3Roots San Diego Project
Environmental Impact Report

SCH No. 2018041065; Project No. 587128

Appendix C

Air Quality Technical Report

June 2019

3Roots San Diego Project

Air Quality Technical Report

June 2019 | CAH-02.01

Prepared for:

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ACRONYMS AND ABBREVIATIONS

$\mu g/m^3$	micrograms per cubic meter
BMPs	best management practices
BRT	bus rapid transit
CAA	Clean Air Act (Federal)
CAAQS	California Ambient Air Quality Standard
CalEEMod	California Emission Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCMP	Carroll Canyon Master Plan
CEQA	California Environmental Quality Act
City	City of San Diego
CO	carbon monoxide
County	County of San Diego
CUP	Conditional Use Permit
DPM	diesel particulate matter
ºF	Fahrenheit (degrees)
g/L	grams per liter
I-	Interstate
IEM	Iowa Environmental Mesonet
IOD	Irrevocable Offer of Dedication
LOS	level of service
mph	miles per hour
NAAQS	National Ambient Air Quality Standards
NO	nitrogen oxide
NO_X	oxides of nitrogen
NO_2	nitrogen dioxide
O_3	ozone

ACRONYMS AND ABBREVIATIONS (cont.)

Pb	lead
PM_{10}	respirable particulate matter with an aerodynamic diameter of 10 microns or less
$PM_{2.5}$	fine particulate matter with an aerodynamic diameter of 2.5 microns or less
ppm	parts per million
RAQS	Regional Air Quality Strategy
ROG	reactive organic gas
SANDAG	San Diego Association of Governments
SCAQMD	South Coast Air Quality Management District
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SDG&E	San Diego Gas & Electric
SIP	State Implementation Plan
SO_2	sulfur dioxide
SO_X	oxides of sulfur
T-BACT	Toxics Best Available Control Technology
TAC	Toxic Air Contaminant
USEPA	U.S. Environmental Protection Agency
VMT	vehicle miles traveled
VOC	volatile organic compound
WRCC	Western Regional Climate Center

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EXECUTIVE SUMMARY

This report presents an assessment of potential air quality impacts during construction and operation of the proposed 3Roots San Diego Project (Project), located in the central portion of the Mira Mesa Community Plan area the City of San Diego.

The Project would result in emissions of criteria air pollutants during construction and operation. Construction emission sources include fugitive dust, heavy construction equipment exhaust, and vehicle trips associated with workers commuting to and from the site and trucks hauling materials. In accordance with San Diego Air Pollution Control District (SDAPCD) Rule 55, fugitive dust control measures, including the use of an on-site water truck to water down active grading areas and unpaved and paved roads at least twice daily, are incorporated into the project design. Project emissions of criteria pollutants during construction would remain below SDAPCD emissions thresholds.

Operational sources of emissions include area (e.g., landscape equipment, architectural coatings, and consumer product use), on-site energy use, and transportation. A wide range of current regulatory codes, project design features, and other measures would be incorporated into future development including energy-efficiency features that would meet California Title 24 Energy Efficiency Standards. Based on the evaluation, most criteria pollutants emissions would be below screening thresholds and, therefore, less than significant. Emissions would exceed the screening-level thresholds for carbon monoxide (CO) and respirable particulate matter with an aerodynamic diameter of 10 microns or less (PM_{10}), and would result in potentially significant impacts for air quality. Implementation of Mitigation Measure AQ-1 would reduce CO operational emissions to a level of less than significant. Although the measure would also reduce PM_{10} area emissions, it would not do so below pounds per day thresholds. Additional dispersion modeling undertaken for PM_{10} demonstrated that local concentrations would not exceed the state or national AAQS established to protect human health. Therefore, direct and cumulative impacts with the implementation of Mitigation Measure AQ-1 would reduce impacts to less than significant.

The Project would be consistent with air quality policies set forth by the SDAPCD as presented in the most recent Regional Air Quality Strategies (RAQS), and would not substantially alter air movement patterns.

Project-generated traffic would not result in a carbon monoxide hot spot. Construction and operation of the Project would not result in exposure of sensitive receptors to significant quantities of toxic air contaminants (TACs). In addition, evaluation of potential odors from the Project indicated that associated impacts would be less than significant. Due to the Project replacing the industrial use included in the Carroll Canyon Master Plan for the project site with a recreational use, resulting impacts are expected to be less than previously anticipated.

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1.0 INTRODUCTION

1.1 PURPOSE OF THE REPORT

This report analyzes potential air quality impacts associated with the 3Roots San Diego Project (Project). The report analyzes the potential impacts and, as appropriate, identifies measures which can be taken to avoid adverse impacts related to air quality. The analysis follows the guidelines within the City of San Diego's (City) *California Environmental Quality Act* (CEQA) *Significance Determination Thresholds* (City 2016).

1.2 PROJECT LOCATION AND BACKGROUND

The 3Roots San Diego Project (Project) would be a mixed-use community located on 413 acres in the central portion of the Mira Mesa Community Plan area in the City of San Diego (City) (Figure 1, *Regional Location*). The project site is located east of Camino Santa Fe, approximately halfway between Mira Mesa Boulevard and Miramar Road (Figure 2, *Aerial Vicinity*). The property was formerly operated as a mining site (sand and gravel). The Project is the second phase of a multi-phased plan to convert reclaimed quarry land to planned development.

