21080902)
111.55191 (22071602)	101.47381 (22010819)		
3624786.2	108.13716 (20112619)	113.21369 (22052124)	120.59699 (20052502)
116.20536 (20061224)	105.87629 (20102503)		
3624590.4	104.16880 (20112619)	112.97290 (22052124)	109.86655 (20052502)
105.67194 (21061223)	110.08870 (22071602)		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 81

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

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

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD			X-COORD (METERS)
(METERS)	493790.68	493984.78	494178.88
494372.98	494567.08		

3628507.6	176.06677 (21080821)	138.12902 (22081324)	83.81901 (21122302)
68.75571 (21052203)	63.78451 (20092420)		

3628311.7	152.46017 (22081324)	126.02496 (21122302)	76.27497 (21052203)
67.55604 (20092420)	72.88992 (22091021)		
3628115.8	163.32103 (22081324)	126.92538 (21052203)	74.19640 (20092420)
80.77872 (22091021)	67.56625 (22082422)		
3627920.0	155.60554 (21052203)	107.23982 (22072321)	94.20113 (22091021)
68.04543 (22082422)	61.24004 (20081923)		
3627724.1	154.93757 (22072321)	155.37550 (22091021)	85.71493 (21092019)
66.91380 (20071323)	67.63083 (22051721)		
3627528.3	188.39414 (22082422)	117.64723 (21092019)	84.33067 (20071323)
87.46410 (22051721)	76.08393 (22061422)		
3627332.4	121.00203 (20071323)	110.23331 (22051721)	111.66506 (20081602)
118.24807 (20081602)	112.44805 (21072203)		
3627136.5	156.52232 (20081602)	143.52484 (21072203)	100.44804 (22102102)
91.56254 (21012119)	101.08615 (21080324)		
3626940.7	144.99772 (22072121)	126.84651 (22072121)	103.45313 (20082204)
99.62486 (20062123)	93.94762 (20062123)		
3626744.8	143.08802 (20101806)	132.32185 (20101806)	124.42578 (21070923)
119.84014 (21070923)	114.90262 (21070923)		
3626549.0	148.54296 (20070924)	127.78286 (20070924)	116.64286 (22091223)
104.67873 (22091223)	108.67286 (21020619)		
3626353.1	167.95433 (20092322)	151.17190 (20041206)	131.83545 (20041206)
113.13357 (21040722)	106.15045 (20070924)		
3626157.2	154.65596 (21063023)	145.60809 (21070803)	139.73444 (21072102)
134.16219 (20092322)	124.64206 (21090204)		
3625961.4	146.14387 (22041522)	138.41561 (22073105)	128.37936 (21063023)
125.74484 (21070803)	126.04040 (21072222)		
3625765.5	127.82863 (21081124)	118.11769 (22041522)	121.00479 (22082502)
117.95322 (21091322)	108.81518 (21063023)		
3625569.7	132.24638 (20051621)	120.64390 (21081124)	115.27699 (20071003)
117.96203 (22041522)	118.29217 (22073105)		
3625373.8	114.12453 (21083005)	121.92178 (22081701)	114.44791 (21081124)
112.10080 (20071201)	113.37471 (22041522)		
3625177.9	100.46439 (20041404)	109.79795 (21083005)	113.36758 (20110221)
109.14080 (21081124)	106.75565 (20071201)		
3624982.1	102.91453 (22072201)	111.04248 (20041404)	108.15079 (22080701)
107.14833 (20110221)	104.57070 (21081124)		
3624786.2	96.28699 (21071002)	90.51000 (20092323)	103.82394 (20041404)
102.12715 (22080701)	100.52108 (20110221)		
3624590.4	93.96465 (22010819)	93.16120 (22072201)	85.41760 (20102320)
88.51018 (21111920)	94.22081 (22080701)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 82

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	69.24350 (22091021)
3628311.7	69.10894 (22091021)
3628115.8	60.46507 (21092019)
3627920.0	54.00755 (20071323)
3627724.1	58.40549 (22051721)
3627528.3	83.31810 (20081602)
3627332.4	72.41840 (22102102)
3627136.5	100.24313 (22072121)
3626940.7	85.06209 (21041922)
3626744.8	109.82913 (21070923)
3626549.0	109.60745 (21020619)
3626353.1	109.28711 (20070924)
3626157.2	122.59735 (20041206)
3625961.4	125.88702 (20092322)
3625765.5	109.21809 (22111819)
3625569.7	113.35968 (21063023)
3625373.8	102.04787 (22082502)
3625177.9	94.36745 (22041522)
3624982.1	101.68680 (22040123)
3624786.2	101.37987 (21081124)
3624590.4	95.60542 (22070621)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 83

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	158.25808	(20042523)	492919.80
3625834.65	162.32248 (21030703)			
492955.07	3625845.55	163.79720	(20052502)	493069.86
3625832.73	156.90802 (20061224)			
493094.87	3625832.73	152.45447	(22071602)	493110.90
3625837.21	154.38343 (22071602)			
493151.95	3625834.01	147.25282	(22121819)	493166.70
3625837.86	144.28464 (22121819)			
493187.86	3625836.57	137.30997	(20102503)	493201.33
3625836.57	136.65558 (22010819)			
493240.44	3625836.57	134.58605	(20101621)	492881.32
3625908.40	168.42854 (20042523)			
492906.98	3625898.14	168.54367	(21030703)	492901.84
3625911.60	169.44567 (21030703)			
492928.14	3625914.81	171.04328	(21030703)	492933.91
3625898.14	168.27948 (21030703)			
492951.87	3625908.40	171.13681	(20052502)	492973.67
3625907.11	170.74226 (21080902)			
492993.55	3625914.17	166.96384	(21080902)	492996.11
3625897.50	165.81437 (21080902)			
493015.99	3625896.85	159.86826	(20061224)	493023.05
3625912.24	165.30660 (20061224)			
493044.21	3625907.11	165.08824	(20061224)	493066.66
3625907.76	161.13085 (22071602)			
493085.25	3625912.24	162.44569	(22071602)	493087.18
3625895.57	160.97877 (22071602)			
493108.98	3625911.60	156.11733	(22070601)	493112.19
3625897.50	155.13460 (22070601)			
493133.99	3625901.98	152.01860	(22121819)	492874.27
3625788.48	156.54794 (22052124)			
492894.15	3625789.12	155.69567	(20042523)	492910.18
3625790.40	156.88196 (20042523)			
492930.70	3625786.55	158.33119	(21030703)	492947.38
3625791.04	159.06495 (21030703)			
492963.41	3625787.84	157.49542	(20052502)	492982.65
3625787.84	158.39697 (20052502)			
492999.96	3625787.84	158.47859	(21080902)	493021.12
3625791.04	156.01807 (21080902)			
493036.52	3625789.12	150.11191	(21080902)	493055.75
3625789.76	151.80929 (20061224)			
493076.28	3625787.84	154.65631	(20061224)	493094.87
3625787.84	151.89264 (20061224)			
493112.83	3625788.48	150.15617	(22071602)	493129.50
3625787.19	151.62124 (22071602)			

493148.74	3625787.19	148.46370	(22071602)	493164.77
3625790.40	145.22008	(22121819)		
493184.65	3625789.12	142.57315	(22121819)	493201.97
3625791.04	137.30493	(20102503)		
493221.21	3625790.40	134.20151	(22010819)	493238.52
3625791.04	133.74516	(22010819)		
492780.00	3626415.01	267.44577	(22081103)	492778.72
3626388.08	257.31525	(22081103)		
492747.94	3626386.16	257.85760	(20072601)	492742.16
3626418.22	269.76941	(20090401)		
492699.20	3626422.71	267.60513	(20021621)	492697.92
3626391.93	254.89826	(21041524)		
492678.68	3626411.81	262.33373	(20112021)	492626.09
3626426.56	262.90815	(20021622)		
492606.85	3626435.54	269.16510	(21031722)	492599.16
3626405.39	255.03493	(22081602)		
492491.20	3626644.88	367.22245	(20121705)	492517.36
3626636.70	379.41977	(20082202)		
492521.18	3626603.45	346.06479	(20112420)	492521.72
3626582.19	335.57425	(20081703)		
492512.46	3626553.84	314.30403	(20112220)	492513.55
3626533.13	286.47975	(20112220)		
492501.01	3626506.42	282.56318	(20050604)	492490.65
3626485.70	281.10655	(20052324)		
492479.21	3626464.45	276.26392	(20052324)	492466.12
3626447.00	268.82149	(20052324)		
492447.59	3626418.66	255.52833	(20052324)	492431.78
3626430.65	253.48037	(20052324)		
492481.93	3626620.35	356.76187	(20082202)	492482.48
3626594.18	336.51102	(22040423)		
492479.21	3626572.92	319.25729	(20112420)	492477.02
3626546.76	305.59952	(20101401)		
492467.76	3626523.32	292.45662	(20112220)	492463.94
3626507.51	277.05625	(20112220)		
492450.86	3626492.79	266.64591	(20051324)	492427.42
3626474.80	256.25194	(20051324)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 84

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK4 ***
 INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	248.31089	(20051324)	492803.94
3626616.07	226.14580	(22051422)		
492823.25	3626567.17	356.48263	(21080902)	492838.34
3626526.92	337.79533	(21013120)		
493039.78	3625834.45	154.68868	(20061224)	492743.19
3626628.92	142.64310	(22080505)		
492791.92	3626663.04	208.92921	(20082306)	492731.11
3626741.92	255.18925	(20070601)		
492774.75	3626728.05	302.89158	(20081602)	492674.05
3626738.96	317.39564	(21011805)		
492708.49	3626698.47	324.12084	(20121705)	492703.25
3626652.75	309.69719	(20022504)		
492723.78	3626582.16	213.76819	(20112107)	492761.18
3626553.82	215.78986	(22102720)		
493013.27	3625844.49	158.59742	(21080902)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 85

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK5 ***
INCLUDING SOURCE(S): STCK5 ,

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

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

**

Y-COORD (METERS)	X-COORD (METERS)
491461.48	490879.18
	491655.58
	491073.28
	491267.38
3628507.6	93.02385 (22092901)
145.97114 (22062102)	89.13534 (22090601)
	98.45018 (22080803)
	149.43150 (20090706)

3628311.7	70.39057 (22120701)	100.85322 (22092901)	105.42315 (22090601)
102.25835 (22080803)	152.45053 (22062102)		
3628115.8	76.02102 (20101702)	78.16291 (22120701)	109.83619 (22092901)
122.91902 (22090601)	142.60282 (22062102)		
3627920.0	74.05870 (20101707)	80.43737 (20101702)	85.49478 (22120701)
120.96331 (22092901)	141.50356 (22090601)		
3627724.1	96.83587 (22090223)	87.15032 (22092824)	90.77275 (21122104)
93.11310 (20122122)	138.56826 (22092901)		
3627528.3	92.01751 (20050803)	108.66328 (20081623)	114.47253 (21081604)
97.57369 (20101707)	109.73094 (20101702)		
3627332.4	97.55401 (21093023)	98.11698 (21020722)	109.23494 (20061501)
130.43093 (20081623)	133.75104 (21081604)		
3627136.5	99.90913 (21092022)	109.25252 (22110520)	115.28492 (22101701)
118.61133 (21093023)	117.23506 (20061501)		
3626940.7	103.28317 (21112924)	108.84928 (21112924)	109.19883 (22011703)
119.06307 (21010724)	129.43632 (21092022)		
3626744.8	123.54292 (20042724)	136.25834 (20042724)	134.86582 (20042724)
143.07420 (21052505)	146.10746 (21052505)		
3626549.0	128.58527 (21081401)	139.44203 (21081401)	136.09696 (21061202)
162.08116 (20070603)	174.23302 (20070603)		
3626353.1	120.11850 (20103021)	147.04396 (21050502)	155.35213 (20061223)
162.05516 (22040823)	175.72583 (22081101)		
3626157.2	110.07783 (22110522)	117.46952 (22081101)	160.41192 (22081101)
170.53329 (22040423)	188.47598 (20051323)		
3625961.4	112.56719 (20021723)	126.71490 (20011918)	137.42577 (20051323)
142.27361 (21051102)	181.15161 (22042324)		
3625765.5	116.48328 (20051323)	139.73556 (21051102)	151.00694 (20101401)
130.47716 (20051324)	148.83353 (20120120)		
3625569.7	122.25050 (22010705)	143.32175 (22042324)	144.87836 (20041701)
154.86316 (20120120)	125.75709 (22042922)		
3625373.8	126.98897 (20051324)	125.17101 (20061423)	124.36669 (20120120)
120.22913 (22042922)	120.55893 (22111601)		
3625177.9	111.20111 (20061423)	132.80705 (20052324)	109.87444 (22042922)
110.70614 (22062801)	121.98154 (22100802)		
3624982.1	114.30921 (20052324)	103.77953 (21100901)	107.86521 (22062801)
110.35771 (21071905)	121.18921 (20060802)		
3624786.2	97.55837 (21100901)	92.27924 (22062801)	109.13099 (21071905)
105.75289 (20050524)	116.71400 (21031722)		
3624590.4	87.92932 (21081303)	95.80060 (20080624)	99.19320 (21040801)
108.90669 (20092303)	105.52452 (21092101)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 14:49:32

PAGE 86

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	491849.68	492043.78	492237.88
492431.98	492626.08		

3628507.6	149.68451 (22090524)	152.02847 (20111805)	149.04897 (21081223)
148.17814 (22102623)	115.68431 (22062723)		
3628311.7	153.57381 (20102920)	166.57368 (21071323)	148.57716 (22080905)
158.75392 (22102623)	130.66266 (22062723)		
3628115.8	173.05238 (20090706)	184.41530 (22090524)	192.11626 (20101705)
155.13801 (21081223)	150.41038 (22062723)		
3627920.0	191.91623 (22062102)	187.06628 (20102920)	199.66420 (22102624)
197.65505 (21081223)	168.94592 (22062723)		
3627724.1	153.76899 (22090601)	207.09651 (22062102)	242.10868 (22090524)
213.74675 (21081223)	204.49779 (22062723)		
3627528.3	156.31263 (22092901)	156.82550 (22080803)	252.73287 (20090706)
278.94500 (20101705)	302.39769 (22062723)		
3627332.4	124.52118 (20101702)	176.32495 (22092901)	286.03169 (22062102)
386.78749 (22090524)	347.67340 (22062723)		
3627136.5	140.20130 (20081623)	147.49899 (21122104)	214.97571 (22092901)
403.14197 (20090706)	371.87233 (22062723)		
3626940.7	146.83333 (22110520)	171.14271 (22042601)	200.27191 (20081623)
299.52410 (22092901)	570.32869 (20101705)		
3626744.8	192.26854 (21052505)	228.05468 (21052505)	284.88754 (22040523)
307.06201 (22092202)	373.40364 (22090104)		
3626549.0	181.12271 (20103021)	244.25071 (20061223)	311.63094 (20121705)
397.84708 (20081703)	379.36050 (21020303)		
3626353.1	179.20668 (22092801)	244.98182 (20051323)	279.46600 (20051324)
274.72702 (22062801)	313.50456 (20021220)		
3626157.2	200.14243 (20101401)	219.66636 (20061423)	202.47938 (21081303)
230.19687 (22081602)	257.55926 (20101822)		
3625961.4	181.30643 (20120120)	151.64584 (21081303)	165.27317 (21040801)
193.91603 (22052202)	239.14563 (20101822)		
3625765.5	121.15564 (22042922)	133.46355 (21071905)	148.82320 (22081602)
172.22574 (20112021)	215.75159 (20101822)		
3625569.7	133.68178 (21071905)	125.94776 (20060802)	136.96787 (20112521)
154.16325 (21020924)	193.29981 (20011420)		
3625373.8	130.32923 (21040801)	129.74607 (22081602)	144.21829 (21102022)
162.83316 (20021220)	189.81436 (20011420)		
3625177.9	130.84060 (20092303)	139.25985 (20021622)	130.20225 (20112021)
161.87590 (20021220)	176.15133 (20011420)		

3624982.1		118.88167 (21092101)	129.44655 (20091424)	127.39595 (21031723)
140.88939	(21020706)	163.71559 (20011420)		
3624786.2		125.65216 (20021622)	125.84264 (21102022)	127.57872 (21020924)
129.30467	(20070424)	151.49448 (20072601)		
3624590.4		117.94617 (20112521)	119.71193 (20112021)	121.14959 (20101821)
119.84777	(20070424)	150.09331 (20072601)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 87

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK5 ***
INCLUDING SOURCE(S): STCK5 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD				X-COORD (METERS)
(METERS)		492820.18	493014.28	493208.38
493402.48		493596.58		

3628507.6		135.81791 (22102021)	114.63373 (21100706)	133.89142 (22061421)
95.09346	(21081221)	112.38422 (21072221)		
3628311.7		136.44630 (22102021)	117.73059 (21100706)	104.58253 (22061421)
110.53167	(21072221)	137.94551 (21080821)		
3628115.8		126.27100 (20061122)	122.24943 (21100706)	125.17986 (21081221)
134.21206	(21072221)	117.60430 (20100320)		
3627920.0		130.93104 (20061122)	146.20864 (22061421)	137.97937 (20101418)
157.01097	(21080821)	150.70843 (22081324)		
3627724.1		178.15883 (20081922)	188.73238 (22061421)	164.72208 (21072221)
150.57080	(22081324)	129.00874 (21122302)		
3627528.3		183.73361 (21100706)	173.51577 (21081221)	168.14645 (21080821)
158.42912	(21122302)	152.11645 (22061501)		
3627332.4		238.03127 (21100706)	228.00859 (21072221)	203.06253 (22081324)
173.48895	(22091021)	164.67252 (20081923)		
3627136.5		297.57025 (22061421)	234.97720 (22081324)	181.65410 (22091021)
182.50824	(20071323)	175.59898 (22051721)		
3626940.7		354.25147 (21072221)	244.42849 (22121802)	208.14159 (22051721)
221.32294	(21072203)	177.39027 (21020803)		
3626744.8		555.77291 (20081602)	314.50697 (20062123)	251.08149 (20062123)
199.39960	(20031703)	159.41157 (20031703)		

3626549.0	415.40124 (20041520)	253.88767 (21070803)	216.02554 (21091323)
188.27068 (21040722)	160.71704 (20070924)		
3626353.1	419.21086 (20061224)	345.24357 (22070621)	220.54360 (22041522)
176.23368 (21052723)	158.77296 (20092322)		
3626157.2	319.58851 (21080902)	320.77898 (22072201)	264.33979 (22070621)
212.93954 (22041522)	151.85220 (21063023)		
3625961.4	266.22787 (20042523)	260.52911 (22070601)	237.61348 (20041404)
223.07460 (22070621)	169.62966 (22041522)		
3625765.5	229.12560 (22052124)	245.63233 (20061224)	231.48389 (20101621)
196.15467 (21111920)	197.08266 (22070621)		
3625569.7	214.98716 (21103123)	226.95177 (21080902)	220.70964 (20102503)
204.20135 (22050521)	183.68662 (22081224)		
3625373.8	205.90529 (21103123)	199.84710 (20052502)	192.66260 (22071602)
193.85738 (21071002)	188.52893 (21092804)		
3625177.9	188.61298 (21103123)	192.09960 (21030703)	197.37161 (20061224)
179.86037 (21041722)	188.14353 (22072201)		
3624982.1	165.27638 (21103123)	169.90369 (21030703)	175.79363 (20100624)
173.39025 (22071602)	166.73991 (22082604)		
3624786.2	143.36276 (21103123)	170.29937 (20042523)	175.41545 (21080902)
161.92302 (21120822)	157.97936 (21041722)		
3624590.4	131.10342 (20101323)	153.98462 (20042523)	159.05001 (20052502)
158.86811 (20061224)	153.54646 (22070601)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 88

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)		
494372.98	493790.68	493984.78
	494567.08	494178.88

3628507.6	103.86865 (21080821)	112.78998 (22081324)	78.51121 (21122302)
58.82551 (21070722)	67.66636 (22061501)		
3628311.7	116.93961 (22081324)	102.67463 (21040924)	65.74798 (21070722)
70.25201 (22061501)	83.09708 (22091021)		

3628115.8	123.18364 (22081324)	97.30489 (21070722)	87.50052 (22061501)
88.15781 (22091021)	64.46897 (22121802)		
3627920.0	107.13987 (21070722)	115.90792 (22061501)	100.68942 (22091021)
69.51247 (22121802)	82.06023 (20081923)		
3627724.1	136.06084 (22061501)	123.37269 (22091021)	110.30812 (20081923)
95.72987 (20071323)	85.99628 (22051721)		
3627528.3	131.64912 (22121802)	130.87002 (20081923)	104.43460 (20071323)
119.16702 (22051721)	96.26950 (21090103)		
3627332.4	149.16317 (20071323)	142.29888 (22051721)	134.29435 (21110620)
147.55676 (20081602)	143.57212 (21072203)		
3627136.5	174.92005 (20081602)	171.60665 (21072203)	144.95101 (22102102)
122.16742 (21020803)	102.36063 (21110518)		
3626940.7	140.19586 (21110518)	129.08992 (22072121)	114.48078 (20062123)
130.00688 (20062123)	134.40221 (20062123)		
3626744.8	140.13132 (20031703)	125.76641 (20031703)	114.13928 (20101806)
110.54678 (20101806)	106.91721 (20101806)		
3626549.0	145.73658 (22091223)	135.30687 (22091223)	118.19079 (21020619)
120.61263 (21020619)	120.09270 (21020619)		
3626353.1	141.57082 (20041206)	140.81958 (21091323)	130.30141 (21040722)
123.06566 (21040722)	125.46933 (20070924)		
3626157.2	145.00748 (21052723)	135.70091 (21072102)	130.60280 (20092322)
121.09705 (21090204)	118.07344 (21091323)		
3625961.4	139.07689 (22073105)	136.56126 (21063023)	128.41023 (21052723)
122.76047 (21072222)	113.32848 (20092322)		
3625765.5	158.20763 (20071201)	149.81911 (22041522)	125.63846 (22073105)
121.85439 (21063023)	117.11387 (21052723)		
3625569.7	176.27753 (22070621)	150.40664 (20071201)	150.73832 (22041522)
112.58592 (22082502)	109.49038 (21091322)		
3625373.8	169.01629 (22080701)	160.57793 (22070621)	135.05045 (22040123)
121.04941 (22041522)	112.00745 (22041522)		
3625177.9	164.97234 (20041404)	151.26213 (22081701)	147.36453 (22070621)
125.91493 (22040123)	112.57889 (21071124)		
3624982.1	157.22489 (20092323)	141.29054 (21111920)	151.39124 (22081701)
138.00004 (22070621)	113.60590 (22040123)		
3624786.2	162.70611 (20101621)	151.99338 (21092804)	135.54437 (22081224)
146.78007 (22081701)	130.20081 (22070621)		
3624590.4	150.06110 (22082604)	145.80270 (22072201)	138.08505 (20041404)
136.49202 (22081224)	143.14435 (22081701)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 14:49:32

PAGE 89

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***
 INCLUDING SOURCE(S): STCK5 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	78.36098 (22091021)
3628311.7	65.64081 (21120901)
3628115.8	79.52904 (20081923)
3627920.0	78.98193 (20071323)
3627724.1	86.05821 (22051721)
3627528.3	104.98053 (20081602)
3627332.4	109.54026 (22102102)
3627136.5	105.92666 (21110518)
3626940.7	128.03883 (20062123)
3626744.8	102.49528 (20101806)
3626549.0	116.89107 (21020619)
3626353.1	116.50747 (20070924)
3626157.2	117.61118 (21091323)
3625961.4	112.72977 (20092322)
3625765.5	106.62171 (21072222)
3625569.7	108.07774 (21063023)
3625373.8	110.00480 (22073105)
3625177.9	125.03183 (22041522)
3624982.1	112.70991 (21071124)
3624786.2	101.18027 (22040123)
3624590.4	119.76322 (22070621)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 90

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK5 ***
INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

492883.25	3625830.80	239.98491	(21030703)	492919.80
3625834.65	255.41804	(21080902)		
492955.07	3625845.55	241.77480	(21061223)	493069.86
3625832.73	240.54217	(22070601)		
493094.87	3625832.73	240.05097	(20102503)	493110.90
3625837.21	241.54019	(21041722)		
493151.95	3625834.01	235.75534	(22082604)	493166.70
3625837.86	238.86856	(20101621)		
493187.86	3625836.57	242.59796	(20101621)	493201.33
3625836.57	244.15160	(22072201)		
493240.44	3625836.57	228.27132	(20092323)	492881.32
3625908.40	253.69894	(20052502)		
492906.98	3625898.14	265.59133	(21080902)	492901.84
3625911.60	268.06715	(21080902)		
492928.14	3625914.81	256.76110	(21080902)	492933.91
3625898.14	252.08404	(21080902)		
492951.87	3625908.40	254.64614	(20061224)	492973.67
3625907.11	264.37042	(20061224)		
492993.55	3625914.17	246.62135	(20061224)	492996.11
3625897.50	249.00008	(20061224)		
493015.99	3625896.85	254.22172	(22071602)	493023.05
3625912.24	256.20478	(22071602)		
493044.21	3625907.11	252.05779	(20102503)	493066.66
3625907.76	251.72187	(21041722)		
493085.25	3625912.24	251.71674	(22010819)	493087.18
3625895.57	248.38305	(22010819)		
493108.98	3625911.60	246.51449	(22082604)	493112.19
3625897.50	245.56181	(22082604)		
493133.99	3625901.98	249.73862	(20101621)	492874.27
3625788.48	235.60064	(21030703)		
492894.15	3625789.12	234.84780	(21030703)	492910.18
3625790.40	238.09038	(20052502)		
492930.70	3625786.55	248.87833	(21080902)	492947.38
3625791.04	252.38035	(21080902)		
492963.41	3625787.84	240.36724	(21080902)	492982.65
3625787.84	234.47243	(21061223)		
492999.96	3625787.84	245.35998	(20061224)	493021.12
3625791.04	246.40673	(20061224)		
493036.52	3625789.12	232.72033	(20061224)	493055.75
3625789.76	238.98195	(22071602)		
493076.28	3625787.84	238.82214	(22071602)	493094.87
3625787.84	236.69524	(20102503)		
493112.83	3625788.48	236.20059	(20102503)	493129.50
3625787.19	236.61130	(21041722)		
493148.74	3625787.19	236.02464	(22010819)	493164.77
3625790.40	232.25096	(22082604)		

493184.65	3625789.12	231.30732	(21071002)	493201.97
3625791.04	237.43204	(20101621)		
493221.21	3625790.40	237.57700	(22072201)	493238.52
3625791.04	237.57240	(22072201)		
492780.00	3626415.01	461.31523	(21080902)	492778.72
3626388.08	449.75572	(21080902)		
492747.94	3626386.16	415.16223	(22052124)	492742.16
3626418.22	432.36765	(22052124)		
492699.20	3626422.71	390.43916	(20072601)	492697.92
3626391.93	378.78316	(20072601)		
492678.68	3626411.81	383.61195	(20011420)	492626.09
3626426.56	344.92191	(20112021)		
492606.85	3626435.54	348.39672	(20112021)	492599.16
3626405.39	336.74924	(20112021)		
492491.20	3626644.88	485.76984	(21022823)	492517.36
3626636.70	513.82956	(20121705)		
492521.18	3626603.45	507.81240	(20081703)	492521.72
3626582.19	495.92006	(21120106)		
492512.46	3626553.84	482.06591	(22120301)	492513.55
3626533.13	474.21812	(20120120)		
492501.01	3626506.42	448.48958	(20081404)	492490.65
3626485.70	421.23148	(20081404)		
492479.21	3626464.45	386.22420	(20081404)	492466.12
3626447.00	361.25917	(20081404)		
492447.59	3626418.66	316.35807	(20081404)	492431.78
3626430.65	365.68533	(20081404)		
492481.93	3626620.35	475.57837	(20121705)	492482.48
3626594.18	469.02136	(20050622)		
492479.21	3626572.92	459.27145	(20081703)	492477.02
3626546.76	439.93826	(21120106)		
492467.76	3626523.32	426.81380	(21120106)	492463.94
3626507.51	426.66711	(22120301)		
492450.86	3626492.79	413.28314	(22120301)	492427.42
3626474.80	392.35231	(22120301)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 91

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK5 ***
 INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	371.25241	(22120301)	492803.94
3626616.07	392.44213	(22052522)		
492823.25	3626567.17	425.05321	(21081124)	492838.34
3626526.92	573.45889	(20051621)		
493039.78	3625834.45	245.38477	(22071602)	492743.19
3626628.92	189.37381	(22082504)		
492791.92	3626663.04	297.89228	(21100705)	492731.11
3626741.92	452.34464	(22121802)		
492774.75	3626728.05	614.50675	(20081602)	492674.05
3626738.96	324.90148	(20042501)		
492708.49	3626698.47	395.62487	(22010619)	492703.25
3626652.75	326.90619	(22010619)		
492723.78	3626582.16	315.34522	(20111623)	492761.18
3626553.82	347.46949	(21111722)		
493013.27	3625844.49	243.64491	(20061224)	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 14:49:32

PAGE 92

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)		
491461.48	490879.18	491073.28
	491655.58	491267.38

3628507.6	89.94351 (22092901)	89.67992 (22090601)	92.38710 (22080803)
130.93328 (22062102)	130.71222 (20090706)		
3628311.7	113.29303 (21040201)	102.12275 (22092901)	107.80761 (22090601)
96.30669 (20112323)	125.56155 (22102622)		

3628115.8	94.01653 (20101805)	119.81572 (22051505)	114.32914 (22092901)
122.46946 (22090601)	129.29581 (22062102)		
3627920.0	109.50043 (21052423)	103.01972 (20050124)	131.81474 (22051505)
126.61588 (22092901)	130.43188 (22090601)		
3627724.1	129.68508 (21081604)	107.48491 (20101707)	128.18275 (22122902)
148.02190 (22032023)	143.30329 (22092901)		
3627528.3	130.26163 (20081623)	137.62436 (22090223)	131.79086 (21081604)
156.12353 (21052423)	169.32062 (22032023)		
3627332.4	123.95387 (21020722)	120.68190 (20061501)	151.31770 (20081623)
157.14296 (22090223)	135.35893 (21120103)		
3627136.5	126.06488 (20101220)	138.41542 (21040202)	142.36116 (22042601)
135.85372 (21021623)	167.90431 (20081623)		
3626940.7	129.00844 (22011703)	129.17631 (21010724)	130.68342 (21092022)
156.30906 (21092022)	168.22691 (22101701)		
3626744.8	150.31919 (21101723)	167.55830 (21101723)	161.03592 (22040523)
181.40397 (22040523)	173.63859 (22040523)		
3626549.0	159.89873 (20061101)	171.76542 (20061101)	162.83805 (20061101)
188.84000 (20061101)	188.23500 (21061601)		
3626353.1	119.27721 (20070603)	159.00633 (20070603)	170.82295 (20052123)
166.91583 (20103021)	213.34707 (21050502)		
3626157.2	120.67638 (20103020)	136.11075 (20061223)	176.93030 (22040823)
178.77770 (21113004)	209.02515 (22012620)		
3625961.4	115.23128 (21113004)	138.03498 (22081101)	143.27932 (22092801)
172.93352 (22050405)	209.94498 (22051302)		
3625765.5	122.61135 (22092801)	165.55477 (22050405)	161.96662 (22051302)
152.50329 (20101401)	158.20445 (20051324)		
3625569.7	144.12067 (20051323)	149.03805 (20071603)	178.44950 (21040222)
171.98254 (21031622)	174.69130 (20052324)		
3625373.8	136.23492 (20101401)	148.13484 (20051324)	135.41638 (20102401)
174.24123 (20052324)	188.00676 (21071602)		
3625177.9	119.08443 (21071703)	144.30066 (20011322)	162.80833 (20052324)
168.41676 (21081303)	190.65965 (21071905)		
3624982.1	116.19168 (22120502)	155.14896 (20052324)	169.63283 (21081303)
168.45090 (21071905)	171.35378 (20091306)		
3624786.2	145.19915 (20052324)	152.71117 (21081303)	151.75183 (21042703)
164.76532 (22100802)	178.86114 (20092303)		
3624590.4	150.35615 (21081303)	146.00957 (21042703)	147.27425 (22100802)
161.55047 (20050524)	170.55639 (22081602)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 14:49:32

PAGE 93

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK6 ***
 INCLUDING SOURCE(S): STCK6 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
	491849.68		492043.78	492237.88
492431.98		492626.08		

3628507.6		142.59133 (22090703)	160.22481 (20111805)	149.47802 (22080905)
147.12267	(21071322)	161.96535 (22103119)		
3628311.7		136.99864 (22102522)	161.47801 (22122822)	146.78943 (22080905)
150.99351	(22062022)	163.65800 (22103119)		
3628115.8		165.59545 (20090706)	182.98876 (22090703)	188.52652 (20111805)
169.61057	(22062022)	163.99643 (22103119)		
3627920.0		179.40679 (22062102)	168.29433 (22102522)	183.20450 (20111805)
195.75740	(21081223)	182.40271 (22062723)		
3627724.1		143.91697 (22080803)	159.61170 (22102622)	236.50116 (22090703)
190.86328	(22080905)	216.35580 (22062723)		
3627528.3		160.33279 (22092901)	156.86507 (22072901)	198.79348 (22102522)
254.91580	(20111805)	292.14528 (22062723)		
3627332.4		154.08144 (20101805)	179.95376 (22092901)	245.78748 (22062102)
314.90749	(22090703)	273.60692 (22062723)		
3627136.5		186.17646 (21081604)	177.01990 (22122902)	215.70127 (22092901)
277.91074	(20050702)	296.49829 (21081223)		
3626940.7		176.91568 (22042601)	203.78374 (20081623)	210.01472 (21081604)
301.40695	(22090601)	467.63109 (20111805)		
3626744.8		225.67508 (22062101)	259.84240 (22011703)	324.09457 (21021501)
336.18606	(20050724)	536.53738 (21072302)		
3626549.0		190.11468 (21061601)	262.79492 (21081401)	333.73711 (21061202)
413.33167	(21050502)	555.64544 (20011918)		
3626353.1		189.11422 (20061223)	256.25716 (22081101)	320.20311 (20011918)
364.25670	(20112224)	500.94200 (21040224)		
3626157.2		233.20959 (20011918)	237.14109 (20101401)	265.49160 (20050604)
346.22201	(21040801)	384.80289 (21033024)		
3625961.4		217.75834 (22042324)	210.35043 (20050604)	250.77407 (21071905)
284.32184	(20021622)	298.97912 (20070424)		
3625765.5		170.12298 (20050604)	200.86158 (22062801)	229.52128 (20011823)
251.64597	(22052202)	260.43651 (20090401)		
3625569.7		204.70534 (22062801)	186.72370 (21040801)	199.37774 (22081704)
217.59060	(22103002)	241.82319 (20101822)		
3625373.8		200.87143 (22100802)	208.93603 (21031722)	215.18476 (20112521)
216.73440	(21020924)	249.68783 (20101822)		
3625177.9		199.00807 (20060802)	198.62100 (22081704)	188.04812 (20112021)
208.96646	(20101821)	236.41179 (20011420)		
3624982.1		193.52149 (22081602)	191.81336 (20112521)	186.92141 (22103002)
208.55783	(20021220)	231.92244 (20011420)		

3624786.2 | 176.52322 (22081704) 180.80509 (22052202) 170.33065 (20121620)
176.34181 (21020706) 211.51592 (20011420)
3624590.4 | 160.95536 (20021622) 176.43229 (20112021) 172.47883 (21020924)
172.28902 (20070424) 198.83920 (21030704)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 94

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK6 ***
INCLUDING SOURCE(S): STCK6 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD			X-COORD (METERS)
(METERS)	492820.18	493014.28	493208.38
493402.48	493596.58		

3628507.6	131.23502 (22050623)	140.45031 (20022901)	149.35146 (22061421)
158.94397 (21081221)	162.43302 (20101624)		
3628311.7	134.93305 (22050623)	149.11727 (21100706)	160.16857 (22061421)
138.37638 (22050622)	168.82253 (20101624)		
3628115.8	132.70003 (20081922)	179.25610 (21100706)	182.93693 (22043024)
179.68970 (20101624)	142.30904 (21080821)		
3627920.0	158.27826 (20081922)	162.49894 (22072824)	205.19353 (21081221)
209.63086 (20101624)	157.07619 (20100320)		
3627724.1	227.34810 (20081922)	233.82165 (22061421)	188.89898 (22082322)
177.81429 (20100320)	192.69737 (22081324)		
3627528.3	222.97768 (20081922)	237.27505 (22061421)	261.40054 (20101624)
265.71488 (22081324)	211.92992 (21052203)		
3627332.4	251.70263 (20022901)	273.54774 (21081221)	240.19019 (20100320)
226.50439 (21052203)	225.83025 (22091021)		
3627136.5	308.60677 (21100706)	271.81502 (20101624)	192.11357 (21070722)
221.84188 (22091021)	221.37851 (20081923)		
3626940.7	417.14396 (22061421)	305.84220 (22081324)	207.03784 (22091021)
201.33448 (22051721)	188.21535 (20081602)		
3626744.8	579.77474 (20101624)	368.11486 (20071323)	287.95613 (21072203)
212.54139 (22072121)	162.84927 (22072121)		
3626549.0	688.32260 (22082504)	403.41951 (20090521)	333.89579 (21083001)
252.80214 (22091223)	214.75113 (21020619)		

3626353.1		605.23336	(21013120)	384.37994	(22051422)	311.00054	(21063023)
252.13972		(21072102)	217.14739	(20041206)			
3626157.2		409.80143	(22090723)	429.26617	(22072201)	286.88831	(21081124)
251.27651		(22082502)	216.80570	(21063023)			
3625961.4		345.00520	(22052124)	330.39525	(21080802)	307.26962	(20041404)
242.60601		(21081124)	215.55526	(22082523)			
3625765.5		287.81242	(21103123)	309.49531	(20061224)	326.63006	(20101621)
277.89758		(22081224)	215.34130	(21081124)			
3625569.7		270.27053	(21103123)	291.25556	(21080902)	282.19366	(22081002)
273.50101		(20092323)	242.98294	(22080701)			
3625373.8		248.65398	(22081103)	246.97661	(20052502)	247.31334	(22071602)
260.13706		(21071002)	229.80033	(20041404)			
3625177.9		224.11733	(22081103)	242.17964	(21030703)	245.94476	(20061224)
241.94193		(22081002)	250.96867	(22072201)			
3624982.1		195.32320	(22081103)	214.20149	(20042523)	217.20312	(21061223)
220.59987		(22071602)	217.17346	(22082604)			
3624786.2		180.98122	(22080704)	210.74898	(20042523)	221.68665	(21080902)
190.38545		(21120822)	209.87212	(22081002)			
3624590.4		173.18283	(22080704)	185.78335	(22052124)	200.89278	(20052502)
198.32012		(20061224)	192.66708	(22070601)			

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 95

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD				X-COORD (METERS)
(METERS)		493790.68	493984.78	494178.88
494372.98		494567.08		

3628507.6		128.46820	(21080821)	110.53245	(21081621)	108.49745	(21040924)
65.68182		(22051722)	91.31078	(21052203)			
3628311.7		152.94791	(20100320)	170.53841	(22081324)	81.05032	(22051722)
93.47339		(21052203)	70.53609	(22061501)			
3628115.8		194.52145	(22081324)	144.46721	(21122302)	113.50917	(21052203)
74.60957		(22061501)	96.29756	(22091021)			

3627920.0	179.59067 (21122302)	158.01026 (21052203)	89.76339 (22061501)
104.72288 (22091021)	69.09338 (22121802)		
3627724.1	190.85752 (21052203)	140.48322 (22061501)	117.54188 (22091021)
92.34026 (20081923)	99.04409 (20071323)		
3627528.3	173.72297 (22091021)	134.82092 (22082422)	149.56091 (20081923)
131.55856 (20071323)	130.86991 (22051721)		
3627332.4	163.76304 (20081923)	167.54545 (20071323)	158.22376 (22051721)
142.60601 (21090103)	121.97958 (21110620)		
3627136.5	187.90694 (22051721)	161.68369 (21090103)	168.55796 (20081602)
167.71468 (21072203)	127.03367 (22102102)		
3626940.7	211.30298 (21072203)	150.82297 (22102102)	133.07944 (21080324)
138.27237 (21080324)	136.32630 (22072121)		
3626744.8	144.16828 (20031703)	152.57056 (20031703)	157.10388 (20031703)
156.20963 (20031703)	151.66339 (20031703)		
3626549.0	205.17751 (21020619)	186.79669 (21020619)	162.09295 (22062021)
152.22749 (20090820)	150.59330 (20090820)		
3626353.1	203.32741 (22070202)	198.87806 (21040722)	181.63500 (20070924)
174.96555 (21083001)	156.27148 (21083001)		
3626157.2	204.49127 (21072222)	196.10966 (20092322)	171.76375 (21090204)
170.48954 (21091323)	163.80017 (22070202)		
3625961.4	209.60596 (22073105)	179.52686 (21052723)	180.35677 (21070803)
174.10073 (21072102)	162.41588 (20092322)		
3625765.5	186.86531 (20071003)	189.11585 (22082502)	173.75355 (21091322)
157.17842 (21090701)	154.93438 (21070803)		
3625569.7	192.44032 (21081124)	173.64154 (20071201)	177.09381 (22041522)
170.76044 (22073105)	163.02490 (21063023)		
3625373.8	217.21207 (22081701)	173.96439 (21081124)	163.25599 (22040123)
149.27379 (22041522)	153.09743 (22082502)		
3625177.9	191.40345 (20041404)	207.62469 (22081701)	158.05423 (21081124)
155.71783 (22040123)	125.63134 (20071003)		
3624982.1	206.77906 (20092323)	182.32978 (21111920)	194.53084 (22081701)
145.13485 (21081124)	140.49935 (22040123)		
3624786.2	213.96519 (20101621)	184.72483 (20102320)	174.83121 (22081224)
173.37117 (22081701)	138.11948 (22091302)		
3624590.4	193.74083 (22082604)	189.74227 (22050521)	163.54352 (20041404)
157.12615 (22081224)	152.27577 (22081701)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 96

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK6 ***
 INCLUDING SOURCE(S): STCK6 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)

494761.18

3628507.6	70.50114 (22061501)
3628311.7	95.56740 (22091021)
3628115.8	72.17104 (22082422)
3627920.0	83.92277 (20081923)
3627724.1	75.67948 (20071323)
3627528.3	95.19455 (21090103)
3627332.4	101.71643 (20081602)
3627136.5	102.35898 (21053101)
3626940.7	120.39520 (22072121)
3626744.8	141.54504 (20031703)
3626549.0	148.07646 (20090820)
3626353.1	155.81984 (22091223)
3626157.2	153.48029 (21040722)
3625961.4	143.54297 (21090204)
3625765.5	154.43318 (21072102)
3625569.7	143.59438 (21090701)
3625373.8	144.25883 (22073105)
3625177.9	145.02566 (20092022)
3624982.1	131.62541 (20071003)
3624786.2	122.93331 (22040123)
3624590.4	129.07107 (22091302)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 97

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK6 ***
INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC (YYMMDDHH)		