1.3 PROJECT DESCRIPTION

1.3.1 Development Concept and Summary

The Project includes a 40-acre mixed-use district defined in the Master Planned Development Permit as the "Community Collective," which would include 12.7 acres of multi-family residential (RM-3-9) and 12.7 acres of commercial uses, including the proposed Mobility Hub (CC-2-4), parks, open space, and roadways; 21.1 acres of single-family residential (RX-1-2); 63.2 acres of single- and multi-family residential (RM-2-6); all connected by 45.7 acres of on-site roads and parkways. The Project would also set aside nearly 256 acres of open space, including approximately 181.3 acres of natural open space, 38.7 acres of parks and trails, and approximately 37.5 acres of slopes, enhanced landscape, dedicated brush management zones, and water quality/retention basins (Figure 3, *Proposed Site Plan* and Table 1, *Land Use Summary*).

Table 1
LAND USE SUMMARY

Land Use	Project (acres)
Open Space	181.3
Slopes, Basins, Brush Management Zones, and Enhanced Landscape	37.5
Parks and Trails	38.7
Community Collective Commercial (CC-2-4)	12.7
Community Collective Residential (RM-3-9)	12.7
Residential (RM-2-6)	63.2
Residential (RX-1-2)	21.1
Roads and Parkways	45.7
(Approximate) TOTAL	**412.9***

* The Carroll Canyon Road extension west of Camino Santa Fe (through the Fenton Technology Park), which is a project component, mapped as part of the prior Fenton Technology Park project, includes 6.1 acres of disturbance and 4.6 acres of right-of-way dedication. These acres are not included in the above total.

1.3.2 CUP/Reclamation Plan Amendment

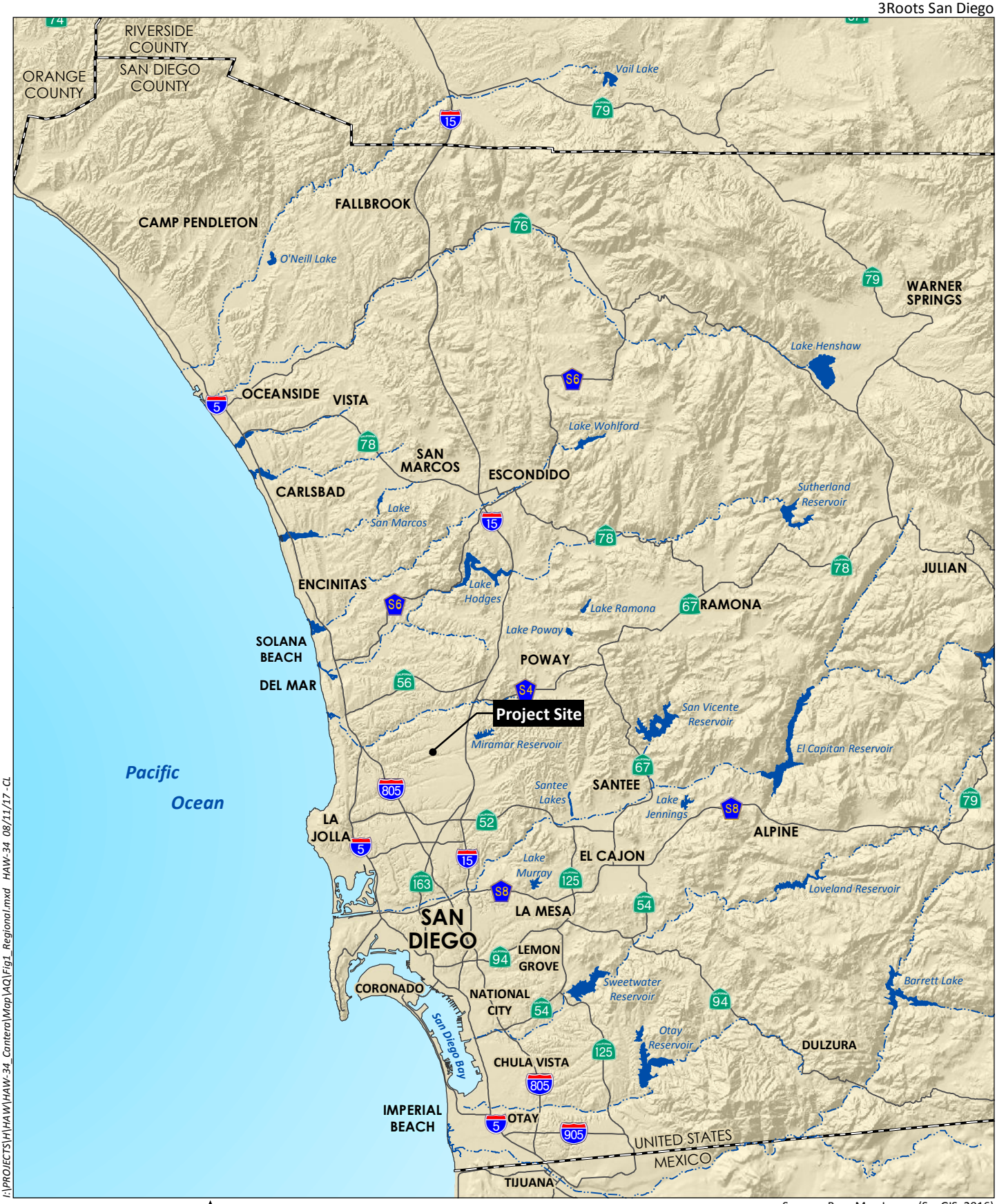
The project site has been an active aggregate mining operation and concrete processing plant since 1958. The City approved a CUP for all mining and processing activities. The CUP has been modified throughout the life of the mine to adjust the boundaries of the resource extraction area. The latest CUP was approved on September 13, 1990 (CUP 89-0585). The CUP and associated Reclamation Plan and Environmental Impact Report (EIR) identified required backfilling and re-contouring to stabilize the slopes and prepare land for future development and required the restoration and enhancement of native habitats, including Carroll Canyon Creek.