492883.25	3625830.80	300.99417	(21030703)	492919.80
3625834.65	310.87045	(21080902)		
492955.07	3625845.55	316.74305	(21061223)	493069.86
3625832.73	303.86077	(22070601)		
493094.87	3625832.73	334.75167	(22081002)	493110.90
3625837.21	331.06241	(22081002)		
493151.95	3625834.01	330.36897	(22080705)	493166.70
3625837.86	338.79597	(20101621)		
493187.86	3625836.57	342.01359	(22072201)	493201.33
3625836.57	333.21903	(22072201)		
493240.44	3625836.57	307.58543	(21092804)	492881.32
3625908.40	308.25800	(21030703)		
492906.98	3625898.14	327.40076	(21080902)	492901.84
3625911.60	327.33700	(21080902)		
492928.14	3625914.81	331.24253	(21080902)	492933.91
3625898.14	325.95878	(21080902)		
492951.87	3625908.40	328.14751	(21061223)	492973.67
3625907.11	334.16640	(20061224)		
492993.55	3625914.17	318.05372	(22071602)	492996.11
3625897.50	311.83144	(21013120)		
493015.99	3625896.85	331.90042	(22071602)	493023.05
3625912.24	328.11728	(22071602)		
493044.21	3625907.11	324.87628	(22081002)	493066.66
3625907.76	353.92865	(22081002)		
493085.25	3625912.24	345.57533	(22010819)	493087.18
3625895.57	344.41462	(22010819)		
493108.98	3625911.60	347.61688	(22080705)	493112.19
3625897.50	342.84821	(22080705)		
493133.99	3625901.98	352.60408	(20101621)	492874.27
3625788.48	297.69474	(22090723)		
492894.15	3625789.12	296.55258	(21030703)	492910.18
3625790.40	287.10309	(20052502)		
492930.70	3625786.55	301.19486	(21080902)	492947.38
3625791.04	321.28527	(21080902)		
492963.41	3625787.84	310.21786	(21080902)	492982.65
3625787.84	310.35420	(21061223)		
492999.96	3625787.84	306.42123	(20061224)	493021.12
3625791.04	310.66896	(20061224)		
493036.52	3625789.12	291.07927	(21013120)	493055.75
3625789.76	312.14078	(22071602)		
493076.28	3625787.84	303.67477	(22071602)	493094.87
3625787.84	297.46869	(21080802)		
493112.83	3625788.48	323.55555	(22081002)	493129.50
3625787.19	327.41494	(22081002)		
493148.74	3625787.19	322.12787	(22010819)	493164.77
3625790.40	315.04932	(22082604)		
493184.65	3625789.12	323.10753	(20101621)	493201.97
3625791.04	329.34015	(20101621)		

493221.21	3625790.40	332.40184	(22072201)	493238.52
3625791.04	309.95686	(22072201)		
492780.00	3626415.01	690.64993	(22082506)	492778.72
3626388.08	636.06079	(22082506)		
492747.94	3626386.16	598.57940	(20071124)	492742.16
3626418.22	625.19741	(21101320)		
492699.20	3626422.71	630.86889	(21033024)	492697.92
3626391.93	579.50644	(21033024)		
492678.68	3626411.81	584.98783	(21033024)	492626.09
3626426.56	568.21325	(20011823)		
492606.85	3626435.54	559.27655	(21071905)	492599.16
3626405.39	536.86577	(21040801)		
492491.20	3626644.88	493.16219	(22092802)	492517.36
3626636.70	530.06066	(22092802)		
492521.18	3626603.45	545.78712	(21081401)	492521.72
3626582.19	564.93023	(20052123)		
492512.46	3626553.84	541.12892	(20061223)	492513.55
3626533.13	521.16971	(22081101)		
492501.01	3626506.42	494.93629	(20011918)	492490.65
3626485.70	489.83404	(20051323)		
492479.21	3626464.45	476.07400	(20051323)	492466.12
3626447.00	453.94252	(22051302)		
492447.59	3626418.66	428.96585	(20101401)	492431.78
3626430.65	425.42223	(22051302)		
492481.93	3626620.35	489.74124	(21090703)	492482.48
3626594.18	508.18021	(21081401)		
492479.21	3626572.92	512.94640	(20052123)	492477.02
3626546.76	505.28951	(20061223)		
492467.76	3626523.32	468.08987	(22081101)	492463.94
3626507.51	469.77803	(22081101)		
492450.86	3626492.79	449.45814	(22081101)	492427.42
3626474.80	430.68545	(20011918)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 14:49:32

PAGE 98

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK6 ***
 INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	410.01261	(20011918)	492803.94
3626616.07	681.26079	(22011423)		
492823.25	3626567.17	604.54890	(22082504)	492838.34
3626526.92	732.14063	(21081124)		
493039.78	3625834.45	320.39336	(22071602)	492743.19
3626628.92	718.00105	(22082513)		
492791.92	3626663.04	648.11192	(22010702)	492731.11
3626741.92	721.62734	(22062723)		
492774.75	3626728.05	664.50975	(20101624)	492674.05
3626738.96	787.15582	(22090703)		
492708.49	3626698.47	789.42321	(20111805)	492703.25
3626652.75	586.70861	(21081301)		
492723.78	3626582.16	475.13031	(22010619)	492761.18
3626553.82	660.49133	(21091023)		
493013.27	3625844.49	302.82435	(20061224)	

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 99

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK7 ***
 INCLUDING SOURCE(S): STCK7 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
 GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)	X-COORD (METERS)
491461.48	491267.38
490879.18	491073.28
491655.58	

3628507.6	115.51373 (22092901)	123.40037 (22090601)	110.43060 (22060102)
132.57450	(20032306)	147.00904 (20050702)	
3628311.7	104.07756 (21040201)	129.21171 (22092901)	151.12835 (22090601)
129.27199	(22072901)	136.31918 (21050323)	
3628115.8	89.59977 (20101805)	110.99843 (21040201)	141.99297 (21031402)
167.45077	(22090601)	190.70141 (22072901)	

3627920.0	108.84565 (21052423)	91.99790 (20050124)	119.17480 (22051505)
160.56289 (21031402)	165.81773 (22090601)		
3627724.1	113.63659 (21081604)	98.06519 (20101707)	116.55146 (22122902)
131.56409 (22051505)	191.54384 (21031402)		
3627528.3	122.69412 (20081623)	124.75067 (22090223)	112.44805 (22092824)
144.49196 (21052423)	151.50076 (22032023)		
3627332.4	143.85869 (21021622)	156.54506 (20080201)	141.58385 (20081623)
140.67830 (21081604)	139.01256 (21052423)		
3627136.5	169.35917 (22101701)	160.71790 (21040202)	181.23047 (21020722)
175.83302 (20061501)	158.14079 (20081623)		
3626940.7	152.55719 (22111307)	145.37775 (22102523)	185.95391 (21092022)
202.91857 (22101701)	209.51288 (21040202)		
3626744.8	176.31808 (22051301)	207.14625 (22051301)	205.67146 (21010801)
228.96730 (21112924)	213.89567 (22011703)		
3626549.0	181.33544 (21101721)	198.98814 (21101721)	192.51303 (21101721)
237.33546 (20122208)	240.24961 (20122208)		
3626353.1	165.92460 (21061202)	210.00963 (20070603)	235.12346 (20070603)
236.37358 (20052123)	278.84167 (20103021)		
3626157.2	163.90039 (21050502)	185.85170 (20061223)	221.28376 (20040305)
234.29537 (22110522)	269.01545 (22081101)		
3625961.4	143.12194 (22110522)	173.49562 (22081101)	177.36298 (20021723)
208.29346 (20011918)	251.17829 (22051302)		
3625765.5	156.09751 (22092801)	190.50363 (20011918)	193.12034 (20051323)
171.26244 (20041521)	190.06509 (20051324)		
3625569.7	168.36461 (20051323)	165.91718 (21051102)	210.82741 (21040222)
195.90361 (21031622)	205.09160 (20050604)		
3625373.8	156.12987 (20101401)	164.94496 (20051324)	154.32828 (22050401)
188.04076 (20050604)	213.92990 (21081303)		
3625177.9	133.60473 (20112422)	161.36914 (20061423)	176.24483 (20052324)
186.24250 (21081303)	207.52585 (21071905)		
3624982.1	127.35344 (20011322)	170.81182 (20052324)	182.76213 (21081303)
169.96768 (21071905)	194.25744 (21040801)		
3624786.2	161.71827 (20052324)	160.67142 (21081303)	160.54749 (22111601)
179.53946 (22100802)	191.40949 (20092303)		
3624590.4	155.59141 (21081303)	148.51988 (22111601)	148.65861 (22100802)
178.32267 (20050524)	187.66296 (22081602)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 100

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK7 ***
 INCLUDING SOURCE(S): STCK7 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
 GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)				X-COORD (METERS)
	491849.68		492043.78	492237.88
492431.98		492626.08		

3628507.6		162.95971 (22090703)	178.15380 (20111805)	197.55006 (22080905)
165.96516	(21071322)	180.28780 (22103119)		
3628311.7		174.13357 (22102522)	176.67561 (22122822)	173.79733 (22080905)
182.95577	(22062022)	177.69900 (22103119)		
3628115.8		170.65131 (20090706)	205.12188 (22090703)	206.04183 (20111805)
207.59251	(22062022)	185.60106 (22062723)		
3627920.0		189.50890 (20032306)	205.90756 (22102522)	192.05800 (22043023)
186.87987	(21081223)	207.71024 (22062723)		
3627724.1		167.04494 (22060102)	167.70917 (20081606)	244.90018 (22090703)
220.23439	(22080905)	234.74718 (22062723)		
3627528.3		212.93921 (21031402)	215.60998 (22072901)	224.71007 (22102522)
259.04672	(20111805)	285.75689 (22062723)		
3627332.4		144.47622 (22032023)	219.44106 (21031402)	264.02435 (22072901)
298.91925	(22072924)	273.77586 (22103123)		
3627136.5		159.99220 (21081604)	154.72627 (22122902)	251.63285 (22011702)
276.20141	(22101422)	289.67022 (22062022)		
3626940.7		230.83315 (21021623)	189.25702 (20081623)	209.58747 (21052423)
341.64713	(22090601)	366.72160 (20111805)		
3626744.8		277.79771 (21010724)	341.11011 (22110520)	412.28977 (21093023)
281.98679	(20081623)	683.43686 (22072901)		
3626549.0		250.37715 (20061101)	340.34617 (20061101)	420.84027 (20061101)
514.93203	(20061101)	677.43544 (20120422)		
3626353.1		251.24282 (20061223)	312.49739 (22040823)	375.69102 (22012620)
492.60286	(20101401)	651.96333 (21020303)		
3626157.2		277.16913 (22040423)	295.40064 (22051302)	302.31988 (20102603)
398.55854	(21071905)	450.70693 (20121620)		
3625961.4		265.91161 (20101401)	236.96653 (20061423)	269.36280 (22062801)
314.93505	(22081602)	328.75584 (20021220)		
3625765.5		197.56037 (20050604)	222.13836 (22062801)	256.43226 (20060802)
275.22262	(20091424)	246.07243 (20070424)		
3625569.7		217.44496 (21071602)	210.41095 (21040801)	213.28014 (20112421)
241.69926	(22103002)	217.56312 (20090401)		
3625373.8		206.66007 (21071905)	227.04807 (21031722)	235.57853 (21040224)
212.61849	(20121620)	229.32877 (20101822)		
3625177.9		218.29121 (20050524)	211.85920 (22081704)	194.04457 (20112021)
189.47777	(20021621)	217.39101 (20101822)		
3624982.1		208.10821 (22081602)	195.20963 (21040224)	199.34309 (22103002)
192.86148	(20021220)	208.53984 (20011420)		
3624786.2		187.64169 (22081704)	185.55543 (20091424)	181.51976 (20121620)
162.17671	(20021220)	188.75401 (20011420)		

3624590.4 | 179.79086 (20021622) 186.75354 (20112021) 149.48444 (21031723)
145.74465 (20070424) 181.69013 (20011420)
^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 101

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK7 ***
INCLUDING SOURCE(S): STCK7 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD (METERS)			X-COORD (METERS)
	492820.18	493014.28	493208.38
493402.48	493596.58		

3628507.6	152.70200 (22050623)	186.19264 (20022901)	156.24302 (20022304)
145.25885 (21081221)	142.33040 (20101624)		
3628311.7	154.25297 (22050623)	175.41015 (20022901)	139.70262 (22061421)
130.34402 (20060605)	170.96081 (20101624)		
3628115.8	147.13268 (21012102)	184.23941 (21100706)	158.91546 (22043024)
153.35864 (22082322)	120.35499 (20041224)		
3627920.0	160.52189 (21012102)	190.95301 (20031321)	183.52941 (21081221)
209.96003 (20101624)	147.82920 (20100320)		
3627724.1	204.68349 (22100520)	237.93318 (20031321)	166.84730 (22070804)
155.20333 (20100320)	191.60842 (22081324)		
3627528.3	219.62509 (20081922)	204.82928 (21092823)	255.96497 (20101624)
229.58060 (22081324)	193.05006 (21070722)		
3627332.4	251.08514 (21053124)	243.27979 (21081221)	217.85672 (20100320)
206.17560 (21070722)	204.80598 (22061501)		
3627136.5	285.25791 (20022901)	256.41241 (20101624)	197.34116 (21122302)
216.05643 (22091021)	247.20380 (20081923)		
3626940.7	351.97350 (20031321)	309.23053 (22010702)	257.69328 (22091021)
235.92729 (20071323)	209.50155 (21090103)		
3626744.8	554.61252 (20101624)	437.41928 (20081923)	374.17656 (20081602)
254.65380 (22102102)	211.68665 (21110518)		
3626549.0	790.31204 (22031519)	548.82308 (20090820)	442.73765 (20090820)
349.54139 (20090820)	300.66642 (20090820)		
3626353.1	661.92481 (21060903)	350.98502 (22041522)	420.68476 (21072222)
334.42600 (21020719)	311.87451 (21091323)		

3626157.2	460.76566 (21030703)	437.52018 (20092323)	248.05401 (20071201)
226.21864 (22073105)	270.93787 (20090703)		
3625961.4	349.79469 (22052124)	318.19827 (22121819)	307.82918 (22122323)
204.91337 (21081124)	194.27542 (22041522)		
3625765.5	296.51521 (21103123)	292.11187 (21060903)	311.66116 (20101621)
287.43983 (22080701)	179.13083 (21081124)		
3625569.7	252.85930 (21103123)	278.33397 (21080902)	260.24716 (22081002)
254.82438 (20092323)	247.82285 (22080701)		
3625373.8	227.36598 (22081103)	231.77072 (20052502)	228.53154 (22071602)
241.96976 (21071002)	191.65623 (20041404)		
3625177.9	203.54001 (22081103)	229.23579 (21030703)	217.49149 (21060903)
219.36469 (22081002)	229.39821 (22072201)		
3624982.1	178.23418 (22081103)	196.57158 (20042523)	195.15722 (21061223)
197.05048 (22071602)	199.19530 (21071002)		
3624786.2	168.15655 (20112619)	187.05265 (20042523)	198.81473 (21080902)
161.72148 (20061224)	189.02733 (22081002)		
3624590.4	160.45573 (20112619)	171.17490 (22052124)	182.73278 (20052502)
171.81819 (20061224)	160.47223 (22070601)		

^ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 102

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK7 ***
 INCLUDING SOURCE(S): STCK7 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
 GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3
 **

Y-COORD			X-COORD (METERS)
(METERS)			
494372.98	493790.68	493984.78	494178.88
	494567.08		

- - - - -
 - - - - -

3628507.6	103.07504 (21080821)	115.28926 (22011808)	110.97910 (21040924)
77.62179 (22051722)	95.82467 (21052203)		
3628311.7	139.10944 (20100320)	162.19075 (22081324)	95.78185 (22051722)
97.00925 (21052203)	85.12110 (22061501)		
3628115.8	168.23773 (22011808)	149.73448 (21122302)	116.86561 (21052203)
90.17601 (22061501)	106.65310 (22091021)		
3627920.0	174.13212 (21122302)	154.43368 (21052203)	109.23425 (22061501)
119.85136 (22091021)	82.40852 (22121802)		

3627724.1	176.86511 (21052203)	163.14206 (22061501)	139.67707 (22091021)
102.66977 (20081923)	108.90867 (20081923)		
3627528.3	189.86456 (22061501)	149.12577 (22091021)	169.38773 (20081923)
150.43902 (20071323)	143.27416 (22051721)		
3627332.4	168.53327 (22121802)	183.99439 (20071323)	169.42365 (22051721)
152.71177 (21090103)	138.57901 (21110620)		
3627136.5	195.32490 (22051721)	179.37228 (21090103)	207.62930 (20081602)
207.54085 (21072203)	156.92675 (21072203)		
3626940.7	254.69318 (21072203)	185.20861 (21072203)	151.17283 (21020803)
162.92316 (21110518)	168.22050 (22072121)		
3626744.8	190.99043 (22072121)	169.89483 (20062123)	174.31614 (20062123)
161.68170 (20062123)	142.74488 (20062123)		
3626549.0	283.02760 (20090820)	256.98085 (20090820)	221.37960 (20090820)
207.83004 (20090820)	196.12820 (20090820)		
3626353.1	284.49698 (21040722)	274.94919 (20070924)	206.08733 (21083001)
204.71472 (22091223)	193.55271 (22091223)		
3626157.2	271.73132 (21072102)	231.53257 (21020719)	234.08543 (21091323)
221.90581 (22070202)	197.20169 (21040722)		
3625961.4	170.11993 (21063023)	206.69604 (22082522)	230.62958 (21072222)
224.15627 (20092322)	176.83267 (21020719)		
3625765.5	152.08559 (22041522)	151.77067 (20082201)	148.88915 (21063023)
167.68169 (22082522)	196.90314 (20090703)		
3625569.7	158.26946 (21081124)	146.94953 (20071201)	141.16476 (22041522)
141.18513 (20082201)	133.53797 (21063023)		
3625373.8	232.97054 (22081701)	142.00677 (21081124)	138.24847 (20071201)
131.86799 (22041522)	122.39997 (21082924)		
3625177.9	177.15017 (21111920)	218.59123 (22081701)	129.16436 (21050422)
121.61590 (20071201)	104.40079 (22041522)		
3624982.1	191.19631 (20092323)	181.86968 (21111920)	200.22688 (22081701)
119.87413 (21050422)	103.54806 (20071201)		
3624786.2	194.12164 (22072201)	160.77759 (20080301)	180.89158 (22081224)
174.65886 (22081701)	111.87855 (21050422)		
3624590.4	171.89839 (22010819)	174.64297 (22050521)	135.05917 (20041404)
157.95417 (22081224)	154.31749 (20101720)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 103

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK7 ***
 INCLUDING SOURCE(S): STCK7 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
 GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)

3628507.6	84.23568 (22061501)
3628311.7	103.11528 (22091021)
3628115.8	74.43119 (22082422)
3627920.0	97.07640 (20081923)
3627724.1	89.35769 (20071323)
3627528.3	102.98545 (21090103)
3627332.4	131.26805 (20081602)
3627136.5	123.57925 (21053101)
3626940.7	162.42954 (22072121)
3626744.8	141.12158 (20031703)
3626549.0	184.87744 (20090820)
3626353.1	168.69288 (21080724)
3626157.2	188.21679 (21040722)
3625961.4	172.04466 (20062523)
3625765.5	178.27341 (21072102)
3625569.7	134.46790 (22082522)
3625373.8	119.50161 (20092021)
3625177.9	117.32011 (21082923)
3624982.1	106.22692 (21071124)
3624786.2	90.74967 (20050501)
3624590.4	102.57498 (21050422)

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 104

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: STCK7 ***
INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

492883.25	3625830.80	309.97532	(21030703)	492919.80
3625834.65	308.14286	(20052502)		
492955.07	3625845.55	311.15568	(21080902)	493069.86
3625832.73	287.92002	(22121819)		
493094.87	3625832.73	318.88672	(22081002)	493110.90
3625837.21	325.00793	(22010819)		
493151.95	3625834.01	316.07139	(20101621)	493166.70
3625837.86	325.97976	(20101621)		
493187.86	3625836.57	328.79305	(22072201)	493201.33
3625836.57	312.36665	(22072201)		
493240.44	3625836.57	283.90474	(20092323)	492881.32
3625908.40	325.34586	(21030703)		
492906.98	3625898.14	320.09039	(20052502)	492901.84
3625911.60	326.52037	(20052502)		
492928.14	3625914.81	337.66538	(21080902)	492933.91
3625898.14	331.93551	(21080902)		
492951.87	3625908.40	321.34862	(21061223)	492973.67
3625907.11	324.15306	(21060903)		
492993.55	3625914.17	319.21394	(22071602)	492996.11
3625897.50	309.18520	(22071602)		
493015.99	3625896.85	322.62589	(22071602)	493023.05
3625912.24	313.80912	(22071602)		
493044.21	3625907.11	312.83407	(22081002)	493066.66
3625907.76	341.70708	(22081002)		
493085.25	3625912.24	341.46902	(22010819)	493087.18
3625895.57	340.56246	(22010819)		
493108.98	3625911.60	336.51980	(20101621)	493112.19
3625897.50	329.57563	(22080705)		
493133.99	3625901.98	343.72547	(22072201)	492874.27
3625788.48	291.83375	(20042523)		
492894.15	3625789.12	302.91783	(21030703)	492910.18
3625790.40	295.40569	(20052502)		
492930.70	3625786.55	299.52050	(20052502)	492947.38
3625791.04	312.16386	(21080902)		
492963.41	3625787.84	309.40726	(21080902)	492982.65
3625787.84	296.56587	(21061223)		
492999.96	3625787.84	291.17281	(21060903)	493021.12
3625791.04	294.13846	(21060903)		
493036.52	3625789.12	281.93623	(22071602)	493055.75
3625789.76	299.67152	(22071602)		
493076.28	3625787.84	284.58251	(22071602)	493094.87
3625787.84	277.95551	(22121819)		
493112.83	3625788.48	306.14335	(22081002)	493129.50
3625787.19	311.99787	(22081002)		
493148.74	3625787.19	313.81503	(22010819)	493164.77
3625790.40	301.57167	(21071002)		
493184.65	3625789.12	313.83074	(20101621)	493201.97
3625791.04	319.00092	(22072201)		
493221.21	3625790.40	314.85800	(22072201)	493238.52
3625791.04	295.98688	(20092323)		

492780.00	3626415.01	745.34750	(22082506)	492778.72
3626388.08	687.69668	(21030703)		
492747.94	3626386.16	696.93559	(20072601)	492742.16
3626418.22	728.60734	(20011420)		
492699.20	3626422.71	734.02233	(21040224)	492697.92
3626391.93	706.50716	(22103002)		
492678.68	3626411.81	722.91965	(20021622)	492626.09
3626426.56	678.00261	(20080701)		
492606.85	3626435.54	659.56972	(20120120)	492599.16
3626405.39	630.63444	(20080701)		
492491.20	3626644.88	642.30405	(21021501)	492517.36
3626636.70	672.83801	(21021501)		
492521.18	3626603.45	675.16454	(22092202)	492521.72
3626582.19	676.92826	(22040523)		
492512.46	3626553.84	626.44494	(20061101)	492513.55
3626533.13	628.68610	(20010922)		
492501.01	3626506.42	608.04433	(22012520)	492490.65
3626485.70	588.20945	(21022823)		
492479.21	3626464.45	563.43260	(20121705)	492466.12
3626447.00	557.40972	(21030901)		
492447.59	3626418.66	545.33223	(20011918)	492431.78
3626430.65	517.38514	(21030901)		
492481.93	3626620.35	592.38703	(20051623)	492482.48
3626594.18	625.47725	(22040523)		
492479.21	3626572.92	608.22499	(22092802)	492477.02
3626546.76	590.33280	(20061101)		
492467.76	3626523.32	579.82767	(22111006)	492463.94
3626507.51	573.76710	(20051601)		
492450.86	3626492.79	557.57803	(22010622)	492427.42
3626474.80	525.74636	(21041723)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 105

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: STCK7 ***
 INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

492402.89 3626460.63 503.52313 (21022823) 492803.94
3626616.07 731.06300 (22010702)
492823.25 3626567.17 773.54764 (22011423) 492838.34
3626526.92 894.04410 (22092902)
493039.78 3625834.45 308.75767 (22071602) 492743.19
3626628.92 1000.44958 (22090503)
492791.92 3626663.04 811.64629 (21063002) 492731.11
3626741.92 703.33456 (22062723)
492774.75 3626728.05 707.72173 (20022901) 492674.05
3626738.96 755.47822 (22072924)
492708.49 3626698.47 803.61141 (20051422) 492703.25
3626652.75 1235.80104 (22102522)
492723.78 3626582.16 802.54927 (21011805) 492761.18
3626553.82 723.18571 (20110221)
493013.27 3625844.49 290.39810 (22071602)

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 106

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , STCK4 , STCK5 ,
STCK6 , STCK7 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD			X-COORD (METERS)
(METERS)			
	490879.18	491073.28	491267.38
491461.48		491655.58	

3628507.6 | 483.95331 (22092901) 479.71711 (22090601) 483.24201 (22080803)
622.88480 (22062102) 641.80182 (20090706)
3628311.7 | 501.75647 (21040201) 529.20913 (22092901) 574.15575 (22090601)
519.51815 (22072901) 601.83908 (22102622)
3628115.8 | 430.98181 (20101702) 542.62867 (22051505) 574.26369 (22092901)
662.72070 (22090601) 717.79714 (22072901)

3627920.0	501.63664 (21052423)	510.82849 (22122902)	576.33591 (22032023)
621.97189 (22092901)	744.68092 (22090601)		
3627724.1	581.78641 (21081604)	485.29050 (20101707)	586.07861 (22122902)
651.66430 (22032023)	704.89576 (22092901)		
3627528.3	591.33075 (20050803)	622.37028 (22090223)	656.03509 (21081604)
690.02974 (21052423)	707.60285 (22032023)		
3627332.4	628.87137 (21020722)	628.12589 (20061501)	670.25550 (20050803)
728.56808 (22090223)	654.95443 (21081604)		
3627136.5	650.73450 (22101701)	700.95234 (21040202)	722.60745 (21093023)
706.39612 (21021623)	711.06151 (20050803)		
3626940.7	595.08984 (22011703)	624.18583 (21010724)	693.77020 (21092022)
774.11264 (22110520)	827.30852 (21040202)		
3626744.8	665.58342 (21101723)	752.42515 (22040523)	765.68658 (22040523)
794.88569 (22040523)	822.82016 (21112924)		
3626549.0	700.19482 (20061101)	756.09669 (20061101)	722.46950 (20061101)
860.84493 (20061101)	843.29496 (20061101)		
3626353.1	606.09443 (20070603)	777.30701 (20070603)	814.85173 (20052123)
787.38547 (22111321)	940.32434 (21050502)		
3626157.2	579.46306 (20103020)	659.44007 (20061223)	808.77153 (22040823)
836.64320 (22110522)	930.58512 (22081101)		
3625961.4	550.34875 (22110522)	639.91324 (22081101)	633.30955 (20021723)
757.09716 (20011918)	887.36156 (20051323)		
3625765.5	585.60184 (22092801)	730.19783 (20011918)	720.57617 (20051323)
612.94314 (22010705)	688.19543 (20051324)		
3625569.7	654.37522 (20051323)	653.49098 (21051102)	768.33357 (21040222)
733.45655 (20041701)	750.41609 (20050604)		
3625373.8	607.84520 (20101401)	655.88277 (20051324)	592.90852 (22050401)
734.10387 (20050604)	851.53457 (22030622)		
3625177.9	544.82098 (20051324)	655.04644 (20061423)	670.36773 (20052324)
761.73096 (21081303)	843.72096 (21071905)		
3624982.1	508.48202 (20011322)	644.48397 (20052324)	762.47169 (21081303)
717.05272 (21071905)	797.28363 (21040801)		
3624786.2	663.09113 (20052324)	686.60055 (21081303)	694.68120 (22111601)
756.61285 (22100802)	815.37352 (20060802)		
3624590.4	679.52245 (21081303)	650.04536 (22111601)	628.98935 (22100802)
763.12699 (20050524)	815.62244 (22081602)		

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***
 *** 14:49:32

PAGE 107

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): STCK1 , STCK2
 , STCK3 , STCK4 , STCK5 ,
 STCK6 , STCK7 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
	491849.68		492043.78	492237.88
492431.98		492626.08		

3628507.6	777.06520 (22090703)	827.66748 (20111805)	871.38174 (22080905)
716.40489 (21071322)	741.97215 (22103119)		
3628311.7	716.50757 (22102522)	855.65933 (22122822)	793.33120 (20101705)
800.20451 (22062022)	770.65280 (22062723)		
3628115.8	757.61429 (20090706)	955.81535 (22090703)	1055.34191 (20111805)
847.01619 (21081223)	882.10555 (22062723)		
3627920.0	818.57085 (22072901)	852.25682 (22102522)	934.94487 (22122822)
979.43185 (22080905)	912.16116 (22062723)		
3627724.1	769.23121 (22090601)	730.90911 (22102622)	1170.31172 (22090703)
989.37886 (22080905)	991.23452 (22062723)		
3627528.3	759.74388 (22092901)	757.72834 (22072901)	949.27129 (22102522)
1329.73854 (20111805)	1243.90787 (22062723)		
3627332.4	653.75765 (22122902)	785.55189 (22092901)	1071.26734 (22072901)
1523.15199 (22090703)	1288.96718 (22062022)		
3627136.5	766.79152 (21081604)	801.60006 (21052423)	890.21028 (22092901)
1181.52011 (20050702)	1381.42075 (22080905)		
3626940.7	831.25413 (21020722)	820.33716 (20050724)	969.80687 (21081604)
1164.41044 (22090601)	1974.76411 (20111805)		
3626744.8	983.24126 (22011703)	1121.78101 (21092022)	1393.98449 (21040202)
1254.98673 (20061501)	1868.00123 (20070601)		
3626549.0	829.67924 (20061101)	1054.19358 (20061101)	1273.68430 (20010922)
1513.86928 (20010922)	1825.95847 (20120422)		
3626353.1	847.19222 (20061223)	1033.56152 (22040823)	1144.85750 (21030901)
1332.17473 (20101401)	1752.19394 (20060722)		
3626157.2	942.77413 (20011918)	972.11165 (22051302)	977.96107 (20102603)
1259.76963 (21040801)	1503.86189 (20121620)		
3625961.4	902.90679 (20101401)	824.12344 (20061423)	947.25581 (22062801)
1105.16059 (20021622)	1146.95807 (20021220)		
3625765.5	696.00158 (20120120)	803.53597 (21071602)	921.31244 (20060802)
1057.30328 (20112521)	1028.07794 (20070424)		
3625569.7	854.41414 (22030622)	759.91372 (21040801)	840.95855 (21032821)
956.32652 (20112021)	945.68368 (20090401)		
3625373.8	859.83427 (21071905)	900.63951 (20092303)	923.79017 (20112521)
961.34375 (20121620)	968.33576 (20101822)		
3625177.9	872.54731 (20050524)	853.80894 (22081704)	815.87970 (20112021)
835.66888 (20021621)	945.98101 (20101822)		
3624982.1	854.31337 (21031722)	861.00124 (20021622)	851.09205 (20112021)
842.66648 (20021220)	927.59901 (20011420)		

3624786.2 | 780.39702 (22081704) 813.59675 (20091424) 757.58869 (20121620)
814.20126 (20021220) 874.59774 (20101822)
3624590.4 | 805.22766 (20021622) 790.78246 (20112021) 731.07087 (20121620)
740.01448 (21020706) 846.30813 (20011420)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 108

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , STCK4 , STCK5 ,
STCK6 , STCK7 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD			X-COORD (METERS)
(METERS)	492820.18	493014.28	493208.38
493402.48	493596.58		

3628507.6	778.62371 (22050623)	724.54480 (20022901)	746.90356 (20031321)
719.33966 (21081221)	731.21814 (21072221)		
3628311.7	812.36141 (22050623)	772.66300 (20022901)	704.94182 (22061421)
786.38539 (21081221)	865.32369 (20101624)		
3628115.8	763.57168 (22050623)	823.81715 (21100706)	866.27801 (22043024)
816.21586 (20101624)	802.49776 (21080821)		
3627920.0	807.59668 (22050623)	848.93959 (21100706)	948.89476 (21081221)
1028.74127 (20101624)	860.74477 (20100320)		
3627724.1	1047.54298 (22050623)	1080.91841 (20031321)	950.90686 (21081221)
851.02997 (20100320)	1052.70911 (22081324)		
3627528.3	987.57720 (20081922)	1100.57503 (22043024)	1162.26530 (20101624)
1188.56241 (22081324)	1031.39505 (21052203)		
3627332.4	1154.75797 (20081922)	1291.42482 (21081221)	1131.81768 (22081324)
1105.47730 (21052203)	1005.02750 (22091021)		
3627136.5	1275.44139 (20022901)	1133.80084 (20101624)	943.08683 (21070722)
919.54162 (22091021)	970.39106 (20081923)		
3626940.7	1439.33127 (22061421)	1289.45095 (22081324)	1002.21094 (22091021)
884.45820 (20071323)	839.62982 (20081602)		
3626744.8	1295.21446 (20101624)	1438.15351 (20081923)	1213.99071 (21072203)
940.74853 (21072203)	773.19955 (22072121)		

3626549.0		1679.04467	(22051422)	1483.93492	(22062722)	1486.47443	(21020619)
1264.97129		(21020619)	1056.81376	(21020619)			
3626353.1		2054.35513	(21061223)	1847.19658	(21081124)	1584.06841	(21063023)
1427.94512		(20092322)	1267.35083	(21091323)			
3626157.2		1607.40524	(22090723)	1752.33409	(22072201)	1449.60894	(22070621)
1249.99890		(22041522)	1116.40776	(21063023)			
3625961.4		1365.85469	(22052124)	1403.30610	(22071602)	1250.58091	(20041404)
1198.48195		(22070621)	1032.12971	(22041522)			
3625765.5		1196.64692	(21103123)	1795.97943	(21061223)	1262.02358	(20101621)
1128.22861		(22081224)	1053.58884	(22070621)			
3625569.7		1075.81601	(21103123)	1385.34658	(21080902)	1203.46866	(22081002)
1113.79489		(20092323)	1041.49524	(22080701)			
3625373.8		976.30319	(22081103)	1030.56485	(21030703)	1423.76176	(22071602)
1031.25015		(21071002)	985.08891	(20080301)			
3625177.9		926.36738	(22080704)	1023.37506	(21030703)	1362.52148	(21061223)
1108.05890		(22081002)	1056.56398	(22072201)			
3624982.1		843.88760	(22082605)	943.62955	(20042523)	1291.93596	(21080902)
1226.69017		(22071602)	940.62404	(22010819)			
3624786.2		815.48175	(22082605)	870.27812	(20042523)	1086.92237	(20052502)
1172.09759		(20061224)	1014.35475	(22081002)			
3624590.4		787.87407	(22082605)	833.35066	(22052124)	949.63708	(20052502)
1089.39500		(20061224)	1033.08773	(22070601)			

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 109

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , STCK4 , STCK5 ,
STCK6 , STCK7 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD				X-COORD (METERS)
(METERS)		493790.68	493984.78	494178.88
		494372.98	494567.08	

3628507.6		720.33435	(21080821)	632.05557	(20100320)	552.31367	(22081324)
350.84503		(22051722)	446.75872	(21052203)			

3628311.7	720.32199 (20100320)	832.05310 (22081324)	426.06167 (21122302)
456.46199 (21052203)	348.72721 (22061501)		
3628115.8	893.34193 (22081324)	732.27282 (21122302)	535.54562 (21052203)
362.10317 (22061501)	455.94294 (22091021)		
3627920.0	863.19035 (21040924)	717.80303 (21052203)	432.71757 (22061501)
489.73644 (22091021)	342.01623 (22121802)		
3627724.1	906.07743 (21052203)	675.55036 (22061501)	580.54210 (22091021)
427.38475 (20081923)	477.29599 (20081923)		
3627528.3	863.69738 (22091021)	715.99938 (22091021)	675.01829 (20081923)
612.61736 (20071323)	609.53831 (22051721)		
3627332.4	753.79532 (20081923)	747.64826 (20071323)	682.32469 (22051721)
642.54211 (21090103)	609.12366 (20081602)		
3627136.5	797.14633 (22051721)	732.04546 (21090103)	803.22534 (20081602)
821.25636 (21072203)	674.76133 (21072203)		
3626940.7	986.15459 (21072203)	765.58666 (21072203)	684.15061 (21080324)
701.97836 (21080324)	693.18749 (22072121)		
3626744.8	658.77658 (22072121)	668.61728 (20031703)	698.63627 (20031703)
700.20328 (20031703)	706.85480 (20031703)		
3626549.0	1019.45808 (21020619)	936.96901 (20090820)	814.82031 (20090820)
791.02118 (20090820)	770.96316 (20090820)		
3626353.1	1095.80168 (22070202)	1056.90527 (20070924)	965.91436 (20070924)
897.98422 (20070924)	812.10102 (22091223)		
3626157.2	1115.06510 (21072222)	1052.17678 (20092322)	857.73000 (20062523)
971.03912 (21091323)	871.00530 (22070202)		
3625961.4	1012.50714 (22073105)	910.28468 (21063023)	927.81792 (20090703)
889.00620 (21072102)	863.71973 (20092322)		
3625765.5	942.66654 (20071201)	869.10102 (22041522)	820.20149 (22073105)
777.89769 (21063023)	807.95762 (20090703)		
3625569.7	943.47753 (22070621)	874.38434 (20071201)	865.17640 (22041522)
772.04721 (22073105)	745.16504 (21063023)		
3625373.8	952.61080 (22080701)	818.41235 (22070621)	763.96451 (20071201)
707.19407 (22041522)	700.73877 (21082923)		
3625177.9	848.10251 (20041404)	873.39356 (22081701)	753.41846 (22091302)
677.93086 (22040123)	666.32983 (21071124)		
3624982.1	887.02414 (20092323)	779.18784 (21111920)	852.05405 (22081701)
710.71347 (22091302)	617.17240 (20050501)		
3624786.2	929.61433 (20101621)	818.25169 (20080301)	757.89379 (22081224)
803.19308 (22081701)	675.13683 (22091302)		
3624590.4	887.67534 (22010819)	837.85537 (22072201)	688.40546 (20041404)
745.25397 (22081224)	758.86039 (22081701)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 14:49:32

PAGE 110

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , STCK4 , STCK5 ,
STCK6 , STCK7 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
494761.18	

3628507.6	354.53915 (22061501)
3628311.7	458.06990 (22091021)
3628115.8	347.48665 (22082422)
3627920.0	394.30568 (20081923)
3627724.1	374.28346 (20071323)
3627528.3	425.78893 (21090103)
3627332.4	515.97638 (21072203)
3627136.5	517.80405 (22102102)
3626940.7	615.18488 (22072121)
3626744.8	674.25011 (20031703)
3626549.0	748.96706 (20090820)
3626353.1	794.21270 (22091223)
3626157.2	798.08114 (21040722)
3625961.4	732.79850 (20062523)
3625765.5	798.63269 (21072222)
3625569.7	677.10529 (21063023)
3625373.8	721.92240 (22073105)
3625177.9	723.60449 (22041522)
3624982.1	659.86556 (20071201)
3624786.2	605.74181 (20050501)
3624590.4	629.03927 (22091302)

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 ***
*** 14:49:32

PAGE 111

*** MODELOPTs: RegDFault CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , STCK4 , STCK5 ,
STCK6 , STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492883.25	3625830.80	1213.74823	(21030703)	492919.80
3625834.65	1245.80845	(20052502)		
492955.07	3625845.55	1332.35369	(21080902)	493069.86
3625832.73	1724.11908	(22011423)		
493094.87	3625832.73	1542.88814	(21092324)	493110.90
3625837.21	1491.04819	(20101806)		
493151.95	3625834.01	1301.95836	(22010819)	493166.70
3625837.86	1296.59654	(20101621)		
493187.86	3625836.57	1345.23063	(20101621)	493201.33
3625836.57	1352.24075	(22072201)		
493240.44	3625836.57	1266.79823	(20092323)	492881.32
3625908.40	1297.59128	(21030703)		
492906.98	3625898.14	1286.73654	(20052502)	492901.84
3625911.60	1295.88264	(20052502)		
492928.14	3625914.81	1380.01465	(21080902)	492933.91
3625898.14	1367.89786	(21080902)		
492951.87	3625908.40	1337.56677	(21061223)	492973.67
3625907.11	1330.25578	(21060903)		
492993.55	3625914.17	1354.49149	(20061224)	492996.11
3625897.50	1347.37671	(20061224)		
493015.99	3625896.85	1312.22361	(22071602)	493023.05
3625912.24	1364.51930	(22071602)		
493044.21	3625907.11	1397.44882	(22010702)	493066.66
3625907.76	1341.81102	(22081002)		
493085.25	3625912.24	1378.00798	(22081002)	493087.18
3625895.57	1367.29983	(22081002)		
493108.98	3625911.60	1373.45987	(22010819)	493112.19
3625897.50	1369.94100	(22010819)		
493133.99	3625901.98	1364.57711	(20101621)	492874.27
3625788.48	1206.70635	(22090723)		
492894.15	3625789.12	1204.19820	(21030703)	492910.18
3625790.40	1226.02218	(21030703)		
492930.70	3625786.55	1221.03761	(20052502)	492947.38
3625791.04	1264.25925	(21080902)		
492963.41	3625787.84	1317.47682	(21080902)	492982.65
3625787.84	1460.00854	(21080902)		
492999.96	3625787.84	1662.74719	(21061223)	493021.12
3625791.04	2140.64086	(20080623)		
493036.52	3625789.12	2265.43791	(21013120)	493055.75
3625789.76	1994.03391	(21111722)		

493076.28	3625787.84	1653.67884	(22071602)	493094.87
3625787.84	1446.18525	(22082504)		
493112.83	3625788.48	1237.20304	(20082306)	493129.50
3625787.19	1273.13975	(22081002)		
493148.74	3625787.19	1282.15841	(22010819)	493164.77
3625790.40	1297.87838	(22010819)		
493184.65	3625789.12	1255.41718	(22080705)	493201.97
3625791.04	1304.32578	(20101621)		
493221.21	3625790.40	1313.94088	(20101621)	493238.52
3625791.04	1323.97934	(22072201)		
492780.00	3626415.01	2257.86219	(22082506)	492778.72
3626388.08	2092.70633	(22090723)		
492747.94	3626386.16	2038.32465	(21101320)	492742.16
3626418.22	2134.12983	(21101320)		
492699.20	3626422.71	2090.51330	(20070501)	492697.92
3626391.93	2026.95478	(20070501)		
492678.68	3626411.81	2000.42266	(21040224)	492626.09
3626426.56	1799.92123	(22040504)		
492606.85	3626435.54	1754.17764	(20082223)	492599.16
3626405.39	1700.94831	(22040504)		
492491.20	3626644.88	1809.48892	(21021501)	492517.36
3626636.70	1855.48999	(21021501)		
492521.18	3626603.45	1812.28775	(20110422)	492521.72
3626582.19	1688.94747	(22040523)		
492512.46	3626553.84	1775.44096	(20010922)	492513.55
3626533.13	1773.94567	(20120422)		
492501.01	3626506.42	1694.11055	(22012520)	492490.65
3626485.70	1612.24341	(22042603)		
492479.21	3626464.45	1564.08241	(20121705)	492466.12
3626447.00	1534.85114	(20022504)		
492447.59	3626418.66	1469.65698	(20011918)	492431.78
3626430.65	1444.97962	(20022504)		
492481.93	3626620.35	1711.88385	(22092202)	492482.48
3626594.18	1674.84972	(22040523)		
492479.21	3626572.92	1605.70588	(20010922)	492477.02
3626546.76	1698.35532	(20010922)		
492467.76	3626523.32	1652.10406	(20050624)	492463.94
3626507.51	1667.70067	(22012520)		
492450.86	3626492.79	1555.58007	(22012520)	492427.42
3626474.80	1516.61729	(21041723)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 ***

*** 14:49:32

PAGE 112

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , STCK4 , STCK5 ,
STCK6 , STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
492402.89	3626460.63	1454.75133	(21022823)	492803.94
3626616.07	1403.07597	(22010702)		
492823.25	3626567.17	1538.81738	(22082504)	492838.34
3626526.92	1792.80497	(21081124)		
493039.78	3625834.45	1722.43434	(21111722)	492743.19
3626628.92	1581.25449	(22062022)		
492791.92	3626663.04	1596.47615	(22010702)	492731.11
3626741.92	1902.78450	(22062723)		
492774.75	3626728.05	1432.48811	(20022901)	492674.05
3626738.96	2183.45579	(22072924)		
492708.49	3626698.47	2154.89264	(20111805)	492703.25
3626652.75	1965.98330	(20101222)		
492723.78	3626582.16	1850.62780	(20122123)	492761.18
3626553.82	1916.78733	(21091023)		
493013.27	3625844.49	1497.28352	(21060903)	

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
*** AERMET - VERSION 23132 *** ***
*** 14:49:32

PAGE 113

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (26304

HRS) RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE	GRID-ID	

- - - - -

STCK1	1ST HIGHEST VALUE IS	50.93386	AT (	492820.18,	3626548.96,	125.40,
	125.40, 0.00) GC UCART1					
	2ND HIGHEST VALUE IS	44.56491	AT (	492838.34,	3626526.92,	125.45,
	125.45, 0.00) DC					
	3RD HIGHEST VALUE IS	34.06676	AT (	492823.25,	3626567.17,	125.08,
	125.08, 0.00) DC					
	4TH HIGHEST VALUE IS	28.28294	AT (	492699.20,	3626422.71,	129.76,
	129.76, 0.00) DC					
	5TH HIGHEST VALUE IS	27.26389	AT (	492742.16,	3626418.22,	129.71,
	129.71, 0.00) DC					
	6TH HIGHEST VALUE IS	24.98150	AT (	492678.68,	3626411.81,	130.96,
	134.69, 0.00) DC					
	7TH HIGHEST VALUE IS	23.94850	AT (	492780.00,	3626415.01,	128.98,
	135.14, 0.00) DC					
	8TH HIGHEST VALUE IS	22.08922	AT (	492761.18,	3626553.82,	125.16,
	125.16, 0.00) DC					
	9TH HIGHEST VALUE IS	21.99398	AT (	492697.92,	3626391.93,	131.37,
	134.78, 0.00) DC					
	10TH HIGHEST VALUE IS	21.59497	AT (	492626.09,	3626426.56,	132.75,
	133.61, 0.00) DC					
STCK2	1ST HIGHEST VALUE IS	156.36088	AT (	493039.78,	3625834.45,	141.93,
	141.93, 0.00) DC					
	2ND HIGHEST VALUE IS	107.83633	AT (	493013.27,	3625844.49,	141.76,
	141.76, 0.00) DC					
	3RD HIGHEST VALUE IS	104.37471	AT (	493069.86,	3625832.73,	142.17,
	142.17, 0.00) DC					
	4TH HIGHEST VALUE IS	86.28154	AT (	493076.28,	3625787.84,	141.87,
	141.87, 0.00) DC					
	5TH HIGHEST VALUE IS	85.24800	AT (	493055.75,	3625789.76,	141.87,
	141.87, 0.00) DC					
	6TH HIGHEST VALUE IS	80.12173	AT (	493036.52,	3625789.12,	141.85,
	141.85, 0.00) DC					
	7TH HIGHEST VALUE IS	78.47407	AT (	493021.12,	3625791.04,	141.82,
	141.82, 0.00) DC					
	8TH HIGHEST VALUE IS	77.03139	AT (	493094.87,	3625787.84,	141.87,
	141.87, 0.00) DC					
	9TH HIGHEST VALUE IS	68.58691	AT (	493094.87,	3625832.73,	142.17,
	142.17, 0.00) DC					
	10TH HIGHEST VALUE IS	58.24440	AT (	492999.96,	3625787.84,	141.71,
	141.71, 0.00) DC					
STCK3	1ST HIGHEST VALUE IS	35.74739	AT (	492723.78,	3626582.16,	124.78,
	124.78, 0.00) DC					
	2ND HIGHEST VALUE IS	27.17671	AT (	492761.18,	3626553.82,	125.16,
	125.16, 0.00) DC					
	3RD HIGHEST VALUE IS	22.48512	AT (	492626.08,	3626548.96,	100.70,
	136.60, 0.00) GC UCART1					

123.93,	4TH HIGHEST VALUE IS	22.01677 AT (	492743.19,	3626628.92,	123.93,
	0.00) DC				
124.66,	5TH HIGHEST VALUE IS	21.49225 AT (	492803.94,	3626616.07,	124.66,
	0.00) DC				
125.45,	6TH HIGHEST VALUE IS	20.14708 AT (	492838.34,	3626526.92,	125.45,
	0.00) DC				
125.08,	7TH HIGHEST VALUE IS	19.30258 AT (	492823.25,	3626567.17,	125.08,
	0.00) DC				
125.40,	8TH HIGHEST VALUE IS	18.30458 AT (	492820.18,	3626548.96,	125.40,
	0.00) GC UCART1				
134.13,	9TH HIGHEST VALUE IS	16.34494 AT (	492606.85,	3626435.54,	128.92,
	0.00) DC				
136.20,	10TH HIGHEST VALUE IS	15.80115 AT (	493014.28,	3626548.96,	110.00,
	0.00) GC UCART1				
STCK4	1ST HIGHEST VALUE IS	26.68947 AT (	492708.49,	3626698.47,	121.52,
121.52,	0.00) DC				
123.46,	2ND HIGHEST VALUE IS	22.15932 AT (	492703.25,	3626652.75,	123.46,
	0.00) DC				
123.58,	3RD HIGHEST VALUE IS	19.04060 AT (	492791.92,	3626663.04,	123.58,
	0.00) DC				
125.30,	4TH HIGHEST VALUE IS	18.02334 AT (	492820.18,	3626744.82,	108.40,
	0.00) GC UCART1				
121.09,	5TH HIGHEST VALUE IS	17.94157 AT (	492674.05,	3626738.96,	119.68,
	0.00) DC				
133.70,	6TH HIGHEST VALUE IS	17.84711 AT (	492517.36,	3626636.70,	113.55,
	0.00) DC				
117.51,	7TH HIGHEST VALUE IS	17.74538 AT (	492521.18,	3626603.45,	117.51,
	0.00) DC				
118.28,	8TH HIGHEST VALUE IS	16.79830 AT (	492521.72,	3626582.19,	118.28,
	0.00) DC				
123.93,	9TH HIGHEST VALUE IS	16.42519 AT (	492743.19,	3626628.92,	123.93,
	0.00) DC				
121.20,	10TH HIGHEST VALUE IS	15.92837 AT (	492731.11,	3626741.92,	118.49,
	0.00) DC				

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 *** ***
 *** 14:49:32

PAGE 114

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (26304

HRS) RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG) OF TYPE	GRID-ID		
STCK5	1ST HIGHEST VALUE IS	29.11848 AT (	492708.49, 3626698.47, 121.52,
121.52,	0.00) DC		
	2ND HIGHEST VALUE IS	26.88790 AT (	492703.25, 3626652.75, 123.46,
123.46,	0.00) DC		
	3RD HIGHEST VALUE IS	26.83903 AT (	492803.94, 3626616.07, 124.66,
124.66,	0.00) DC		
	4TH HIGHEST VALUE IS	24.84393 AT (	492761.18, 3626553.82, 125.16,
125.16,	0.00) DC		
	5TH HIGHEST VALUE IS	24.66014 AT (	492838.34, 3626526.92, 125.45,
125.45,	0.00) DC		
	6TH HIGHEST VALUE IS	23.70859 AT (	492743.19, 3626628.92, 123.93,
123.93,	0.00) DC		
	7TH HIGHEST VALUE IS	22.98250 AT (	492823.25, 3626567.17, 125.08,
125.08,	0.00) DC		
	8TH HIGHEST VALUE IS	22.08855 AT (	492723.78, 3626582.16, 124.78,
124.78,	0.00) DC		
	9TH HIGHEST VALUE IS	21.88875 AT (	492820.18, 3626548.96, 125.40,
125.40,	0.00) GC UCART1		
	10TH HIGHEST VALUE IS	21.76224 AT (	492521.18, 3626603.45, 117.51,
117.51,	0.00) DC		
STCK6	1ST HIGHEST VALUE IS	72.97667 AT (	492761.18, 3626553.82, 125.16,
125.16,	0.00) DC		
	2ND HIGHEST VALUE IS	59.05975 AT (	492723.78, 3626582.16, 124.78,
124.78,	0.00) DC		
	3RD HIGHEST VALUE IS	46.51986 AT (	492743.19, 3626628.92, 123.93,
123.93,	0.00) DC		
	4TH HIGHEST VALUE IS	38.93049 AT (	492823.25, 3626567.17, 125.08,
125.08,	0.00) DC		
	5TH HIGHEST VALUE IS	38.20243 AT (	492820.18, 3626548.96, 125.40,
125.40,	0.00) GC UCART1		
	6TH HIGHEST VALUE IS	37.28821 AT (	492803.94, 3626616.07, 124.66,
124.66,	0.00) DC		
	7TH HIGHEST VALUE IS	35.21575 AT (	492838.34, 3626526.92, 125.45,
125.45,	0.00) DC		
	8TH HIGHEST VALUE IS	29.50652 AT (	492626.08, 3626548.96, 100.70,
136.60,	0.00) GC UCART1		
	9TH HIGHEST VALUE IS	21.28970 AT (	492791.92, 3626663.04, 123.58,
123.58,	0.00) DC		
	10TH HIGHEST VALUE IS	21.00949 AT (	492703.25, 3626652.75, 123.46,
123.46,	0.00) DC		
STCK7	1ST HIGHEST VALUE IS	75.57016 AT (	492761.18, 3626553.82, 125.16,

125.16,	0.00) DC	72.58315 AT (	492723.78,	3626582.16,	124.78,
124.78,	0.00) DC				
	3RD HIGHEST VALUE IS	34.91480 AT (	492820.18,	3626548.96,	125.40,
125.40,	0.00) GC UCART1				
	4TH HIGHEST VALUE IS	32.15622 AT (	492838.34,	3626526.92,	125.45,
125.45,	0.00) DC				
	5TH HIGHEST VALUE IS	30.71274 AT (	492823.25,	3626567.17,	125.08,
125.08,	0.00) DC				
	6TH HIGHEST VALUE IS	25.79066 AT (	492626.08,	3626548.96,	100.70,
136.60,	0.00) GC UCART1				
	7TH HIGHEST VALUE IS	25.62189 AT (	492743.19,	3626628.92,	123.93,
123.93,	0.00) DC				
	8TH HIGHEST VALUE IS	23.98330 AT (	492606.85,	3626435.54,	128.92,
134.13,	0.00) DC				
	9TH HIGHEST VALUE IS	21.97880 AT (	492626.09,	3626426.56,	132.75,
133.61,	0.00) DC				
	10TH HIGHEST VALUE IS	21.06906 AT (	492803.94,	3626616.07,	124.66,
124.66,	0.00) DC				
ALL	1ST HIGHEST VALUE IS	234.29271 AT (	492761.18,	3626553.82,	125.16,
125.16,	0.00) DC				
	2ND HIGHEST VALUE IS	217.23643 AT (	492723.78,	3626582.16,	124.78,
124.78,	0.00) DC				
	3RD HIGHEST VALUE IS	176.61394 AT (	492820.18,	3626548.96,	125.40,
125.40,	0.00) GC UCART1				
	4TH HIGHEST VALUE IS	171.72010 AT (	493039.78,	3625834.45,	141.93,
141.93,	0.00) DC				
	5TH HIGHEST VALUE IS	171.09639 AT (	492838.34,	3626526.92,	125.45,
125.45,	0.00) DC				
	6TH HIGHEST VALUE IS	159.82363 AT (	492823.25,	3626567.17,	125.08,
125.08,	0.00) DC				
	7TH HIGHEST VALUE IS	141.16262 AT (	492743.19,	3626628.92,	123.93,
123.93,	0.00) DC				
	8TH HIGHEST VALUE IS	130.44626 AT (	492803.94,	3626616.07,	124.66,
124.66,	0.00) DC				
	9TH HIGHEST VALUE IS	123.14196 AT (	493013.27,	3625844.49,	141.76,
141.76,	0.00) DC				
	10TH HIGHEST VALUE IS	119.98398 AT (	493069.86,	3625832.73,	142.17,
142.17,	0.00) DC				

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24

*** AERMET - VERSION 23132 *** ***
*** 14:49:32

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK AVERAGE CONC OF TYPE GRID-ID	DATE (YYMMDDHH)	RECEPTOR
STCK1 HIGH 1ST HIGH VALUE IS 3626415.01, 128.98, 135.14,	954.49049 0.00) DC	ON 20112107: AT (	492780.00,
STCK2 HIGH 1ST HIGH VALUE IS 3625832.73, 142.17, 142.17,	1714.13040 0.00) DC	ON 22011423: AT (	493069.86,
STCK3 HIGH 1ST HIGH VALUE IS 3626744.82, 100.30, 133.70,	562.41826 0.00) GC UCART1	ON 21020104: AT (	493014.28,
STCK4 HIGH 1ST HIGH VALUE IS 3626940.68, 57.70, 250.90,	600.97651 0.00) GC UCART1	ON 22061421: AT (	492820.18,
STCK5 HIGH 1ST HIGH VALUE IS 3626728.05, 120.29, 120.29,	614.50675 0.00) DC	ON 20081602: AT (	492774.75,
STCK6 HIGH 1ST HIGH VALUE IS 3626698.47, 121.52, 121.52,	789.42321 0.00) DC	ON 20111805: AT (	492708.49,
STCK7 HIGH 1ST HIGH VALUE IS 3626652.75, 123.46, 123.46,	1235.80104 0.00) DC	ON 22102522: AT (	492703.25,
ALL HIGH 1ST HIGH VALUE IS 3625789.12, 141.85, 141.85,	2265.43791 0.00) DC	ON 21013120: AT (	493036.52,

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

▲ *** AERMOD - VERSION 23132 *** C:\Users\apoll\OneDrive -
 Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU *** 10/10/24
 *** AERMET - VERSION 23132 ***

*** 14:49:32

PAGE 116

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL SigA Data

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 3 Warning Message(s)
A Total of 1415 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 654 Calm Hours Identified

A Total of 761 Missing Hours Identified (2.89 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
SO W320 50 PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
SO W320 51 PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
MX W403 335 PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

*** AERMOD Finishes Successfully ***

HARP2 - HRACalc (dated 22118) 10/21/2024 3:25:09 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 not used.

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU OPERATIONAL\hra\OffsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU
OPERATIONAL\hra\OffsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU OPERATIONAL\hra\OffsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU
OPERATIONAL\hra\OffsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU OPERATIONAL\hra\OffsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU
OPERATIONAL\hra\OffsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL	UCART1	490879.2	3624590	2.77E-08	30YrCance	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL	UCART1	491073.3	3624590	2.75E-08	30YrCance	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL	UCART1	491267.4	3624590	2.54E-08	30YrCance	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL	UCART1	491461.5	3624590	2.46E-08	30YrCance	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL	UCART1	491655.6	3624590	2.46E-08	30YrCance	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL	UCART1	491849.7	3624590	2.44E-08	30YrCance	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL	UCART1	492043.8	3624590	2.44E-08	30YrCance	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL	UCART1	492237.9	3624590	2.40E-08	30YrCance	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL	UCART1	492432	3624590	2.49E-08	30YrCance	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL	UCART1	492626.1	3624590	2.55E-08	30YrCance	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL	UCART1	492820.2	3624590	2.54E-08	30YrCance	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL	UCART1	493014.3	3624590	2.57E-08	30YrCance	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL	UCART1	493208.4	3624590	2.88E-08	30YrCance	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL	UCART1	493402.5	3624590	2.80E-08	30YrCance	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL	UCART1	493596.6	3624590	2.88E-08	30YrCance	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL	UCART1	493790.7	3624590	3.05E-08	30YrCance	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL	UCART1	493984.8	3624590	3.13E-08	30YrCance	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL	UCART1	494178.9	3624590	2.99E-08	30YrCance	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL	UCART1	494373	3624590	2.81E-08	30YrCance	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL	UCART1	494567.1	3624590	2.76E-08	30YrCance	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL	UCART1	494761.2	3624590	2.77E-08	30YrCance	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL	UCART1	490879.2	3624786	3.16E-08	30YrCance	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL	UCART1	491073.3	3624786	2.99E-08	30YrCance	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL	UCART1	491267.4	3624786	3.10E-08	30YrCance	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL	UCART1	491461.5	3624786	2.95E-08	30YrCance	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL	UCART1	491655.6	3624786	2.86E-08	30YrCance	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL	UCART1	491849.7	3624786	2.85E-08	30YrCance	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL	UCART1	492043.8	3624786	2.78E-08	30YrCance	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL	UCART1	492237.9	3624786	2.58E-08	30YrCance	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL	UCART1	492432	3624786	2.74E-08	30YrCance	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL	UCART1	492626.1	3624786	2.76E-08	30YrCance	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL	UCART1	492820.2	3624786	2.89E-08	30YrCance	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL	UCART1	493014.3	3624786	2.96E-08	30YrCance	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL	UCART1	493208.4	3624786	3.32E-08	30YrCance	3.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL	UCART1	493402.5	3624786	3.31E-08	30YrCance	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL	UCART1	493596.6	3624786	3.42E-08	30YrCance	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL	UCART1	493790.7	3624786	3.62E-08	30YrCance	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL	UCART1	493984.8	3624786	3.55E-08	30YrCance	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL	UCART1	494178.9	3624786	3.28E-08	30YrCance	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL	UCART1	494373	3624786	3.20E-08	30YrCance	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL	UCART1	494567.1	3624786	3.20E-08	30YrCance	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL	UCART1	494761.2	3624786	3.13E-08	30YrCance	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL	UCART1	490879.2	3624982	3.16E-08	30YrCance	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL	UCART1	491073.3	3624982	3.59E-08	30YrCance	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL	UCART1	491267.4	3624982	3.51E-08	30YrCance	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL	UCART1	491461.5	3624982	3.43E-08	30YrCance	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[illegible]

[illegible]

141	ALL		UCART1	493596.6	3625766	7.63E-08	30YrCance	7.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL		UCART1	493790.7	3625766	6.90E-08	30YrCance	6.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL		UCART1	493984.8	3625766	6.30E-08	30YrCance	6.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL		UCART1	494178.9	3625766	5.86E-08	30YrCance	5.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL		UCART1	494373	3625766	5.23E-08	30YrCance	5.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL		UCART1	494567.1	3625766	4.67E-08	30YrCance	4.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL		UCART1	494761.2	3625766	3.94E-08	30YrCance	3.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL		UCART1	490879.2	3625961	3.58E-08	30YrCance	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL		UCART1	491073.3	3625961	4.09E-08	30YrCance	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL		UCART1	491267.4	3625961	4.89E-08	30YrCance	4.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL		UCART1	491461.5	3625961	6.22E-08	30YrCance	6.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL		UCART1	491655.6	3625961	8.03E-08	30YrCance	8.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL		UCART1	491849.7	3625961	8.67E-08	30YrCance	8.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL		UCART1	492043.8	3625961	7.96E-08	30YrCance	7.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL		UCART1	492237.9	3625961	7.50E-08	30YrCance	7.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL		UCART1	492432	3625961	7.42E-08	30YrCance	7.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL		UCART1	492626.1	3625961	8.58E-08	30YrCance	8.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL		UCART1	492820.2	3625961	1.03E-07	30YrCance	1.03E-07	0.00E+00										

188	ALL		UCART1	494567.1	3626157	3.22E-08	30YrCance	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL		UCART1	494761.2	3626157	2.69E-08	30YrCance	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL		UCART1	490879.2	3626353	2.87E-08	30YrCance	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL		UCART1	491073.3	3626353	3.76E-08	30YrCance	3.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL		UCART1	491267.4	3626353	4.37E-08	30YrCance	4.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL		UCART1	491461.5	3626353	5.02E-08	30YrCance	5.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL		UCART1	491655.6	3626353	6.68E-08	30YrCance	6.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL		UCART1	491849.7	3626353	7.47E-08	30YrCance	7.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL		UCART1	492043.8	3626353	1.20E-07	30YrCance	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL		UCART1	492237.9	3626353	1.81E-07	30YrCance	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL		UCART1	492432	3626353	2.51E-07	30YrCance	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL		UCART1	492626.1	3626353	2.58E-07	30YrCance	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL		UCART1	492820.2	3626353	2.86E-07	30YrCance	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL		UCART1	493014.3	3626353	2.76E-07	30YrCance	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL		UCART1	493208.4	3626353	2.29E-07	30YrCance	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL		UCART1	493402.5	3626353	1.47E-07	30YrCance	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL		UCART1	493596.6	3626353	9.46E-08	30YrCance	9.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL		UCART1	493790.7	3626353	6.59E-08	30YrCance	6.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL		UCART1	493984.8	3626353	4.88E-08	30YrCance	4.88E-08	0.00E+00									

235 ALL	UCART1	491461.5	3626745	3.16E-08	30YrCance	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236 ALL	UCART1	491655.6	3626745	3.45E-08	30YrCance	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237 ALL	UCART1	491849.7	3626745	4.94E-08	30YrCance	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238 ALL	UCART1	492043.8	3626745	6.80E-08	30YrCance	6.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239 ALL	UCART1	492237.9	3626745	9.94E-08	30YrCance	9.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240 ALL	UCART1	492432	3626745	1.25E-07	30YrCance	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241 ALL	UCART1	492626.1	3626745	2.71E-07	30YrCance	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242 ALL	UCART1	492820.2	3626745	2.47E-07	30YrCance	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243 ALL	UCART1	493014.3	3626745	1.42E-07	30YrCance	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244 ALL	UCART1	493208.4	3626745	7.98E-08	30YrCance	7.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245 ALL	UCART1	493402.5	3626745	5.34E-08	30YrCance	5.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246 ALL	UCART1	493596.6	3626745	3.51E-08	30YrCance	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247 ALL	UCART1	493790.7	3626745	2.79E-08	30YrCance	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248 ALL	UCART1	493984.8	3626745	2.37E-08	30YrCance	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249 ALL	UCART1	494178.9	3626745	2.08E-08	30YrCance	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250 ALL	UCART1	494373	3626745	1.88E-08	30YrCance	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251 ALL	UCART1	494567.1	3626745	1.77E-08	30YrCance	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252 ALL	UCART1	494761.2	3626745	1.57E-08	30YrCance	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253 ALL	UCART1	490879.2	3626941	1.73E-08	30YrCance	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254 ALL	UCART1	491073.3	3626941	1.94E-08	30YrCance	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255 ALL	UCART1	491267.4	3626941	2.23E-08	30YrCance	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256 ALL	UCART1	491461.5	3626941	2.60E-08	30YrCance	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257 ALL	UCART1	491655.6	3626941	2.99E-08	30YrCance	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258 ALL	UCART1	491849.7	3626941	3.46E-08	30YrCance	3.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259 ALL	UCART1	492043.8	3626941	3.94E-08	30YrCance	3.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260 ALL	UCART1	492237.9	3626941	4.79E-08	30YrCance	4.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261 ALL	UCART1	492432	3626941	7.24E-08	30YrCance	7.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262 ALL	UCART1	492626.1	3626941	9.29E-08	30YrCance	9.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263 ALL	UCART1	492820.2	3626941	8.04E-08	30YrCance	8.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264 ALL	UCART1	493014.3	3626941	6.05E-08	30YrCance	6.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265 ALL	UCART1	493208.4	3626941	4.17E-08	30YrCance	4.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266 ALL	UCART1	493402.5	3626941	3.35E-08	30YrCance	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267 ALL	UCART1	493596.6	3626941	2.71E-08	30YrCance	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268 ALL	UCART1	493790.7	3626941	2.28E-08	30YrCance	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269 ALL	UCART1	493984.8	3626941	1.84E-08	30YrCance	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270 ALL	UCART1	494178.9	3626941	1.66E-08	30YrCance	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271 ALL	UCART1	494373	3626941	1.47E-08	30YrCance	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272 ALL	UCART1	494567.1	3626941	1.33E-08	30YrCance	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273 ALL	UCART1	494761.2	3626941	1.23E-08	30YrCance	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274 ALL	UCART1	490879.2	3627137	1.72E-08	30YrCance	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275 ALL	UCART1	491073.3	3627137	1.88E-08	30YrCance	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276 ALL	UCART1	491267.4	3627137	2.02E-08	30YrCance	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277 ALL	UCART1	491461.5	3627137	2.21E-08	30YrCance	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278 ALL	UCART1	491655.6	3627137	2.34E-08	30YrCance	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279 ALL	UCART1	491849.7	3627137	2.43E-08	30YrCance	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280 ALL	UCART1	492043.8	3627137	2.86E-08	30YrCance	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281 ALL	UCART1	492237.9	3627137	3.93E-08	30YrCance	3.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[illegible]

[illegible]

[illegible]

[illegible]

470	ALL	493134	3625902	1.35E-07	30YrCance	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	492874.3	3625788	1.81E-07	30YrCance	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	492894.2	3625789	2.01E-07	30YrCance	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	492910.2	3625790	2.15E-07	30YrCance	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	492930.7	3625787	2.24E-07	30YrCance	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	492947.4	3625791	2.35E-07	30YrCance	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	492963.4	3625788	2.21E-07	30YrCance	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	492982.7	3625788	2.25E-07	30YrCance	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	493000	3625788	2.47E-07	30YrCance	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	493021.1	3625791	3.13E-07	30YrCance	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	493036.5	3625789	3.18E-07	30YrCance	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	493055.8	3625790	3.35E-07	30YrCance	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	493076.3	3625788	3.39E-07	30YrCance	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	493094.9	3625788	3.10E-07	30YrCance	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	493112.8	3625788	2.51E-07	30YrCance	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	493129.5	3625787	2.27E-07	30YrCance	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	493148.7	3625787	2.00E-07	30YrCance	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	493164.8	3625790	1.82E-07	30YrCance	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	493184.7	3625789	1.63E-07	30YrCance	1.63E-07	0.00										

[illegible]

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEI RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL	UCART1	490879.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06
2	ALL	UCART1	491073.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-06
3	ALL	UCART1	491267.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-06
4	ALL	UCART1	491461.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-06
5	ALL	UCART1	491655.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-06
6	ALL	UCART1	491849.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-06
7	ALL	UCART1	492043.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-06
8	ALL	UCART1	492237.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-06
9	ALL	UCART1	492432	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-06
10	ALL	UCART1	492626.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-06
11	ALL	UCART1	492820.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-06
12	ALL	UCART1	493014.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-06
13	ALL	UCART1	493208.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06
14	ALL	UCART1	493402.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-06
15	ALL	UCART1	493596.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06
16	ALL	UCART1	493790.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06
17	ALL	UCART1	493984.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-06
18	ALL	UCART1	494178.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-06
19	ALL	UCART1	494373	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-06
20	ALL	UCART1	494567.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-06
21	ALL	UCART1	494761.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-06
22	ALL	UCART1	490879.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06
23	ALL	UCART1	491073.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-06
24	ALL	UCART1	491267.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-06
25	ALL	UCART1	491461.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-06
26	ALL	UCART1	491655.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-06
27	ALL	UCART1	491849.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-06
28	ALL	UCART1	492043.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06
29	ALL	UCART1	492237.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-06
30	ALL	UCART1	492432	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-06
31	ALL	UCART1	492626.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-06
32	ALL	UCART1	492820.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-06
33	ALL	UCART1	493014.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-06
34	ALL	UCART1	493208.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-06
35	ALL	UCART1	493402.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06
36	ALL	UCART1	493596.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-06
37	ALL	UCART1	493790.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-06
38	ALL	UCART1	493984.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06
39	ALL	UCART1	494178.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-06
40	ALL	UCART1	494373	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06
41	ALL	UCART1	494567.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06
42	ALL	UCART1	494761.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-06
43	ALL	UCART1	490879.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06
44	ALL	UCART1	491073.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-06
45	ALL	UCART1	491267.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06
46	ALL	UCART1	491461.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-06
47	ALL	UCART1	491655.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-06
48	ALL	UCART1	491849.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-06
49	ALL	UCART1	492043.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-06
50	ALL	UCART1	492237.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-06
51	ALL	UCART1	492432	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-06

52		UCART1	492626.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-06
53 ALL		UCART1	492820.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06
54 ALL		UCART1	493014.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-06
55 ALL		UCART1	493208.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-06
56 ALL		UCART1	493402.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
57 ALL		UCART1	493596.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
58 ALL		UCART1	493790.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
59 ALL		UCART1	493984.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
60 ALL		UCART1	494178.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-06
61 ALL		UCART1	494373	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-06
62 ALL		UCART1	494567.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-06
63 ALL		UCART1	494761.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-06
64 ALL		UCART1	490879.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-06
65 ALL		UCART1	491073.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
66 ALL		UCART1	491267.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
67 ALL		UCART1	491461.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
68 ALL		UCART1	491655.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
69 ALL		UCART1	491849.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
70 ALL		UCART1	492043.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
71 ALL		UCART1	492237.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06
72 ALL		UCART1	492432	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
73 ALL		UCART1	492626.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-06
74 ALL		UCART1	492820.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
75 ALL		UCART1	493014.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
76 ALL		UCART1	493208.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
77 ALL		UCART1	493402.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
78 ALL		UCART1	493596.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
79 ALL		UCART1	493790.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
80 ALL		UCART1	493984.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
81 ALL		UCART1	494178.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
82 ALL		UCART1	494373	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
83 ALL		UCART1	494567.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
84 ALL		UCART1	494761.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-06
85 ALL		UCART1	490879.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
86 ALL		UCART1	491073.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
87 ALL		UCART1	491267.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
88 ALL		UCART1	491461.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
89 ALL		UCART1	491655.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
90 ALL		UCART1	491849.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
91 ALL		UCART1	492043.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
92 ALL		UCART1	492237.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
93 ALL		UCART1	492432	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
94 ALL		UCART1	492626.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
95 ALL		UCART1	492820.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
96 ALL		UCART1	493014.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
97 ALL		UCART1	493208.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
98 ALL		UCART1	493402.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
99 ALL		UCART1	493596.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
100 ALL		UCART1	493790.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
101 ALL		UCART1	493984.8	3625																

312		UCART1	494178.9	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06
313	ALL	UCART1	494373	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-06
314	ALL	UCART1	494567.1	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-06
315	ALL	UCART1	494761.2	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-06
316	ALL	UCART1	490879.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-06
317	ALL	UCART1	491073.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06
318	ALL	UCART1	491267.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-06
319	ALL	UCART1	491461.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-06
320	ALL	UCART1	491655.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-06
321	ALL	UCART1	491849.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-06
322	ALL	UCART1	492043.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-06
323	ALL	UCART1	492237.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06
324	ALL	UCART1	492432	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-06
325	ALL	UCART1	492626.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06
326	ALL	UCART1	492820.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06
327	ALL	UCART1	493014.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-06
328	ALL	UCART1	493208.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-06
329	ALL	UCART1	493402.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-06
330	ALL	UCART1	493596.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-06
331	ALL	UCART1	493790.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-06
332	ALL	UCART1	493984.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-06
333	ALL	UCART1	494178.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06
334	ALL	UCART1	494373	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-06
335	ALL	UCART1	494567.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-06
336	ALL	UCART1	494761.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-06
337	ALL	UCART1	490879.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-06
338	ALL	UCART1	491073.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-06
339	ALL	UCART1	491267.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-06
340	ALL	UCART1	491461.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06
341	ALL	UCART1	491655.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-06
342	ALL	UCART1	491849.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-06
343	ALL	UCART1	492043.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-06
344	ALL	UCART1	492237.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06
345	ALL	UCART1	492432	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-06
346	ALL	UCART1	492626.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06
347	ALL	UCART1	492820.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-06
348	ALL	UCART1	493014.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06
349	ALL	UCART1	493208.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06
350	ALL	UCART1	493402.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-06
351	ALL	UCART1	493596.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-06
352	ALL	UCART1	493790.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06
353	ALL	UCART1	493984.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-06
354	ALL	UCART1	494178.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-06
355	ALL	UCART1	494373	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-06
356	ALL	UCART1	494567.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06
357	ALL	UCART1	494761.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-06
358	ALL	UCART1	490879.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

364		UCART1	492043.8	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-06
365	ALL	UCART1	492237.9	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-06
366	ALL	UCART1	492432	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06
367	ALL	UCART1	492626.1	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-06
368	ALL	UCART1	492820.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-06
369	ALL	UCART1	493014.3	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-06
370	ALL	UCART1	493208.4	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-06
371	ALL	UCART1	493402.5	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-06
372	ALL	UCART1	493596.6	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06
373	ALL	UCART1	493790.7	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-06
374	ALL	UCART1	493984.8	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-06
375	ALL	UCART1	494178.9	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-06
376	ALL	UCART1	494373	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06
377	ALL	UCART1	494567.1	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-06
378	ALL	UCART1	494761.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-06
379	ALL	UCART1	490879.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-06
380	ALL	UCART1	491073.3	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-06
381	ALL	UCART1	491267.4	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-06
382	ALL	UCART1	491461.5	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-06
383	ALL	UCART1	491655.6	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-06
384	ALL	UCART1	491849.7	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06
385	ALL	UCART1	492043.8	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06
386	ALL	UCART1	492237.9	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-06
387	ALL	UCART1	492432	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-06
388	ALL	UCART1	492626.1	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06
389	ALL	UCART1	492820.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06
390	ALL	UCART1	493014.3	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-06
391	ALL	UCART1	493208.4	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-06
392	ALL	UCART1	493402.5	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-06
393	ALL	UCART1	493596.6	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-06
394	ALL	UCART1	493790.7	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-06
395	ALL	UCART1	493984.8	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-06
396	ALL	UCART1	494178.9	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06
397	ALL	UCART1	494373	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-06
398	ALL	UCART1	494567.1	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-07
399	ALL	UCART1	494761.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-07
400	ALL	UCART1	490879.2	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-06
401	ALL	UCART1	491073.3	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-06
402	ALL	UCART1	491267.4	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-06
403	ALL	UCART1	491461.5	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-06
404	ALL	UCART1	491655.6	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-06
405	ALL	UCART1	491849.7	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06
406	ALL	UCART1	492043.8	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-06
407	ALL	UCART1	492237.9	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-06
408	ALL	UCART1	492432	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-06
409	ALL	UCART1	492626.1	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-06
410	ALL	UCART1	492820.2	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06
411	ALL	UCART1	493014.3	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-06
412	ALL	UCART1	493208.4	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00				

[illegible]

[illegible]

HARP2 - HRACalc (dated 22118) 10/29/2024 12:24:28 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 2

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 2
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU OPERATIONAL HARP\hra\OnsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU OPERATIONAL

HARP\hra\OnsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU OPERATIONAL

HARP\hra\OnsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU OPERATIONAL

HARP\hra\OnsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU OPERATIONAL HARP\hra\OnsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\apoll\OneDrive -

Dudek\Desktop\HARP2\HARP\SDSU Evolve\SDSU OPERATIONAL

HARP\hra\OnsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL	UCART1	490879.2	3624590	2.87E-10	2YrCancerf	2.87E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL	UCART1	491073.3	3624590	2.85E-10	2YrCancerf	2.85E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL	UCART1	491267.4	3624590	2.63E-10	2YrCancerf	2.63E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL	UCART1	491461.5	3624590	2.55E-10	2YrCancerf	2.55E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL	UCART1	491655.6	3624590	2.55E-10	2YrCancerf	2.55E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL	UCART1	491849.7	3624590	2.53E-10	2YrCancerf	2.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL	UCART1	492043.8	3624590	2.53E-10	2YrCancerf	2.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL	UCART1	492237.9	3624590	2.48E-10	2YrCancerf	2.48E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL	UCART1	492432	3624590	2.58E-10	2YrCancerf	2.58E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL	UCART1	492626.1	3624590	2.64E-10	2YrCancerf	2.64E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL	UCART1	492820.2	3624590	2.63E-10	2YrCancerf	2.63E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL	UCART1	493014.3	3624590	2.66E-10	2YrCancerf	2.66E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL	UCART1	493208.4	3624590	2.98E-10	2YrCancerf	2.98E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL	UCART1	493402.5	3624590	2.90E-10	2YrCancerf	2.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL	UCART1	493596.6	3624590	2.98E-10	2YrCancerf	2.98E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL	UCART1	493790.7	3624590	3.16E-10	2YrCancerf	3.16E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL	UCART1	493984.8	3624590	3.24E-10	2YrCancerf	3.24E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL	UCART1	494178.9	3624590	3.09E-10	2YrCancerf	3.09E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL	UCART1	494373	3624590	2.91E-10	2YrCancerf	2.91E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL	UCART1	494567.1	3624590	2.86E-10	2YrCancerf	2.86E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL	UCART1	494761.2	3624590	2.87E-10	2YrCancerf	2.87E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL	UCART1	490879.2	3624786	3.27E-10	2YrCancerf	3.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL	UCART1	491073.3	3624786	3.10E-10	2YrCancerf	3.10E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL	UCART1	491267.4	3624786	3.21E-10	2YrCancerf	3.21E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL	UCART1	491461.5	3624786	3.06E-10	2YrCancerf	3.06E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL	UCART1	491655.6	3624786	2.97E-10	2YrCancerf	2.97E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL	UCART1	491849.7	3624786	2.95E-10	2YrCancerf	2.95E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL	UCART1	492043.8	3624786	2.88E-10	2YrCancerf	2.88E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL	UCART1	492237.9	3624786	2.68E-10	2YrCancerf	2.68E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL	UCART1	492432	3624786	2.83E-10	2YrCancerf	2.83E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL	UCART1	492626.1	3624786	2.86E-10	2YrCancerf	2.86E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL	UCART1	492820.2	3624786	3.00E-10	2YrCancerf	3.00E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL	UCART1	493014.3	3624786	3.07E-10	2YrCancerf	3.07E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL	UCART1	493208.4	3624786	3.44E-10	2YrCancerf	3.44E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL	UCART1	493402.5	3624786	3.43E-10	2YrCancerf	3.43E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL	UCART1	493596.6	3624786	3.54E-10	2YrCancerf	3.54E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL	UCART1	493790.7	3624786	3.75E-10	2YrCancerf	3.75E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL	UCART1	493984.8	3624786	3.68E-10	2YrCancerf	3.68E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL	UCART1	494178.9	3624786	3.40E-10	2YrCancerf	3.40E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL	UCART1	494373	3624786	3.32E-10	2YrCancerf	3.32E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL	UCART1	494567.1	3624786	3.31E-10	2YrCancerf	3.31E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL	UCART1	494761.2	3624786	3.24E-10	2YrCancerf	3.24E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL	UCART1	490879.2	3624982	3.27E-10	2YrCancerf	3.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL	UCART1	491073.3	3624982	3.71E-10	2YrCancerf	3.71E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL	UCART1	491267.4	3624982	3.63E-10	2YrCancerf	3.63E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL	UCART1	491461.5	3624982	3.55E-10	2YrCancerf	3.55E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[illegible]

[illegible]

141	ALL	UCART1	493596.6	3625766	7.91E-10	2YrCancerf	7.91E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	UCART1	493790.7	3625766	7.14E-10	2YrCancerf	7.14E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	UCART1	493984.8	3625766	6.52E-10	2YrCancerf	6.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	UCART1	494178.9	3625766	6.07E-10	2YrCancerf	6.07E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	UCART1	494373	3625766	5.42E-10	2YrCancerf	5.42E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	UCART1	494567.1	3625766	4.84E-10	2YrCancerf	4.84E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	UCART1	494761.2	3625766	4.08E-10	2YrCancerf	4.08E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	UCART1	490879.2	3625961	3.71E-10	2YrCancerf	3.71E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	UCART1	491073.3	3625961	4.24E-10	2YrCancerf	4.24E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	UCART1	491267.4	3625961	5.07E-10	2YrCancerf	5.07E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	UCART1	491461.5	3625961	6.44E-10	2YrCancerf	6.44E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	UCART1	491655.6	3625961	8.32E-10	2YrCancerf	8.32E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	UCART1	491849.7	3625961	8.98E-10	2YrCancerf	8.98E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	UCART1	492043.8	3625961	8.24E-10	2YrCancerf	8.24E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	UCART1	492237.9	3625961	7.77E-10	2YrCancerf	7.77E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	UCART1	492432	3625961	7.69E-10	2YrCancerf	7.69E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	UCART1	492626.1	3625961	8.89E-10	2YrCancerf	8.89E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	UCART1	492820.2	3625961	1.07E-09	2YrCancerf	1.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	UCART1	493014.3	3625961	1.31E-09	2YrCancerf	1.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	UCART1	493208.4	3625961	1.22E-09	2YrCancerf	1.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	UCART1	493402.5	3625961	1.00E-09	2YrCancerf	1.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	UCART1	493596.6	3625961	9.06E-10	2YrCancerf	9.06E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	UCART1	493790.7	3625961	8.18E-10	2YrCancerf	8.18E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	UCART1	493984.8	3625961	7.29E-10	2YrCancerf	7.29E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	UCART1	494178.9	3625961	6.31E-10	2YrCancerf	6.31E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	UCART1	494373	3625961	5.20E-10	2YrCancerf	5.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	UCART1	494567.1	3625961	4.24E-10	2YrCancerf	4.24E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	UCART1	494761.2	3625961	3.62E-10	2YrCancerf	3.62E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	UCART1	490879.2	3626157	3.11E-10	2YrCancerf	3.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	UCART1	491073.3	3626157	3.77E-10	2YrCancerf	3.77E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	UCART1	491267.4	3626157	5.32E-10	2YrCancerf	5.32E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	UCART1	491461.5	3626157	6.59E-10	2YrCancerf	6.59E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	UCART1	491655.6	3626157	8.39E-10	2YrCancerf	8.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	UCART1	491849.7	3626157	1.01E-09	2YrCancerf	1.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	UCART1	492043.8	3626157	1.22E-09	2YrCancerf	1.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	UCART1	492237.9	3626157	1.33E-09	2YrCancerf	1.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	UCART1	492432	3626157	1.27E-09	2YrCancerf	1.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	UCART1	492626.1	3626157	1.28E-09	2YrCancerf	1.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	UCART1	492820.2	3626157	1.46E-09	2YrCancerf	1.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	UCART1	493014.3	3626157	1.67E-09	2YrCancerf	1.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	UCART1	493208.4	3626157	1.49E-09	2YrCancerf	1.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	UCART1	493402.5	3626157	1.32E-09	2YrCancerf	1.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	UCART1	493596.6	3626157	1.13E-09	2YrCancerf	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	UCART1	493790.7	3626157	9.07E-10	2YrCancerf	9.07E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	UCART1	493984.8	3626157	6.81E-10	2YrCancerf	6.81E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	UCART1	494178.9	3626157	5.26E-10	2YrCancerf	5.26E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	UCART1	494373	3626157	4.12E-10	2YrCancerf	4.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