As active mining operations have ceased, the CUP for aggregate mining and processing is lapsing and will not be renewed. An amended Reclamation Plan is necessary to address changes in the site conditions and the redevelopment plans since 1990, and to complete regulatory closure of the mined lands. The amendment would modify the Reclamation Plan boundary, adjust grade elevations to align with the proposed development and revise the originally proposed road networks to match existing infrastructure and protect sensitive habitat.

1.3.3 SDG&E Facility Modifications

There are three SDG&E Facility Modifications (Figure 3-4, SDG&E Facility Modifications) required as a result of the Project and all three are therefore analyzed as part of the Project.

1. The existing overhead east-west double circuit 69-kV system (TL6906 and TL677) would be converted to underground and relocated along the north side of Carroll Canyon Road. The proposed conversion would tie-in on the west to the existing transmission alignment in the current SDG&E easement west at Camino Santa Fe via a steel cable pole on the northeast corner of the intersection of Camino Santa Fe and Carroll Canyon Road. On the east, the proposed conversion would rise overhead via steel cable poles south of the creek (east of the existing Fenton substation site), extend north overhead within the open space, and tie-in to the existing transmission alignment on new terminal dead-end steel poles that would continue overhead east in the current SDG&E easement.



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0 8 Miles

Source: Base Map Layers (SanGIS, 2016)

HELIX Environmental Planning

Regional Location

Figure 1

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0 2,000 Feet

Source: Aerial (SanGIS 2014)