188	ALL		UCART1	494567.1	3626157	3.34E-10	2YrCancerf	3.34E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL		UCART1	494761.2	3626157	2.78E-10	2YrCancerf	2.78E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL		UCART1	490879.2	3626353	2.98E-10	2YrCancerf	2.98E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL		UCART1	491073.3	3626353	3.90E-10	2YrCancerf	3.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL		UCART1	491267.4	3626353	4.53E-10	2YrCancerf	4.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL		UCART1	491461.5	3626353	5.20E-10	2YrCancerf	5.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL		UCART1	491655.6	3626353	6.92E-10	2YrCancerf	6.92E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL		UCART1	491849.7	3626353	7.74E-10	2YrCancerf	7.74E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL		UCART1	492043.8	3626353	1.24E-09	2YrCancerf	1.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL		UCART1	492237.9	3626353	1.87E-09	2YrCancerf	1.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL		UCART1	492432	3626353	2.60E-09	2YrCancerf	2.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL		UCART1	492626.1	3626353	2.67E-09	2YrCancerf	2.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL		UCART1	492820.2	3626353	2.97E-09	2YrCancerf	2.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL		UCART1	493014.3	3626353	2.86E-09	2YrCancerf	2.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL		UCART1	493208.4	3626353	2.37E-09	2YrCancerf	2.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL		UCART1	493402.5	3626353	1.53E-09	2YrCancerf	1.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL		UCART1	493596.6	3626353	9.80E-10	2YrCancerf	9.80E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL		UCART1	493790.7	3626353	6.82E-10	2YrCancerf	6.82E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL		UCART1	493984.8	3626353	5.05E-10	2YrCancerf	5.05E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL		UCART1	494178.9	3626353	3.85E-10	2YrCancerf	3.85E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL		UCART1	494373	3626353	3.27E-10	2YrCancerf	3.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL		UCART1	494567.1	3626353	2.81E-10	2YrCancerf	2.81E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL		UCART1	494761.2	3626353	2.42E-10	2YrCancerf	2.42E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL		UCART1	490879.2	3626549	2.77E-10	2YrCancerf	2.77E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL		UCART1	491073.3	3626549	3.19E-10	2YrCancerf	3.19E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL		UCART1	491267.4	3626549	3.37E-10	2YrCancerf	3.37E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL		UCART1	491461.5	3626549	4.42E-10	2YrCancerf	4.42E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL		UCART1	491655.6	3626549	5.03E-10	2YrCancerf	5.03E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL		UCART1	491849.7	3626549	6.04E-10	2YrCancerf	6.04E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL		UCART1	492043.8	3626549	9.85E-10	2YrCancerf	9.85E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL		UCART1	492237.9	3626549	1.60E-09	2YrCancerf	1.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL		UCART1	492432	3626549	2.86E-09	2YrCancerf	2.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL		UCART1	492626.1	3626549	5.34E-09	2YrCancerf	5.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL		UCART1	492820.2	3626549	7.96E-09	2YrCancerf	7.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL		UCART1	493014.3	3626549	3.46E-09	2YrCancerf	3.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL		UCART1	493208.4	3626549	1.78E-09	2YrCancerf	1.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL		UCART1	493402.5	3626549	9.80E-10	2YrCancerf	9.80E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL		UCART1	493596.6	3626549	6.18E-10	2YrCancerf	6.18E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL		UCART1	493790.7	3626549	4.83E-10	2YrCancerf	4.83E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL		UCART1	493984.8	3626549	3.82E-10	2YrCancerf	3.82E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL		UCART1	494178.9	3626549	2.94E-10	2YrCancerf	2.94E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL		UCART1	494373	3626549	2.51E-10	2YrCancerf	2.51E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL		UCART1	494567.1	3626549	2.23E-10	2YrCancerf	2.23E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL		UCART1	494761.2	3626549	1.98E-10	2YrCancerf	1.98E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL		UCART1	490879.2	3626745	2.22E-10	2YrCancerf	2.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL		UCART1	491073.3	3626745	2.64E-10	2YrCancerf	2.64E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL		UCART1	491267.4	3626745	2.83E-10	2YrCancerf	2.83E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

235 ALL	UCART1	491461.5	3626745	3.27E-10	2YrCancerf	3.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236 ALL	UCART1	491655.6	3626745	3.58E-10	2YrCancerf	3.58E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237 ALL	UCART1	491849.7	3626745	5.11E-10	2YrCancerf	5.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238 ALL	UCART1	492043.8	3626745	7.04E-10	2YrCancerf	7.04E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239 ALL	UCART1	492237.9	3626745	1.03E-09	2YrCancerf	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240 ALL	UCART1	492432	3626745	1.30E-09	2YrCancerf	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241 ALL	UCART1	492626.1	3626745	2.80E-09	2YrCancerf	2.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242 ALL	UCART1	492820.2	3626745	2.56E-09	2YrCancerf	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243 ALL	UCART1	493014.3	3626745	1.47E-09	2YrCancerf	1.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244 ALL	UCART1	493208.4	3626745	8.26E-10	2YrCancerf	8.26E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245 ALL	UCART1	493402.5	3626745	5.53E-10	2YrCancerf	5.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246 ALL	UCART1	493596.6	3626745	3.64E-10	2YrCancerf	3.64E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247 ALL	UCART1	493790.7	3626745	2.89E-10	2YrCancerf	2.89E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248 ALL	UCART1	493984.8	3626745	2.45E-10	2YrCancerf	2.45E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249 ALL	UCART1	494178.9	3626745	2.15E-10	2YrCancerf	2.15E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250 ALL	UCART1	494373	3626745	1.95E-10	2YrCancerf	1.95E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251 ALL	UCART1	494567.1	3626745	1.83E-10	2YrCancerf	1.83E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252 ALL	UCART1	494761.2	3626745	1.63E-10	2YrCancerf	1.63E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253 ALL	UCART1	490879.2</															

[illegible]

[illegible]

[illegible]

[illegible]

470	ALL	493134	3625902	1.40E-09	2YrCancerf	1.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	492874.3	3625788	1.87E-09	2YrCancerf	1.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	492894.2	3625789	2.08E-09	2YrCancerf	2.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	492910.2	3625790	2.23E-09	2YrCancerf	2.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	492930.7	3625787	2.32E-09	2YrCancerf	2.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	492947.4	3625791	2.44E-09	2YrCancerf	2.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	492963.4	3625788	2.29E-09	2YrCancerf	2.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	492982.7	3625788	2.33E-09	2YrCancerf	2.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	493000	3625788	2.56E-09	2YrCancerf	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	493021.1	3625791	3.24E-09	2YrCancerf	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	493036.5	3625789	3.30E-09	2YrCancerf	3.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	493055.8	3625790	3.47E-09	2YrCancerf	3.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	493076.3	3625788	3.51E-09	2YrCancerf	3.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	493094.9	3625788	3.22E-09	2YrCancerf	3.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	493112.8	3625788	2.60E-09	2YrCancerf	2.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	493129.5	3625787	2.35E-09	2YrCancerf	2.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	493148.7	3625787	2.07E-09	2YrCancerf	2.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	493164.8	3625790	1.89E-09	2YrCancerf	1.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	493184.7	3625789	1.69E-09	2YrCancerf	1.69E-09	0.00										

517	ALL	492477	3626547	3.60E-09	2YrCancerf	3.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	492467.8	3626523	3.52E-09	2YrCancerf	3.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	492463.9	3626508	3.52E-09	2YrCancerf	3.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	492450.9	3626493	3.39E-09	2YrCancerf	3.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	492427.4	3626475	3.17E-09	2YrCancerf	3.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	492402.9	3626461	2.90E-09	2YrCancerf	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	492803.9	3626616	6.40E-09	2YrCancerf	6.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	492823.3	3626567	7.41E-09	2YrCancerf	7.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	492838.3	3626527	7.79E-09	2YrCancerf	7.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	493039.8	3625834	5.86E-09	2YrCancerf	5.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	492743.2	3626629	6.96E-09	2YrCancerf	6.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	492791.9	3626663	4.66E-09	2YrCancerf	4.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	492731.1	3626742	3.09E-09	2YrCancerf	3.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	492774.8	3626728	2.83E-09	2YrCancerf	2.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	492674.1	3626739	3.36E-09	2YrCancerf	3.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	492708.5	3626698	4.74E-09	2YrCancerf	4.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	492703.3	3626653	5.53E-09	2YrCancerf	5.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	492723.8	3626582	1.06E-08	2YrCancerf	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	492761.2	3626554	1.13E-08	2YrCancerf	1.13E-08	0.										

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEI RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL	UCART1	490879.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06
2	ALL	UCART1	491073.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-06
3	ALL	UCART1	491267.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-06
4	ALL	UCART1	491461.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-06
5	ALL	UCART1	491655.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-06
6	ALL	UCART1	491849.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-06
7	ALL	UCART1	492043.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-06
8	ALL	UCART1	492237.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-06
9	ALL	UCART1	492432	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-06
10	ALL	UCART1	492626.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-06
11	ALL	UCART1	492820.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-06
12	ALL	UCART1	493014.3	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-06
13	ALL	UCART1	493208.4	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06
14	ALL	UCART1	493402.5	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-06
15	ALL	UCART1	493596.6	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06
16	ALL	UCART1	493790.7	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06
17	ALL	UCART1	493984.8	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-06
18	ALL	UCART1	494178.9	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-06
19	ALL	UCART1	494373	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-06
20	ALL	UCART1	494567.1	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-06
21	ALL	UCART1	494761.2	3624590	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-06
22	ALL	UCART1	490879.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06
23	ALL	UCART1	491073.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-06
24	ALL	UCART1	491267.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-06
25	ALL	UCART1	491461.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-06
26	ALL	UCART1	491655.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-06
27	ALL	UCART1	491849.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-06
28	ALL	UCART1	492043.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06
29	ALL	UCART1	492237.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-06
30	ALL	UCART1	492432	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-06
31	ALL	UCART1	492626.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-06
32	ALL	UCART1	492820.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-06
33	ALL	UCART1	493014.3	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-06
34	ALL	UCART1	493208.4	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-06
35	ALL	UCART1	493402.5	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06
36	ALL	UCART1	493596.6	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-06
37	ALL	UCART1	493790.7	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-06
38	ALL	UCART1	493984.8	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06
39	ALL	UCART1	494178.9	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-06
40	ALL	UCART1	494373	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06
41	ALL	UCART1	494567.1	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06
42	ALL	UCART1	494761.2	3624786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-06
43	ALL	UCART1	490879.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06
44	ALL	UCART1	491073.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-06
45	ALL	UCART1	491267.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06
46	ALL	UCART1	491461.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-06
47	ALL	UCART1	491655.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-06
48	ALL	UCART1	491849.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-06
49	ALL	UCART1	492043.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-06
50	ALL	UCART1	492237.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-06
51	ALL	UCART1	492432	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-06

52		UCART1	492626.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-06
53 ALL		UCART1	492820.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06
54 ALL		UCART1	493014.3	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-06
55 ALL		UCART1	493208.4	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-06
56 ALL		UCART1	493402.5	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
57 ALL		UCART1	493596.6	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
58 ALL		UCART1	493790.7	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
59 ALL		UCART1	493984.8	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
60 ALL		UCART1	494178.9	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-06
61 ALL		UCART1	494373	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-06
62 ALL		UCART1	494567.1	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-06
63 ALL		UCART1	494761.2	3624982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-06
64 ALL		UCART1	490879.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-06
65 ALL		UCART1	491073.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
66 ALL		UCART1	491267.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
67 ALL		UCART1	491461.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
68 ALL		UCART1	491655.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
69 ALL		UCART1	491849.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
70 ALL		UCART1	492043.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
71 ALL		UCART1	492237.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06
72 ALL		UCART1	492432	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
73 ALL		UCART1	492626.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-06
74 ALL		UCART1	492820.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
75 ALL		UCART1	493014.3	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
76 ALL		UCART1	493208.4	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
77 ALL		UCART1	493402.5	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
78 ALL		UCART1	493596.6	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
79 ALL		UCART1	493790.7	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
80 ALL		UCART1	493984.8	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
81 ALL		UCART1	494178.9	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
82 ALL		UCART1	494373	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
83 ALL		UCART1	494567.1	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
84 ALL		UCART1	494761.2	3625178	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-06
85 ALL		UCART1	490879.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
86 ALL		UCART1	491073.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
87 ALL		UCART1	491267.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
88 ALL		UCART1	491461.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
89 ALL		UCART1	491655.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
90 ALL		UCART1	491849.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
91 ALL		UCART1	492043.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
92 ALL		UCART1	492237.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
93 ALL		UCART1	492432	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
94 ALL		UCART1	492626.1	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
95 ALL		UCART1	492820.2	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
96 ALL		UCART1	493014.3	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
97 ALL		UCART1	493208.4	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
98 ALL		UCART1	493402.5	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
99 ALL		UCART1	493596.6	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
100 ALL		UCART1	493790.7	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
101 ALL		UCART1	493984.8	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
102 ALL		UCART1	494178.9	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
103 ALL		UCART1	494373	3625374	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05

312		UCART1	494178.9	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06
313	ALL	UCART1	494373	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-06
314	ALL	UCART1	494567.1	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-06
315	ALL	UCART1	494761.2	3627332	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-06
316	ALL	UCART1	490879.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-06
317	ALL	UCART1	491073.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06
318	ALL	UCART1	491267.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-06
319	ALL	UCART1	491461.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-06
320	ALL	UCART1	491655.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-06
321	ALL	UCART1	491849.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-06
322	ALL	UCART1	492043.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-06
323	ALL	UCART1	492237.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06
324	ALL	UCART1	492432	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-06
325	ALL	UCART1	492626.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06
326	ALL	UCART1	492820.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06
327	ALL	UCART1	493014.3	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-06
328	ALL	UCART1	493208.4	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-06
329	ALL	UCART1	493402.5	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-06
330	ALL	UCART1	493596.6	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-06
331	ALL	UCART1	493790.7	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-06
332	ALL	UCART1	493984.8	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-06
333	ALL	UCART1	494178.9	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06
334	ALL	UCART1	494373	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-06
335	ALL	UCART1	494567.1	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-06
336	ALL	UCART1	494761.2	3627528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-06
337	ALL	UCART1	490879.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-06
338	ALL	UCART1	491073.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-06
339	ALL	UCART1	491267.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-06
340	ALL	UCART1	491461.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06
341	ALL	UCART1	491655.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-06
342	ALL	UCART1	491849.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-06
343	ALL	UCART1	492043.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-06
344	ALL	UCART1	492237.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06
345	ALL	UCART1	492432	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-06
346	ALL	UCART1	492626.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06
347	ALL	UCART1	492820.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-06
348	ALL	UCART1	493014.3	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06
349	ALL	UCART1	493208.4	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06
350	ALL	UCART1	493402.5	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-06
351	ALL	UCART1	493596.6	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-06
352	ALL	UCART1	493790.7	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06
353	ALL	UCART1	493984.8	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-06
354	ALL	UCART1	494178.9	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-06
355	ALL	UCART1	494373	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-06
356	ALL	UCART1	494567.1	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06
357	ALL	UCART1	494761.2	3627724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-06
358	ALL	UCART1	490879.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

364		UCART1	492043.8	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-06
365	ALL	UCART1	492237.9	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-06
366	ALL	UCART1	492432	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06
367	ALL	UCART1	492626.1	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-06
368	ALL	UCART1	492820.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-06
369	ALL	UCART1	493014.3	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-06
370	ALL	UCART1	493208.4	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-06
371	ALL	UCART1	493402.5	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-06
372	ALL	UCART1	493596.6	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06
373	ALL	UCART1	493790.7	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-06
374	ALL	UCART1	493984.8	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-06
375	ALL	UCART1	494178.9	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-06
376	ALL	UCART1	494373	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06
377	ALL	UCART1	494567.1	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-06
378	ALL	UCART1	494761.2	3627920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-06
379	ALL	UCART1	490879.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-06
380	ALL	UCART1	491073.3	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-06
381	ALL	UCART1	491267.4	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-06
382	ALL	UCART1	491461.5	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-06
383	ALL	UCART1	491655.6	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-06
384	ALL	UCART1	491849.7	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06
385	ALL	UCART1	492043.8	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06
386	ALL	UCART1	492237.9	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-06
387	ALL	UCART1	492432	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-06
388	ALL	UCART1	492626.1	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06
389	ALL	UCART1	492820.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06
390	ALL	UCART1	493014.3	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-06
391	ALL	UCART1	493208.4	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-06
392	ALL	UCART1	493402.5	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-06
393	ALL	UCART1	493596.6	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-06
394	ALL	UCART1	493790.7	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-06
395	ALL	UCART1	493984.8	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-06
396	ALL	UCART1	494178.9	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06
397	ALL	UCART1	494373	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-06
398	ALL	UCART1	494567.1	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-07
399	ALL	UCART1	494761.2	3628116	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-07
400	ALL	UCART1	490879.2	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-06
401	ALL	UCART1	491073.3	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-06
402	ALL	UCART1	491267.4	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-06
403	ALL	UCART1	491461.5	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-06
404	ALL	UCART1	491655.6	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-06
405	ALL	UCART1	491849.7	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06
406	ALL	UCART1	492043.8	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-06
407	ALL	UCART1	492237.9	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-06
408	ALL	UCART1	492432	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-06
409	ALL	UCART1	492626.1	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-06
410	ALL	UCART1	492820.2	3628312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0											

		493109	3625912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
469	ALL	493112.2	3625898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
470	ALL	493134	3625902	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
471	ALL	492874.3	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05
472	ALL	492894.2	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
473	ALL	492910.2	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
474	ALL	492930.7	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05
475	ALL	492947.4	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05
476	ALL	492963.4	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05
477	ALL	492982.7	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05
478	ALL	493000	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-05
479	ALL	493021.1	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05
480	ALL	493036.5	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05
481	ALL	493055.8	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05
482	ALL	493076.3	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-05
483	ALL	493094.9	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05
484	ALL	493112.8	3625788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05
485	ALL	493129.5	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05
486	ALL	493148.7	3625787	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05
487	ALL	493164.8	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
488	ALL	493184.7	3625789	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
489	ALL	493202	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
490	ALL	493221.2	3625790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
491	ALL	493238.5	3625791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
492	ALL	492780	3626415	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
493	ALL	492778.7	3626388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05
494	ALL	492747.9	3626386	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-05
495	ALL	492742.2	3626418	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
496	ALL	492699.2	3626423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
497	ALL	492697.9	3626392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05
498	ALL	492678.7	3626412	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-05
499	ALL	492626.1	3626427	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
500	ALL	492606.9	3626436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
501	ALL	492599.2	3626405	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05
502	ALL	492491.2	3626645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-05
503	ALL	492517.4	3626637	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05
504	ALL	492521.2	3626603	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
505	ALL	492521.7	3626582	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
506	ALL	492512.5	3626554	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
507	ALL	492513.6	3626533	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
508	ALL	492501	3626506	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
509	ALL	492490.7	3626486	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-05
510	ALL	492479.2	3626464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05
511	ALL	492466.1	3626447	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-05
512	ALL	492447.6	3626419	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05
513	ALL	492431.8	3626431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05
514	ALL	492481.9	3626620	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05
515	ALL	492482.5	3626594	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05
516	ALL	492479.2	3626573	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05
517	ALL	492477	3626547	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05
518	ALL	492467.8	3626523	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00											

[illegible]

Appendix B

CalEEMod Outputs

Table of Contents

SDSU Evolve Phase 1 Detailed Report	2
SDSU Evolve Phase 2 Detailed Report	108
SDSU Evolve Phase 3 Detailed Report	201
SDSU Evolve Phase 4 Detailed Report	288
SDSU Evolve Phase 5 Detailed Report	381
SDSU Evolve Phase 6 Detailed Report	429
PVWatts Calculator	479
i-Tree_Planting-v2.7.0-data_San Diego-CA Carbon Removed	481
i-Tree_Planting-v2.7.0-data_San Diego-CA Carbon Sequestered	482
SDSU Evolve Existing Mobile Detailed Report	483

SDSU Evolve Phase 1 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. Demolition (2025) - Unmitigated
 - 3.2. Demolition (2025) - Mitigated
 - 3.3. Site Preparation (2025) - Unmitigated

3.4. Site Preparation (2025) - Mitigated

3.5. Grading (2025) - Unmitigated

3.6. Grading (2025) - Mitigated

3.7. Building Construction (2025) - Unmitigated

3.8. Building Construction (2025) - Mitigated

3.9. Building Construction (2026) - Unmitigated

3.10. Building Construction (2026) - Mitigated

3.11. Building Construction (2027) - Unmitigated

3.12. Building Construction (2027) - Mitigated

3.13. Paving (2027) - Unmitigated

3.14. Paving (2027) - Mitigated

3.15. Architectural Coating (2026) - Unmitigated

3.16. Architectural Coating (2026) - Mitigated

3.17. Architectural Coating (2027) - Unmitigated

3.18. Architectural Coating (2027) - Mitigated

3.19. Trenching (2025) - Unmitigated

3.20. Trenching (2025) - 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

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. 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	SDSU Evolve Phase 1
Construction Start Date	5/27/2025
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	1.80
Location	32.77754140411972, -117.07772216206095
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6514
EDFZ	12
Electric Utility	User Defined
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	1,370	Dwelling Unit	22.1	1,315,200	37,293	—	3,822	—

High Turnover (Sit Down Restaurant)	15.0	1000sqft	0.34	15,000	0.00	—	—	—
Parking Lot	15.0	Space	0.13	0.00	0.00	—	—	—
Other Asphalt Surfaces	0.91	Acre	0.91	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-15	Require All-Electric Development

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.04	1.75	17.5	27.6	0.10	0.26	6.12	6.38	0.26	2.25	2.50	—	14,628	14,628	0.76	1.92	27.3	15,246
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	127	126	10.3	30.1	0.04	0.07	5.61	5.68	0.07	1.36	1.42	—	10,034	10,034	0.44	0.74	0.70	10,258
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.7	16.7	6.07	16.5	0.02	0.05	2.87	2.92	0.05	0.70	0.75	—	5,767	5,767	0.25	0.47	6.40	5,921
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.05	3.05	1.11	3.02	< 0.005	0.01	0.52	0.53	0.01	0.13	0.14	—	955	955	0.04	0.08	1.06	980

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.04	1.75	17.5	27.6	0.10	0.26	6.12	6.38	0.26	2.25	2.50	—	14,628	14,628	0.76	1.92	27.3	15,246
2026	1.88	1.51	8.18	24.3	0.03	0.07	3.91	3.97	0.07	0.96	1.02	—	8,085	8,085	0.33	0.65	20.2	8,307
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.01	1.72	10.3	25.7	0.04	0.07	3.97	4.04	0.07	0.97	1.04	—	8,543	8,543	0.39	0.67	0.58	8,754
2026	127	126	9.25	30.1	0.04	0.07	5.61	5.68	0.07	1.36	1.42	—	9,743	9,743	0.44	0.74	0.70	9,975
2027	127	126	8.99	28.9	0.04	0.07	5.61	5.68	0.07	1.36	1.42	—	10,034	10,034	0.44	0.71	0.63	10,258
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.63	0.48	4.47	8.54	0.02	0.05	1.82	1.87	0.05	0.52	0.57	—	3,809	3,809	0.18	0.38	3.69	3,930
2026	7.37	7.16	6.07	16.5	0.02	0.05	2.87	2.92	0.05	0.70	0.75	—	5,767	5,767	0.25	0.47	6.40	5,921
2027	16.7	16.7	0.61	2.46	< 0.005	< 0.005	0.46	0.46	< 0.005	0.11	0.11	—	880	880	0.03	0.05	0.81	895
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.12	0.09	0.82	1.56	< 0.005	0.01	0.33	0.34	0.01	0.10	0.10	—	631	631	0.03	0.06	0.61	651
2026	1.34	1.31	1.11	3.02	< 0.005	0.01	0.52	0.53	0.01	0.13	0.14	—	955	955	0.04	0.08	1.06	980
2027	3.05	3.05	0.11	0.45	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	146	146	0.01	0.01	0.13	148

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2025	2.04	1.75	17.5	27.6	0.10	0.26	6.12	6.38	0.26	2.25	2.50	—	14,628	14,628	0.76	1.92	27.3	15,246
2026	1.88	1.51	8.18	24.3	0.03	0.07	3.91	3.97	0.07	0.96	1.02	—	8,085	8,085	0.33	0.65	20.2	8,307
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.01	1.72	10.3	25.7	0.04	0.07	3.97	4.04	0.07	0.97	1.04	—	8,543	8,543	0.39	0.67	0.58	8,754
2026	127	126	9.25	30.1	0.04	0.07	5.61	5.68	0.07	1.36	1.42	—	9,743	9,743	0.44	0.74	0.70	9,975
2027	127	126	8.99	28.9	0.04	0.07	5.61	5.68	0.07	1.36	1.42	—	10,034	10,034	0.44	0.71	0.63	10,258
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.63	0.48	4.47	8.54	0.02	0.05	1.82	1.87	0.05	0.52	0.57	—	3,809	3,809	0.18	0.38	3.69	3,930
2026	7.37	7.16	6.07	16.5	0.02	0.05	2.87	2.92	0.05	0.70	0.75	—	5,767	5,767	0.25	0.47	6.40	5,921
2027	16.7	16.7	0.61	2.46	< 0.005	< 0.005	0.46	0.46	< 0.005	0.11	0.11	—	880	880	0.03	0.05	0.81	895
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.12	0.09	0.82	1.56	< 0.005	0.01	0.33	0.34	0.01	0.10	0.10	—	631	631	0.03	0.06	0.61	651
2026	1.34	1.31	1.11	3.02	< 0.005	0.01	0.52	0.53	0.01	0.13	0.14	—	955	955	0.04	0.08	1.06	980
2027	3.05	3.05	0.11	0.45	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	146	146	0.01	0.01	0.13	148

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	41.6	40.8	5.68	100	0.08	0.33	4.09	4.42	0.30	1.04	1.34	736	31,710	32,447	74.4	0.42	47.1	34,481
Mit.	41.3	40.6	3.23	99.4	0.06	0.13	4.09	4.22	0.11	1.04	1.14	736	28,608	29,345	74.1	0.42	47.1	31,370
% Reduced	1%	< 0.5%	43%	1%	20%	60%	—	4%	65%	—	15%	—	10%	10%	< 0.5%	1%	—	9%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	34.2	33.8	5.11	21.1	0.07	0.29	4.09	4.38	0.28	1.04	1.31	736	31,293	32,029	74.4	0.43	33.2	34,052
Mit.	33.9	33.6	2.66	20.1	0.06	0.09	4.09	4.18	0.08	1.04	1.11	736	28,191	28,927	74.2	0.43	33.2	30,941
% Reduced	1%	< 0.5%	48%	5%	22%	68%	—	5%	72%	—	15%	—	10%	10%	< 0.5%	1%	—	9%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	37.7	37.1	5.33	58.7	0.07	0.31	4.08	4.39	0.29	1.04	1.32	736	31,219	31,956	74.4	0.43	39.0	33,983
Mit.	37.4	37.0	2.88	57.6	0.06	0.11	4.08	4.19	0.09	1.04	1.12	736	28,117	28,854	74.1	0.42	39.0	30,872
% Reduced	1%	< 0.5%	46%	2%	22%	65%	—	5%	69%	—	15%	—	10%	10%	< 0.5%	1%	—	9%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.88	6.77	0.97	10.7	0.01	0.06	0.75	0.80	0.05	0.19	0.24	122	5,169	5,291	12.3	0.07	6.46	5,626
Mit.	6.83	6.75	0.53	10.5	0.01	0.02	0.75	0.76	0.02	0.19	0.21	122	4,655	4,777	12.3	0.07	6.46	5,111
% Reduced	1%	< 0.5%	46%	2%	22%	65%	—	5%	69%	—	15%	—	10%	10%	< 0.5%	1%	—	9%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.08	2.85	1.81	19.2	0.05	0.03	4.07	4.10	0.03	1.03	1.06	—	4,688	4,688	0.23	0.18	14.2	4,762
Area	38.1	37.7	0.75	78.4	< 0.005	0.04	—	0.04	0.03	—	0.03	0.00	210	210	0.01	< 0.005	—	211
Energy	0.34	0.17	2.90	1.42	0.02	0.23	—	0.23	0.23	—	0.23	—	24,874	24,874	0.32	0.01	—	24,884
Water	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Waste	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9

Stationary	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Vegetation	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Total	41.6	40.8	5.68	100	0.08	0.33	4.09	4.42	0.30	1.04	1.34	736	31,710	32,447	74.4	0.42	47.1	34,481
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.02	2.79	1.99	18.2	0.04	0.03	4.07	4.10	0.03	1.03	1.06	—	4,481	4,481	0.24	0.19	0.37	4,545
Area	30.7	30.7	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.34	0.17	2.90	1.42	0.02	0.23	—	0.23	0.23	—	0.23	—	24,874	24,874	0.32	0.01	—	24,884
Water	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Waste	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Stationary	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Vegetation	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Total	34.2	33.8	5.11	21.1	0.07	0.29	4.09	4.38	0.28	1.04	1.31	736	31,293	32,029	74.4	0.43	33.2	34,052
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.99	2.75	1.97	18.2	0.04	0.03	4.06	4.10	0.03	1.03	1.06	—	4,512	4,512	0.24	0.19	6.13	4,581
Area	34.4	34.2	0.37	38.7	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	104	104	< 0.005	< 0.005	—	104
Energy	0.34	0.17	2.90	1.42	0.02	0.23	—	0.23	0.23	—	0.23	—	24,874	24,874	0.32	0.01	—	24,884
Water	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Waste	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Stationary	0.02	0.02	0.05	0.41	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	83.1	83.1	< 0.005	< 0.005	0.00	83.4
Vegetation	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Total	37.7	37.1	5.33	58.7	0.07	0.31	4.08	4.39	0.29	1.04	1.32	736	31,219	31,956	74.4	0.43	39.0	33,983

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.55	0.50	0.36	3.32	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	747	747	0.04	0.03	1.02	758
Area	6.27	6.24	0.07	7.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	17.2	17.2	< 0.005	< 0.005	—	17.2
Energy	0.06	0.03	0.53	0.26	< 0.005	0.04	—	0.04	0.04	—	0.04	—	4,118	4,118	0.05	< 0.005	—	4,120
Water	—	—	—	—	—	—	—	—	—	—	—	15.6	237	253	1.60	0.04	—	304
Waste	—	—	—	—	—	—	—	—	—	—	—	106	0.00	106	10.6	0.00	—	372
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.44	5.44
Stationary	< 0.005	< 0.005	0.01	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	13.8	13.8	< 0.005	< 0.005	0.00	13.8
Vegetation	—	< 0.005	0.01	—	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	35.1	35.1	—	—	—	35.1
Total	6.88	6.77	0.97	10.7	0.01	0.06	0.75	0.80	0.05	0.19	0.24	122	5,169	5,291	12.3	0.07	6.46	5,626

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.08	2.85	1.81	19.2	0.05	0.03	4.07	4.10	0.03	1.03	1.06	—	4,688	4,688	0.23	0.18	14.2	4,762
Area	38.1	37.7	0.75	78.4	< 0.005	0.04	—	0.04	0.03	—	0.03	0.00	210	210	0.01	< 0.005	—	211
Energy	0.05	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	21,772	21,772	0.05	< 0.005	—	21,773
Water	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Waste	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Stationary	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Vegetation	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Total	41.3	40.6	3.23	99.4	0.06	0.13	4.09	4.22	0.11	1.04	1.14	736	28,608	29,345	74.1	0.42	47.1	31,370

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.02	2.79	1.99	18.2	0.04	0.03	4.07	4.10	0.03	1.03	1.06	—	4,481	4,481	0.24	0.19	0.37	4,545
Area	30.7	30.7	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.05	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	21,772	21,772	0.05	< 0.005	—	21,773
Water	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Waste	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Stationary	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Vegetation	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Total	33.9	33.6	2.66	20.1	0.06	0.09	4.09	4.18	0.08	1.04	1.11	736	28,191	28,927	74.2	0.43	33.2	30,941
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.99	2.75	1.97	18.2	0.04	0.03	4.06	4.10	0.03	1.03	1.06	—	4,512	4,512	0.24	0.19	6.13	4,581
Area	34.4	34.2	0.37	38.7	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	104	104	< 0.005	< 0.005	—	104
Energy	0.05	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	21,772	21,772	0.05	< 0.005	—	21,773
Water	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Waste	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Stationary	0.02	0.02	0.05	0.41	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	83.1	83.1	< 0.005	< 0.005	0.00	83.4
Vegetation	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Total	37.4	37.0	2.88	57.6	0.06	0.11	4.08	4.19	0.09	1.04	1.12	736	28,117	28,854	74.1	0.42	39.0	30,872
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.55	0.50	0.36	3.32	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	747	747	0.04	0.03	1.02	758
Area	6.27	6.24	0.07	7.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	17.2	17.2	< 0.005	< 0.005	—	17.2
Energy	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	3,605	3,605	0.01	< 0.005	—	3,605

Water	—	—	—	—	—	—	—	—	—	—	—	15.6	237	253	1.60	0.04	—	304
Waste	—	—	—	—	—	—	—	—	—	—	—	106	0.00	106	10.6	0.00	—	372
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.44	5.44
Stationary	< 0.005	< 0.005	0.01	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	13.8	13.8	< 0.005	< 0.005	0.00	13.8
Vegetation	—	< 0.005	0.01	—	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	35.1	35.1	—	—	—	35.1
Total	6.83	6.75	0.53	10.5	0.01	0.02	0.75	0.76	0.02	0.19	0.21	122	4,655	4,777	12.3	0.07	6.46	5,111

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	2.13	5.00	0.01	0.01	—	0.01	0.01	—	0.01	—	715	715	0.03	0.01	—	718
Demolition	—	—	—	—	—	—	2.61	2.61	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.01	0.01	0.12	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.2	39.2	< 0.005	< 0.005	—	39.3
Demolition	—	—	—	—	—	—	0.14	0.14	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.49	6.49	< 0.005	< 0.005	—	6.51
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.74	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	152	152	0.01	0.01	0.57	154
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.26	105
Hauling	0.27	0.08	4.52	1.69	0.02	0.06	0.89	0.95	0.06	0.24	0.31	—	3,449	3,449	0.19	0.54	7.51	3,623
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.92	7.92	< 0.005	< 0.005	0.01	8.04
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.49	5.49	< 0.005	< 0.005	0.01	5.73
Hauling	0.01	< 0.005	0.26	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	189	189	0.01	0.03	0.18	198
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.31	1.31	< 0.005	< 0.005	< 0.005	1.33
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.91	0.91	< 0.005	< 0.005	< 0.005	0.95

Hauling	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.3	31.3	< 0.005	< 0.005	0.03	32.8

3.2. Demolition (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	2.13	5.00	0.01	0.01	—	0.01	0.01	—	0.01	—	715	715	0.03	0.01	—	718
Demolition	—	—	—	—	—	—	2.61	2.61	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.12	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.2	39.2	< 0.005	< 0.005	—	39.3
Demolition	—	—	—	—	—	—	0.14	0.14	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.49	6.49	< 0.005	< 0.005	—	6.51

Demoliti	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.74	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	152	152	0.01	0.01	0.57	154
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.26	105
Hauling	0.27	0.08	4.52	1.69	0.02	0.06	0.89	0.95	0.06	0.24	0.31	—	3,449	3,449	0.19	0.54	7.51	3,623
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.92	7.92	< 0.005	< 0.005	0.01	8.04
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.49	5.49	< 0.005	< 0.005	0.01	5.73
Hauling	0.01	< 0.005	0.26	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	189	189	0.01	0.03	0.18	198
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.31	1.31	< 0.005	< 0.005	< 0.005	1.33
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.91	0.91	< 0.005	< 0.005	< 0.005	0.95
Hauling	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.3	31.3	< 0.005	< 0.005	0.03	32.8

3.3. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,959	1,959	0.08	0.02	—	1,965
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.7	53.7	< 0.005	< 0.005	—	53.8
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.88	8.88	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.83	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	171	171	0.01	0.01	0.64	173
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.26	105
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.46	4.46	< 0.005	< 0.005	0.01	4.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.87
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.75
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	0.00	0.00	0.00	0.00	0.00	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. Site Preparation (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,959	1,959	0.08	0.02	—	1,965

Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.7	53.7	< 0.005	< 0.005	—	53.8
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.88	8.88	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.83	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	171	171	0.01	0.01	0.64	173

Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.26	105
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.46	4.46	< 0.005	< 0.005	0.01	4.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.87
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.75
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	0.00	0.00	0.00	0.00	0.00	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. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.20	0.20	1.58	11.2	0.02	0.04	—	0.04	0.04	—	0.04	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.02	0.15	1.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	193	193	0.01	< 0.005	—	194
Dust From Material Movement	—	—	—	—	—	—	0.26	0.26	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.03	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.0	32.0	< 0.005	< 0.005	—	32.1
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.09	1.39	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	285	285	0.01	0.01	1.07	289
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.26	105
Hauling	0.93	0.26	15.6	5.84	0.08	0.22	3.08	3.30	0.22	0.84	1.06	—	11,927	11,927	0.66	1.88	26.0	12,529
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	26.0	26.0	< 0.005	< 0.005	0.04	26.4
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.60	9.60	< 0.005	< 0.005	0.01	10.0
Hauling	0.09	0.02	1.55	0.56	0.01	0.02	0.29	0.32	0.02	0.08	0.10	—	1,144	1,144	0.06	0.18	1.07	1,200
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.31	4.31	< 0.005	< 0.005	0.01	4.37
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.66
Hauling	0.02	< 0.005	0.28	0.10	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	189	189	0.01	0.03	0.18	199

3.6. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.20	1.58	11.2	0.02	0.04	—	0.04	0.04	—	0.04	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.02	0.02	0.15	1.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	193	193	0.01	< 0.005	—	194
Dust From Material Movement	—	—	—	—	—	—	0.26	0.26	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.0	32.0	< 0.005	< 0.005	—	32.1
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.09	1.39	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	285	285	0.01	0.01	1.07	289
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.26	105
Hauling	0.93	0.26	15.6	5.84	0.08	0.22	3.08	3.30	0.22	0.84	1.06	—	11,927	11,927	0.66	1.88	26.0	12,529
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	26.0	26.0	< 0.005	< 0.005	0.04	26.4
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.60	9.60	< 0.005	< 0.005	0.01	10.0
Hauling	0.09	0.02	1.55	0.56	0.01	0.02	0.29	0.32	0.02	0.08	0.10	—	1,144	1,144	0.06	0.18	1.07	1,200
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.31	4.31	< 0.005	< 0.005	0.01	4.37
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.66
Hauling	0.02	< 0.005	0.28	0.10	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	189	189	0.01	0.03	0.18	199

3.7. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	986
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	986
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.62	1.69	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	240	240	0.01	< 0.005	—	241
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.8	39.8	< 0.005	< 0.005	—	39.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.53	1.41	1.07	16.2	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,321	3,321	0.15	0.12	12.5	3,371
Vendor	0.32	0.15	4.93	2.29	0.02	0.05	0.95	1.00	0.05	0.26	0.31	—	3,704	3,704	0.16	0.52	9.61	3,874
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.51	1.39	1.19	14.2	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,136	3,136	0.17	0.12	0.32	3,177
Vendor	0.31	0.14	5.11	2.36	0.02	0.05	0.95	1.00	0.05	0.26	0.31	—	3,706	3,706	0.16	0.52	0.25	3,866
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.37	0.34	0.29	3.52	0.00	0.00	0.72	0.72	0.00	0.17	0.17	—	774	774	0.04	0.03	1.31	785
Vendor	0.08	0.04	1.24	0.57	0.01	0.01	0.23	0.24	0.01	0.06	0.08	—	906	906	0.04	0.13	1.02	946
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.07	0.06	0.05	0.64	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	128	128	0.01	< 0.005	0.22	130
Vendor	0.01	0.01	0.23	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	0.17	157
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	986
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	986
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.62	1.69	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	240	240	0.01	< 0.005	—	241
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.8	39.8	< 0.005	< 0.005	—	39.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.53	1.41	1.07	16.2	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,321	3,321	0.15	0.12	12.5	3,371
Vendor	0.32	0.15	4.93	2.29	0.02	0.05	0.95	1.00	0.05	0.26	0.31	—	3,704	3,704	0.16	0.52	9.61	3,874
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.51	1.39	1.19	14.2	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,136	3,136	0.17	0.12	0.32	3,177
Vendor	0.31	0.14	5.11	2.36	0.02	0.05	0.95	1.00	0.05	0.26	0.31	—	3,706	3,706	0.16	0.52	0.25	3,866
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.37	0.34	0.29	3.52	0.00	0.00	0.72	0.72	0.00	0.17	0.17	—	774	774	0.04	0.03	1.31	785
Vendor	0.08	0.04	1.24	0.57	0.01	0.01	0.23	0.24	0.01	0.06	0.08	—	906	906	0.04	0.13	1.02	946
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.07	0.06	0.05	0.64	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	128	128	0.01	< 0.005	0.22	130
Vendor	0.01	0.01	0.23	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	0.17	157
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	987
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	987
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	1.81	4.94	0.01	0.01	—	0.01	0.01	—	0.01	—	702	702	0.03	0.01	—	705
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.33	0.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	116	116	< 0.005	< 0.005	—	117
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.47	1.26	0.97	15.1	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,253	3,253	0.15	0.12	11.4	3,303
Vendor	0.29	0.12	4.68	2.20	0.02	0.05	0.95	1.00	0.05	0.26	0.31	—	3,636	3,636	0.14	0.52	8.86	3,804
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.37	1.25	1.09	13.3	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,072	3,072	0.16	0.12	0.30	3,113
Vendor	0.28	0.12	4.87	2.24	0.02	0.05	0.95	1.00	0.05	0.26	0.31	—	3,638	3,638	0.14	0.52	0.23	3,798
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.97	0.88	0.78	9.63	0.00	0.00	2.11	2.11	0.00	0.49	0.49	—	2,214	2,214	0.12	0.09	3.51	2,247
Vendor	0.20	0.09	3.45	1.58	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,598	2,598	0.10	0.37	2.75	2,714
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.18	0.16	0.14	1.76	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	367	367	0.02	0.01	0.58	372
Vendor	0.04	0.02	0.63	0.29	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	430	430	0.02	0.06	0.45	449
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	987
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	987
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	1.81	4.94	0.01	0.01	—	0.01	0.01	—	0.01	—	702	702	0.03	0.01	—	705
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.33	0.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	116	116	< 0.005	< 0.005	—	117
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.47	1.26	0.97	15.1	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,253	3,253	0.15	0.12	11.4	3,303
Vendor	0.29	0.12	4.68	2.20	0.02	0.05	0.95	1.00	0.05	0.26	0.31	—	3,636	3,636	0.14	0.52	8.86	3,804
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.37	1.25	1.09	13.3	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,072	3,072	0.16	0.12	0.30	3,113
Vendor	0.28	0.12	4.87	2.24	0.02	0.05	0.95	1.00	0.05	0.26	0.31	—	3,638	3,638	0.14	0.52	0.23	3,798
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.97	0.88	0.78	9.63	0.00	0.00	2.11	2.11	0.00	0.49	0.49	—	2,214	2,214	0.12	0.09	3.51	2,247
Vendor	0.20	0.09	3.45	1.58	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,598	2,598	0.10	0.37	2.75	2,714
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.18	0.16	0.14	1.76	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	367	367	0.02	0.01	0.58	372
Vendor	0.04	0.02	0.63	0.29	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	430	430	0.02	0.06	0.45	449
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	986
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.14	0.39	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	55.8	55.8	< 0.005	< 0.005	—	56.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.03	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.24	9.24	< 0.005	< 0.005	—	9.27
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.33	1.20	1.08	12.6	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,021	3,021	0.16	0.12	0.27	3,062
Vendor	0.25	0.12	4.65	2.15	0.02	0.05	0.95	1.00	0.05	0.26	0.31	—	3,561	3,561	0.14	0.50	0.21	3,713
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	0.72	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	173	173	0.01	0.01	0.25	175
Vendor	0.01	0.01	0.26	0.12	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	202	202	0.01	0.03	0.19	211
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	28.6	28.6	< 0.005	< 0.005	0.04	29.0
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	33.4	33.4	< 0.005	< 0.005	0.03	34.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.12	0.12	2.53	6.92	0.01	0.02	—	0.02	0.02	—	0.02	—	983	983	0.04	0.01	—	986
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.14	0.39	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	55.8	55.8	< 0.005	< 0.005	—	56.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.03	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.24	9.24	< 0.005	< 0.005	—	9.27
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.33	1.20	1.08	12.6	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,021	3,021	0.16	0.12	0.27	3,062
Vendor	0.25	0.12	4.65	2.15	0.02	0.05	0.95	1.00	0.05	0.26	0.31	—	3,561	3,561	0.14	0.50	0.21	3,713
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.07	0.07	0.06	0.72	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	173	173	0.01	0.01	0.25	175
Vendor	0.01	0.01	0.26	0.12	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	202	202	0.01	0.03	0.19	211
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	28.6	28.6	< 0.005	< 0.005	0.04	29.0
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	33.4	33.4	< 0.005	< 0.005	0.03	34.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.72	3.98	0.01	0.01	—	0.01	0.01	—	0.01	—	567	567	0.02	< 0.005	—	569
Paving	0.14	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.1	31.1	< 0.005	< 0.005	—	31.2
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.14	5.14	< 0.005	< 0.005	—	5.16
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.58	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	138	138	0.01	0.01	0.01	140
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.63	7.63	< 0.005	< 0.005	0.01	7.74
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	0.01	5.50
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.26	1.26	< 0.005	< 0.005	< 0.005	1.28
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.72	3.98	0.01	0.01	—	0.01	0.01	—	0.01	—	567	567	0.02	< 0.005	—	569
Paving	0.14	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.1	31.1	< 0.005	< 0.005	—	31.2
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.14	5.14	< 0.005	< 0.005	—	5.16
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.58	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	138	138	0.01	0.01	0.01	140
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.63	7.63	< 0.005	< 0.005	0.01	7.74
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	0.01	5.50
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.26	1.26	< 0.005	< 0.005	< 0.005	1.28
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	124	124	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	6.07	6.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	1.11	1.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.78	0.71	0.62	7.55	0.00	0.00	1.67	1.67	0.00	0.39	0.39	—	1,738	1,738	0.09	0.07	0.17	1,761
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.01	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.37	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	85.8	85.8	< 0.005	< 0.005	0.14	87.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.81	4.81	< 0.005	< 0.005	0.01	5.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.02	14.4
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.83
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Architectural Coating	124	124	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	6.07	6.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	1.11	1.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.78	0.71	0.62	7.55	0.00	0.00	1.67	1.67	0.00	0.39	0.39	—	1,738	1,738	0.09	0.07	0.17	1,761
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.01	103