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Aerial Vicinity

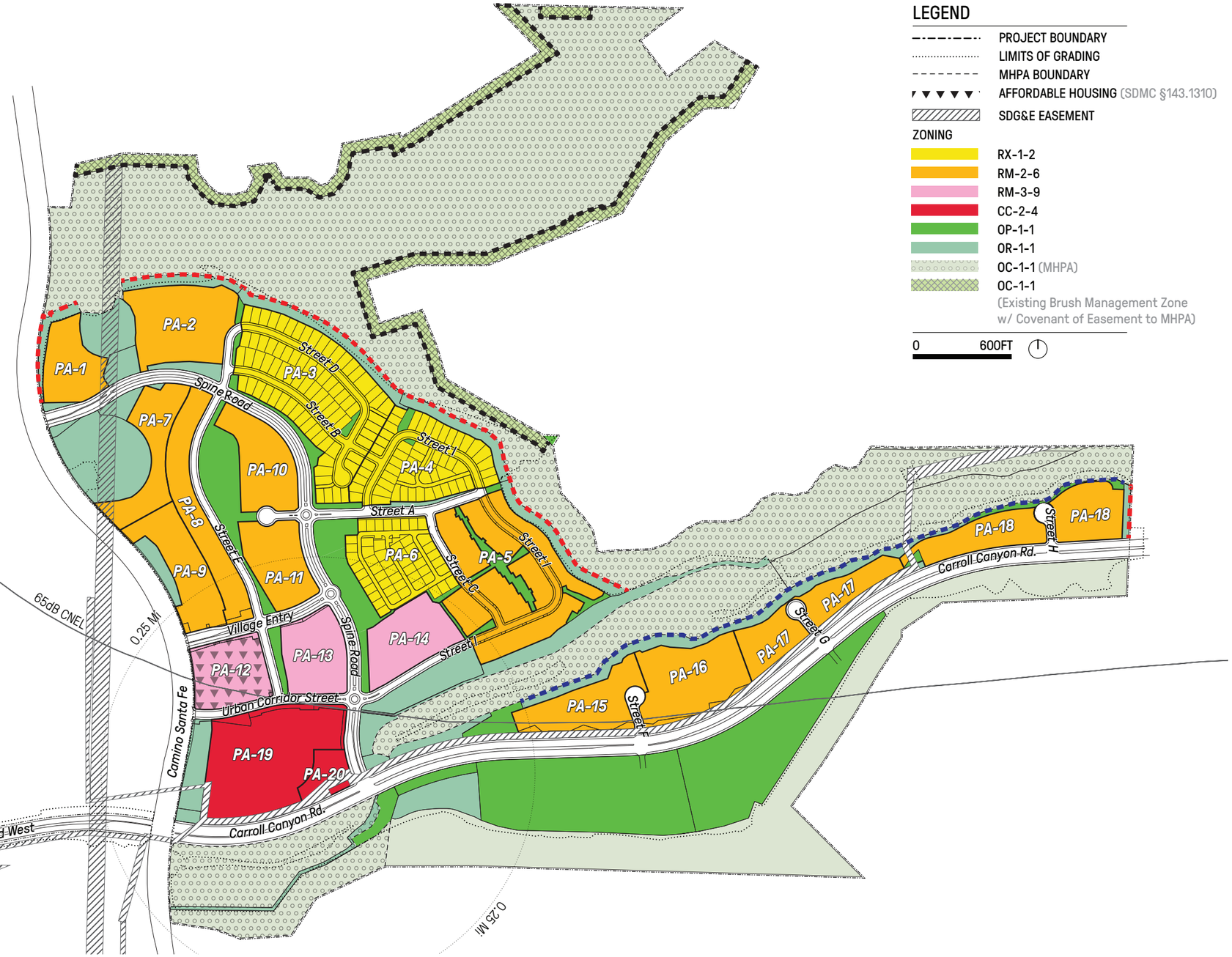
Figure 2

BMZ

EXISTING BMZ
Adjacent to offsite homes.
HOA maintained and owned. In MHPA.

PROPOSED BMZ 2
Adjacent to new proposed homes.
HOA maintained and owned. Outside MHPA.

PROPOSED BMZ 1
HOA maintained and owned. Outside MHPA.



LEGEND

PROJECT BOUNDARY
LIMITS OF GRADING
MHPA BOUNDARY
AFFORDABLE HOUSING (SDMC §143.1310)
SDG&E EASEMENT

ZONING

RX-1-2
RM-2-6
RM-3-9
CC-2-4
OP-1-1
OR-1-1
OC-1-1 (MHPA)
OC-1-1
(Existing Brush Management Zone
w/ Covenant of Easement to MHPA)

0 600FT

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Source: Placeworks 12/18

HELIX Environmental Planning

Proposed Site Plan

Figure 3

2. The existing overhead east-west single circuit 69-kV system (TL668) would be converted to underground and relocated along the north side of Carroll Canyon Road alongside the path of the double circuit 69-kV system configuration. The proposed conversion would tie-in on the west to an existing north-south transmission alignment along the west side of Camino Santa Fe via a cable pole on the southwest corner of the intersection of Camino Santa Fe and Carroll Canyon Road. On the east, the proposed conversion would rise overhead via steel cable poles south of the creek (east of the existing Fenton substation site), extend north overhead within the open space, and tie-in to the existing transmission alignment on new terminal dead-end steel poles that would continue overhead east in the current SDG&E easement. The existing overhead east-west single circuit 69-kV system (TL664) would be relocated to the south for approximately 900 feet and would be converted to underground along the south side of Carroll Canyon Road for approximately 400 feet. The proposed relocation will tie-in to the west to an existing north-south transmission alignment along Rehco Road (west of the existing 230-kV north-south corridor) in the current SDG&E transmission easement and tie-in to a north-south transmission alignment along the west of Camino Santa Fe.

   The existing overhead north-south double circuit 69-kV system (TL668 and TL664) along the west of Camino Santa Fe would remain overhead with an approximately 500-foot realignment to remove the pole near the creek. The proposed realignment will tie-in to the north at the aforementioned east-west conversion proposed steel cable pole on the southwest corner of Camino Santa Fe and Carroll Canyon Road intersection and tie-in to the south with a pole replacement on the hillside in the current SDG&E transmission easement. To distribute electric service to the Project, SDG&E would convert and relocate the existing overhead 12-kV system that is attached to the 69-kV pole line as described above and converted to underground into the Carroll Canyon Road ROW. Electric distribution lines ultimately would be located underground within future the project ROWs and designated electricity corridors.

   The existing SDG&E 69-kV/12-kV Fenton Substation located within the project site would be decommissioned and removed by SDG&E. This would occur after all current SDG&E customers that obtain electric service from this substation have been removed from service by SDG&E. The decommissioning would include removal of all equipment such as: three-phase transformer, regulator, steel structures, circuit breakers, capacitors, fencing, oil containment structures, pads, pylons/piers, conduit packages, cable, etc. The decommissioning and demolition of this substation is not part of the Reclamation Plan Amendment and a replacement substation is not proposed as part of the Project.

1.3.4 Residential Zoning

RX-1-2 (Planning Areas 3, 4, and 6)

The Project includes a total 185 single family lots zoned as RX-1-2, with homes ranging in size from 2,500 square feet to 3,600 square feet. Lot sizes would be a minimum of 3,000 square feet in these areas with a density of 5 to 10 dwelling units per acre. These single-family detached homes would range between two and three stories with the maximum height of 42 feet.

RM-2-6 (Planning Areas 1, 2, 5, 7-11, 15-18)

A total of 1,006 residential units are planned within the RM-2-6 as part of the Project. Units would include a mix of single-family detached and multi-family attached condos built on a common lot, that are two and three stories with a maximum height of 40 and 45 feet, respectively. As shown on Figure 3, many of the detached homes would be located on the periphery of the proposed community and the area to the north of Carroll Canyon Road across from the proposed community park. Most of the attached homes would be located in the central portion of the Project along the western edge of the development footprint adjacent to Camino Santa Fe.

RM-3-9 (Community Collective) (Planning Areas 12-14)

The Community Collective would include 609 multi-family units on 12.7 acres designated as RM-3-9 which allows for maximum densities up to 73 dwelling units per acre. The contemplated product would range between 25 and 65 dwelling units per acre. Buildings would range from three to five stories high, with a maximum height of 65 feet. Parking would be included as surface lots on grade or in a structure within the residential parcel. Planning Area 13 would include approximately 16,000 square feet of live-work and retail uses in the RM-3-9 product at the ground floor to activate the street character by introducing a commercial element.

1.3.5 Commercial Zones

CC-2-4 (Commercial Community)

Mobility Hub (Planning Area 20)

The Mobility Hub is proposed to be a centralized multi-modal node within the Project. It would provide pick-up and drop-off staging areas for both public transportation systems (future potential bus service) as well as private multimodal transportation options such as employer shuttles and rideshare services. A bike repair, rental, and maintenance shop would also be included. Solar and non-solar electric vehicle (EV) charging stations would be provided in the Mobility Hub as well.

Commercial and Office Uses (Planning Areas 19 and 13)

Adjacent to the Mobility Hub, the commercial uses would provide services and entertainment options connecting with the residential neighborhoods via a pedestrian trail system. The commercial area includes 160,000 square feet of retail and office (including the 16,000 square feet of live-work and retail uses described above in the RM-3-9 zone). Of that total, the Project includes 136,000 square feet of retail. Food and beverage offerings may include fast casual restaurants, quality dining, breweries, cafes, and on-site craft foods. Health and wellness components may include such options as pharmacy, on-site medical clinic, sports performance training, and boutique fitness studios. The 23,000-square foot office component may include a co-working concept and offer services such as shipping, printing, conference rooms, and tele-meeting options.

Pop-up Retail (Planning Area 19)

Pop-up retail uses, which are planned along the northern portion of Planning Area 19, may be approved through a Temporary Use Permit (SDMC Section 123.0401). Potential pop-up retail uses include commercial and retail uses permitted in the CC-2-4 zone, including food, beverages, and groceries;

sundries, pharmaceutical, and convenience sales; wearing apparel and accessories; and eating and drinking establishments. Pop-up retail is generally identified as temporary or permanent retail structures under 800 square feet, including shipping containers, retrofitted vehicles for commerce, open air market kiosks, and other similar structures. Planning Area 19 may also host farmers markets and food trucks, each of which would be subject to any necessary permits.

1.3.6 Parks and Trails

The Project would include a 25-acre community sports park as well as a collection of smaller neighborhood parks between 3 and 13 acres, mini parks ranging in size from approximately one to three acres, and pocket parks less than one acre, as well as a series of trails connecting the neighborhoods to the recreational amenities, open space, and Community Collective (Figure 3), for a total of 38.7 acres of parks and trails. The community sports park would be located immediately south of Carroll Canyon Road and would be used as a sports complex for the community of Mira Mesa. The community park would include lit soccer fields, baseball fields, restrooms, an indoor recreation facility, and a parking area with roughly 30 parking spaces per field, adhering to the City of San Diego Park and Recreation Design Guidelines. There would be night lighting associated with the use of the sports fields.

1.3.7 Open Space

Approximately 181 acres would be retained as natural open space (Figure 3) and included in the City's Multi-habitat Planning Area (MHPA), which establishes the preserve system of the Multiple Species Conservation Program. The Project proposes to restore, widen, and enhance the riparian areas and waterways along the entire length of Carroll Canyon Creek.

1.3.8 Circulation/Access

The Project would construct the on-site extension of Carroll Canyon Road, a main arterial facilitating a connection between Interstate 805 (I-805) and Interstate 15 (I-15)**.** The future on-site segment of Carroll Canyon Road would be a 6-lane Prime Arterial**.** As planned in the Mira Mesa Community Plan, Carroll Canyon Road is also proposed to extend off-site, west of Camino Santa Fe. This road segment is designed as a 4-lane Major and runs for approximately 2,017 linear feet, directly south of the existing Fenton Technology Center.

The main entry points to the project site would be from Camino Santa Fe and Carroll Canyon Road. A collector arterial roadway (Spine Road) would intersect with both Carroll Canyon Road and Camino Santa Fe and would run through the project site from north to south**.** Two streets, which would intersect with Camino Santa Fe, would primarily be used for access to the Community Collective and intersect with Spine Road to create a modified grid system of roadways through the Project. Several arterial roads would extend into the surrounding residential neighborhoods (Figure 3).

The Project would set aside a 25-foot-wide right-of-way through an Irrevocable Offer of Dedication (IOD) that could be used as a bus rapid transit (BRT) route along the segment of Carroll Canyon Road, which runs through the project site. In addition to the IOD for the BRT lane, the applicant would provide SANDAG with an IOD for an approximately 55-foot by 135-foot area to be used as a BRT stop. The Project would also include networks of sidewalks, pathways, plazas, public spaces, and bike lanes to facilitate pedestrian and bicycle circulation.