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.37	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	85.8	85.8	< 0.005	< 0.005	0.14	87.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.81	4.81	< 0.005	< 0.005	0.01	5.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.02	14.4
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.83
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	124	124	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	16.5	16.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	3.01	3.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75	0.68	0.61	7.13	0.00	0.00	1.67	1.67	0.00	0.39	0.39	—	1,709	1,709	0.09	0.07	0.15	1,732
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	0.96	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	229	229	0.01	0.01	0.34	233
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.8	12.8	< 0.005	< 0.005	0.01	13.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.01	0.18	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	38.0	38.0	< 0.005	< 0.005	0.06	38.5
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.12	2.12	< 0.005	< 0.005	< 0.005	2.21
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	124	124	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	16.5	16.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	3.01	3.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75	0.68	0.61	7.13	0.00	0.00	1.67	1.67	0.00	0.39	0.39	—	1,709	1,709	0.09	0.07	0.15	1,732	
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	0.96	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	229	229	0.01	0.01	0.34	233	
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.8	12.8	< 0.005	< 0.005	0.01	13.4	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.18	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	38.0	38.0	< 0.005	< 0.005	0.06	38.5	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.12	2.12	< 0.005	< 0.005	< 0.005	2.21	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Trenching (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.16	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.2	34.2	< 0.005	< 0.005	—	34.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.65	5.65	< 0.005	< 0.005	—	5.67

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.19	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	38.0	38.0	< 0.005	< 0.005	0.14	38.5
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.26	105
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.8	35.8	< 0.005	< 0.005	< 0.005	36.3
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.01	104
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.36	4.36	< 0.005	< 0.005	0.01	4.42
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	0.01	12.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.73
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.00	2.00	< 0.005	< 0.005	< 0.005	2.09
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Trenching (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.16	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.2	34.2	< 0.005	< 0.005	—	34.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.65	5.65	< 0.005	< 0.005	—	5.67
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.01	0.19	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	38.0	38.0	< 0.005	< 0.005	0.14	38.5
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.26	105
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.8	35.8	< 0.005	< 0.005	< 0.005	36.3
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.01	104
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.36	4.36	< 0.005	< 0.005	0.01	4.42
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	0.01	12.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.73
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.00	2.00	< 0.005	< 0.005	< 0.005	2.09
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme nts	3.08	2.85	1.81	19.2	0.05	0.03	4.07	4.10	0.03	1.03	1.06	—	4,688	4,688	0.23	0.18	14.2	4,762
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.08	2.85	1.81	19.2	0.05	0.03	4.07	4.10	0.03	1.03	1.06	—	4,688	4,688	0.23	0.18	14.2	4,762
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	3.02	2.79	1.99	18.2	0.04	0.03	4.07	4.10	0.03	1.03	1.06	—	4,481	4,481	0.24	0.19	0.37	4,545
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.02	2.79	1.99	18.2	0.04	0.03	4.07	4.10	0.03	1.03	1.06	—	4,481	4,481	0.24	0.19	0.37	4,545
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	0.55	0.50	0.36	3.32	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	747	747	0.04	0.03	1.02	758

High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.55	0.50	0.36	3.32	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	747	747	0.04	0.03	1.02	758

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	3.08	2.85	1.81	19.2	0.05	0.03	4.07	4.10	0.03	1.03	1.06	—	4,688	4,688	0.23	0.18	14.2	4,762
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.08	2.85	1.81	19.2	0.05	0.03	4.07	4.10	0.03	1.03	1.06	—	4,688	4,688	0.23	0.18	14.2	4,762

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	3.02	2.79	1.99	18.2	0.04	0.03	4.07	4.10	0.03	1.03	1.06	—	4,481	4,481	0.24	0.19	0.37	4,545
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.02	2.79	1.99	18.2	0.04	0.03	4.07	4.10	0.03	1.03	1.06	—	4,481	4,481	0.24	0.19	0.37	4,545
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	0.55	0.50	0.36	3.32	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	747	747	0.04	0.03	1.02	758
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.55	0.50	0.36	3.32	0.01	0.01	0.74	0.75	0.01	0.19	0.19	—	747	747	0.04	0.03	1.02	758

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	19,017	19,017	0.00	0.00	—	19,017
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	2,187	2,187	0.00	0.00	—	2,187
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1	0.00	0.00	—	21.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	21,226	21,226	0.00	0.00	—	21,226
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	19,017	19,017	0.00	0.00	—	19,017
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	2,187	2,187	0.00	0.00	—	2,187
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1	0.00	0.00	—	21.1

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	21,226	21,226	0.00	0.00	—	21,226
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,149	3,149	0.00	0.00	—	3,149
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	362	362	0.00	0.00	—	362
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3.49	3.49	0.00	0.00	—	3.49
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,514	3,514	0.00	0.00	—	3,514

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	19,023	19,023	0.00	0.00	—	19,023

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	2,187	2,187	0.00	0.00	—	2,187
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1	0.00	0.00	—	21.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	21,232	21,232	0.00	0.00	—	21,232
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	19,023	19,023	0.00	0.00	—	19,023
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	2,187	2,187	0.00	0.00	—	2,187
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1	0.00	0.00	—	21.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	21,232	21,232	0.00	0.00	—	21,232
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,149	3,149	0.00	0.00	—	3,149

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	362	362	0.00	0.00	—	362
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3.49	3.49	0.00	0.00	—	3.49
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,515	3,515	0.00	0.00	—	3,515

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,108	3,108	0.28	0.01	—	3,117
High Turnover (Sit Down Restaurant)	0.05	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	540	540	0.05	< 0.005	—	542
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	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.34	0.17	2.90	1.42	0.02	0.23	—	0.23	0.23	—	0.23	—	3,648	3,648	0.32	0.01	—	3,658

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,108	3,108	0.28	0.01	—	3,117
High Turnover (Sit Down Restaurant)	0.05	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	540	540	0.05	< 0.005	—	542
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	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.34	0.17	2.90	1.42	0.02	0.23	—	0.23	0.23	—	0.23	—	3,648	3,648	0.32	0.01	—	3,658
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.05	0.03	0.45	0.19	< 0.005	0.04	—	0.04	0.04	—	0.04	—	515	515	0.05	< 0.005	—	516
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	89.5	89.5	0.01	< 0.005	—	89.7
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	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.06	0.03	0.53	0.26	< 0.005	0.04	—	0.04	0.04	—	0.04	—	604	604	0.05	< 0.005	—	606

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
High Turnover (Sit Down Restaurant)	0.05	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	540	540	0.05	< 0.005	—	542
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	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.05	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	540	540	0.05	< 0.005	—	542
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
High Turnover (Sit Down Restaurant)	0.05	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	540	540	0.05	< 0.005	—	542
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	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.05	0.02	0.45	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	540	540	0.05	< 0.005	—	542
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	89.5	89.5	0.01	< 0.005	—	89.7
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	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	89.5	89.5	0.01	< 0.005	—	89.7

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	28.5	28.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	7.32	6.93	0.75	78.4	< 0.005	0.04	—	0.04	0.03	—	0.03	—	210	210	0.01	< 0.005	—	211
Total	38.1	37.7	0.75	78.4	< 0.005	0.04	—	0.04	0.03	—	0.03	0.00	210	210	0.01	< 0.005	—	211
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	28.5	28.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	30.7	30.7	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	5.20	5.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.42	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.66	0.62	0.07	7.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.2	17.2	< 0.005	< 0.005	—	17.2
Total	6.27	6.24	0.07	7.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	17.2	17.2	< 0.005	< 0.005	—	17.2

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	28.5	28.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.32	6.93	0.75	78.4	< 0.005	0.04	—	0.04	0.03	—	0.03	—	210	210	0.01	< 0.005	—	211
Total	38.1	37.7	0.75	78.4	< 0.005	0.04	—	0.04	0.03	—	0.03	0.00	210	210	0.01	< 0.005	—	211
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	28.5	28.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	30.7	30.7	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	5.20	5.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect ural	0.42	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landsca pe Equipm ent	0.66	0.62	0.07	7.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.2	17.2	< 0.005	< 0.005	—	17.2
Total	6.27	6.24	0.07	7.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	17.2	17.2	< 0.005	< 0.005	—	17.2

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	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
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme High Rise	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	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
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	15.6	237	253	1.60	0.04	—	304
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	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
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	15.6	237	253	1.60	0.04	—	304

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	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
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	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
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	94.3	1,434	1,529	9.67	0.23	—	1,839
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme High Rise	—	—	—	—	—	—	—	—	—	—	—	15.6	237	253	1.60	0.04	—	304
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	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
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	15.6	237	253	1.60	0.04	—	304

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	546	0.00	546	54.6	0.00	—	1,910
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.2	0.00	96.2	9.61	0.00	—	337
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	546	0.00	546	54.6	0.00	—	1,910
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.2	0.00	96.2	9.61	0.00	—	337
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	90.4	0.00	90.4	9.03	0.00	—	316
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	15.9	0.00	15.9	1.59	0.00	—	55.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	106	0.00	106	10.6	0.00	—	372

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	546	0.00	546	54.6	0.00	—	1,910
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.2	0.00	96.2	9.61	0.00	—	337
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	546	0.00	546	54.6	0.00	—	1,910
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	96.2	0.00	96.2	9.61	0.00	—	337

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	642	0.00	642	64.2	0.00	—	2,247
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	90.4	0.00	90.4	9.03	0.00	—	316
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	15.9	0.00	15.9	1.59	0.00	—	55.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	106	0.00	106	10.6	0.00	—	372

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.42	9.42
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.4	23.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.42	9.42
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.4	23.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.56	1.56
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.88	3.88
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.44	5.44

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.42	9.42
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.4	23.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.42	9.42
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.4	23.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.9	32.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.56	1.56
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.88	3.88

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.44	5.44

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerge ncy Generat or	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Total	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerge ncy Generat or	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Total	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerge ncy Generat or	< 0.005	< 0.005	0.01	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	13.8	13.8	< 0.005	< 0.005	0.00	13.8
Total	< 0.005	< 0.005	0.01	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	13.8	13.8	< 0.005	< 0.005	0.00	13.8

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergen cy Generat or	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Total	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergen cy Generat or	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Total	0.08	0.08	0.17	1.45	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	292	292	0.01	< 0.005	0.00	293
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergen cy Generat or	< 0.005	< 0.005	0.01	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	13.8	13.8	< 0.005	< 0.005	0.00	13.8
Total	< 0.005	< 0.005	0.01	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	13.8	13.8	< 0.005	< 0.005	0.00	13.8

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	0.01	< 0.005	—	0.01	0.02	0.02	0.03	< 0.005	< 0.005	0.01	—	33.0	33.0	—	—	—	33.0
Mexican Fan Palm	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.18	1.18	—	—	—	1.18
Kentia Palm	—	> -0.005	> -0.005	—	> -0.005	-0.01	-0.01	-0.01	> -0.005	> -0.005	> -0.005	—	-8.77	-8.77	—	—	—	-8.77
Subtotal	—	0.01	< 0.005	—	0.01	0.01	0.01	0.03	< 0.005	< 0.005	0.01	—	25.4	25.4	—	—	—	25.4
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	—	—	—	—	—	—	—	—	—	—	198	198	—	—	—	198
Mexican Fan Palm	—	—	—	—	—	—	—	—	—	—	—	—	2.06	2.06	—	—	—	2.06
Kentia Palm	—	—	—	—	—	—	—	—	—	—	—	—	-13.6	-13.6	—	—	—	-13.6
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	187	187	—	—	—	187
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	0.06	—	< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Mexican Fan Palm	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Kentia Palm	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	0.05	—	< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	0.01	< 0.005	—	0.01	0.02	0.02	0.03	< 0.005	< 0.005	0.01	—	33.0	33.0	—	—	—	33.0
Mexican Fan Palm	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.18	1.18	—	—	—	1.18
Kentia Palm	—	> -0.005	> -0.005	—	> -0.005	-0.01	-0.01	-0.01	> -0.005	> -0.005	> -0.005	—	-8.77	-8.77	—	—	—	-8.77
Subtotal	—	0.01	< 0.005	—	0.01	0.01	0.01	0.03	< 0.005	< 0.005	0.01	—	25.4	25.4	—	—	—	25.4
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	—	—	—	—	—	—	—	—	—	—	198	198	—	—	—	198
Mexican Fan Palm	—	—	—	—	—	—	—	—	—	—	—	—	2.06	2.06	—	—	—	2.06
Kentia Palm	—	—	—	—	—	—	—	—	—	—	—	—	-13.6	-13.6	—	—	—	-13.6
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	187	187	—	—	—	187
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	0.06	—	< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Mexican Fan Palm	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—

Kentia Palm	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	0.05	—	< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	5.46	5.46	—	—	—	5.46
Mexican Fan Palm	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	—	—	—	0.20
Kentia Palm	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.45	-1.45	—	—	—	-1.45
Subtotal	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.20	4.20	—	—	—	4.20
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	—	—	—	—	—	—	—	—	—	—	32.8	32.8	—	—	—	32.8
Mexican Fan Palm	—	—	—	—	—	—	—	—	—	—	—	—	0.34	0.34	—	—	—	0.34
Kentia Palm	—	—	—	—	—	—	—	—	—	—	—	—	-2.26	-2.26	—	—	—	-2.26
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	30.9	30.9	—	—	—	30.9
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	0.01	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Mexican Fan Palm	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—

Kentia Palm	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	0.01	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	< 0.005	0.01	—	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	35.1	35.1	—	—	—	35.1

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	0.01	< 0.005	—	0.01	0.02	0.02	0.03	< 0.005	< 0.005	0.01	—	33.0	33.0	—	—	—	33.0
Mexican Fan Palm	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.18	1.18	—	—	—	1.18
Kentia Palm	—	> -0.005	> -0.005	—	> -0.005	-0.01	-0.01	-0.01	> -0.005	> -0.005	> -0.005	—	-8.77	-8.77	—	—	—	-8.77
Subtotal	—	0.01	< 0.005	—	0.01	0.01	0.01	0.03	< 0.005	< 0.005	0.01	—	25.4	25.4	—	—	—	25.4
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	—	—	—	—	—	—	—	—	—	—	198	198	—	—	—	198
Mexican Fan Palm	—	—	—	—	—	—	—	—	—	—	—	—	2.06	2.06	—	—	—	2.06
Kentia Palm	—	—	—	—	—	—	—	—	—	—	—	—	-13.6	-13.6	—	—	—	-13.6
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	187	187	—	—	—	187
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Blue Gum Eucalyptus	—	—	0.06	—	< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Mexican Fan Palm	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Kentia Palm	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	0.05	—	< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	0.01	< 0.005	—	0.01	0.02	0.02	0.03	< 0.005	< 0.005	0.01	—	33.0	33.0	—	—	—	33.0
Mexican Fan Palm	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.18	1.18	—	—	—	1.18
Kentia Palm	—	> -0.005	> -0.005	—	> -0.005	-0.01	-0.01	-0.01	> -0.005	> -0.005	> -0.005	—	-8.77	-8.77	—	—	—	-8.77
Subtotal	—	0.01	< 0.005	—	0.01	0.01	0.01	0.03	< 0.005	< 0.005	0.01	—	25.4	25.4	—	—	—	25.4
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	—	—	—	—	—	—	—	—	—	—	198	198	—	—	—	198
Mexican Fan Palm	—	—	—	—	—	—	—	—	—	—	—	—	2.06	2.06	—	—	—	2.06
Kentia Palm	—	—	—	—	—	—	—	—	—	—	—	—	-13.6	-13.6	—	—	—	-13.6
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	187	187	—	—	—	187

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	0.06	—	< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Mexican Fan Palm	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Kentia Palm	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	0.05	—	< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.01	0.05	—	0.01	0.02	0.02	0.04	0.01	0.01	0.01	—	212	212	—	—	—	212
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	5.46	5.46	—	—	—	5.46
Mexican Fan Palm	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	—	—	—	0.20
Kentia Palm	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.45	-1.45	—	—	—	-1.45
Subtotal	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.20	4.20	—	—	—	4.20
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	—	—	—	—	—	—	—	—	—	—	32.8	32.8	—	—	—	32.8
Mexican Fan Palm	—	—	—	—	—	—	—	—	—	—	—	—	0.34	0.34	—	—	—	0.34
Kentia Palm	—	—	—	—	—	—	—	—	—	—	—	—	-2.26	-2.26	—	—	—	-2.26
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	30.9	30.9	—	—	—	30.9

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Gum Eucalyptus	—	—	0.01	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Mexican Fan Palm	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Kentia Palm	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	0.01	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	< 0.005	0.01	—	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	35.1	35.1	—	—	—	35.1

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	5/27/2025	6/24/2025	5.00	20.0	—
Site Preparation	Site Preparation	6/25/2025	7/9/2025	5.00	10.0	—
Grading	Grading	7/10/2025	8/28/2025	5.00	35.0	—
Building Construction	Building Construction	8/29/2025	1/29/2027	5.00	370	—
Paving	Paving	1/30/2027	2/27/2027	5.00	20.0	—
Architectural Coating	Architectural Coating	12/7/2026	3/9/2027	5.00	67.0	—
Trenching	Trenching	8/29/2025	10/29/2025	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38

Demolition	Tractors/Loaders/Back	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	7.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	4.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Building Construction	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	1.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40

Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	7.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	4.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Building Construction	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	1.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	16.0	12.0	LDA,LDT1,LDT2
Demolition	Vendor	4.00	7.63	HHDT,MHDT
Demolition	Hauling	48.0	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT

Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	30.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	7.63	HHDT,MHDT
Grading	Hauling	166	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	350	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	148	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	16.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	198	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	4.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	7.63	HHDT,MHDT

Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	16.0	12.0	LDA,LDT1,LDT2
Demolition	Vendor	4.00	7.63	HHDT,MHDT
Demolition	Hauling	48.0	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	30.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	7.63	HHDT,MHDT
Grading	Hauling	166	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	350	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	148	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	16.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	7.63	HHDT,MHDT

Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	198	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	4.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	7.63	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	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	2,663,280	887,760	22,500	7,500	2,718

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	3,780	—

Site Preparation	—	—	5.00	0.00	—
Grading	17,820	28,200	140	0.00	—
Paving	0.00	0.00	0.00	0.00	1.04

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Parking Lot	0.13	100%
Other Asphalt Surfaces	0.91	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	39,724	1,494	0.00	0.00
2026	39,724	1,494	0.00	0.00
2027	39,724	1,494	0.00	0.00

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VTM/Weekday	VTM/Saturday	VTM/Sunday	VTM/Year

Apartments High Rise	758	758	758	276,623	5,760	5,760	5,760	2,102,338
High Turnover (Sit Down Restaurant)	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
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments High Rise	758	758	758	276,623	5,760	5,760	5,760	2,102,338
High Turnover (Sit Down Restaurant)	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
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1370

Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1370
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
2663280	887,760	22,500	7,500	2,718

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)
Apartments High Rise	4,645,492	1,494	0.0000	0.0000	9,697,458
High Turnover (Sit Down Restaurant)	534,342	1,494	0.0000	0.0000	1,686,087
Parking Lot	5,151	1,494	0.0000	0.0000	0.00
Other Asphalt Surfaces	0.00	1,494	0.0000	0.0000	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)
Apartments High Rise	4,646,850	1,494	0.0000	0.0000	0.00
High Turnover (Sit Down Restaurant)	534,342	1,494	0.0000	0.0000	1,686,087
Parking Lot	5,151	1,494	0.0000	0.0000	0.00
Other Asphalt Surfaces	0.00	1,494	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	49,233,547	2,866,005
High Turnover (Sit Down Restaurant)	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	49,233,547	2,866,005
High Turnover (Sit Down Restaurant)	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	1,013	—
High Turnover (Sit Down Restaurant)	178	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	1,013	—
High Turnover (Sit Down Restaurant)	178	—
Parking Lot	0.00	—

Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0

High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	52.0	306	0.73
Emergency Generator	Diesel	1.00	0.50	52.0	389	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
Kentia Palm	225	92,063	347
Blue Gum Eucalyptus	-190	307,926	1,508
Mexican Fan Palm	-29.0	12,094	48.3

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
Kentia Palm	225	92,063	347
Blue Gum Eucalyptus	-190	307,926	1,508

Mexican Fan Palm	-29.0	12,094	48.3

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	9.08	annual days of extreme heat
Extreme Precipitation	2.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	4.89	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	46.0
AQ-DPM	78.3
Drinking Water	29.0
Lead Risk Housing	22.5
Pesticides	0.00
Toxic Releases	36.0
Traffic	83.2
Effect Indicators	—
CleanUp Sites	53.4
Groundwater	68.4
Haz Waste Facilities/Generators	37.7
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	38.4
Cardio-vascular	12.7
Low Birth Weights	9.08
Socioeconomic Factor Indicators	—
Education	—
Housing	96.5
Linguistic	—
Poverty	91.8
Unemployment	92.2

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	20.95470294
Employed	9.534197357
Median HI	17.43872706
Education	—
Bachelor's or higher	81.12408572
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	11.04837675
Active commuting	89.42640832
Social	—
2-parent households	99.56371102
Voting	22.66136276
Neighborhood	—
Alcohol availability	85.46131143
Park access	20.23610933
Retail density	97.62607468
Supermarket access	2.399589375
Tree canopy	71.71820865
Housing	—
Homeownership	27.87116643
Housing habitability	26.51097138
Low-inc homeowner severe housing cost burden	97.99820352
Low-inc renter severe housing cost burden	0.346464776
Uncrowded housing	50.16040036
Health Outcomes	—

Insured adults	68.95932247
Arthritis	97.1
Asthma ER Admissions	70.5
High Blood Pressure	98.1
Cancer (excluding skin)	89.7
Asthma	21.6
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	97.2
Life Expectancy at Birth	60.4
Cognitively Disabled	72.6
Physically Disabled	83.0
Heart Attack ER Admissions	96.5
Mental Health Not Good	34.8
Chronic Kidney Disease	95.6
Obesity	88.9
Pedestrian Injuries	19.6
Physical Health Not Good	81.0
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.6
Current Smoker	47.6
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	47.1
SLR Inundation Area	0.0
Children	96.5
Elderly	59.3

English Speaking	55.7
Foreign-born	45.8
Outdoor Workers	77.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	96.7
Traffic Access	61.3
Other Indices	—
Hardship	53.0
Other Decision Support	—
2016 Voting	37.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	47.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
 b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on proposal.
Characteristics: Utility Information	Phase 1 is within the on-campus grid getting electricity from the cogen.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	Based on LLG traffic study.
Operations: Hearths	No stoves or fireplaces.
Operations: Generators + Pumps EF	Tier 4 Final
Operations: Water and Waste Water	Based on applicant provided information.
Construction: Electricity	Based on campus grid cogen.
Construction: Dust From Material Movement	Based on applicant provided information.

SDSU Evolve Phase 2 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. Demolition (2026) - Unmitigated
 - 3.2. Demolition (2026) - Mitigated
 - 3.3. Site Preparation (2026) - Unmitigated

3.4. Site Preparation (2026) - Mitigated

3.5. Grading (2026) - Unmitigated

3.6. Grading (2026) - Mitigated

3.7. Building Construction (2026) - Unmitigated

3.8. Building Construction (2026) - Mitigated

3.9. Building Construction (2027) - Unmitigated

3.10. Building Construction (2027) - Mitigated

3.11. Paving (2027) - Unmitigated

3.12. Paving (2027) - Mitigated

3.13. Architectural Coating (2027) - Unmitigated

3.14. Architectural Coating (2027) - Mitigated

3.15. Architectural Coating (2028) - Unmitigated

3.16. Architectural Coating (2028) - Mitigated

3.17. Trenching (2026) - Unmitigated

3.18. Trenching (2026) - Mitigated

3.19. Trenching (2027) - Unmitigated

3.20. Trenching (2027) - 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

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. 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	SDSU Evolve Phase 2
Construction Start Date	8/31/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	1.80
Location	32.77754140411972, -117.07772216206095
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6514
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	760	Dwelling Unit	12.3	729,600	21,626	—	2,120	—

Other Asphalt Surfaces	0.63	Acre	0.63	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-15	Require All-Electric Development

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.61	1.42	5.93	21.8	0.03	0.07	3.48	3.53	0.05	1.36	1.39	—	6,092	6,092	0.26	0.48	14.8	6,232
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	70.3	70.0	7.75	24.1	0.04	0.09	4.44	4.49	0.08	1.60	1.67	—	6,961	6,961	0.33	0.47	0.47	7,106
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.6	10.5	4.21	14.2	0.02	0.03	2.42	2.45	0.03	0.58	0.61	—	4,106	4,106	0.19	0.27	4.40	4,196
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.93	1.91	0.77	2.58	< 0.005	0.01	0.44	0.45	0.01	0.11	0.11	—	680	680	0.03	0.04	0.73	695

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.37	0.25	5.93	11.6	0.03	0.07	3.04	3.11	0.05	1.36	1.39	—	3,877	3,877	0.19	0.48	6.64	4,031
2027	1.61	1.42	5.83	21.8	0.02	0.04	3.48	3.53	0.04	0.84	0.88	—	6,092	6,092	0.26	0.40	14.8	6,232
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.71	1.49	7.75	23.0	0.04	0.09	3.75	3.85	0.08	1.60	1.67	—	6,493	6,493	0.30	0.47	0.43	6,632
2027	70.3	70.0	7.60	24.1	0.03	0.05	4.44	4.49	0.05	1.06	1.11	—	6,961	6,961	0.33	0.46	0.47	7,106
2028	68.7	68.6	0.43	3.79	< 0.005	< 0.005	0.96	0.96	< 0.005	0.23	0.23	—	1,692	1,692	0.06	0.05	0.08	1,710
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.19	0.16	1.42	3.63	0.01	0.02	0.81	0.83	0.01	0.26	0.28	—	1,198	1,198	0.06	0.10	0.92	1,230
2027	10.6	10.5	4.21	14.2	0.02	0.03	2.42	2.45	0.03	0.58	0.61	—	4,106	4,106	0.19	0.27	4.40	4,196
2028	3.23	3.22	0.02	0.18	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	79.9	79.9	< 0.005	< 0.005	0.06	80.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.04	0.03	0.26	0.66	< 0.005	< 0.005	0.15	0.15	< 0.005	0.05	0.05	—	198	198	0.01	0.02	0.15	204
2027	1.93	1.91	0.77	2.58	< 0.005	0.01	0.44	0.45	0.01	0.11	0.11	—	680	680	0.03	0.04	0.73	695
2028	0.59	0.59	< 0.005	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	0.01	13.4

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.37	0.25	5.93	11.6	0.03	0.07	3.04	3.11	0.05	1.36	1.39	—	3,877	3,877	0.19	0.48	6.64	4,031
2027	1.61	1.42	5.83	21.8	0.02	0.04	3.48	3.53	0.04	0.84	0.88	—	6,092	6,092	0.26	0.40	14.8	6,232

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.71	1.49	7.75	23.0	0.04	0.09	3.75	3.85	0.08	1.60	1.67	—	6,493	6,493	0.30	0.47	0.43	6,632
2027	70.3	70.0	7.60	24.1	0.03	0.05	4.44	4.49	0.05	1.06	1.11	—	6,961	6,961	0.33	0.46	0.47	7,106
2028	68.7	68.6	0.43	3.79	< 0.005	< 0.005	0.96	0.96	< 0.005	0.23	0.23	—	1,692	1,692	0.06	0.05	0.08	1,710
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.19	0.16	1.42	3.63	0.01	0.02	0.81	0.83	0.01	0.26	0.28	—	1,198	1,198	0.06	0.10	0.92	1,230
2027	10.6	10.5	4.21	14.2	0.02	0.03	2.42	2.45	0.03	0.58	0.61	—	4,106	4,106	0.19	0.27	4.40	4,196
2028	3.23	3.22	0.02	0.18	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	79.9	79.9	< 0.005	< 0.005	0.06	80.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.04	0.03	0.26	0.66	< 0.005	< 0.005	0.15	0.15	< 0.005	0.05	0.05	—	198	198	0.01	0.02	0.15	204
2027	1.93	1.91	0.77	2.58	< 0.005	0.01	0.44	0.45	0.01	0.11	0.11	—	680	680	0.03	0.04	0.73	695
2028	0.59	0.59	< 0.005	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	0.01	13.4

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	23.8	23.4	3.93	55.5	0.04	0.24	2.26	2.50	0.23	0.57	0.81	368	6,597	6,965	37.8	0.32	12.2	8,017
Mit.	23.6	23.2	1.48	54.5	0.03	0.04	2.26	2.30	0.04	0.57	0.61	368	3,489	3,857	37.5	0.31	12.2	4,901
% Reduced	1%	1%	62%	2%	35%	82%	—	8%	84%	—	25%	—	47%	45%	1%	2%	—	39%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.8	19.6	3.61	11.8	0.04	0.22	2.26	2.48	0.22	0.57	0.79	368	6,369	6,737	37.8	0.32	5.41	7,784
Mit.	19.6	19.4	1.17	10.8	0.03	0.02	2.26	2.28	0.02	0.57	0.59	368	3,262	3,630	37.5	0.32	5.41	4,668

% Reduced	1%	1%	68%	9%	38%	90%	—	8%	90%	—	25%	—	49%	46%	1%	2%	—	40%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.7	21.4	3.71	32.3	0.04	0.23	2.25	2.48	0.22	0.57	0.80	368	6,284	6,652	37.8	0.32	8.24	7,701
Mit.	21.5	21.2	1.26	31.3	0.03	0.03	2.25	2.28	0.03	0.57	0.60	368	3,176	3,544	37.5	0.32	8.24	4,584
% Reduced	1%	1%	66%	3%	38%	87%	—	8%	89%	—	25%	—	49%	47%	1%	2%	—	40%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.97	3.90	0.68	5.90	0.01	0.04	0.41	0.45	0.04	0.10	0.15	60.9	1,040	1,101	6.26	0.05	1.36	1,275
Mit.	3.92	3.87	0.23	5.71	< 0.005	0.01	0.41	0.42	< 0.005	0.10	0.11	60.9	526	587	6.21	0.05	1.36	759
% Reduced	1%	1%	66%	3%	38%	87%	—	8%	89%	—	25%	—	49%	47%	1%	2%	—	40%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.64	1.51	0.94	10.2	0.03	0.02	2.26	2.27	0.02	0.57	0.59	—	2,548	2,548	0.12	0.10	6.97	2,588
Area	21.9	21.7	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	115	115	< 0.005	< 0.005	—	116
Energy	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,682	3,682	0.70	0.06	—	3,716
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	23.8	23.4	3.93	55.5	0.04	0.24	2.26	2.50	0.23	0.57	0.81	368	6,597	6,965	37.8	0.32	12.2	8,017

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.61	1.48	1.04	9.70	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,436	2,436	0.13	0.10	0.18	2,470
Area	17.9	17.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,682	3,682	0.70	0.06	—	3,716
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	19.8	19.6	3.61	11.8	0.04	0.22	2.26	2.48	0.22	0.57	0.79	368	6,369	6,737	37.8	0.32	5.41	7,784
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.59	1.46	1.02	9.66	0.02	0.02	2.25	2.27	0.02	0.57	0.59	—	2,453	2,453	0.13	0.10	3.01	2,490
Area	19.9	19.7	0.20	21.3	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	56.9	56.9	< 0.005	< 0.005	—	57.1
Energy	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,682	3,682	0.70	0.06	—	3,716
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.02	0.02	0.04	0.32	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	63.4	63.4	< 0.005	< 0.005	0.00	63.6
Total	21.7	21.4	3.71	32.3	0.04	0.23	2.25	2.48	0.22	0.57	0.80	368	6,284	6,652	37.8	0.32	8.24	7,701
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.29	0.27	0.19	1.76	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	406	406	0.02	0.02	0.50	412
Area	3.62	3.60	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45
Energy	0.05	0.03	0.45	0.19	< 0.005	0.04	—	0.04	0.04	—	0.04	—	610	610	0.12	0.01	—	615
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2
Waste	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87

Stationary	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	3.97	3.90	0.68	5.90	0.01	0.04	0.41	0.45	0.04	0.10	0.15	60.9	1,040	1,101	6.26	0.05	1.36	1,275

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.64	1.51	0.94	10.2	0.03	0.02	2.26	2.27	0.02	0.57	0.59	—	2,548	2,548	0.12	0.10	6.97	2,588
Area	21.9	21.7	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	115	115	< 0.005	< 0.005	—	116
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	574	574	0.42	0.05	—	600
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	23.6	23.2	1.48	54.5	0.03	0.04	2.26	2.30	0.04	0.57	0.61	368	3,489	3,857	37.5	0.31	12.2	4,901
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.61	1.48	1.04	9.70	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,436	2,436	0.13	0.10	0.18	2,470
Area	17.9	17.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	574	574	0.42	0.05	—	600
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	19.6	19.4	1.17	10.8	0.03	0.02	2.26	2.28	0.02	0.57	0.59	368	3,262	3,630	37.5	0.32	5.41	4,668

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.59	1.46	1.02	9.66	0.02	0.02	2.25	2.27	0.02	0.57	0.59	—	2,453	2,453	0.13	0.10	3.01	2,490
Area	19.9	19.7	0.20	21.3	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	56.9	56.9	< 0.005	< 0.005	—	57.1
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	574	574	0.42	0.05	—	600
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.02	0.02	0.04	0.32	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	63.4	63.4	< 0.005	< 0.005	0.00	63.6
Total	21.5	21.2	1.26	31.3	0.03	0.03	2.25	2.28	0.03	0.57	0.60	368	3,176	3,544	37.5	0.32	8.24	4,584
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.29	0.27	0.19	1.76	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	406	406	0.02	0.02	0.50	412
Area	3.62	3.60	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	95.1	95.1	0.07	0.01	—	99.3
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2
Waste	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Stationary	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	3.92	3.87	0.23	5.71	< 0.005	0.01	0.41	0.42	< 0.005	0.10	0.11	60.9	526	587	6.21	0.05	1.36	759

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	2.13	5.00	0.01	0.01	—	0.01	0.01	—	0.01	—	715	715	0.03	0.01	—	718
Demolition	—	—	—	—	—	—	2.14	2.14	—	0.32	0.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.12	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.2	39.2	< 0.005	< 0.005	—	39.3
Demolition	—	—	—	—	—	—	0.12	0.12	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.49	6.49	< 0.005	< 0.005	—	6.51
Demolition	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.07	0.06	0.04	0.69	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	149	149	0.01	0.01	0.52	151
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.24	103
Hauling	0.21	0.06	3.62	1.39	0.02	0.05	0.74	0.79	0.04	0.20	0.24	—	2,813	2,813	0.14	0.45	5.88	2,958
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.76	7.76	< 0.005	< 0.005	0.01	7.88
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.39	5.39	< 0.005	< 0.005	0.01	5.63
Hauling	0.01	< 0.005	0.21	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	154	154	0.01	0.02	0.14	162
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.29	1.29	< 0.005	< 0.005	< 0.005	1.30
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.89	0.89	< 0.005	< 0.005	< 0.005	0.93
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.5	25.5	< 0.005	< 0.005	0.02	26.8

3.2. Demolition (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	2.13	5.00	0.01	0.01	—	0.01	0.01	—	0.01	—	715	715	0.03	0.01	—	718
Demolition	—	—	—	—	—	—	2.14	2.14	—	0.32	0.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.12	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.2	39.2	< 0.005	< 0.005	—	39.3
Demoliti on	—	—	—	—	—	—	0.12	0.12	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.02	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.49	6.49	< 0.005	< 0.005	—	6.51
Demoliti on	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.69	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	149	149	0.01	0.01	0.52	151
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.24	103
Hauling	0.21	0.06	3.62	1.39	0.02	0.05	0.74	0.79	0.04	0.20	0.24	—	2,813	2,813	0.14	0.45	5.88	2,958
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.76	7.76	< 0.005	< 0.005	0.01	7.88

Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.39	5.39	< 0.005	< 0.005	0.01	5.63
Hauling	0.01	< 0.005	0.21	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	154	154	0.01	0.02	0.14	162
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.29	1.29	< 0.005	< 0.005	< 0.005	1.30
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.89	0.89	< 0.005	< 0.005	< 0.005	0.93
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.5	25.5	< 0.005	< 0.005	0.02	26.8

3.3. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,960	1,960	0.08	0.02	—	1,966
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,960	1,960	0.08	0.02	—	1,966

Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.7	53.7	< 0.005	< 0.005	—	53.9
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.89	8.89	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.78	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	167	167	0.01	0.01	0.59	170
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.24	103
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.07	0.06	0.06	0.69	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	158	158	0.01	0.01	0.02	160
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.01	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.37	4.37	< 0.005	< 0.005	0.01	4.43
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.69	2.69	< 0.005	< 0.005	< 0.005	2.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.73
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	0.00	0.00	0.00	0.00	0.00	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. Site Preparation (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,960	1,960	0.08	0.02	—	1,966
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,960	1,960	0.08	0.02	—	1,966
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.7	53.7	< 0.005	< 0.005	—	53.9
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.89	8.89	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.78	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	167	167	0.01	0.01	0.59	170
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.24	103
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.07	0.06	0.06	0.69	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	158	158	0.01	0.01	0.02	160
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.01	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.37	4.37	< 0.005	< 0.005	0.01	4.43
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.69	2.69	< 0.005	< 0.005	< 0.005	2.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.73
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	0.00	0.00	0.00	0.00	0.00	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. Grading (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.28	12.7	0.02	0.04	—	0.04	0.04	—	0.04	—	2,230	2,230	0.09	0.02	—	2,238
Dust From Material Movement	—	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.19	1.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	189	189	0.01	< 0.005	—	190
Dust From Material Movement	—	—	—	—	—	—	0.24	0.24	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.4	31.4	< 0.005	< 0.005	—	31.5
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.09	1.14	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	263	263	0.01	0.01	0.03	267
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.01	103
Hauling	0.19	0.06	3.57	1.34	0.02	0.05	0.70	0.75	0.03	0.19	0.23	—	2,674	2,674	0.13	0.43	0.14	2,805
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.6	22.6	< 0.005	< 0.005	0.04	22.9
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.35	8.35	< 0.005	< 0.005	0.01	8.72
Hauling	0.02	< 0.005	0.30	0.11	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	227	227	0.01	0.04	0.21	238
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.74	3.74	< 0.005	< 0.005	0.01	3.79
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.38	1.38	< 0.005	< 0.005	< 0.005	1.44
Hauling	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	37.6	37.6	< 0.005	0.01	0.03	39.5

3.6. Grading (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	0.23	0.23	2.28	12.7	0.02	0.04	—	0.04	0.04	—	0.04	—	2,230	2,230	0.09	0.02	—	2,238
Dust From Material Movement	—	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.02	0.19	1.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	189	189	0.01	< 0.005	—	190
Dust From Material Movement	—	—	—	—	—	—	0.24	0.24	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.04	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.4	31.4	< 0.005	< 0.005	—	31.5
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.09	1.14	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	263	263	0.01	0.01	0.03	267
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.01	103
Hauling	0.19	0.06	3.57	1.34	0.02	0.05	0.70	0.75	0.03	0.19	0.23	—	2,674	2,674	0.13	0.43	0.14	2,805
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.6	22.6	< 0.005	< 0.005	0.04	22.9
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.35	8.35	< 0.005	< 0.005	0.01	8.72
Hauling	0.02	< 0.005	0.30	0.11	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	227	227	0.01	0.04	0.21	238
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.74	3.74	< 0.005	< 0.005	0.01	3.79
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.38	1.38	< 0.005	< 0.005	< 0.005	1.44
Hauling	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	37.6	37.6	< 0.005	0.01	0.03	39.5