1.3.9 Construction Phasing

The Project would be constructed in two phases, as summarized in Table 2, *Construction Phasing*. Pending project approvals, Phase 1 could begin in August 2019 (and be completed in 2021) at the northern portion of the project site and would include the construction of residential development eastward from Camino Santa Fe (Planning Areas 1 through 14). Phase 2 is contingent upon receipt of regulatory approvals and is estimated to begin in February 2020. It would include the construction of residential development through the center of the project site and the commercial development in the Community Collective, including the completion of residential development to the proposed extension of Carroll Canyon Road (Planning Areas 15 through 20).

Table 2
CONSTRUCTION PHASING

Phase 1	Phase 2
Reclamation Phase 1	Reclamation Phase 2
Phase 1 grading and installation of backbone infrastructure	Remaining grading and infrastructure
185 Single-family Detached Units	Carroll Canyon Road
609 Apartments	Carroll Canyon Road West
250 Detached Condominiums	113 Detached Condominiums
393 Attached Condominiums	250 Attached Condominiums
16,000 square feet Retail/Live Work Commercial	Creek Restoration
11 acres of Parks (Pocket parks and neighborhood parks)	144,160 square feet Commercial
	Mobility Hub
	SDG&E Realignment
	27 acres of Community Park (including sports park)

1.4 SUSTAINABLE DESIGN FEATURES

The Project has been designed to promote sustainability. Buildings would feature cool roofs, energy-efficient appliances, energy-efficient light-emitting diode (LED) lighting, and drought-tolerant plantings. All single-family and multi-family residential units would include conduit to promote solar energy generation and battery storage, and most homes would be equipped with a fully functioning solar system. Homes would be situated on the site to maximize opportunities to walk and bike through the trail system. The Community Collective would be located immediately adjacent to the Phase I Fenton Technology Park to reduce vehicle miles traveled (VMT) by providing jobs and commercial uses near residential uses. The Mobility Hub would place public transportation as well as private mobility options in an accessible area for project residents. Changing/shower facilities would be provided in commercial buildings to facilitate bicycle commuting. The majority of the Project would be located within 0.5 mile of the Mobility Hub. Additional sustainable design features for the Project include:

- Over 8 miles of on-site trails
- Over 5 miles of on-site Green Streets
- One mile of creek restoration for Carrol Canyon Creek, including a 300-foot creek undercrossing
- Over 180 acres of dedicated open space

- Traffic-calming roundabouts
- On-site community EV charging stations
- Right-of-way dedication for a BRT bus lane and a future BRT
- LED street lights
- Access to clean air vehicles, buses, and shuttles
- Solar-powered art
- A Re-vegetation and Enhancement Planting Program
- Increased land use diversity (mixed-use)
- On-site affordable housing
- Mining Equipment and Construction Debris Recycle Programs

1.5 REGULATORY REQUIREMENTS AND PROJECT DESIGN FEATURES

1.5.1 Regulatory Requirements

1.5.1.1 Construction Measures

The Project would incorporate best management practices (BMPs) during construction to reduce emissions of fugitive dust. San Diego Air Pollution Control District (SDAPCD) Rule 55 – Fugitive Dust Control states that no dust and/or dirt shall leave the property line. SDAPCD Rule 55 requires the following:

(1) Airborne Dust Beyond the Property Line: No person shall engage in construction or demolition activity subject to this rule in a manner that discharges visible dust emissions into the atmosphere beyond the property line for a period or periods aggregating more than 3 minutes in any 60-minute period.

(2) Track-Out/Carry-Out: Visible roadway dust as a result of active operations, spillage from transport trucks, erosion, or track-out/carry-out shall:

(i) be minimized by the use of any of the following or equally effective trackout/carry out and erosion control measures that apply to future development or operation:

(a) track-out grates or gravel beds at each egress point,

(b) wheel-washing at each egress during muddy conditions, soil binders, chemical soil stabilizers, geotextiles, mulching, or seeding; and for outbound transport trucks;

(c) using secured tarps or cargo covering, watering, or treating of transported material; and

(ii) be removed at the conclusion of each work day when active operations cease, or every 24 hours for continuous operations. If a street sweeper is used to remove any trackout/ carry-out, only PM_{10}-efficient street sweepers certified to meet the most current South Coast Air Quality Management District (SCAQMD) Rule 1186 requirements shall be used.

The use of blowers for removal of track-out/carry out is prohibited under any circumstances.

On July 26, 2007, the CARB adopted a regulation to reduce diesel particulate matter (DPM) and NO_X emissions from in use (existing) off-road heavy-duty diesel vehicles in California (CARB 2007). Beginning January 1, 2014, CARB requires all off-road equipment greater than 25 horsepower to comply with the CARB Off-road Diesel Vehicle Regulations. Based on these regulations, it is estimated that the construction equipment used meet a Tier 3 engine standard.