3.7. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.17	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.5	62.5	< 0.005	< 0.005	—	62.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.3	10.3	< 0.005	< 0.005	—	10.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.37	1.25	1.09	13.3	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,072	3,072	0.16	0.12	0.30	3,113
Vendor	0.16	0.07	2.70	1.24	0.01	0.03	0.52	0.55	0.03	0.14	0.17	—	2,016	2,016	0.08	0.29	0.13	2,104
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	0.95	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	218	218	0.01	0.01	0.35	222
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	142	142	0.01	0.02	0.15	148
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.01	0.17	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.2	36.2	< 0.005	< 0.005	0.06	36.7
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.5	23.5	< 0.005	< 0.005	0.02	24.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.17	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.5	62.5	< 0.005	< 0.005	—	62.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.3	10.3	< 0.005	< 0.005	—	10.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.37	1.25	1.09	13.3	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,072	3,072	0.16	0.12	0.30	3,113
Vendor	0.16	0.07	2.70	1.24	0.01	0.03	0.52	0.55	0.03	0.14	0.17	—	2,016	2,016	0.08	0.29	0.13	2,104
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	0.95	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	218	218	0.01	0.01	0.35	222
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	142	142	0.01	0.02	0.15	148
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.01	0.17	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.2	36.2	< 0.005	< 0.005	0.06	36.7
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.5	23.5	< 0.005	< 0.005	0.02	24.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	1.62	4.08	0.01	0.01	—	0.01	0.01	—	0.01	—	580	580	0.02	< 0.005	—	582
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.30	0.74	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.0	96.0	< 0.005	< 0.005	—	96.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.35	1.23	0.86	14.3	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,198	3,198	0.15	0.12	10.4	3,247
Vendor	0.15	0.07	2.49	1.17	0.01	0.03	0.52	0.55	0.03	0.14	0.17	—	1,971	1,971	0.08	0.28	4.40	2,060
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.33	1.20	1.08	12.6	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,021	3,021	0.16	0.12	0.27	3,062
Vendor	0.14	0.06	2.58	1.19	0.01	0.03	0.52	0.55	0.03	0.14	0.17	—	1,973	1,973	0.08	0.28	0.11	2,057
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.86	0.78	0.70	8.34	0.00	0.00	1.93	1.93	0.00	0.45	0.45	—	1,992	1,992	0.10	0.08	2.93	2,020
Vendor	0.09	0.04	1.67	0.78	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,289	1,289	0.05	0.18	1.24	1,345
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.16	0.14	0.13	1.52	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	330	330	0.02	0.01	0.48	334
Vendor	0.02	0.01	0.31	0.14	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	213	213	0.01	0.03	0.21	223
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.07	0.07	1.62	4.08	0.01	0.01	—	0.01	0.01	—	0.01	—	580	580	0.02	< 0.005	—	582
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.30	0.74	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.0	96.0	< 0.005	< 0.005	—	96.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.35	1.23	0.86	14.3	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,198	3,198	0.15	0.12	10.4	3,247
Vendor	0.15	0.07	2.49	1.17	0.01	0.03	0.52	0.55	0.03	0.14	0.17	—	1,971	1,971	0.08	0.28	4.40	2,060
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.33	1.20	1.08	12.6	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,021	3,021	0.16	0.12	0.27	3,062
Vendor	0.14	0.06	2.58	1.19	0.01	0.03	0.52	0.55	0.03	0.14	0.17	—	1,973	1,973	0.08	0.28	0.11	2,057
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.86	0.78	0.70	8.34	0.00	0.00	1.93	1.93	0.00	0.45	0.45	—	1,992	1,992	0.10	0.08	2.93	2,020
Vendor	0.09	0.04	1.67	0.78	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,289	1,289	0.05	0.18	1.24	1,345
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.16	0.14	0.13	1.52	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	330	330	0.02	0.01	0.48	334
Vendor	0.02	0.01	0.31	0.14	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	213	213	0.01	0.03	0.21	223

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	1.22	4.72	0.01	0.01	—	0.01	0.01	—	0.01	—	673	673	0.03	0.01	—	675
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.07	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.9	36.9	< 0.005	< 0.005	—	37.0
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.10	6.10	< 0.005	< 0.005	—	6.13
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.36	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	86.3	86.3	< 0.005	< 0.005	0.01	87.5
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.77	4.77	< 0.005	< 0.005	0.01	4.84
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	0.01	5.50
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.79	0.79	< 0.005	< 0.005	< 0.005	0.80
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.08	0.08	1.22	4.72	0.01	0.01	—	0.01	0.01	—	0.01	—	673	673	0.03	0.01	—	675
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.07	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.9	36.9	< 0.005	< 0.005	—	37.0
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.10	6.10	< 0.005	< 0.005	—	6.13
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.36	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	86.3	86.3	< 0.005	< 0.005	0.01	87.5
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.77	4.77	< 0.005	< 0.005	0.01	4.84
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	0.01	5.50
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.79	0.79	< 0.005	< 0.005	< 0.005	0.80
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Architect Coatings	9.49	9.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	1.73	1.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.42	0.38	0.34	3.96	0.00	0.00	0.93	0.93	0.00	0.22	0.22	—	949	949	0.05	0.04	0.08	962
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.06	0.05	0.05	0.56	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	133	133	0.01	0.01	0.20	135
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	14.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.0	22.0	< 0.005	< 0.005	0.03	22.3
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.31
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	9.49	9.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	1.73	1.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.42	0.38	0.34	3.96	0.00	0.00	0.93	0.93	0.00	0.22	0.22	—	949	949	0.05	0.04	0.08	962
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.06	0.05	0.05	0.56	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	133	133	0.01	0.01	0.20	135
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	14.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.0	22.0	< 0.005	< 0.005	0.03	22.3
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.31
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	3.21	3.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Architectural Coating	0.59	0.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.37	0.31	3.73	0.00	0.00	0.93	0.93	0.00	0.22	0.22	—	932	932	0.02	0.04	0.08	944
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.8	93.8	< 0.005	0.01	< 0.005	97.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.18	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	44.2	44.2	< 0.005	< 0.005	0.06	44.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.40	4.40	< 0.005	< 0.005	< 0.005	4.60
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.32	7.32	< 0.005	< 0.005	0.01	7.41
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.76
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	3.21	3.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.59	0.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.37	0.31	3.73	0.00	0.00	0.93	0.93	0.00	0.22	0.22	—	932	932	0.02	0.04	0.08	944
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.8	93.8	< 0.005	0.01	< 0.005	97.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.18	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	44.2	44.2	< 0.005	< 0.005	0.06	44.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.40	4.40	< 0.005	< 0.005	< 0.005	4.60
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.32	7.32	< 0.005	< 0.005	0.01	7.41
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.76
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Trenching (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.09	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.0	20.0	< 0.005	< 0.005	—	20.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.30	3.30	< 0.005	< 0.005	—	3.32
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.1	35.1	< 0.005	< 0.005	< 0.005	35.6
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.01	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.50	2.50	< 0.005	< 0.005	< 0.005	2.53
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.24

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.42
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.15	1.15	< 0.005	< 0.005	< 0.005	1.20
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Trenching (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.09	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.0	20.0	< 0.005	< 0.005	—	20.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.30	3.30	< 0.005	< 0.005	—	3.32
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.1	35.1	< 0.005	< 0.005	< 0.005	35.6
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.01	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.50	2.50	< 0.005	< 0.005	< 0.005	2.53
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.24
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.42
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.15	1.15	< 0.005	< 0.005	< 0.005	1.20
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Trenching (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4	14.4	< 0.005	< 0.005	—	14.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.39	2.39	< 0.005	< 0.005	—	2.40
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.14	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	34.5	34.5	< 0.005	< 0.005	< 0.005	35.0
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.77	1.77	< 0.005	< 0.005	< 0.005	1.80
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.89	4.89	< 0.005	< 0.005	< 0.005	5.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Trenching (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	283	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4	14.4	< 0.005	< 0.005	—	14.5

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.39	2.39	< 0.005	< 0.005	—	2.40
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.14	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	34.5	34.5	< 0.005	< 0.005	< 0.005	35.0
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.77	1.77	< 0.005	< 0.005	< 0.005	1.80
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.89	4.89	< 0.005	< 0.005	< 0.005	5.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.64	1.51	0.94	10.2	0.03	0.02	2.26	2.27	0.02	0.57	0.59	—	2,548	2,548	0.12	0.10	6.97	2,588
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.64	1.51	0.94	10.2	0.03	0.02	2.26	2.27	0.02	0.57	0.59	—	2,548	2,548	0.12	0.10	6.97	2,588
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.61	1.48	1.04	9.70	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,436	2,436	0.13	0.10	0.18	2,470
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.61	1.48	1.04	9.70	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,436	2,436	0.13	0.10	0.18	2,470
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.29	0.27	0.19	1.76	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	406	406	0.02	0.02	0.50	412
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.29	0.27	0.19	1.76	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	406	406	0.02	0.02	0.50	412

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.64	1.51	0.94	10.2	0.03	0.02	2.26	2.27	0.02	0.57	0.59	—	2,548	2,548	0.12	0.10	6.97	2,588
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.64	1.51	0.94	10.2	0.03	0.02	2.26	2.27	0.02	0.57	0.59	—	2,548	2,548	0.12	0.10	6.97	2,588
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.61	1.48	1.04	9.70	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,436	2,436	0.13	0.10	0.18	2,470
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.61	1.48	1.04	9.70	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,436	2,436	0.13	0.10	0.18	2,470
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.29	0.27	0.19	1.76	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	406	406	0.02	0.02	0.50	412
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.29	0.27	0.19	1.76	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	406	406	0.02	0.02	0.50	412

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	574	574	0.42	0.05	—	600
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	574	574	0.42	0.05	—	600
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	574	574	0.42	0.05	—	600
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	574	574	0.42	0.05	—	600
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	95.0	95.0	0.07	0.01	—	99.3
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	95.0	95.0	0.07	0.01	—	99.3

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	574	574	0.42	0.05	—	600
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	574	574	0.42	0.05	—	600
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	574	574	0.42	0.05	—	600
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	574	574	0.42	0.05	—	600
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	95.1	95.1	0.07	0.01	—	99.3
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	95.1	95.1	0.07	0.01	—	99.3

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,108	3,108	0.28	0.01	—	3,117
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,108	3,108	0.28	0.01	—	3,117
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,108	3,108	0.28	0.01	—	3,117
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.29	0.14	2.45	1.04	0.02	0.20	—	0.20	0.20	—	0.20	—	3,108	3,108	0.28	0.01	—	3,117
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.05	0.03	0.45	0.19	< 0.005	0.04	—	0.04	0.04	—	0.04	—	515	515	0.05	< 0.005	—	516
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.05	0.03	0.45	0.19	< 0.005	0.04	—	0.04	0.04	—	0.04	—	515	515	0.05	< 0.005	—	516

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.97	3.76	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	115	115	< 0.005	< 0.005	—	116
Total	21.9	21.7	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	115	115	< 0.005	< 0.005	—	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	17.9	17.9	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	2.85	2.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.42	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.36	0.34	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.45
Total	3.62	3.60	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	3.97	3.76	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	115	115	< 0.005	< 0.005	—	116
Total	21.9	21.7	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	115	115	< 0.005	< 0.005	—	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.28	2.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	17.9	17.9	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	2.85	2.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.42	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.36	0.34	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.45
Total	3.62	3.60	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetati on	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	8/31/2026	9/28/2026	5.00	20.0	—
Site Preparation	Site Preparation	9/29/2026	10/13/2026	5.00	10.0	—
Grading	Grading	10/14/2026	11/25/2026	5.00	31.0	—
Building Construction	Building Construction	11/26/2026	11/30/2027	5.00	264	—
Paving	Paving	12/1/2027	12/28/2027	5.00	20.0	—
Architectural Coating	Architectural Coating	10/22/2027	1/24/2028	5.00	67.0	—
Trenching	Trenching	11/26/2026	1/26/2027	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	7.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37

Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	7.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36

Paving	Rollers	Diesel	Tier 4 Final	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	16.0	12.0	LDA,LDT1,LDT2
Demolition	Vendor	4.00	7.63	HHDT,MHDT
Demolition	Hauling	40.0	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	30.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	7.63	HHDT,MHDT
Grading	Hauling	38.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	350	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	82.0	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

Paving	—	—	—	—
Paving	Worker	10.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	110	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	4.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	7.63	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	16.0	12.0	LDA,LDT1,LDT2
Demolition	Vendor	4.00	7.63	HHDT,MHDT
Demolition	Hauling	40.0	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT

Grading	—	—	—	—
Grading	Worker	30.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	7.63	HHDT,MHDT
Grading	Hauling	38.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	350	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	82.0	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	110	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	4.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	7.63	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	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	1,477,440	492,480	0.00	0.00	1,634

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	3,093	—
Site Preparation	—	—	5.00	0.00	—
Grading	5,800	3,500	140	0.00	—
Paving	0.00	0.00	0.00	0.00	0.63

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%
Other Asphalt Surfaces	0.63	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	19,381	589	0.03	< 0.005
2027	19,381	589	0.03	< 0.005
2028	19,381	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
Apartments High Rise	420	420	420	153,455	3,195	3,195	3,195	1,166,260
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments High Rise	420	420	420	153,455	3,195	3,195	3,195	1,166,260
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)

Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	760
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	760
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
2663280	887,760	22,500	7,500	2,718

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)
Apartments High Rise	4,645,492	45.1	0.0330	0.0040	9,697,458
Other Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments High Rise	4,646,850	45.1	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	33,953,291	740,799
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	33,953,291	740,799
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	562	—
Other Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	562	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	52.0	530	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	9.08	annual days of extreme heat
Extreme Precipitation	2.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	4.89	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	46.0
AQ-DPM	78.3
Drinking Water	29.0
Lead Risk Housing	22.5
Pesticides	0.00
Toxic Releases	36.0
Traffic	83.2
Effect Indicators	—
CleanUp Sites	53.4
Groundwater	68.4
Haz Waste Facilities/Generators	37.7
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	38.4
Cardio-vascular	12.7
Low Birth Weights	9.08
Socioeconomic Factor Indicators	—
Education	—
Housing	96.5
Linguistic	—
Poverty	91.8
Unemployment	92.2

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	20.95470294
Employed	9.534197357
Median HI	17.43872706
Education	—
Bachelor's or higher	81.12408572
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	11.04837675
Active commuting	89.42640832
Social	—
2-parent households	99.56371102
Voting	22.66136276
Neighborhood	—
Alcohol availability	85.46131143
Park access	20.23610933
Retail density	97.62607468
Supermarket access	2.399589375
Tree canopy	71.71820865
Housing	—
Homeownership	27.87116643
Housing habitability	26.51097138
Low-inc homeowner severe housing cost burden	97.99820352
Low-inc renter severe housing cost burden	0.346464776
Uncrowded housing	50.16040036
Health Outcomes	—

Insured adults	68.95932247
Arthritis	97.1
Asthma ER Admissions	70.5
High Blood Pressure	98.1
Cancer (excluding skin)	89.7
Asthma	21.6
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	97.2
Life Expectancy at Birth	60.4
Cognitively Disabled	72.6
Physically Disabled	83.0
Heart Attack ER Admissions	96.5
Mental Health Not Good	34.8
Chronic Kidney Disease	95.6
Obesity	88.9
Pedestrian Injuries	19.6
Physical Health Not Good	81.0
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.6
Current Smoker	47.6
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	47.1
SLR Inundation Area	0.0
Children	96.5
Elderly	59.3

English Speaking	55.7
Foreign-born	45.8
Outdoor Workers	77.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	96.7
Traffic Access	61.3
Other Indices	—
Hardship	53.0
Other Decision Support	—
2016 Voting	37.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	47.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Characteristics: Utility Information	Phase 1 is within the on-campus grid getting electricity from the cogen.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	Based on LLG traffic study.
Operations: Hearths	No stoves or fireplaces.
Operations: Generators + Pumps EF	Tier 4 Final
Operations: Water and Waste Water	Based on applicant provided information.
Construction: Dust From Material Movement	Based on applicant provided information.
Operations: Emergency Generators and Fire Pumps	Based on applicant provided information
Construction: Electricity	Estimated electricity use.

SDSU Evolve Phase 3 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. Demolition (2028) - Unmitigated
 - 3.2. Demolition (2028) - Mitigated
 - 3.3. Site Preparation (2028) - Unmitigated

3.4. Site Preparation (2028) - Mitigated

3.5. Grading (2028) - Unmitigated

3.6. Grading (2028) - Mitigated

3.7. Building Construction (2028) - Unmitigated

3.8. Building Construction (2028) - Mitigated

3.9. Building Construction (2029) - Unmitigated

3.10. Building Construction (2029) - Mitigated

3.11. Paving (2029) - Unmitigated

3.12. Paving (2029) - Mitigated

3.13. Architectural Coating (2029) - Unmitigated

3.14. Architectural Coating (2029) - Mitigated

3.15. Trenching (2028) - Unmitigated

3.16. Trenching (2028) - 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

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. 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	SDSU Evolve Phase 3
Construction Start Date	2/24/2028
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	1.80
Location	32.77754140411972, -117.07772216206095
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6514
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	760	Dwelling Unit	12.3	729,600	21,626	—	2,120	—

Other Asphalt Surfaces	0.63	Acre	0.63	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-15	Require All-Electric Development

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	70.2	70.0	10.3	24.2	0.06	0.17	4.81	4.98	0.13	1.89	2.01	—	8,912	8,912	0.39	1.08	14.8	9,257
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.56	1.36	8.04	19.3	0.04	0.10	4.98	5.08	0.07	1.36	1.39	—	5,782	5,782	0.24	0.74	0.34	5,906
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.0	12.9	4.11	10.9	0.02	0.04	2.28	2.32	0.04	0.61	0.65	—	3,694	3,694	0.13	0.31	3.23	3,792
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.37	2.36	0.75	1.99	< 0.005	0.01	0.42	0.42	0.01	0.11	0.12	—	612	612	0.02	0.05	0.53	628

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.64	1.44	10.3	23.1	0.06	0.17	4.81	4.98	0.13	1.89	2.01	—	8,912	8,912	0.39	1.08	13.6	9,257
2029	70.2	70.0	5.83	24.2	0.02	0.04	4.44	4.49	0.03	1.06	1.09	—	6,910	6,910	0.18	0.44	14.8	7,059
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.56	1.36	8.04	19.3	0.04	0.10	4.98	5.08	0.07	1.36	1.39	—	5,782	5,782	0.24	0.74	0.34	5,906
2029	1.50	1.31	5.69	18.5	0.02	0.04	3.48	3.53	0.03	0.84	0.87	—	5,679	5,679	0.18	0.39	0.31	5,799
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.78	0.66	4.11	10.9	0.02	0.04	2.28	2.32	0.04	0.61	0.65	—	3,694	3,694	0.13	0.31	3.23	3,792
2029	13.0	12.9	1.64	5.88	0.01	0.01	1.10	1.11	0.01	0.26	0.27	—	1,742	1,742	0.05	0.11	1.59	1,778
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.14	0.12	0.75	1.99	< 0.005	0.01	0.42	0.42	0.01	0.11	0.12	—	612	612	0.02	0.05	0.53	628
2029	2.37	2.36	0.30	1.07	< 0.005	< 0.005	0.20	0.20	< 0.005	0.05	0.05	—	288	288	0.01	0.02	0.26	294

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.64	1.44	10.3	23.1	0.06	0.17	4.81	4.98	0.13	1.89	2.01	—	8,912	8,912	0.39	1.08	13.6	9,257
2029	70.2	70.0	5.83	24.2	0.02	0.04	4.44	4.49	0.03	1.06	1.09	—	6,910	6,910	0.18	0.44	14.8	7,059
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.56	1.36	8.04	19.3	0.04	0.10	4.98	5.08	0.07	1.36	1.39	—	5,782	5,782	0.24	0.74	0.34	5,906

2029	1.50	1.31	5.69	18.5	0.02	0.04	3.48	3.53	0.03	0.84	0.87	—	5,679	5,679	0.18	0.39	0.31	5,799
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.78	0.66	4.11	10.9	0.02	0.04	2.28	2.32	0.04	0.61	0.65	—	3,694	3,694	0.13	0.31	3.23	3,792
2029	13.0	12.9	1.64	5.88	0.01	0.01	1.10	1.11	0.01	0.26	0.27	—	1,742	1,742	0.05	0.11	1.59	1,778
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.14	0.12	0.75	1.99	< 0.005	0.01	0.42	0.42	0.01	0.11	0.12	—	612	612	0.02	0.05	0.53	628
2029	2.37	2.36	0.30	1.07	< 0.005	< 0.005	0.20	0.20	< 0.005	0.05	0.05	—	288	288	0.01	0.02	0.26	294

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.6	22.2	2.78	54.7	0.04	0.15	2.26	2.41	0.15	0.57	0.72	368	4,909	5,276	37.5	0.29	11.4	6,311
Mit.	22.4	22.1	1.42	54.1	0.03	0.04	2.26	2.30	0.04	0.57	0.61	368	3,185	3,553	37.3	0.29	11.4	4,583
% Reduced	1%	< 0.5%	49%	1%	23%	73%	—	5%	76%	—	15%	—	35%	33%	< 0.5%	1%	—	27%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.6	18.4	2.46	11.0	0.03	0.13	2.26	2.39	0.13	0.57	0.70	368	4,683	5,051	37.5	0.30	5.38	6,081
Mit.	18.5	18.3	1.10	10.4	0.03	0.02	2.26	2.28	0.02	0.57	0.59	368	2,959	3,327	37.3	0.29	5.38	4,353
% Reduced	1%	< 0.5%	55%	5%	25%	84%	—	5%	84%	—	16%	—	37%	34%	< 0.5%	1%	—	28%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.5	20.2	2.56	31.5	0.03	0.14	2.25	2.39	0.13	0.57	0.71	368	4,597	4,965	37.5	0.29	7.87	5,997
Mit.	20.4	20.1	1.20	30.9	0.03	0.03	2.25	2.28	0.02	0.57	0.60	368	2,873	3,241	37.3	0.29	7.87	4,269

% Reduced	1%	< 0.5%	53%	2%	26%	80%	—	5%	82%	—	16%	—	37%	35%	< 0.5%	1%	—	29%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.74	3.69	0.47	5.75	0.01	0.03	0.41	0.44	0.02	0.10	0.13	60.9	761	822	6.20	0.05	1.30	993
Mit.	3.71	3.67	0.22	5.64	< 0.005	0.01	0.41	0.42	< 0.005	0.10	0.11	60.9	476	537	6.18	0.05	1.30	707
% Reduced	1%	< 0.5%	53%	2%	26%	80%	—	5%	82%	—	16%	—	37%	35%	< 0.5%	1%	—	29%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.56	1.44	0.89	9.80	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,499	2,499	0.12	0.10	6.14	2,537
Area	20.8	20.6	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	115	115	< 0.005	< 0.005	—	116
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,043	2,043	0.39	0.03	—	2,062
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	22.6	22.2	2.78	54.7	0.04	0.15	2.26	2.41	0.15	0.57	0.72	368	4,909	5,276	37.5	0.29	11.4	6,311
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.54	1.41	0.98	9.32	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,389	2,389	0.12	0.10	0.16	2,422
Area	16.9	16.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,043	2,043	0.39	0.03	—	2,062
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309

Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	18.6	18.4	2.46	11.0	0.03	0.13	2.26	2.39	0.13	0.57	0.70	368	4,683	5,051	37.5	0.30	5.38	6,081
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.52	1.40	0.96	9.29	0.02	0.02	2.25	2.27	0.02	0.57	0.59	—	2,406	2,406	0.12	0.10	2.65	2,441
Area	18.8	18.7	0.20	21.3	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	56.9	56.9	< 0.005	< 0.005	—	57.1
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,043	2,043	0.39	0.03	—	2,062
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.02	0.02	0.04	0.32	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	63.4	63.4	< 0.005	< 0.005	0.00	63.6
Total	20.5	20.2	2.56	31.5	0.03	0.14	2.25	2.39	0.13	0.57	0.71	368	4,597	4,965	37.5	0.29	7.87	5,997
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.28	0.25	0.18	1.70	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	398	398	0.02	0.02	0.44	404
Area	3.43	3.42	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45
Energy	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	338	338	0.06	0.01	—	341
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2
Waste	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Stationary	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	3.74	3.69	0.47	5.75	0.01	0.03	0.41	0.44	0.02	0.10	0.13	60.9	761	822	6.20	0.05	1.30	993

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.56	1.44	0.89	9.80	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,499	2,499	0.12	0.10	6.14	2,537
Area	20.8	20.6	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	115	115	< 0.005	< 0.005	—	116
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	319	319	0.23	0.03	—	333
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	22.4	22.1	1.42	54.1	0.03	0.04	2.26	2.30	0.04	0.57	0.61	368	3,185	3,553	37.3	0.29	11.4	4,583
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.54	1.41	0.98	9.32	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,389	2,389	0.12	0.10	0.16	2,422
Area	16.9	16.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	319	319	0.23	0.03	—	333
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	18.5	18.3	1.10	10.4	0.03	0.02	2.26	2.28	0.02	0.57	0.59	368	2,959	3,327	37.3	0.29	5.38	4,353
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.52	1.40	0.96	9.29	0.02	0.02	2.25	2.27	0.02	0.57	0.59	—	2,406	2,406	0.12	0.10	2.65	2,441
Area	18.8	18.7	0.20	21.3	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	56.9	56.9	< 0.005	< 0.005	—	57.1
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	319	319	0.23	0.03	—	333
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309

Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.02	0.02	0.04	0.32	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	63.4	63.4	< 0.005	< 0.005	0.00	63.6
Total	20.4	20.1	1.20	30.9	0.03	0.03	2.25	2.28	0.02	0.57	0.60	368	2,873	3,241	37.3	0.29	7.87	4,269
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.28	0.25	0.18	1.70	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	398	398	0.02	0.02	0.44	404
Area	3.43	3.42	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	52.7	52.7	0.04	< 0.005	—	55.1
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2
Waste	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Stationary	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	3.71	3.67	0.22	5.64	< 0.005	0.01	0.41	0.42	< 0.005	0.10	0.11	60.9	476	537	6.18	0.05	1.30	707

3. Construction Emissions Details

3.1. Demolition (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	0.09	0.09	2.13	5.00	0.01	0.01	—	0.01	0.01	—	0.01	—	716	716	0.03	0.01	—	718
Demoliti on	—	—	—	—	—	—	3.60	3.60	—	0.54	0.54	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.12	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.2	39.2	< 0.005	< 0.005	—	39.3
Demoliti on	—	—	—	—	—	—	0.20	0.20	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.02	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.49	6.49	< 0.005	< 0.005	—	6.51
Demoliti on	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.54	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	136	136	< 0.005	0.01	0.01	137
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.8	93.8	< 0.005	0.01	< 0.005	97.9

Hauling	0.30	0.10	5.74	2.23	0.03	0.09	1.22	1.31	0.06	0.34	0.39	—	4,415	4,415	0.20	0.72	0.21	4,633
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.50	7.50	< 0.005	< 0.005	0.01	7.60
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.14	5.14	< 0.005	< 0.005	< 0.005	5.37
Hauling	0.02	0.01	0.31	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	242	242	0.01	0.04	0.20	254
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.24	1.24	< 0.005	< 0.005	< 0.005	1.26
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.85	0.85	< 0.005	< 0.005	< 0.005	0.89
Hauling	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	40.0	40.0	< 0.005	0.01	0.03	42.1

3.2. Demolition (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	2.13	5.00	0.01	0.01	—	0.01	0.01	—	0.01	—	716	716	0.03	0.01	—	718
Demolition	—	—	—	—	—	—	3.60	3.60	—	0.54	0.54	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.01	0.01	0.12	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.2	39.2	< 0.005	< 0.005	—	39.3
Demolition	—	—	—	—	—	—	0.20	0.20	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.49	6.49	< 0.005	< 0.005	—	6.51
Demolition	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.54	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	136	136	< 0.005	0.01	0.01	137
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.8	93.8	< 0.005	0.01	< 0.005	97.9
Hauling	0.30	0.10	5.74	2.23	0.03	0.09	1.22	1.31	0.06	0.34	0.39	—	4,415	4,415	0.20	0.72	0.21	4,633
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.50	7.50	< 0.005	< 0.005	0.01	7.60
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.14	5.14	< 0.005	< 0.005	< 0.005	5.37
Hauling	0.02	0.01	0.31	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	242	242	0.01	0.04	0.20	254
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.24	1.24	< 0.005	< 0.005	< 0.005	1.26
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.85	0.85	< 0.005	< 0.005	< 0.005	0.89

Hauling	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	40.0	40.0	< 0.005	0.01	0.03	42.1

3.3. Site Preparation (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,960	1,960	0.08	0.02	—	1,967
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,960	1,960	0.08	0.02	—	1,967
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.7	53.7	< 0.005	< 0.005	—	53.9
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.89	8.89	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.70	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	162	162	< 0.005	0.01	0.48	164
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.8	93.8	< 0.005	0.01	0.19	98.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.61	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	153	153	< 0.005	0.01	0.01	154
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.8	93.8	< 0.005	0.01	< 0.005	97.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.22	4.22	< 0.005	< 0.005	0.01	4.27

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.57	2.57	< 0.005	< 0.005	< 0.005	2.68
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.70	0.70	< 0.005	< 0.005	< 0.005	0.71
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.44
Hauling	0.00	0.00	0.00	0.00	0.00	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. Site Preparation (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,960	1,960	0.08	0.02	—	1,967
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,960	1,960	0.08	0.02	—	1,967

Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.7	53.7	< 0.005	< 0.005	—	53.9
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.89	8.89	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.70	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	162	162	< 0.005	0.01	0.48	164
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.8	93.8	< 0.005	0.01	0.19	98.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.61	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	153	153	< 0.005	0.01	0.01	154
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.8	93.8	< 0.005	0.01	< 0.005	97.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.22	4.22	< 0.005	< 0.005	0.01	4.27
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.57	2.57	< 0.005	< 0.005	< 0.005	2.68
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.70	0.70	< 0.005	< 0.005	< 0.005	0.71
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.44
Hauling	0.00	0.00	0.00	0.00	0.00	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. Grading (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	2.08	11.9	0.02	0.04	—	0.04	0.04	—	0.04	—	2,125	2,125	0.09	0.02	—	2,133
Dust From Material Movement	—	—	—	—	—	—	2.75	2.75	—	1.34	1.34	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	175	175	0.01	< 0.005	—	175
Dust From Material Movement	—	—	—	—	—	—	0.23	0.23	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	28.9	28.9	< 0.005	< 0.005	—	29.0
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.07	1.16	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	269	269	< 0.005	0.01	0.80	273
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.8	93.8	< 0.005	0.01	0.19	98.1
Hauling	0.45	0.15	8.07	3.22	0.04	0.13	1.78	1.91	0.08	0.49	0.57	—	6,418	6,418	0.29	1.04	12.0	6,748

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	21.1	21.1	< 0.005	< 0.005	0.03	21.4
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.71	7.71	< 0.005	< 0.005	0.01	8.05
Hauling	0.04	0.01	0.68	0.27	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	528	528	0.02	0.09	0.43	554
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.49	3.49	< 0.005	< 0.005	< 0.005	3.54
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.28	1.28	< 0.005	< 0.005	< 0.005	1.33
Hauling	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	87.4	87.4	< 0.005	0.01	0.07	91.7

3.6. Grading (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	2.08	11.9	0.02	0.04	—	0.04	0.04	—	0.04	—	2,125	2,125	0.09	0.02	—	2,133
Dust From Material Movement	—	—	—	—	—	—	2.75	2.75	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	175	175	0.01	< 0.005	—	175
Dust From Material Movement	—	—	—	—	—	—	0.23	0.23	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	28.9	28.9	< 0.005	< 0.005	—	29.0
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.07	1.16	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	269	269	< 0.005	0.01	0.80	273
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.8	93.8	< 0.005	0.01	0.19	98.1
Hauling	0.45	0.15	8.07	3.22	0.04	0.13	1.78	1.91	0.08	0.49	0.57	—	6,418	6,418	0.29	1.04	12.0	6,748
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	21.1	21.1	< 0.005	< 0.005	0.03	21.4

Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.71	7.71	< 0.005	< 0.005	0.01	8.05
Hauling	0.04	0.01	0.68	0.27	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	528	528	0.02	0.09	0.43	554
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.49	3.49	< 0.005	< 0.005	< 0.005	3.54
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.28	1.28	< 0.005	< 0.005	< 0.005	1.33
Hauling	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	87.4	87.4	< 0.005	0.01	0.07	91.7

3.7. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	0.05	0.05	1.09	2.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	391	391	0.02	< 0.005	—	392
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.20	0.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	64.7	64.7	< 0.005	< 0.005	—	64.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.31	1.20	0.85	13.6	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,141	3,141	0.05	0.12	9.39	3,186
Vendor	0.15	0.07	2.36	1.13	0.01	0.03	0.52	0.55	0.03	0.14	0.17	—	1,922	1,922	0.07	0.28	3.93	2,010
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.30	1.18	0.98	11.9	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	2,967	2,967	0.06	0.12	0.24	3,003
Vendor	0.14	0.06	2.45	1.16	0.01	0.03	0.52	0.55	0.03	0.14	0.17	—	1,923	1,923	0.07	0.28	0.10	2,008
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.57	0.51	0.43	5.30	0.00	0.00	1.30	1.30	0.00	0.31	0.31	—	1,318	1,318	0.03	0.05	1.79	1,336
Vendor	0.06	0.03	1.07	0.50	0.01	0.01	0.23	0.24	0.01	0.06	0.08	—	847	847	0.03	0.12	0.75	884
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.10	0.09	0.08	0.97	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	218	218	< 0.005	0.01	0.30	221

Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	140	140	0.01	0.02	0.12	146
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	1.09	2.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	391	391	0.02	< 0.005	—	392
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.20	0.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	64.7	64.7	< 0.005	< 0.005	—	64.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.31	1.20	0.85	13.6	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,141	3,141	0.05	0.12	9.39	3,186
Vendor	0.15	0.07	2.36	1.13	0.01	0.03	0.52	0.55	0.03	0.14	0.17	—	1,922	1,922	0.07	0.28	3.93	2,010
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.30	1.18	0.98	11.9	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	2,967	2,967	0.06	0.12	0.24	3,003
Vendor	0.14	0.06	2.45	1.16	0.01	0.03	0.52	0.55	0.03	0.14	0.17	—	1,923	1,923	0.07	0.28	0.10	2,008
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.57	0.51	0.43	5.30	0.00	0.00	1.30	1.30	0.00	0.31	0.31	—	1,318	1,318	0.03	0.05	1.79	1,336
Vendor	0.06	0.03	1.07	0.50	0.01	0.01	0.23	0.24	0.01	0.06	0.08	—	847	847	0.03	0.12	0.75	884
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.10	0.09	0.08	0.97	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	218	218	< 0.005	0.01	0.30	221
Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	140	140	0.01	0.02	0.12	146
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2029) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.03	0.03	0.66	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	234	234	0.01	< 0.005	—	235
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.12	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.8	38.8	< 0.005	< 0.005	—	38.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	1.26	1.16	0.75	12.8	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,087	3,087	0.05	0.12	8.45	3,131
Vendor	0.13	0.07	2.25	1.09	0.01	0.03	0.52	0.55	0.01	0.14	0.16	—	1,867	1,867	0.07	0.26	3.47	1,951
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.26	1.13	0.87	11.2	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	2,916	2,916	0.06	0.12	0.22	2,952
Vendor	0.13	0.06	2.34	1.11	0.01	0.03	0.52	0.55	0.01	0.14	0.16	—	1,869	1,869	0.07	0.26	0.09	1,949
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.33	0.30	0.23	2.99	0.00	0.00	0.78	0.78	0.00	0.18	0.18	—	777	777	0.01	0.03	0.96	788
Vendor	0.03	0.02	0.61	0.29	< 0.005	0.01	0.14	0.15	< 0.005	0.04	0.04	—	493	493	0.02	0.07	0.40	515
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.06	0.05	0.04	0.55	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	129	129	< 0.005	0.01	0.16	130
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	81.7	81.7	< 0.005	0.01	0.07	85.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2029) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.03	0.03	0.66	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	234	234	0.01	< 0.005	—	235
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.12	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.8	38.8	< 0.005	< 0.005	—	38.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.26	1.16	0.75	12.8	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,087	3,087	0.05	0.12	8.45	3,131
Vendor	0.13	0.07	2.25	1.09	0.01	0.03	0.52	0.55	0.01	0.14	0.16	—	1,867	1,867	0.07	0.26	3.47	1,951
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.26	1.13	0.87	11.2	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	2,916	2,916	0.06	0.12	0.22	2,952
Vendor	0.13	0.06	2.34	1.11	0.01	0.03	0.52	0.55	0.01	0.14	0.16	—	1,869	1,869	0.07	0.26	0.09	1,949
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.33	0.30	0.23	2.99	0.00	0.00	0.78	0.78	0.00	0.18	0.18	—	777	777	0.01	0.03	0.96	788
Vendor	0.03	0.02	0.61	0.29	< 0.005	0.01	0.14	0.15	< 0.005	0.04	0.04	—	493	493	0.02	0.07	0.40	515
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.06	0.05	0.04	0.55	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	129	129	< 0.005	0.01	0.16	130
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	81.7	81.7	< 0.005	0.01	0.07	85.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2029) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	1.22	4.72	0.01	0.01	—	0.01	0.01	—	0.01	—	673	673	0.03	0.01	—	675
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.07	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.9	36.9	< 0.005	< 0.005	—	37.0
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.10	6.10	< 0.005	< 0.005	—	6.12
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.02	0.37	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	88.2	88.2	< 0.005	< 0.005	0.24	89.5
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	91.1	91.1	< 0.005	0.01	0.17	95.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.61	4.61	< 0.005	< 0.005	0.01	4.67
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.99	4.99	< 0.005	< 0.005	< 0.005	5.21
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.77
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.86
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2029) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	1.22	4.72	0.01	0.01	—	0.01	0.01	—	0.01	—	673	673	0.03	0.01	—	675
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.07	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.9	36.9	< 0.005	< 0.005	—	37.0
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.10	6.10	< 0.005	< 0.005	—	6.12
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.02	0.37	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	88.2	88.2	< 0.005	< 0.005	0.24	89.5
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	91.1	91.1	< 0.005	0.01	0.17	95.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.61	4.61	< 0.005	< 0.005	0.01	4.67
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.99	4.99	< 0.005	< 0.005	< 0.005	5.21
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.77
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.86
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2029) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Architect ural	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	12.5	12.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	2.29	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.36	0.24	4.02	0.00	0.00	0.93	0.93	0.00	0.22	0.22	—	970	970	0.01	0.04	2.66	984
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	91.1	91.1	< 0.005	0.01	0.17	95.2

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.65	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	170	170	< 0.005	0.01	0.21	172
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.7	16.7	< 0.005	< 0.005	0.01	17.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	28.1	28.1	< 0.005	< 0.005	0.03	28.5
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.77	2.77	< 0.005	< 0.005	< 0.005	2.89
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2029) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	12.5	12.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	2.29	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.36	0.24	4.02	0.00	0.00	0.93	0.93	0.00	0.22	0.22	—	970	970	0.01	0.04	2.66	984
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	91.1	91.1	< 0.005	0.01	0.17	95.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.65	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	170	170	< 0.005	0.01	0.21	172
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.7	16.7	< 0.005	< 0.005	0.01	17.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	28.1	28.1	< 0.005	< 0.005	0.03	28.5
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.77	2.77	< 0.005	< 0.005	< 0.005	2.89
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	284	284	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.16	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.2	34.2	< 0.005	< 0.005	—	34.3

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.66	5.66	< 0.005	< 0.005	—	5.68
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.9	35.9	< 0.005	< 0.005	0.11	36.4
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.8	93.8	< 0.005	0.01	0.19	98.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.12	4.12	< 0.005	< 0.005	0.01	4.18
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	0.01	11.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.69
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.87	1.87	< 0.005	< 0.005	< 0.005	1.96
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Trenching (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	284	284	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.16	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.2	34.2	< 0.005	< 0.005	—	34.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.66	5.66	< 0.005	< 0.005	—	5.68
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.9	35.9	< 0.005	< 0.005	0.11	36.4
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.8	93.8	< 0.005	0.01	0.19	98.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.12	4.12	< 0.005	< 0.005	0.01	4.18
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	0.01	11.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.69
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.87	1.87	< 0.005	< 0.005	< 0.005	1.96
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.56	1.44	0.89	9.80	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,499	2,499	0.12	0.10	6.14	2,537
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.56	1.44	0.89	9.80	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,499	2,499	0.12	0.10	6.14	2,537

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.54	1.41	0.98	9.32	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,389	2,389	0.12	0.10	0.16	2,422
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.54	1.41	0.98	9.32	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,389	2,389	0.12	0.10	0.16	2,422
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.28	0.25	0.18	1.70	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	398	398	0.02	0.02	0.44	404
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.28	0.25	0.18	1.70	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	398	398	0.02	0.02	0.44	404

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.56	1.44	0.89	9.80	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,499	2,499	0.12	0.10	6.14	2,537
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.56	1.44	0.89	9.80	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,499	2,499	0.12	0.10	6.14	2,537

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.54	1.41	0.98	9.32	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,389	2,389	0.12	0.10	0.16	2,422
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.54	1.41	0.98	9.32	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,389	2,389	0.12	0.10	0.16	2,422
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.28	0.25	0.18	1.70	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	398	398	0.02	0.02	0.44	404
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.28	0.25	0.18	1.70	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	398	398	0.02	0.02	0.44	404

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	318	318	0.23	0.03	—	333

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	318	318	0.23	0.03	—	333
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	318	318	0.23	0.03	—	333
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	318	318	0.23	0.03	—	333
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	52.7	52.7	0.04	< 0.005	—	55.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	52.7	52.7	0.04	< 0.005	—	55.1

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	319	319	0.23	0.03	—	333

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	319	319	0.23	0.03	—	333
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	319	319	0.23	0.03	—	333
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	319	319	0.23	0.03	—	333
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	52.7	52.7	0.04	< 0.005	—	55.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	52.7	52.7	0.04	< 0.005	—	55.1

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Consum Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coating s	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landsca pe Equipm ent	3.95	3.74	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	115	115	< 0.005	< 0.005	—	116
Total	20.8	20.6	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	115	115	< 0.005	< 0.005	—	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consum er Product s	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coating s	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	16.9	16.9	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consum er Product s	2.85	2.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coating s	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	0.36	0.34	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.45
Total	3.43	3.42	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.95	3.74	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	115	115	< 0.005	< 0.005	—	116
Total	20.8	20.6	0.41	43.2	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	115	115	< 0.005	< 0.005	—	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	16.9	16.9	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	2.85	2.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.36	0.34	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.45
Total	3.43	3.42	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	29.0	94.1	6.69	0.16	—	309
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	4.81	15.6	1.11	0.03	—	51.2

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	2/24/2028	3/23/2028	5.00	20.0	—
Site Preparation	Site Preparation	3/24/2028	4/7/2028	5.00	10.0	—
Grading	Grading	4/8/2028	5/20/2028	5.00	30.0	—
Building Construction	Building Construction	5/21/2028	5/15/2029	5.00	257	—
Paving	Paving	5/16/2029	6/12/2029	5.00	20.0	—
Architectural Coating	Architectural Coating	4/11/2029	7/12/2029	5.00	67.0	—

Trenching	Trenching	5/21/2028	7/20/2028	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	7.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	2.00	7.00	36.0	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	7.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	7.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	2.00	7.00	36.0	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	7.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix

Demolition	—	—	—	—
Demolition	Worker	16.0	12.0	LDA,LDT1,LDT2
Demolition	Vendor	4.00	7.63	HHDT,MHDT
Demolition	Hauling	66.0	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	30.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	7.63	HHDT,MHDT
Grading	Hauling	96.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	350	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	82.0	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	110	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	7.63	HHDT,MHDT

Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	4.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	7.63	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	16.0	12.0	LDA,LDT1,LDT2
Demolition	Vendor	4.00	7.63	HHDT,MHDT
Demolition	Hauling	66.0	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	30.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	7.63	HHDT,MHDT
Grading	Hauling	96.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	350	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	82.0	7.63	HHDT,MHDT

Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	110	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	4.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	7.63	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	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	1,477,440	492,480	0.00	0.00	1,634

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	5,204	—
Site Preparation	—	—	5.00	0.00	—
Grading	18,400	4,400	140	0.00	—
Paving	0.00	0.00	0.00	0.00	0.63

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%
Other Asphalt Surfaces	0.63	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2028	29,071	45.1	0.03	< 0.005
2029	29,071	45.1	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
Apartments High Rise	420	420	420	153,455	3,195	3,195	3,195	1,166,260
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments High Rise	420	420	420	153,455	3,195	3,195	3,195	1,166,260
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	760
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	760
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1477440	492,480	0.00	0.00	1,634

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)
Apartments High Rise	2,577,061	45.1	0.0330	0.0040	5,379,612
Other Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments High Rise	2,578,419	45.1	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	33,953,291	740,799
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	33,953,291	740,799
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	562	—
Other Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	562	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	52.0	530	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	9.08	annual days of extreme heat
Extreme Precipitation	2.85	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	4.89	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	46.0
AQ-DPM	78.3
Drinking Water	29.0
Lead Risk Housing	22.5
Pesticides	0.00
Toxic Releases	36.0
Traffic	83.2
Effect Indicators	—

CleanUp Sites	53.4
Groundwater	68.4
Haz Waste Facilities/Generators	37.7
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	38.4
Cardio-vascular	12.7
Low Birth Weights	9.08
Socioeconomic Factor Indicators	—
Education	—
Housing	96.5
Linguistic	—
Poverty	91.8
Unemployment	92.2

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	20.95470294
Employed	9.534197357
Median HI	17.43872706
Education	—
Bachelor's or higher	81.12408572
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—

Auto Access	11.04837675
Active commuting	89.42640832
Social	—
2-parent households	99.56371102
Voting	22.66136276
Neighborhood	—
Alcohol availability	85.46131143
Park access	20.23610933
Retail density	97.62607468
Supermarket access	2.399589375
Tree canopy	71.71820865
Housing	—
Homeownership	27.87116643
Housing habitability	26.51097138
Low-inc homeowner severe housing cost burden	97.99820352
Low-inc renter severe housing cost burden	0.346464776
Uncrowded housing	50.16040036
Health Outcomes	—
Insured adults	68.95932247
Arthritis	97.1
Asthma ER Admissions	70.5
High Blood Pressure	98.1
Cancer (excluding skin)	89.7
Asthma	21.6
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	97.2
Life Expectancy at Birth	60.4

Cognitively Disabled	72.6
Physically Disabled	83.0
Heart Attack ER Admissions	96.5
Mental Health Not Good	34.8
Chronic Kidney Disease	95.6
Obesity	88.9
Pedestrian Injuries	19.6
Physical Health Not Good	81.0
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.6
Current Smoker	47.6
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	47.1
SLR Inundation Area	0.0
Children	96.5
Elderly	59.3
English Speaking	55.7
Foreign-born	45.8
Outdoor Workers	77.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	96.7
Traffic Access	61.3
Other Indices	—
Hardship	53.0
Other Decision Support	—

2016 Voting	37.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	47.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Characteristics: Utility Information	Phase 1 is within the on-campus grid getting electricity from the cogen.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	Based on LLG traffic study.
Operations: Hearths	No stoves or fireplaces.
Operations: Generators + Pumps EF	Tier 4 Final

Operations: Water and Waste Water	Based on applicant provided information.
Construction: Dust From Material Movement	Based on applicant provided information.
Operations: Emergency Generators and Fire Pumps	Based on applicant provided information
Construction: Electricity	Estimated electricity use.