1.5.1.2 Area Source Reductions

- Use of low-VOC coatings in accordance with, or exceeding, SDAPCD Rule 67
    - Residential interior coatings are to be less than or equal to 50 grams of volatile organic compound (VOC) per liter (g/L)
    - Residential exterior coatings are to be less than or equal to 100 g/L
    - Non-residential interior/exterior coatings are to be less than or equal to 100 g/L

1.5.1.3 Energy Efficiencies

- Future development will be designed to meet 2016 Title 24 energy efficiency standards

1.5.2 Project Design Features

1.5.2.1 Construction Best Management Practices

The control measures listed below are the BMPs that future development would incorporate for dust control:

- Contractor(s) will implement paving, chip sealing or chemical stabilization of internal roadways after completion of grading.
- Dirt storage piles will be stabilized by chemical binders, tarps, fencing or other erosion control.
- A 15-mile per hour (mph) speed limit will be enforced on unpaved surfaces.
- On dry days, dirt and debris spilled onto paved surfaces shall be swept up immediately to reduce resuspension of particulate matter caused by vehicle movement. Approach routes to construction sites shall be cleaned daily of construction-related dirt in dry weather.
- Haul trucks hauling dirt, sand, soil, or other loose materials will be covered or 2 feet of freeboard will be maintained.
- Disturbed areas shall be hydroseeded, landscaped, or developed as quickly as possible and as directed by the County of San Diego (County) and/or SDAPCD to reduce dust generation.
- Grading will be terminated if winds exceed 25 mph.

- Any blasting areas would be wetted down prior to initiating the blast.

- In accordance with California Green Building Standards Code (CALGreen) criteria, state, and local laws, at least 50 percent of on- site construction waste and ongoing operational waste would be diverted from landfills through reuse and recycling.

1.5.2.2 Transportation Demand Management Measures

The Project would implement Transportation Demand Management (TDM) measures to reduce the Project's overall impact on the transportation system and to provide reasonable and viable transportation options for those living, working, and visiting the project site. This includes the following measures as described in the California Air Pollution Control Officers Association (CAPCOA) *Quantifying Greenhouse Gas Mitigation Measures*:

- LUT-3 Increase Diversity (Mixed Use) – Having different types of land uses near one another can decrease VMT since trips between land use types are shorter and may be accommodated by non-auto modes of transport. The Project includes a mix of residential and non-residential land uses.

- LUT-5 Increased Transit Accessibility – Locating a project near transit would facilitate the use of transit by people traveling to or from the project site. The use of transit results in a mode shift and therefore reduced VMT. The project site is located less than one mile from San Diego Metropolitan Transit System Line 110 with stops at the intersection of Camino Santa Fe and Flanders Drive and headway times of approximately 20 to 30 minutes.

- LUT-6 Integrate Affordable and Below Market Rate Housing – Income has a statistically significant effect on the probability that a commuter will take transit or walk to work. The Project would provide 180 affordable housing units.

- SDT-1 Neighborhood/Site Enhancements – Providing a pedestrian access network to link areas of the project site encourages people to walk instead of drive. This mode shift results in people driving less and thus a reduction in VMT. The Project would provide a pedestrian access network that internally links all uses and connects to all existing or planned external streets and pedestrian facilities contiguous with the project site.

2.0 REGULATORY FRAMEWORK

2.1 CRITERIA AIR POLLUTANTS AND HEALTH EFFECTS

Criteria pollutants are defined by state and federal law as a risk to the health and welfare of the general public. In general, air pollutants include the following compounds:

- Ozone (O_3)
- Reactive organic gases (ROGs) or volatile organic compounds (VOCs)
- Carbon monoxide (CO)
- Nitrogen dioxide (NO_2)

- Respirable particulate matter and fine particulate matter (PM_{10} and $PM_{2.5}$)
- Sulfur dioxide (SO_2)
- Lead (Pb)

The following specific descriptions of health effects for each of the air pollutants potentially associated with project construction and operation are based on information provided by the California Air Resources Board (CARB 2009) and the U.S. Environmental Protection Agency (USEPA 2017a).

Ozone. Ozone is considered a photochemical oxidant, which is a chemical that is formed when VOCs and nitrogen oxides (NO_X), both by-products of fuel combustion, react in the presence of ultraviolet light. Ozone is considered a respiratory irritant and prolonged exposure can reduce lung function, aggravate asthma, and increase susceptibility to respiratory infections. Children and those with existing respiratory diseases are at greatest risk from exposure to ozone.

Reactive Organic Gases. ROGs (also known as VOCs) are compounds composed primarily of hydrogen and carbon atoms. Internal combustion associated with motor vehicle usage is the major source of ROGs. Other sources of ROGs include evaporative emissions from paints and solvents, the application of asphalt paving, and the use of household consumer products such as aerosols. Adverse effects on human health are not caused directly by ROGs, but rather by reactions of ROGs to form secondary pollutants such as ozone.

Carbon Monoxide. CO is a by-product of fuel combustion. CO is an odorless, colorless gas that affects red blood cells in the body by binding to hemoglobin and reducing the amount of oxygen that can be carried to the body's organs and tissues. CO can cause health effects to those with cardiovascular disease and can also affect mental alertness and vision.

Nitrogen Dioxide. NO_2 is also a by-product of fuel combustion and is formed both directly as a product of combustion and in the atmosphere through the reaction of nitrogen oxide (NO) with oxygen. NO_2 is a respiratory irritant and may affect those with existing respiratory illness, including asthma. NO_2 can also increase the risk of respiratory illness.