SDSU Evolve Phase 4 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. Demolition (2029) - Unmitigated
 - 3.2. Demolition (2029) - Mitigated
 - 3.3. Site Preparation (2029) - Unmitigated

3.4. Site Preparation (2029) - Mitigated

3.5. Grading (2029) - Unmitigated

3.6. Grading (2029) - Mitigated

3.7. Building Construction (2029) - Unmitigated

3.8. Building Construction (2029) - Mitigated

3.9. Building Construction (2030) - Unmitigated

3.10. Building Construction (2030) - Mitigated

3.11. Paving (2030) - Unmitigated

3.12. Paving (2030) - Mitigated

3.13. Architectural Coating (2030) - Unmitigated

3.14. Architectural Coating (2030) - Mitigated

3.15. Trenching (2029) - Unmitigated

3.16. Trenching (2029) - Mitigated

3.17. Trenching (2030) - Unmitigated

3.18. Trenching (2030) - 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

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. 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	SDSU Evolve Phase 4
Construction Start Date	8/13/2029
Operational Year	2030
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	1.80
Location	32.77754140411972, -117.07772216206095
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6514
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	760	Dwelling Unit	12.3	729,600	21,626	—	2,120	—

Other Asphalt Surfaces	0.63	Acre	0.63	0.00	0.00	—	—	—
City Park	0.58	Acre	0.58	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-15	Require All-Electric Development

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	70.0	69.9	14.4	28.4	0.10	0.20	10.4	10.5	0.20	3.42	3.62	—	13,523	13,523	0.60	1.49	16.6	14,000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	70.0	69.9	14.8	28.3	0.10	0.20	8.15	8.35	0.20	3.42	3.62	—	13,513	13,513	0.60	1.49	0.43	13,973
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.4	13.4	3.43	11.7	0.02	0.03	2.27	2.29	0.03	0.54	0.56	—	3,627	3,627	0.10	0.25	2.95	3,704
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.45	2.44	0.63	2.13	< 0.005	0.01	0.41	0.42	0.01	0.10	0.10	—	600	600	0.02	0.04	0.49	613

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	1.16	0.72	14.4	28.4	0.10	0.20	10.4	10.5	0.20	3.42	3.62	—	13,523	13,523	0.60	1.49	16.6	14,000
2030	70.0	69.9	5.72	23.2	0.02	0.03	4.44	4.47	0.03	1.06	1.09	—	6,825	6,825	0.16	0.43	13.1	6,972
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	1.56	1.37	14.8	28.3	0.10	0.20	8.15	8.35	0.20	3.42	3.62	—	13,513	13,513	0.60	1.49	0.43	13,973
2030	70.0	69.9	7.02	21.2	0.03	0.04	4.44	4.47	0.04	1.06	1.09	—	6,606	6,606	0.17	0.43	0.34	6,740
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.31	0.23	2.76	5.40	0.02	0.03	1.69	1.72	0.03	0.51	0.54	—	2,401	2,401	0.10	0.25	1.55	2,479
2030	13.4	13.4	3.43	11.7	0.01	0.02	2.27	2.29	0.02	0.54	0.56	—	3,627	3,627	0.10	0.24	2.95	3,704
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.06	0.04	0.50	0.99	< 0.005	0.01	0.31	0.31	0.01	0.09	0.10	—	397	397	0.02	0.04	0.26	410
2030	2.45	2.44	0.63	2.13	< 0.005	< 0.005	0.41	0.42	< 0.005	0.10	0.10	—	600	600	0.02	0.04	0.49	613

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	1.16	0.72	14.4	28.4	0.10	0.20	10.4	10.5	0.20	3.42	3.62	—	13,523	13,523	0.60	1.49	16.6	14,000
2030	70.0	69.9	5.72	23.2	0.02	0.03	4.44	4.47	0.03	1.06	1.09	—	6,825	6,825	0.16	0.43	13.1	6,972
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2029	1.56	1.37	14.8	28.3	0.10	0.20	8.15	8.35	0.20	3.42	3.62	—	13,513	13,513	0.60	1.49	0.43	13,973
2030	70.0	69.9	7.02	21.2	0.03	0.04	4.44	4.47	0.04	1.06	1.09	—	6,606	6,606	0.17	0.43	0.34	6,740
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.31	0.23	2.76	5.40	0.02	0.03	1.69	1.72	0.03	0.51	0.54	—	2,401	2,401	0.10	0.25	1.55	2,479
2030	13.4	13.4	3.43	11.7	0.01	0.02	2.27	2.29	0.02	0.54	0.56	—	3,627	3,627	0.10	0.24	2.95	3,704
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.06	0.04	0.50	0.99	< 0.005	0.01	0.31	0.31	0.01	0.09	0.10	—	397	397	0.02	0.04	0.26	410
2030	2.45	2.44	0.63	2.13	< 0.005	< 0.005	0.41	0.42	< 0.005	0.10	0.10	—	600	600	0.02	0.04	0.49	613

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.5	22.1	2.73	54.4	0.04	0.15	2.26	2.41	0.14	0.57	0.72	368	5,821	6,189	37.5	0.29	10.6	7,223
Mit.	22.4	22.0	1.37	53.8	0.03	0.04	2.26	2.30	0.03	0.57	0.61	368	4,098	4,466	37.3	0.29	10.6	5,494
% Reduced	1%	< 0.5%	50%	1%	24%	73%	—	5%	76%	—	15%	—	30%	28%	< 0.5%	1%	—	24%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.6	18.4	2.41	10.7	0.03	0.13	2.26	2.39	0.13	0.57	0.70	368	5,598	5,966	37.5	0.29	5.36	6,995
Mit.	18.4	18.3	1.05	10.1	0.03	0.02	2.26	2.28	0.02	0.57	0.59	368	3,874	4,242	37.3	0.29	5.36	5,267
% Reduced	1%	< 0.5%	56%	5%	26%	84%	—	5%	85%	—	16%	—	31%	29%	< 0.5%	1%	—	25%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.4	20.1	2.50	31.2	0.03	0.14	2.25	2.39	0.13	0.57	0.70	368	5,512	5,880	37.5	0.29	7.54	6,911

Mit.	20.3	20.1	1.14	30.6	0.02	0.03	2.25	2.28	0.02	0.57	0.60	368	3,788	4,156	37.3	0.29	7.54	5,182
% Reduced	1%	< 0.5%	54%	2%	26%	80%	—	5%	82%	—	16%	—	31%	29%	< 0.5%	1%	—	25%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.73	3.68	0.46	5.69	0.01	0.02	0.41	0.44	0.02	0.10	0.13	60.9	913	973	6.20	0.05	1.25	1,144
Mit.	3.70	3.66	0.21	5.58	< 0.005	< 0.005	0.41	0.42	< 0.005	0.10	0.11	60.9	627	688	6.18	0.05	1.25	858
% Reduced	1%	< 0.5%	54%	2%	26%	80%	—	5%	82%	—	16%	—	31%	29%	< 0.5%	1%	—	25%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.49	1.38	0.84	9.44	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,452	2,452	0.11	0.09	5.37	2,488
Area	20.8	20.6	0.40	43.3	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	115	115	< 0.005	< 0.005	—	116
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	22.5	22.1	2.73	54.4	0.04	0.15	2.26	2.41	0.14	0.57	0.72	368	5,821	6,189	37.5	0.29	10.6	7,223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.47	1.35	0.92	8.96	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,344	2,344	0.12	0.10	0.14	2,377
Area	16.9	16.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941

Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	18.6	18.4	2.41	10.7	0.03	0.13	2.26	2.39	0.13	0.57	0.70	368	5,598	5,966	37.5	0.29	5.36	6,995
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.45	1.34	0.91	8.94	0.02	0.02	2.25	2.27	0.02	0.57	0.59	—	2,360	2,360	0.12	0.10	2.32	2,395
Area	18.8	18.7	0.20	21.3	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	56.9	56.9	< 0.005	< 0.005	—	57.1
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.02	0.02	0.04	0.32	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	63.4	63.4	< 0.005	< 0.005	0.00	63.6
Total	20.4	20.1	2.50	31.2	0.03	0.14	2.25	2.39	0.13	0.57	0.70	368	5,512	5,880	37.5	0.29	7.54	6,911
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.27	0.24	0.17	1.63	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	391	391	0.02	0.02	0.38	396
Area	3.43	3.41	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45
Energy	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	484	484	0.06	0.01	—	487
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5
Waste	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Stationary	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	3.73	3.68	0.46	5.69	0.01	0.02	0.41	0.44	0.02	0.10	0.13	60.9	913	973	6.20	0.05	1.25	1,144

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.49	1.38	0.84	9.44	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,452	2,452	0.11	0.09	5.37	2,488
Area	20.8	20.6	0.40	43.3	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	115	115	< 0.005	< 0.005	—	116
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,198	1,198	0.23	0.03	—	1,213
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	22.4	22.0	1.37	53.8	0.03	0.04	2.26	2.30	0.03	0.57	0.61	368	4,098	4,466	37.3	0.29	10.6	5,494
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.47	1.35	0.92	8.96	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,344	2,344	0.12	0.10	0.14	2,377
Area	16.9	16.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,198	1,198	0.23	0.03	—	1,213
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	18.4	18.3	1.05	10.1	0.03	0.02	2.26	2.28	0.02	0.57	0.59	368	3,874	4,242	37.3	0.29	5.36	5,267
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.45	1.34	0.91	8.94	0.02	0.02	2.25	2.27	0.02	0.57	0.59	—	2,360	2,360	0.12	0.10	2.32	2,395
Area	18.8	18.7	0.20	21.3	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	56.9	56.9	< 0.005	< 0.005	—	57.1
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,198	1,198	0.23	0.03	—	1,213

Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.02	0.02	0.04	0.32	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	63.4	63.4	< 0.005	< 0.005	0.00	63.6
Total	20.3	20.1	1.14	30.6	0.02	0.03	2.25	2.28	0.02	0.57	0.60	368	3,788	4,156	37.3	0.29	7.54	5,182
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.27	0.24	0.17	1.63	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	391	391	0.02	0.02	0.38	396
Area	3.43	3.41	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	198	198	0.04	< 0.005	—	201
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5
Waste	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Stationary	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	3.70	3.66	0.21	5.58	< 0.005	< 0.005	0.41	0.42	< 0.005	0.10	0.11	60.9	627	688	6.18	0.05	1.25	858

3. Construction Emissions Details

3.1. Demolition (2029) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	2.13	5.00	0.01	0.01	—	0.01	0.01	—	0.01	—	716	716	0.03	0.01	—	718

Demolition	—	—	—	—	—	—	7.63	7.63	—	1.16	1.16	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.12	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.2	39.2	< 0.005	< 0.005	—	39.4
Demolition	—	—	—	—	—	—	0.42	0.42	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.49	6.49	< 0.005	< 0.005	—	6.52
Demolition	—	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.03	0.59	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	141	141	< 0.005	0.01	0.39	143
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	91.1	91.1	< 0.005	0.01	0.17	95.2
Hauling	0.65	0.22	11.3	4.63	0.06	0.12	2.60	2.72	0.12	0.71	0.83	—	9,097	9,097	0.43	1.46	16.0	9,557

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.37	7.37	< 0.005	< 0.005	0.01	7.47
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.99	4.99	< 0.005	< 0.005	< 0.005	5.21
Hauling	0.04	0.01	0.64	0.25	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	—	499	499	0.02	0.08	0.38	523
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.22	1.22	< 0.005	< 0.005	< 0.005	1.24
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.86
Hauling	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	82.5	82.5	< 0.005	0.01	0.06	86.6

3.2. Demolition (2029) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	2.13	5.00	0.01	0.01	—	0.01	0.01	—	0.01	—	716	716	0.03	0.01	—	718
Demolition	—	—	—	—	—	—	7.63	7.63	—	1.16	1.16	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.12	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.2	39.2	< 0.005	< 0.005	—	39.4
Demolition	—	—	—	—	—	—	0.42	0.42	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.49	6.49	< 0.005	< 0.005	—	6.52
Demolition	—	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.03	0.59	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	141	141	< 0.005	0.01	0.39	143
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	91.1	91.1	< 0.005	0.01	0.17	95.2
Hauling	0.65	0.22	11.3	4.63	0.06	0.12	2.60	2.72	0.12	0.71	0.83	—	9,097	9,097	0.43	1.46	16.0	9,557
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.37	7.37	< 0.005	< 0.005	0.01	7.47
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.99	4.99	< 0.005	< 0.005	< 0.005	5.21
Hauling	0.04	0.01	0.64	0.25	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	—	499	499	0.02	0.08	0.38	523
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.22	1.22	< 0.005	< 0.005	< 0.005	1.24
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.86

Hauling	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	82.5	82.5	< 0.005	0.01	0.06	86.6

3.3. Site Preparation (2029) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,959	1,959	0.08	0.02	—	1,965
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.7	53.7	< 0.005	< 0.005	—	53.8
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.88	8.88	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.66	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	159	159	< 0.005	0.01	0.43	161
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	91.1	91.1	< 0.005	0.01	0.17	95.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.15	4.15	< 0.005	< 0.005	0.01	4.20
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.50	2.50	< 0.005	< 0.005	< 0.005	2.61
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.69	0.69	< 0.005	< 0.005	< 0.005	0.70
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.43
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2029) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,959	1,959	0.08	0.02	—	1,965
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.7	53.7	< 0.005	< 0.005	—	53.8
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.88	8.88	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.66	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	159	159	< 0.005	0.01	0.43	161
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	91.1	91.1	< 0.005	0.01	0.17	95.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.15	4.15	< 0.005	< 0.005	0.01	4.20
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.50	2.50	< 0.005	< 0.005	< 0.005	2.61
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.69	0.69	< 0.005	< 0.005	< 0.005	0.70
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.43
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2029) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	0.40	0.40	3.04	22.7	0.04	0.08	—	0.08	0.08	—	0.08	—	4,083	4,083	0.17	0.03	—	4,097
Dust From Material Movement	—	—	—	—	—	—	5.31	5.31	—	2.65	2.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.40	0.40	3.04	22.7	0.04	0.08	—	0.08	0.08	—	0.08	—	4,083	4,083	0.17	0.03	—	4,097
Dust From Material Movement	—	—	—	—	—	—	5.31	5.31	—	2.65	2.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.03	0.03	0.25	1.87	< 0.005	0.01	—	0.01	0.01	—	0.01	—	336	336	0.01	< 0.005	—	337
Dust From Material Movement	—	—	—	—	—	—	0.44	0.44	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.01	0.01	0.05	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	55.6	55.6	< 0.005	< 0.005	—	55.7
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.06	1.10	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	265	265	< 0.005	0.01	0.72	268
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	91.1	91.1	< 0.005	0.01	0.17	95.2
Hauling	0.64	0.22	11.1	4.57	0.06	0.12	2.56	2.68	0.12	0.70	0.82	—	8,967	8,967	0.42	1.44	15.7	9,421
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.07	0.96	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	250	250	0.01	0.01	0.02	253
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	91.1	91.1	< 0.005	0.01	< 0.005	95.1
Hauling	0.63	0.20	11.6	4.61	0.06	0.12	2.56	2.68	0.12	0.70	0.82	—	8,971	8,971	0.42	1.44	0.41	9,410
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.7	20.7	< 0.005	< 0.005	0.03	21.0
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.49	7.49	< 0.005	< 0.005	0.01	7.82
Hauling	0.05	0.02	0.94	0.38	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	737	737	0.03	0.12	0.56	774
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.43	3.43	< 0.005	< 0.005	< 0.005	3.48
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.24	1.24	< 0.005	< 0.005	< 0.005	1.29
Hauling	0.01	< 0.005	0.17	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	122	122	0.01	0.02	0.09	128

3.6. Grading (2029) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.40	3.04	22.7	0.04	0.08	—	0.08	0.08	—	0.08	—	4,083	4,083	0.17	0.03	—	4,097
Dust From Material Movement	—	—	—	—	—	—	5.31	5.31	—	2.65	2.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.40	3.04	22.7	0.04	0.08	—	0.08	0.08	—	0.08	—	4,083	4,083	0.17	0.03	—	4,097
Dust From Material Movement	—	—	—	—	—	—	5.31	5.31	—	2.65	2.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.25	1.87	< 0.005	0.01	—	0.01	0.01	—	0.01	—	336	336	0.01	< 0.005	—	337

Dust From Material Movement	—	—	—	—	—	—	0.44	0.44	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	55.6	55.6	< 0.005	< 0.005	—	55.7
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.06	1.10	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	265	265	< 0.005	0.01	0.72	268
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	91.1	91.1	< 0.005	0.01	0.17	95.2
Hauling	0.64	0.22	11.1	4.57	0.06	0.12	2.56	2.68	0.12	0.70	0.82	—	8,967	8,967	0.42	1.44	15.7	9,421
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.07	0.96	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	250	250	0.01	0.01	0.02	253
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	91.1	91.1	< 0.005	0.01	< 0.005	95.1
Hauling	0.63	0.20	11.6	4.61	0.06	0.12	2.56	2.68	0.12	0.70	0.82	—	8,971	8,971	0.42	1.44	0.41	9,410
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.7	20.7	< 0.005	< 0.005	0.03	21.0
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.49	7.49	< 0.005	< 0.005	0.01	7.82

Hauling	0.05	0.02	0.94	0.38	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	737	737	0.03	0.12	0.56	774
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.43	3.43	< 0.005	< 0.005	< 0.005	3.48
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.24	1.24	< 0.005	< 0.005	< 0.005	1.29
Hauling	0.01	< 0.005	0.17	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	122	122	0.01	0.02	0.09	128

3.7. Building Construction (2029) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.26	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	93.7	93.7	< 0.005	< 0.005	—	94.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.05	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.5	15.5	< 0.005	< 0.005	—	15.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.26	1.13	0.87	11.2	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	2,916	2,916	0.06	0.12	0.22	2,952
Vendor	0.13	0.06	2.34	1.11	0.01	0.03	0.52	0.55	0.01	0.14	0.16	—	1,869	1,869	0.07	0.26	0.09	1,949
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.13	0.12	0.09	1.20	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	311	311	0.01	0.01	0.39	315
Vendor	0.01	0.01	0.25	0.12	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	197	197	0.01	0.03	0.16	206
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.02	0.22	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	51.5	51.5	< 0.005	< 0.005	0.06	52.2
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.7	32.7	< 0.005	< 0.005	0.03	34.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2029) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.26	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	93.7	93.7	< 0.005	< 0.005	—	94.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.05	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.5	15.5	< 0.005	< 0.005	—	15.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.26	1.13	0.87	11.2	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	2,916	2,916	0.06	0.12	0.22	2,952
Vendor	0.13	0.06	2.34	1.11	0.01	0.03	0.52	0.55	0.01	0.14	0.16	—	1,869	1,869	0.07	0.26	0.09	1,949

Hauling	0.00	0.00	0.00	0.00	0.00	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	0.13	0.12	0.09	1.20	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	311	311	0.01	0.01	0.39	315
Vendor	0.01	0.01	0.25	0.12	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	197	197	0.01	0.03	0.16	206
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.02	0.22	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	51.5	51.5	< 0.005	< 0.005	0.06	52.2
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.7	32.7	< 0.005	< 0.005	0.03	34.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2030) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.07	0.07	1.49	3.74	0.01	0.01	—	0.01	0.01	—	0.01	—	531	531	0.02	< 0.005	—	533
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.27	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	87.9	87.9	< 0.005	< 0.005	—	88.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.13	1.11	0.75	12.0	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,036	3,036	0.05	0.12	7.55	3,079
Vendor	0.13	0.07	2.15	1.05	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,808	1,808	0.06	0.26	3.04	1,890
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.13	1.10	0.86	10.5	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	2,868	2,868	0.05	0.12	0.20	2,904
Vendor	0.12	0.06	2.23	1.08	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,810	1,810	0.06	0.26	0.08	1,889
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.67	0.65	0.46	6.36	0.00	0.00	1.77	1.77	0.00	0.41	0.41	—	1,733	1,733	0.03	0.07	1.95	1,756
Vendor	0.07	0.04	1.33	0.64	0.01	0.01	0.31	0.32	0.01	0.09	0.10	—	1,083	1,083	0.04	0.16	0.79	1,132
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.12	0.12	0.08	1.16	0.00	0.00	0.32	0.32	0.00	0.08	0.08	—	287	287	0.01	0.01	0.32	291
Vendor	0.01	0.01	0.24	0.12	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	179	179	0.01	0.03	0.13	187
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2030) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	2.48	6.24	0.01	0.02	—	0.02	0.02	—	0.02	—	887	887	0.04	0.01	—	890
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	1.49	3.74	0.01	0.01	—	0.01	0.01	—	0.01	—	531	531	0.02	< 0.005	—	533
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.27	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	87.9	87.9	< 0.005	< 0.005	—	88.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.13	1.11	0.75	12.0	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	3,036	3,036	0.05	0.12	7.55	3,079
Vendor	0.13	0.07	2.15	1.05	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,808	1,808	0.06	0.26	3.04	1,890
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.13	1.10	0.86	10.5	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	2,868	2,868	0.05	0.12	0.20	2,904
Vendor	0.12	0.06	2.23	1.08	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,810	1,810	0.06	0.26	0.08	1,889
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.67	0.65	0.46	6.36	0.00	0.00	1.77	1.77	0.00	0.41	0.41	—	1,733	1,733	0.03	0.07	1.95	1,756
Vendor	0.07	0.04	1.33	0.64	0.01	0.01	0.31	0.32	0.01	0.09	0.10	—	1,083	1,083	0.04	0.16	0.79	1,132
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.12	0.12	0.08	1.16	0.00	0.00	0.32	0.32	0.00	0.08	0.08	—	287	287	0.01	0.01	0.32	291
Vendor	0.01	0.01	0.24	0.12	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	179	179	0.01	0.03	0.13	187
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2030) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	1.22	4.72	0.01	0.01	—	0.01	0.01	—	0.01	—	673	673	0.03	0.01	—	675
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.07	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.9	36.9	< 0.005	< 0.005	—	37.0
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.10	6.10	< 0.005	< 0.005	—	6.12
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.30	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	81.9	81.9	< 0.005	< 0.005	0.01	83.0
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	88.3	88.3	< 0.005	0.01	< 0.005	92.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.53	4.53	< 0.005	< 0.005	0.01	4.59
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.83	4.83	< 0.005	< 0.005	< 0.005	5.05
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.75	0.75	< 0.005	< 0.005	< 0.005	0.76
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.84
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2030) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	0.08	0.08	1.22	4.72	0.01	0.01	—	0.01	0.01	—	0.01	—	673	673	0.03	0.01	—	675
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.07	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.9	36.9	< 0.005	< 0.005	—	37.0
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.10	6.10	< 0.005	< 0.005	—	6.12
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.30	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	81.9	81.9	< 0.005	< 0.005	0.01	83.0
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	88.3	88.3	< 0.005	0.01	< 0.005	92.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.53	4.53	< 0.005	< 0.005	0.01	4.59
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.83	4.83	< 0.005	< 0.005	< 0.005	5.05
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.75	0.75	< 0.005	< 0.005	< 0.005	0.76
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.84
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2030) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Architect Coatings	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	12.5	12.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	2.29	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.35	0.23	3.78	0.00	0.00	0.93	0.93	0.00	0.22	0.22	—	954	954	0.01	0.04	2.37	968
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	88.2	88.2	< 0.005	0.01	0.15	92.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.35	0.27	3.31	0.00	0.00	0.93	0.93	0.00	0.22	0.22	—	901	901	0.02	0.04	0.06	913
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	88.3	88.3	< 0.005	0.01	< 0.005	92.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.61	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	167	167	< 0.005	0.01	0.19	169
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.2	16.2	< 0.005	< 0.005	0.01	16.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.6	27.6	< 0.005	< 0.005	0.03	28.0
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.68	2.68	< 0.005	< 0.005	< 0.005	2.80
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2030) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	68.3	68.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	12.5	12.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architect ural Coating s	2.29	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.35	0.23	3.78	0.00	0.00	0.93	0.93	0.00	0.22	0.22	—	954	954	0.01	0.04	2.37	968
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	88.2	88.2	< 0.005	0.01	0.15	92.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.35	0.27	3.31	0.00	0.00	0.93	0.93	0.00	0.22	0.22	—	901	901	0.02	0.04	0.06	913
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	88.3	88.3	< 0.005	0.01	< 0.005	92.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.61	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	167	167	< 0.005	0.01	0.19	169
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.2	16.2	< 0.005	< 0.005	0.01	16.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.6	27.6	< 0.005	< 0.005	0.03	28.0
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.68	2.68	< 0.005	< 0.005	< 0.005	2.80
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching (2029) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.14	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	30.0	30.0	< 0.005	< 0.005	—	30.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.96	4.96	< 0.005	< 0.005	—	4.98
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	33.3	33.3	< 0.005	< 0.005	< 0.005	33.7
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	91.1	91.1	< 0.005	0.01	< 0.005	95.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.55	3.55	< 0.005	< 0.005	< 0.005	3.60
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.63	9.63	< 0.005	< 0.005	0.01	10.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.59	0.59	< 0.005	< 0.005	< 0.005	0.60
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.66
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Trenching (2029) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.14	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	30.0	30.0	< 0.005	< 0.005	—	30.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.96	4.96	< 0.005	< 0.005	—	4.98
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	33.3	33.3	< 0.005	< 0.005	< 0.005	33.7
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	91.1	91.1	< 0.005	0.01	< 0.005	95.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.55	3.55	< 0.005	< 0.005	< 0.005	3.60
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.63	9.63	< 0.005	< 0.005	0.01	10.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.59	0.59	< 0.005	< 0.005	< 0.005	0.60
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.66
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Trenching (2030) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.44	4.44	< 0.005	< 0.005	—	4.46
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.74	0.74	< 0.005	< 0.005	—	0.74
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.8	32.8	< 0.005	< 0.005	< 0.005	33.2
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	88.3	88.3	< 0.005	0.01	< 0.005	92.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.38	1.38	< 0.005	< 0.005	< 0.005	1.44
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Trenching (2030) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.44	4.44	< 0.005	< 0.005	—	4.46
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.74	0.74	< 0.005	< 0.005	—	0.74
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.8	32.8	< 0.005	< 0.005	< 0.005	33.2
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	88.3	88.3	< 0.005	0.01	< 0.005	92.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.38	1.38	< 0.005	< 0.005	< 0.005	1.44
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.49	1.38	0.84	9.44	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,452	2,452	0.11	0.09	5.37	2,488
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.49	1.38	0.84	9.44	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,452	2,452	0.11	0.09	5.37	2,488
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.47	1.35	0.92	8.96	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,344	2,344	0.12	0.10	0.14	2,377
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.47	1.35	0.92	8.96	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,344	2,344	0.12	0.10	0.14	2,377
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.27	0.24	0.17	1.63	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	391	391	0.02	0.02	0.38	396
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

City Park	0.00	0.00	0.00	0.00	0.00	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	0.27	0.24	0.17	1.63	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	391	391	0.02	0.02	0.38	396

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.49	1.38	0.84	9.44	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,452	2,452	0.11	0.09	5.37	2,488
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.49	1.38	0.84	9.44	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,452	2,452	0.11	0.09	5.37	2,488
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.47	1.35	0.92	8.96	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,344	2,344	0.12	0.10	0.14	2,377
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.47	1.35	0.92	8.96	0.02	0.02	2.26	2.27	0.02	0.57	0.59	—	2,344	2,344	0.12	0.10	0.14	2,377
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme High Rise	0.27	0.24	0.17	1.63	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	391	391	0.02	0.02	0.38	396
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	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	0.27	0.24	0.17	1.63	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	391	391	0.02	0.02	0.38	396

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.04	< 0.005	—	201
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.04	< 0.005	—	201

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,213
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,213
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,213
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,213
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.04	< 0.005	—	201
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.04	< 0.005	—	201

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	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	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	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	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	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	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.94	3.73	0.40	43.3	< 0.005	0.02	—	0.02	0.01	—	0.01	—	115	115	< 0.005	< 0.005	—	116
Total	20.8	20.6	0.40	43.3	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	115	115	< 0.005	< 0.005	—	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	16.9	16.9	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	2.85	2.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.35	0.34	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.45
Total	3.43	3.41	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	3.94	3.73	0.40	43.3	< 0.005	0.02	—	0.02	0.01	—	0.01	—	115	115	< 0.005	< 0.005	—	116
Total	20.8	20.6	0.40	43.3	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	115	115	< 0.005	< 0.005	—	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.6	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	16.9	16.9	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	2.85	2.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.35	0.34	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.45
Total	3.43	3.41	0.04	3.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme High Rise	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	0.00	—	0.09
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	0.00	—	0.09
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	< 0.005	0.00	< 0.005	< 0.005	0.00	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

City Park	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	0.00	—	0.09
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	0.00	—	0.09
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,060
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	< 0.005	0.00	< 0.005	< 0.005	0.00	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetati on	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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)

Vegetati	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	8/13/2029	9/10/2029	5.00	20.0	—
Site Preparation	Site Preparation	9/11/2029	9/25/2029	5.00	10.0	—
Grading	Grading	9/26/2029	11/7/2029	5.00	30.0	—
Building Construction	Building Construction	11/8/2029	11/2/2030	5.00	257	—
Paving	Paving	11/3/2030	11/30/2030	5.00	20.0	—
Architectural Coating	Architectural Coating	9/20/2030	12/23/2030	5.00	67.0	—
Trenching	Trenching	11/8/2029	1/8/2030	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	7.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	2.00	7.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37

Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	7.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	7.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	2.00	7.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20

Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	7.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	16.0	12.0	LDA,LDT1,LDT2
Demolition	Vendor	4.00	7.63	HHDT,MHDT
Demolition	Hauling	140	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	30.0	12.0	LDA,LDT1,LDT2

Grading	Vendor	4.00	7.63	HHDT,MHDT
Grading	Hauling	138	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	350	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	82.0	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	110	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	4.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	7.63	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	16.0	12.0	LDA,LDT1,LDT2

Demolition	Vendor	4.00	7.63	HHDT,MHDT
Demolition	Hauling	140	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	30.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	7.63	HHDT,MHDT
Grading	Hauling	138	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	350	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	82.0	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	110	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

Trenching	—	—	—	—
Trenching	Worker	4.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	7.63	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	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	1,477,440	492,480	0.00	0.00	1,634

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	11,043	—
Site Preparation	—	—	5.00	0.00	—
Grading	12,201	20,900	140	0.00	—
Paving	0.00	0.00	0.00	0.00	0.63

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%
Other Asphalt Surfaces	0.63	100%
City Park	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2029	27,456	589	0.03	< 0.005
2030	27,456	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
Apartments High Rise	420	420	420	153,455	3,195	3,195	3,195	1,166,260
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments High Rise	420	420	420	153,455	3,195	3,195	3,195	1,166,260

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	760
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	760

Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1477440	492,480	0.00	0.00	1,634

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)
Apartments High Rise	2,577,061	170	0.0330	0.0040	5,379,612
Other Asphalt Surfaces	0.00	170	0.0330	0.0040	0.00
City Park	0.00	170	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)
Apartments High Rise	2,578,419	170	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	170	0.0330	0.0040	0.00
City Park	0.00	170	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)
Apartments High Rise	33,953,291	740,799
Other Asphalt Surfaces	0.00	0.00
City Park	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	33,953,291	740,799
Other Asphalt Surfaces	0.00	0.00
City Park	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	562	—
Other Asphalt Surfaces	0.00	—

City Park	0.05	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	562	—
Other Asphalt Surfaces	0.00	—
City Park	0.05	—

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
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	52.0	530	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	9.08	annual days of extreme heat
Extreme Precipitation	2.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	4.89	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6

AQ-PM	46.0
AQ-DPM	78.3
Drinking Water	29.0
Lead Risk Housing	22.5
Pesticides	0.00
Toxic Releases	36.0
Traffic	83.2
Effect Indicators	—
CleanUp Sites	53.4
Groundwater	68.4
Haz Waste Facilities/Generators	37.7
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	38.4
Cardio-vascular	12.7
Low Birth Weights	9.08
Socioeconomic Factor Indicators	—
Education	—
Housing	96.5
Linguistic	—
Poverty	91.8
Unemployment	92.2

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	20.95470294
Employed	9.534197357
Median HI	17.43872706
Education	—
Bachelor's or higher	81.12408572
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	11.04837675
Active commuting	89.42640832
Social	—
2-parent households	99.56371102
Voting	22.66136276
Neighborhood	—
Alcohol availability	85.46131143
Park access	20.23610933
Retail density	97.62607468
Supermarket access	2.399589375
Tree canopy	71.71820865
Housing	—
Homeownership	27.87116643
Housing habitability	26.51097138
Low-inc homeowner severe housing cost burden	97.99820352
Low-inc renter severe housing cost burden	0.346464776
Uncrowded housing	50.16040036
Health Outcomes	—
Insured adults	68.95932247
Arthritis	97.1

Asthma ER Admissions	70.5
High Blood Pressure	98.1
Cancer (excluding skin)	89.7
Asthma	21.6
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	97.2
Life Expectancy at Birth	60.4
Cognitively Disabled	72.6
Physically Disabled	83.0
Heart Attack ER Admissions	96.5
Mental Health Not Good	34.8
Chronic Kidney Disease	95.6
Obesity	88.9
Pedestrian Injuries	19.6
Physical Health Not Good	81.0
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.6
Current Smoker	47.6
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	47.1
SLR Inundation Area	0.0
Children	96.5
Elderly	59.3
English Speaking	55.7
Foreign-born	45.8

Outdoor Workers	77.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	96.7
Traffic Access	61.3
Other Indices	—
Hardship	53.0
Other Decision Support	—
2016 Voting	37.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	47.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Characteristics: Utility Information	Phase 1 is within the on-campus grid getting electricity from the cogen.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	Based on LLG traffic study.
Operations: Hearths	No stoves or fireplaces.
Operations: Generators + Pumps EF	Tier 4 Final
Operations: Water and Waste Water	Based on applicant provided information.
Construction: Dust From Material Movement	Based on applicant provided information.
Operations: Emergency Generators and Fire Pumps	Based on applicant provided information
Construction: Electricity	Estimated electricity use.

SDSU Evolve Phase 5 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
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
- 3. Construction Emissions Details
 - 3.1. Site Preparation (2031) - Unmitigated
 - 3.3. Grading (2031) - Unmitigated
 - 3.5. Building Construction (2031) - Unmitigated
 - 3.7. Building Construction (2032) - Unmitigated
 - 3.9. Paving (2032) - Unmitigated

3.11. Architectural Coating (2032) - Unmitigated

3.13. Trenching (2031) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

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

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	SDSU Evolve Phase 5
Construction Start Date	1/22/2031
Operational Year	2032
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	1.80
Location	32.77754140411972, -117.07772216206095
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6514
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	760	Dwelling Unit	12.3	729,600	21,626	—	2,120	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	69.8	69.6	6.62	21.2	0.03	0.04	4.44	4.47	0.04	1.06	1.09	—	6,600	6,600	0.16	0.39	10.2	6,698
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.37	1.17	6.82	20.5	0.04	0.08	3.60	3.69	0.08	1.56	1.64	—	5,906	5,906	0.21	0.39	0.25	6,026
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.9	12.8	3.75	12.0	0.02	0.03	2.34	2.37	0.03	0.64	0.66	—	3,670	3,670	0.11	0.24	2.42	3,746
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.35	2.34	0.68	2.19	< 0.005	< 0.005	0.43	0.43	< 0.005	0.12	0.12	—	608	608	0.02	0.04	0.40	620

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	1.39	1.30	6.62	20.7	0.03	0.04	3.54	3.58	0.04	0.85	0.89	—	6,071	6,071	0.16	0.39	9.55	6,200

2032	69.8	69.6	5.39	21.2	0.02	0.03	4.44	4.47	0.03	1.06	1.09	—	6,600	6,600	0.15	0.28	10.2	6,698
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	1.37	1.17	6.82	20.5	0.04	0.08	3.60	3.69	0.08	1.56	1.64	—	5,906	5,906	0.21	0.39	0.25	6,026
2032	1.25	1.07	5.20	16.6	0.02	0.03	3.48	3.51	0.03	0.84	0.87	—	5,435	5,435	0.14	0.36	0.21	5,545
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.79	0.68	3.75	12.0	0.02	0.03	2.34	2.37	0.03	0.64	0.66	—	3,670	3,670	0.11	0.24	2.42	3,746
2032	12.9	12.8	1.48	5.19	0.01	0.01	1.08	1.09	0.01	0.26	0.27	—	1,663	1,663	0.04	0.10	1.08	1,696
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.14	0.12	0.68	2.19	< 0.005	< 0.005	0.43	0.43	< 0.005	0.12	0.12	—	608	608	0.02	0.04	0.40	620
2032	2.35	2.34	0.27	0.95	< 0.005	< 0.005	0.20	0.20	< 0.005	0.05	0.05	—	275	275	0.01	0.02	0.18	281

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.4	22.0	2.64	53.8	0.04	0.15	2.26	2.40	0.14	0.57	0.71	368	5,732	6,100	37.5	0.28	9.27	7,130
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.4	18.3	2.31	10.0	0.03	0.13	2.26	2.38	0.13	0.57	0.70	368	5,512	5,880	37.5	0.29	5.33	6,908
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.3	20.0	2.41	30.6	0.03	0.13	2.25	2.39	0.13	0.57	0.70	368	5,426	5,793	37.5	0.29	6.97	6,822
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.71	3.66	0.44	5.58	0.01	0.02	0.41	0.44	0.02	0.10	0.13	60.9	898	959	6.20	0.05	1.15	1,129

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.38	1.27	0.75	8.81	0.02	0.01	2.26	2.27	0.01	0.57	0.59	—	2,363	2,363	0.10	0.09	4.04	2,396
Area	20.8	20.6	0.40	43.3	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	115	115	< 0.005	< 0.005	—	116
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	22.4	22.0	2.64	53.8	0.04	0.15	2.26	2.40	0.14	0.57	0.71	368	5,732	6,100	37.5	0.28	9.27	7,130
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.36	1.26	0.83	8.34	0.02	0.01	2.26	2.27	0.01	0.57	0.59	—	2,258	2,258	0.11	0.09	0.10	2,289
Area	16.9	16.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	18.4	18.3	2.31	10.0	0.03	0.13	2.26	2.38	0.13	0.57	0.70	368	5,512	5,880	37.5	0.29	5.33	6,908
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.35	1.24	0.81	8.33	0.02	0.01	2.25	2.27	0.01	0.57	0.58	—	2,274	2,274	0.11	0.09	1.75	2,306

Area	18.8	18.7	0.20	21.4	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	56.9	56.9	< 0.005	< 0.005	—	57.1
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.02	0.02	0.04	0.32	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	63.4	63.4	< 0.005	< 0.005	0.00	63.6
Total	20.3	20.0	2.41	30.6	0.03	0.13	2.25	2.39	0.13	0.57	0.70	368	5,426	5,793	37.5	0.29	6.97	6,822
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.25	0.23	0.15	1.52	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	377	377	0.02	0.02	0.29	382
Area	3.43	3.41	0.04	3.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45
Energy	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	484	484	0.06	0.01	—	487
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5
Waste	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Stationary	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	3.71	3.66	0.44	5.58	0.01	0.02	0.41	0.44	0.02	0.10	0.13	60.9	898	959	6.20	0.05	1.15	1,129

3. Construction Emissions Details

3.1. Site Preparation (2031) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

[illegible]

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.51	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	145	145	< 0.005	0.01	0.01	147
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	85.3	85.3	< 0.005	0.01	< 0.005	89.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.00	4.00	< 0.005	< 0.005	< 0.005	4.06
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.33	2.33	< 0.005	< 0.005	< 0.005	2.44
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.67
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.39	0.39	< 0.005	< 0.005	< 0.005	0.40
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2031) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

[illegible]

SDSU Evolve Phase 5 Detailed Report, 12/3/2024

[illegible]

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	0.84	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	241	241	< 0.005	0.01	0.01	244
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	85.3	85.3	< 0.005	0.01	< 0.005	89.0
Hauling	0.11	0.03	2.33	0.95	0.01	0.03	0.56	0.58	0.03	0.15	0.18	—	1,838	1,838	0.08	0.30	0.07	1,929
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.0	20.0	< 0.005	< 0.005	0.02	20.3
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.00	7.00	< 0.005	< 0.005	< 0.005	7.31
Hauling	0.01	< 0.005	0.19	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	151	151	0.01	0.02	0.10	159
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.31	3.31	< 0.005	< 0.005	< 0.005	3.36
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.16	1.16	< 0.005	< 0.005	< 0.005	1.21
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.0	25.0	< 0.005	< 0.005	0.02	26.3

3.5. Building Construction (2031) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

[illegible]

SDSU Evolve Phase 5 Detailed Report, 12/3/2024

[illegible]

Worker	0.60	0.53	0.43	5.65	0.00	0.00	1.67	1.67	0.00	0.39	0.39	—	1,600	1,600	0.03	0.07	1.64	1,622
Vendor	0.07	0.03	1.20	0.58	0.01	0.01	0.30	0.30	0.01	0.08	0.09	—	985	985	0.03	0.14	0.64	1,027
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.11	0.10	0.08	1.03	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	265	265	0.01	0.01	0.27	269
Vendor	0.01	0.01	0.22	0.11	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	163	163	0.01	0.02	0.11	170
Hauling	0.00	0.00	0.00	0.00	0.00	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. Building Construction (2032) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

[illegible]

Off-Road	0.03	0.03	0.64	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	229	229	0.01	< 0.005	—	230
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.12	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.9	37.9	< 0.005	< 0.005	—	38.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.04	0.93	0.64	10.6	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	2,935	2,935	0.04	0.02	5.96	2,949
Vendor	0.11	0.05	1.97	0.99	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,686	1,686	0.06	0.23	2.25	1,759
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.03	0.91	0.66	9.31	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	2,773	2,773	0.05	0.12	0.15	2,809
Vendor	0.11	0.05	2.06	1.01	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,687	1,687	0.06	0.23	0.06	1,758
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.26	0.24	0.17	2.43	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	723	723	0.01	0.03	0.67	733
Vendor	0.03	0.01	0.52	0.26	< 0.005	< 0.005	0.14	0.14	< 0.005	0.04	0.04	—	436	436	0.01	0.06	0.25	454
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.05	0.04	0.03	0.44	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	120	120	< 0.005	< 0.005	0.11	121
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	72.1	72.1	< 0.005	0.01	0.04	75.2

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2032) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

[illegible]

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.30	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	83.9	83.9	< 0.005	< 0.005	0.17	84.3
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	82.2	82.2	< 0.005	0.01	0.11	85.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.26	5.26	< 0.005	< 0.005	< 0.005	5.33
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.41	5.41	< 0.005	< 0.005	< 0.005	5.64
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.88
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.90	0.90	< 0.005	< 0.005	< 0.005	0.93
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2032) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

[illegible]

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.29	0.20	3.33	0.00	0.00	0.93	0.93	0.00	0.22	0.22	—	923	923	0.01	0.01	1.87	927
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	82.2	82.2	< 0.005	0.01	0.11	85.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.54	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	161	161	< 0.005	0.01	0.15	164
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.1	15.1	< 0.005	< 0.005	0.01	15.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.7	26.7	< 0.005	< 0.005	0.02	27.1
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.50	2.50	< 0.005	< 0.005	< 0.005	2.61
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Trenching (2031) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.04	0.04	1.33	1.98	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.16	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.2	34.2	< 0.005	< 0.005	—	34.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.66	5.66	< 0.005	< 0.005	—	5.68
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	34.0	34.0	< 0.005	< 0.005	0.08	34.5
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	85.2	85.2	< 0.005	0.01	0.13	89.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.2	32.2	< 0.005	< 0.005	< 0.005	32.6

Apartments	1.36	1.26	0.83	8.34	0.02	0.01	2.26	2.27	0.01	0.57	0.59	—	2,258	2,258	0.11	0.09	0.10	2,289
Total	1.36	1.26	0.83	8.34	0.02	0.01	2.26	2.27	0.01	0.57	0.59	—	2,258	2,258	0.11	0.09	0.10	2,289
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.25	0.23	0.15	1.52	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	377	377	0.02	0.02	0.29	382
Total	0.25	0.23	0.15	1.52	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	377	377	0.02	0.02	0.29	382

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)

[illegible]

Apartments	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.04	< 0.005	—	201
Total	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.04	< 0.005	—	201

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Total	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Total	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286
Total	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

[illegible]

Consumer Product	2.85	2.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.35	0.34	0.04	3.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.45
Total	3.43	3.41	0.04	3.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5
Total	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Total	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerge ncy Generat or	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerge ncy Generat or	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223

Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

[illegible]

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)

[illegible]

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)

[illegible]

[illegible]

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	1/22/2031	2/4/2031	5.00	10.0	—
Grading	Grading	2/5/2031	3/18/2031	5.00	30.0	—
Building Construction	Building Construction	3/19/2031	5/11/2032	5.00	300	—
Paving	Paving	5/12/2032	6/14/2032	5.00	24.0	—
Architectural Coating	Architectural Coating	4/14/2032	7/15/2032	5.00	67.0	—
Trenching	Trenching	3/19/2031	5/19/2031	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	4.00	8.00	36.0	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	7.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37

Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	30.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	7.63	HHDT,MHDT
Grading	Hauling	30.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	350	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	82.0	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—

Paving	Worker	10.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	110	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	4.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	7.63	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	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	1,477,440	492,480	0.00	0.00	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)

Site Preparation	—	—	5.00	0.00	—
Grading	1,500	5,491	120	0.00	—
Paving	0.00	0.00	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2031	27,456	589	0.03	< 0.005
2032	27,456	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
Apartments High Rise	420	420	420	153,455	3,195	3,195	3,195	1,166,260

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	760
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1477440	492,480	0.00	0.00	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments High Rise	2,577,061	170	0.0330	0.0040	5,379,612

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	33,953,291	740,799

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	562	—

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
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	52.0	530	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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	9.08	annual days of extreme heat
Extreme Precipitation	2.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	4.89	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	46.0
AQ-DPM	78.3
Drinking Water	29.0
Lead Risk Housing	22.5
Pesticides	0.00
Toxic Releases	36.0
Traffic	83.2
Effect Indicators	—
CleanUp Sites	53.4
Groundwater	68.4
Haz Waste Facilities/Generators	37.7
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	38.4
Cardio-vascular	12.7
Low Birth Weights	9.08
Socioeconomic Factor Indicators	—
Education	—
Housing	96.5
Linguistic	—
Poverty	91.8
Unemployment	92.2

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	20.95470294
Employed	9.534197357
Median HI	17.43872706
Education	—
Bachelor's or higher	81.12408572
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	11.04837675
Active commuting	89.42640832
Social	—
2-parent households	99.56371102
Voting	22.66136276
Neighborhood	—
Alcohol availability	85.46131143
Park access	20.23610933
Retail density	97.62607468
Supermarket access	2.399589375
Tree canopy	71.71820865
Housing	—
Homeownership	27.87116643
Housing habitability	26.51097138
Low-inc homeowner severe housing cost burden	97.99820352
Low-inc renter severe housing cost burden	0.346464776

Uncrowded housing	50.16040036
Health Outcomes	—
Insured adults	68.95932247
Arthritis	97.1
Asthma ER Admissions	70.5
High Blood Pressure	98.1
Cancer (excluding skin)	89.7
Asthma	21.6
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	97.2
Life Expectancy at Birth	60.4
Cognitively Disabled	72.6
Physically Disabled	83.0
Heart Attack ER Admissions	96.5
Mental Health Not Good	34.8
Chronic Kidney Disease	95.6
Obesity	88.9
Pedestrian Injuries	19.6
Physical Health Not Good	81.0
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.6
Current Smoker	47.6
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	47.1
SLR Inundation Area	0.0

Children	96.5
Elderly	59.3
English Speaking	55.7
Foreign-born	45.8
Outdoor Workers	77.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	96.7
Traffic Access	61.3
Other Indices	—
Hardship	53.0
Other Decision Support	—
2016 Voting	37.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	47.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Characteristics: Utility Information	Phase 1 is within the on-campus grid getting electricity from the cogen.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	Based on LLG traffic study.
Operations: Hearths	No stoves or fireplaces.
Operations: Generators + Pumps EF	Tier 4 Final
Operations: Water and Waste Water	Based on applicant provided information.
Construction: Dust From Material Movement	Based on applicant provided information.
Operations: Emergency Generators and Fire Pumps	Based on applicant provided information
Construction: Electricity	Estimated electricity use.

SDSU Evolve Phase 6 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
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
- 3. Construction Emissions Details
 - 3.1. Site Preparation (2032) - Unmitigated
 - 3.3. Grading (2032) - Unmitigated
 - 3.5. Building Construction (2032) - Unmitigated
 - 3.7. Building Construction (2033) - Unmitigated
 - 3.9. Paving (2033) - Unmitigated

3.11. Architectural Coating (2033) - Unmitigated

3.13. Architectural Coating (2034) - Unmitigated

3.15. Trenching (2032) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

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

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	SDSU Evolve Phase 6
Construction Start Date	7/16/2032
Operational Year	2034
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	1.80
Location	32.77754140411972, -117.07772216206095
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6514
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	760	Dwelling Unit	12.3	729,600	21,626	—	2,120	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.36	1.19	6.71	22.7	0.04	0.08	3.60	3.69	0.08	1.56	1.64	—	6,364	6,364	0.20	0.32	8.38	6,460
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	69.7	69.5	6.82	21.7	0.03	0.04	4.44	4.48	0.04	1.06	1.10	—	6,622	6,622	0.17	0.37	0.23	6,711
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.6	11.5	3.44	12.6	0.02	0.02	2.34	2.37	0.02	0.56	0.59	—	3,787	3,787	0.10	0.17	2.06	3,843
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.13	2.10	0.63	2.31	< 0.005	< 0.005	0.43	0.43	< 0.005	0.10	0.11	—	627	627	0.02	0.03	0.34	636

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	1.36	1.19	6.71	22.7	0.04	0.08	3.60	3.69	0.08	1.56	1.64	—	6,364	6,364	0.20	0.32	8.38	6,460

2033	1.28	1.10	5.10	20.0	0.03	0.04	3.48	3.52	0.04	0.84	0.88	—	5,839	5,839	0.14	0.27	7.16	5,929
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	1.34	1.16	6.82	21.4	0.03	0.04	3.54	3.59	0.04	0.85	0.90	—	6,201	6,201	0.17	0.37	0.22	6,318
2033	69.7	69.5	5.60	21.7	0.03	0.04	4.44	4.48	0.04	1.06	1.10	—	6,622	6,622	0.16	0.29	0.23	6,711
2034	68.5	68.4	0.27	2.68	< 0.005	< 0.005	0.96	0.96	< 0.005	0.23	0.23	—	2,333	2,333	0.10	0.03	0.04	2,344
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.34	0.29	1.91	6.53	0.01	0.02	1.15	1.16	0.02	0.35	0.37	—	1,841	1,841	0.06	0.11	0.91	1,876
2033	11.6	11.5	3.44	12.6	0.02	0.02	2.34	2.37	0.02	0.56	0.59	—	3,787	3,787	0.10	0.17	2.06	3,843
2034	1.61	1.61	0.01	0.06	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	55.0	55.0	< 0.005	< 0.005	0.02	55.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.06	0.05	0.35	1.19	< 0.005	< 0.005	0.21	0.21	< 0.005	0.06	0.07	—	305	305	0.01	0.02	0.15	311
2033	2.13	2.10	0.63	2.31	< 0.005	< 0.005	0.43	0.43	< 0.005	0.10	0.11	—	627	627	0.02	0.03	0.34	636
2034	0.29	0.29	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.10	9.10	< 0.005	< 0.005	< 0.005	9.14

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)

[illegible]

Unmit.	20.3	20.0	2.33	30.2	0.03	0.13	2.25	2.39	0.13	0.57	0.70	368	5,360	5,728	37.4	0.28	6.51	6,755
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.70	3.65	0.43	5.51	0.01	0.02	0.41	0.44	0.02	0.10	0.13	60.9	887	948	6.20	0.05	1.08	1,118

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.31	1.21	0.68	8.43	0.02	0.01	2.26	2.27	0.01	0.57	0.58	—	2,296	2,296	0.10	0.08	2.97	2,327
Area	20.8	20.6	0.40	43.3	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	115	115	< 0.005	< 0.005	—	116
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	22.3	21.9	2.57	53.4	0.04	0.15	2.26	2.40	0.14	0.57	0.71	368	5,665	6,033	37.5	0.28	8.20	7,061
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.30	1.20	0.75	7.96	0.02	0.01	2.26	2.27	0.01	0.57	0.58	—	2,194	2,194	0.10	0.09	0.08	2,223
Area	16.9	16.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223

Total	18.4	18.2	2.24	9.65	0.03	0.13	2.26	2.38	0.13	0.57	0.70	368	5,447	5,815	37.5	0.28	5.30	6,841
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.28	1.18	0.74	7.96	0.02	0.01	2.25	2.27	0.01	0.57	0.58	—	2,209	2,209	0.10	0.09	1.28	2,239
Area	18.8	18.7	0.20	21.4	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	56.9	56.9	< 0.005	< 0.005	—	57.1
Energy	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	2,922	2,922	0.39	0.03	—	2,941
Water	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Waste	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Stationary	0.02	0.02	0.04	0.32	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	63.4	63.4	< 0.005	< 0.005	0.00	63.6
Total	20.3	20.0	2.33	30.2	0.03	0.13	2.25	2.39	0.13	0.57	0.70	368	5,360	5,728	37.4	0.28	6.51	6,755
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.23	0.22	0.14	1.45	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	366	366	0.02	0.01	0.21	371
Area	3.43	3.41	0.04	3.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45
Energy	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	484	484	0.06	0.01	—	487
Water	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5
Waste	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Stationary	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	3.70	3.65	0.43	5.51	0.01	0.02	0.41	0.44	0.02	0.10	0.13	60.9	887	948	6.20	0.05	1.08	1,118

3. Construction Emissions Details

3.1. Site Preparation (2032) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

[illegible]

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.96	10.8	0.02	0.04	—	0.04	0.04	—	0.04	—	1,959	1,959	0.08	0.02	—	1,965
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.7	53.7	< 0.005	< 0.005	—	53.8
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.88	8.88	< 0.005	< 0.005	—	8.92
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.55	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	151	151	< 0.005	< 0.005	0.31	152
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	82.2	82.2	< 0.005	0.01	0.11	85.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.94	3.94	< 0.005	< 0.005	< 0.005	4.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.25	2.25	< 0.005	< 0.005	< 0.005	2.35
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.65	0.65	< 0.005	< 0.005	< 0.005	0.66
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.39
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2032) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

[illegible]

SDSU Evolve Phase 6 Detailed Report, 12/3/2024

[illegible]

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	0.91	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	252	252	< 0.005	< 0.005	0.51	253
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	82.2	82.2	< 0.005	0.01	0.11	85.8
Hauling	0.11	0.03	2.18	0.92	0.01	0.03	0.56	0.58	0.03	0.15	0.18	—	1,784	1,784	0.06	0.29	2.53	1,873
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.7	19.7	< 0.005	< 0.005	0.02	20.0
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.76	6.76	< 0.005	< 0.005	< 0.005	7.05
Hauling	0.01	< 0.005	0.19	0.07	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	147	147	0.01	0.02	0.09	154
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.26	3.26	< 0.005	< 0.005	< 0.005	3.31
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.17
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.3	24.3	< 0.005	< 0.005	0.01	25.5

3.5. Building Construction (2032) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.15	2.67	8.95	0.01	0.02	—	0.02	0.02	—	0.02	—	1,270	1,270	0.05	0.01	—	1,274
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.15	2.67	8.95	0.01	0.02	—	0.02	0.02	—	0.02	—	1,270	1,270	0.05	0.01	—	1,274
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.59	1.98	< 0.005	0.01	—	0.01	0.01	—	0.01	—	281	281	0.01	< 0.005	—	282
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.5	46.5	< 0.005	< 0.005	—	46.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.04	0.93	0.64	10.6	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	2,935	2,935	0.04	0.02	5.96	2,949
Vendor	0.11	0.05	1.97	0.99	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,686	1,686	0.06	0.23	2.25	1,759
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.03	0.91	0.66	9.31	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	2,773	2,773	0.05	0.12	0.15	2,809

Vendor	0.11	0.05	2.06	1.01	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,687	1,687	0.06	0.23	0.06	1,758
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.23	0.20	0.14	2.08	0.00	0.00	0.65	0.65	0.00	0.15	0.15	—	619	619	0.01	0.03	0.57	627
Vendor	0.02	0.01	0.45	0.22	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	373	373	0.01	0.05	0.21	389
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.04	0.04	0.03	0.38	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	102	102	< 0.005	< 0.005	0.09	104
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	61.7	61.7	< 0.005	0.01	0.04	64.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2033) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.15	2.67	8.95	0.01	0.02	—	0.02	0.02	—	0.02	—	1,270	1,270	0.05	0.01	—	1,274
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.15	2.67	8.95	0.01	0.02	—	0.02	0.02	—	0.02	—	1,270	1,270	0.05	0.01	—	1,274

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.09	0.09	1.68	5.62	0.01	0.01	—	0.01	0.01	—	0.01	—	798	798	0.03	0.01	—	801
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.02	0.31	1.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	132	132	0.01	< 0.005	—	133
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.02	0.90	0.54	10.1	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	2,903	2,903	0.04	0.02	5.24	2,916
Vendor	0.11	0.05	1.89	0.96	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,627	1,627	0.04	0.23	1.92	1,700
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.01	0.89	0.65	8.90	0.00	0.00	2.96	2.96	0.00	0.69	0.69	—	2,742	2,742	0.05	0.02	0.14	2,750
Vendor	0.11	0.05	1.97	0.98	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,629	1,629	0.04	0.23	0.05	1,700
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.62	0.55	0.41	5.67	0.00	0.00	1.86	1.86	0.00	0.44	0.44	—	1,738	1,738	0.03	0.01	1.42	1,744
Vendor	0.07	0.03	1.23	0.61	0.01	0.01	0.33	0.34	0.01	0.09	0.10	—	1,023	1,023	0.03	0.15	0.52	1,068

Off-Road Equipment	< 0.005	< 0.005	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.10	6.10	< 0.005	< 0.005	—	6.12
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.25	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	78.3	78.3	< 0.005	< 0.005	< 0.005	78.6
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	79.5	79.5	< 0.005	0.01	< 0.005	82.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.33	4.33	< 0.005	< 0.005	< 0.005	4.35
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.35	4.35	< 0.005	< 0.005	< 0.005	4.54
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.72
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.75
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2033) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

[illegible]

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.28	0.21	2.80	0.00	0.00	0.93	0.93	0.00	0.22	0.22	—	862	862	0.01	0.01	0.04	864
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	79.5	79.5	< 0.005	0.01	< 0.005	82.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.45	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	138	138	< 0.005	< 0.005	0.11	138
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.6	12.6	< 0.005	< 0.005	0.01	13.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	22.8	22.8	< 0.005	< 0.005	0.02	22.9
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.08	2.08	< 0.005	< 0.005	< 0.005	2.18
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2034) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

[illegible]

SDSU Evolve Phase 6 Detailed Report, 12/3/2024

[illegible]

Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.85	3.85	< 0.005	< 0.005	< 0.005	3.91
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.92	9.92	< 0.005	< 0.005	0.01	10.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.65
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.64	1.64	< 0.005	< 0.005	< 0.005	1.71
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.31	1.21	0.68	8.43	0.02	0.01	2.26	2.27	0.01	0.57	0.58	—	2,296	2,296	0.10	0.08	2.97	2,327
Total	1.31	1.21	0.68	8.43	0.02	0.01	2.26	2.27	0.01	0.57	0.58	—	2,296	2,296	0.10	0.08	2.97	2,327
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	1.30	1.20	0.75	7.96	0.02	0.01	2.26	2.27	0.01	0.57	0.58	—	2,194	2,194	0.10	0.09	0.08	2,223
Total	1.30	1.20	0.75	7.96	0.02	0.01	2.26	2.27	0.01	0.57	0.58	—	2,194	2,194	0.10	0.09	0.08	2,223

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.23	0.22	0.14	1.45	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	366	366	0.02	0.01	0.21	371
Total	0.23	0.22	0.14	1.45	< 0.005	< 0.005	0.41	0.41	< 0.005	0.10	0.11	—	366	366	0.02	0.01	0.21	371

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,198	1,198	0.23	0.03	—	1,212
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.04	< 0.005	—	201
Total	—	—	—	—	—	—	—	—	—	—	—	—	198	198	0.04	< 0.005	—	201

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Total	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Total	0.16	0.08	1.36	0.58	0.01	0.11	—	0.11	0.11	—	0.11	—	1,724	1,724	0.15	< 0.005	—	1,729
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286
Total	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	285	285	0.03	< 0.005	—	286

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Architect ural	0.23	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipm ent	0.35	0.34	0.04	3.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.41	9.41	< 0.005	< 0.005	—	9.45
Total	3.43	3.41	0.04	3.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.41	9.41	< 0.005	< 0.005	—	9.45

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Total	—	—	—	—	—	—	—	—	—	—	—	65.1	109	174	6.69	0.16	—	390
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5

Total	—	—	—	—	—	—	—	—	—	—	—	10.8	18.1	28.9	1.11	0.03	—	64.5

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Total	—	—	—	—	—	—	—	—	—	—	—	303	0.00	303	30.3	0.00	—	1,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175
Total	—	—	—	—	—	—	—	—	—	—	—	50.1	0.00	50.1	5.01	0.00	—	175

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.87	0.87

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223
Total	0.06	0.06	0.13	1.11	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	222	222	0.01	< 0.005	0.00	223

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5
Total	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	10.5	10.5	< 0.005	< 0.005	0.00	10.5

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

[illegible]

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)

[illegible]

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)

[illegible]

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	7/16/2032	7/29/2032	5.00	10.0	—
Grading	Grading	7/30/2032	9/9/2032	5.00	30.0	—
Building Construction	Building Construction	9/10/2032	11/17/2033	5.00	310	—
Paving	Paving	11/18/2033	12/15/2033	5.00	20.0	—
Architectural Coating	Architectural Coating	10/12/2033	1/12/2034	5.00	67.0	—
Trenching	Trenching	9/10/2032	11/10/2032	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	4.00	8.00	36.0	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Building Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Electric	Average	1.00	7.00	367	0.29
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37

Building Construction	Pumps	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	2.00	8.00	46.0	0.31
Building Construction	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
Paving	Pavers	Diesel	Tier 4 Final	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Trenching	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	30.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	7.63	HHDT,MHDT
Grading	Hauling	30.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	350	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	82.0	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

Paving	—	—	—	—
Paving	Worker	10.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	4.00	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	110	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	4.00	12.0	LDA,LDT1,LDT2
Trenching	Vendor	4.00	7.63	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	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	1,477,440	492,480	0.00	0.00	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	5.00	0.00	—
Grading	1,500	5,491	120	0.00	—
Paving	0.00	0.00	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments High Rise	—	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2032	20,458	589	0.03	< 0.005
2033	20,458	589	0.03	< 0.005
2034	20,458	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
Apartments High Rise	420	420	420	153,455	3,195	3,195	3,195	1,166,260

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments High Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	760
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1477440	492,480	0.00	0.00	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO₂ and CH₄ and N₂O and Natural Gas (kBtu/yr)

Land Use	Electricity (kWh/yr)	CO ₂	CH ₄	N ₂ O	Natural Gas (kBtu/yr)
Apartments High Rise	2,577,061	170	0.0330	0.0040	5,379,612

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	33,953,291	740,799

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	562	—

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
Apartments High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	52.0	530	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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	9.08	annual days of extreme heat
Extreme Precipitation	2.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	4.89	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	46.0
AQ-DPM	78.3
Drinking Water	29.0
Lead Risk Housing	22.5
Pesticides	0.00
Toxic Releases	36.0
Traffic	83.2
Effect Indicators	—
CleanUp Sites	53.4
Groundwater	68.4
Haz Waste Facilities/Generators	37.7
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	38.4
Cardio-vascular	12.7
Low Birth Weights	9.08
Socioeconomic Factor Indicators	—
Education	—
Housing	96.5
Linguistic	—

Poverty	91.8
Unemployment	92.2

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	20.95470294
Employed	9.534197357
Median HI	17.43872706
Education	—
Bachelor's or higher	81.12408572
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	11.04837675
Active commuting	89.42640832
Social	—
2-parent households	99.56371102
Voting	22.66136276
Neighborhood	—
Alcohol availability	85.46131143
Park access	20.23610933
Retail density	97.62607468
Supermarket access	2.399589375
Tree canopy	71.71820865
Housing	—
Homeownership	27.87116643

Housing habitability	26.51097138
Low-inc homeowner severe housing cost burden	97.99820352
Low-inc renter severe housing cost burden	0.346464776
Uncrowded housing	50.16040036
Health Outcomes	—
Insured adults	68.95932247
Arthritis	97.1
Asthma ER Admissions	70.5
High Blood Pressure	98.1
Cancer (excluding skin)	89.7
Asthma	21.6
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	97.2
Life Expectancy at Birth	60.4
Cognitively Disabled	72.6
Physically Disabled	83.0
Heart Attack ER Admissions	96.5
Mental Health Not Good	34.8
Chronic Kidney Disease	95.6
Obesity	88.9
Pedestrian Injuries	19.6
Physical Health Not Good	81.0
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.6
Current Smoker	47.6
No Leisure Time for Physical Activity	69.0

Climate Change Exposures	—
Wildfire Risk	47.1
SLR Inundation Area	0.0
Children	96.5
Elderly	59.3
English Speaking	55.7
Foreign-born	45.8
Outdoor Workers	77.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	96.7
Traffic Access	61.3
Other Indices	—
Hardship	53.0
Other Decision Support	—
2016 Voting	37.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	47.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Characteristics: Utility Information	Phase 1 is within the on-campus grid getting electricity from the cogen.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	Based on LLG traffic study.
Operations: Hearths	No stoves or fireplaces.
Operations: Generators + Pumps EF	Tier 4 Final
Operations: Water and Waste Water	Based on applicant provided information.
Construction: Dust From Material Movement	Based on applicant provided information.
Operations: Emergency Generators and Fire Pumps	Based on applicant provided information
Construction: Electricity	Estimated electricity use.



Caution: Photovoltaic system performance predictions calculated by PVWatts® include many inherent assumptions and uncertainties and do not reflect variations between PV technologies nor site-specific characteristics except as represented by PVWatts® inputs. For example, PV modules with better performance are not differentiated within PVWatts® from lesser performing modules. Both NREL and private companies provide more sophisticated PV modeling tools (such as the System Advisor Model at [//sam.nrel.gov](https://sam.nrel.gov)) that allow for more precise and complex modeling of PV systems.

The expected range is based on 30 years of actual weather data at the given location and is intended to provide an indication of the variation you might see. For more information, please refer to this NREL report: The Error Report.

Disclaimer: The PVWatts® Model ("Model") is provided by the National Renewable Energy Laboratory ("NREL"), which is operated by the Alliance for Sustainable Energy, LLC ("Alliance") for the U.S. Department Of Energy ("DOE") and may be used for any purpose whatsoever.

The names DOE/NREL/ALLIANCE shall not be used in any representation, advertising, publicity or other manner whatsoever to endorse or promote any entity that adopts or uses the Model. DOE/NREL/ALLIANCE shall not provide any support, consulting, training or assistance of any kind with regard to the use of the Model or any updates, revisions or new versions of the Model.

YOU AGREE TO INDEMNIFY DOE/NREL/ALLIANCE, AND ITS AFFILIATES, OFFICERS, AGENTS, AND EMPLOYEES AGAINST ANY CLAIM OR DEMAND, INCLUDING REASONABLE ATTORNEYS' FEES, RELATED TO YOUR USE, RELIANCE, OR ADOPTION OF THE MODEL FOR ANY PURPOSE WHATSOEVER. THE MODEL IS PROVIDED BY DOE/NREL/ALLIANCE 'AS IS' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A

RESULTS

528,254 kWh/Year*

System output may range from 507,757 to 531,582 kWh per year near this location.

Month	Solar Radiation (kWh / m ² / day)	AC Energy (kWh)
January	4.54	34,584
February	5.15	35,198
March	6.07	45,344
April	6.53	46,612
May	6.73	48,896
June	7.44	52,158
July	7.35	52,616
August	7.50	53,532
September	6.56	45,413
October	5.91	43,043
November	4.94	35,688
December	4.59	35,172
Annual	6.11	528,256

Location and Station Identification

Requested Location	92182, USA	
Weather Data Source	Lat, Lng: 32.77, -117.06	0.8 mi

PARTICULAR PURPOSE ARE EXPRESSLY
DISCLAIMED. IN NO EVENT SHALL
DOE/NREL/ALLIANCE BE LIABLE FOR ANY
SPECIAL, INDIRECT OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER,
INCLUDING BUT NOT LIMITED TO CLAIMS
ASSOCIATED WITH THE LOSS OF DATA OR
PROFITS, WHICH MAY RESULT FROM ANY
ACTION IN CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS CLAIM THAT ARISES OUT
OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE MODEL.

The energy output range is based on
analysis of 30 years of historical weather
data, and is intended to provide an
indication of the possible interannual
variability in generation for a Fixed (open
rack) PV system at this location.

Latitude	32.77° N
Longitude	117.06° W

PV System Specifications

DC System Size	308 kW
Module Type	Standard
Array Type	Fixed (open rack)
System Losses	14.08%
Array Tilt	20°
Array Azimuth	180°
DC to AC Size Ratio	1.2
Inverter Efficiency	96%
Ground Coverage Ratio	0.4
Albedo	From weather file
Bifacial	No (0)
Monthly Irradiance Loss	Jan Feb Mar Apr May June
	0% 0% 0% 0% 0% 0%
	July Aug Sept Oct Nov Dec
	0% 0% 0% 0% 0% 0%

Performance Metrics

DC Capacity Factor	19.6%

This data was produced from the Tree Planting Calculator version 2.7.0 for San Diego, CA.
Location: San Diego, CA 92064
Total number of trees planted in this project: 219
Electricity Emissions Factor: 352.4
Fuel Emissions Factor: 52
Lifetime: 30
Annual Tree Mortality: 3
Run Date: 10-18-2024

Group Identifier	Tree	Initial Number of Trees	Species	Initial DBH (inches)	Distance to Building (feet)	Direction	Building Vintage	Tree Condition	Crown/Light Exposure	DBH (inches)	Height (feet)	Surviving Trees	Basal Area (square feet)	Canopy Cover (square feet)	Biomass (short ton)	CO2 Avoided (pounds)	CO2 Avoided (\$)	CO2 Sequestered (pounds)	CO2 Sequestered (\$)	Electricity Saved (kWh)	Electricity Saved (\$)	Fuel Saved (MMBtu)	Fuel Saved (\$)	Rainfall Interception (gallons)	Evaporation (gallons)	Transpiration (gallons)	Avoided Runoff (gallons)	Avoided Runoff (\$)	O3 Removed (pounds)	NO2 Avoided (pounds)	NO2 Removed (pounds)	SO2 Avoided (pounds)	SO2 Removed (pounds)	VOC Avoided (pounds)	PM2.5 Avoided (pounds)	PM2.5 Removed (pounds)	Avoided Value (\$)	Removal Value (\$)		
	7	190	Blue gum eucalyptus (Eucalyptus globulus)	1	0-19	north (S&T)	post-1980	excellent	full sun	28.1	76.7	79	339.3	107,814.80	424.1	360,938.90	\$8,394.34	2,171,046.40	\$50,491.91	307,824.10	\$63,032.47	1,008.40	\$19,317.75	2,113,311.10	2,095,253.70	8,307,136.70	375,342.70	\$3,364.06	3,798.61	25.96	610.34	91.35	15.1	\$62.38	\$62.38	101.51	43.68	\$570.08	\$21,851.04	
	10	29	Mexican fan palm (Washingtonia robusta)	1	0-19	north (S&T)	post-1980	excellent	full sun	28.1	30	12	51.6	14,353.20	4.4	13,924.80	\$306.19	22,558.00	\$524.63	12,094.30	\$2,475.70	48.3	\$925.32	230,902.80	256,889.90	1,017,708.10	45,983.30	\$410.91	236.15	0.93	33.66	3.27	0.97	6.32	3.97	1.63	\$22.02	\$509.52		
Cumulative graph data																																								
Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30										
Sequestered & Avoided Carbon	212	561,695,2644	1095,599,217	1573,420,642	2284,215,396	3,167,595,657	4,102,051,791	1,357,474,657	6,660,274,625	8,098,375,321	9,667,940,21	11,963,984,653	13,420,971,14	15,571,572,79	17,613,311,47	20,144,696,96	22,962,091,73	26,061,764,11	27,929,914,78	30,292,700,72	33,002,846,64	35,761,658,99	38,661,261,62	41,656,114,89	44,386,594,13	47,967,870,54	50,293,674,25	53,661,189,63	56,958,457,79	59,715,466,16										
Energy	##	2544,578,273	3500,111,226	4669,627,922	5963,245,685	7597,695,534	10097,1546	12247,65779	14437,70972	16662,26029	18907,8465	21173,08911	25748,91896	30188,27442	34495,22371	38673,72165	42727,59332	46660,15752	50476,22021	54178,07962	57769,53044	61253,86494	64634,27797	67911,86892	71095,64475	74182,52273	77177,40332	80085,48679	82909,23656	85651,23954										
Avoided Runoff	23	54,871,62087	141,751,6273	94,505,69748	196,588,9564	258,726,699	328,374,703	405,415,7515	489,409,1786	581,509,3127	680,420,913	796,493,679	899,622,2733	1019,761,442	1146,613,787	1280,231,002	1420,414,937	1567,018,021	1719,889,666	1878,957,149	2043,761,461	2214,427,605	2390,670,866	2572,314,63	2759,170,964	2951,090,025	3147,762,787	3349,115,64	3554,916,068	3764,969,69										
Air Pollution	37	90,598,61354	154,189,75223	261,633,6876	386,834,431	531,138,354	704,170,029	1001,891,171	1390,647,264	1868,775,106	2479,250,57	3264,37707	4145,46426	5191,135418	6414,239033	7820,080,039	9176,143,263	11136,173,914	13120,490,669	15161,401,953	17277,050,12	19501,890,051	21527,87946	23182,461,62	24666,554,63	26006,527,16	27527,87946	29182,461,62												
Combined Benefits	##	3052,143572	4764,903963	6646,435079	8830,82269	11975,2045	15172,20968	19612,43867	22888,43679	26996,91091	31332,4671	35887,89465	43210,12118	50570,68407	57969,3796	65407,65765	72886,24827	80405,51352	87965,51732	95566,03964	103192,8676	110831,7655	118484,9993	126150,812	133827,2683	141512,2642	148201,795	156902,3098	164605,339	172310,3369										

This data was produced from the s-free Planting Calculator version 2.7.0 for San Diego, CA.
Location: San Diego, CA 92064
Total number of trees planted in this project: 225
Electricity Emissions Factor: 252.4
Fuel Emissions Factor: 52
Lifetime: 30
Annual Tree Mortality: 3
Run Date: 10-18-2024

SDSU Evolve Existing Mobile 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
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
 - 4.1. Mobile Emissions by Land Use
 - 4.1.1. Unmitigated
 - 4.2. Energy
 - 4.2.1. Electricity Emissions By Land Use - Unmitigated
 - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated
 - 4.3. Area Emissions by Source
 - 4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	SDSU Evolve Existing Mobile
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	1.80
Location	32.77754140411972, -117.07772216206095
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6514
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments High Rise	1.00	Dwelling Unit	0.02	960	0.00	—	3.00	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	33.2	29.7	28.3	287	0.69	0.55	58.1	58.7	0.51	14.7	15.3	0.00	70,585	70,585	2.92	2.50	278	71,680
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	32.6	29.1	31.0	263	0.66	0.55	58.1	58.7	0.52	14.7	15.3	0.00	67,382	67,382	3.06	2.65	7.22	68,256
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	32.3	28.8	30.7	265	0.67	0.55	58.1	58.6	0.51	14.7	15.2	0.00	67,868	67,868	3.02	2.63	120	68,846
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.90	5.26	5.60	48.3	0.12	0.10	10.6	10.7	0.09	2.69	2.78	0.00	11,236	11,236	0.50	0.43	19.9	11,398

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	33.2	29.7	28.3	287	0.69	0.55	58.1	58.7	0.51	14.7	15.3	—	70,585	70,585	2.92	2.50	278	71,680

Area	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	33.2	29.7	28.3	287	0.69	0.55	58.1	58.7	0.51	14.7	15.3	0.00	70,585	70,585	2.92	2.50	278	71,680
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	32.6	29.1	31.0	263	0.66	0.55	58.1	58.7	0.52	14.7	15.3	—	67,382	67,382	3.06	2.65	7.22	68,256
Area	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	32.6	29.1	31.0	263	0.66	0.55	58.1	58.7	0.52	14.7	15.3	0.00	67,382	67,382	3.06	2.65	7.22	68,256
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	32.3	28.8	30.7	265	0.67	0.55	58.1	58.6	0.51	14.7	15.2	—	67,868	67,868	3.02	2.63	120	68,846
Area	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	32.3	28.8	30.7	265	0.67	0.55	58.1	58.6	0.51	14.7	15.2	0.00	67,868	67,868	3.02	2.63	120	68,846
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.90	5.26	5.60	48.3	0.12	0.10	10.6	10.7	0.09	2.69	2.78	—	11,236	11,236	0.50	0.43	19.9	11,398
Area	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	5.90	5.26	5.60	48.3	0.12	0.10	10.6	10.7	0.09	2.69	2.78	0.00	11,236	11,236	0.50	0.43	19.9	11,398

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	33.2	29.7	28.3	287	0.69	0.55	58.1	58.7	0.51	14.7	15.3	—	70,585	70,585	2.92	2.50	278	71,680
Total	33.2	29.7	28.3	287	0.69	0.55	58.1	58.7	0.51	14.7	15.3	—	70,585	70,585	2.92	2.50	278	71,680
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	32.6	29.1	31.0	263	0.66	0.55	58.1	58.7	0.52	14.7	15.3	—	67,382	67,382	3.06	2.65	7.22	68,256
Total	32.6	29.1	31.0	263	0.66	0.55	58.1	58.7	0.52	14.7	15.3	—	67,382	67,382	3.06	2.65	7.22	68,256
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	5.90	5.26	5.60	48.3	0.12	0.10	10.6	10.7	0.09	2.69	2.78	—	11,236	11,236	0.50	0.43	19.9	11,398
Total	5.90	5.26	5.60	48.3	0.12	0.10	10.6	10.7	0.09	2.69	2.78	—	11,236	11,236	0.50	0.43	19.9	11,398

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts High Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consum er Product s	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coating s	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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)

Vegetati on	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. 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
Apartments High Rise	5,808	5,808	5,808	2,119,920	82,299	82,299	82,299	30,039,266

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1944	648	0.00	0.00	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	0.00

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments High Rise	0.00	540	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)
Apartments High Rise	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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.

21 / 28

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	9.08	annual days of extreme heat
Extreme Precipitation	2.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	4.89	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	37.6
AQ-PM	46.0
AQ-DPM	78.3
Drinking Water	29.0
Lead Risk Housing	22.5

Pesticides	0.00
Toxic Releases	36.0
Traffic	83.2
Effect Indicators	—
CleanUp Sites	53.4
Groundwater	68.4
Haz Waste Facilities/Generators	37.7
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	38.4
Cardio-vascular	12.7
Low Birth Weights	9.08
Socioeconomic Factor Indicators	—
Education	—
Housing	96.5
Linguistic	—
Poverty	91.8
Unemployment	92.2

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	20.95470294
Employed	9.534197357
Median HI	17.43872706
Education	—

Bachelor's or higher	81.12408572
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	11.04837675
Active commuting	89.42640832
Social	—
2-parent households	99.56371102
Voting	22.66136276
Neighborhood	—
Alcohol availability	85.46131143
Park access	20.23610933
Retail density	97.62607468
Supermarket access	2.399589375
Tree canopy	71.71820865
Housing	—
Homeownership	27.87116643
Housing habitability	26.51097138
Low-inc homeowner severe housing cost burden	97.99820352
Low-inc renter severe housing cost burden	0.346464776
Uncrowded housing	50.16040036
Health Outcomes	—
Insured adults	68.95932247
Arthritis	97.1
Asthma ER Admissions	70.5
High Blood Pressure	98.1
Cancer (excluding skin)	89.7
Asthma	21.6

Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	65.3
Diagnosed Diabetes	97.2
Life Expectancy at Birth	60.4
Cognitively Disabled	72.6
Physically Disabled	83.0
Heart Attack ER Admissions	96.5
Mental Health Not Good	34.8
Chronic Kidney Disease	95.6
Obesity	88.9
Pedestrian Injuries	19.6
Physical Health Not Good	81.0
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.6
Current Smoker	47.6
No Leisure Time for Physical Activity	69.0
Climate Change Exposures	—
Wildfire Risk	47.1
SLR Inundation Area	0.0
Children	96.5
Elderly	59.3
English Speaking	55.7
Foreign-born	45.8
Outdoor Workers	77.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	48.4
Traffic Density	96.7

Traffic Access	61.3
Other Indices	—
Hardship	53.0
Other Decision Support	—
2016 Voting	37.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	61.0
Healthy Places Index Score for Project Location (b)	47.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No construction
Operations: Vehicle Data	Based on LLG Traffic Memo.
Operations: Hearths	No fireplace or woodstoves, mobile sources only.

Operations: Consumer Products	Mobile sources only.
Operations: Architectural Coatings	Mobile sources only.
Operations: Energy Use	Mobile sources only.
Operations: Water and Waste Water	Mobile sources only.
Operations: Solid Waste	Mobile sources only.
Operations: Refrigerants	Mobile sources only.
Operations: Landscape Equipment	Mobile sources only.