Respirable Particulate Matter and Fine Particulate Matter. Respirable particulate matter, or PM_{10}, refers to particulate matter with an aerodynamic diameter of 10 microns or less. Fine particulate matter, or $PM_{2.5}$, refers to particulate matter with an aerodynamic diameter of 2.5 microns or less. Particulate matter in these size ranges have been determined to have the potential to lodge in the lungs and contribute to respiratory problems. PM_{10} and $PM_{2.5}$ arise from a variety of sources, including road dust, diesel exhaust, fuel combustion, tire and brake wear, construction operations, and windblown dust. PM_{10} and $PM_{2.5}$ can increase susceptibility to respiratory infections and can aggravate existing respiratory diseases such as asthma and chronic bronchitis. $PM_{2.5}$ is considered to have the potential to lodge deeper in the lungs. Diesel particulate matter is classified a carcinogen by CARB.

Sulfur dioxide. SO_2 is a colorless, reactive gas that is produced from the burning of sulfur-containing fuels such as coal and oil and by other industrial processes. Generally, the highest concentrations of SO_2 are found near large industrial sources. SO_2 is a respiratory irritant that can cause narrowing of the airways leading to wheezing and shortness of breath. Long-term exposure to SO_2 can cause respiratory illness and aggravate existing cardiovascular disease.

Lead. Lead in the atmosphere occurs as particulate matter. With the phase-out of leaded gasoline, large manufacturing facilities are the sources of the largest amounts of lead emissions. Lead has the potential to cause gastrointestinal, central nervous system, kidney, and blood diseases upon prolonged exposure. Lead is also classified as a probable human carcinogen. Because emissions of lead are found only in projects that are permitted by the local air district, lead is not an air quality of concern for the Project.

Air quality is defined by ambient air concentrations of specific pollutants identified by the USEPA to be of concern with respect to health and welfare of the general public. The USEPA is responsible for enforcing the Federal Clean Air Act (CAA) of 1970 and its 1977 and 1990 Amendments. The CAA required the USEPA to establish National Ambient Air Quality Standards (NAAQS), which identify concentrations of pollutants in the ambient air below which no adverse effects on the public health and welfare are anticipated. In response, the USEPA established both primary and secondary standards for several criteria pollutants, which are introduced above. Table 3, *Ambient Air Quality Standards*, shows the federal and state ambient air quality standards for these pollutants.

The CAA allows states to adopt ambient air quality standards and other regulations provided they are at least as stringent as federal standards. The CARB has established the more stringent California Ambient Air Quality Standards (CAAQS) for the six criteria pollutants through the California Clean Air Act of 1988 (CCAA), and for additional pollutants, including sulfates, H_2S, vinyl chloride and visibility-reducing particles. Areas that do not meet the NAAQS or the CAAQS for a particular pollutant are considered to be "nonattainment areas" for that pollutant. On June 3, 2016, the San Diego Air Basin (SDAB) was classified as a moderate nonattainment area for the 8-hour NAAQS for ozone. Effective June 3, 2016, the USEPA determined that 11 areas, including the SDAB, failed to attain the 2008 Ozone NAAQS by the applicable attainment date of July 20, 2015 and, thus, are reclassified as "Moderate" for the 2008 Ozone NAAQS (CARB 2017a). The SDAB is an attainment area for the NAAQS for all other criteria pollutants including PM_{10} and $PM_{2.5}$. The SDAB is currently classified as a nonattainment area under the CAAQS for ozone, PM_{10}, and $PM_{2.5}$ (SDAPCD 2017).

Table 3
AMBIENT AIR QUALITY STANDARDS

Pollutant	Averaging Time	California Standards	Federal Standards	
			Primary[1]	Secondary[2]
O_3	1 Hour	0.09 ppm (180 µg/m^3)	–	–
	8 Hour	0.070 ppm (137 µg/m^3)	0.070 ppm (137 µg/m^3)	Same as Primary
PM_{10}	24 Hour	50 µg/m^3	150 µg/m^3	Same as Primary
	AAM	20 µg/m^3	–	Same as Primary
$PM_{2.5}$	24 Hour	–	35 µg/m^3	Same as Primary
	AAM	12 µg/m^3	12.0 µg/m^3	15.0 µg/m^3
CO	1 Hour	20 ppm (23 mg/m^3)	35 ppm (40 mg/m^3)	–
	8 Hour	9.0 ppm (10 mg/m^3)	9 ppm (10 mg/m^3)	–
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)	–	–
NO_2	1 Hour	0.18 ppm (339 µg/m^3)	0.100 ppm (188 µg/m^3)	–
	AAM	0.030 ppm (57 µg/m^3)	0.053 ppm (100 µg/m^3)	Same as Primary

Table 3 (cont.)
AMBIENT AIR QUALITY STANDARDS

Pollutant	Averaging Time	California Standards	Federal Standards	
			Primary[1]	Secondary[2]
SO_2	1 Hour	0.25 ppm (655 µg/m^3)	0.075 ppm (196 µg/m^3)	–
	3 Hour	–	–	0.5 ppm (1,300 µg/m^3)
	24 Hour	0.04 ppm (105 µg/m^3)	–	–
Lead	30-day Avg.	1.5 µg/m^3	–	–
	Calendar Quarter	–	1.5 µg/m^3	Same as Primary
	Rolling 3-month Avg.	–	0.15 µg/m^3	
Visibility Reducing Particles	8 Hour	Extinction coefficient of 0.23 per km – visibility ≥ 10 miles (0.07 per km – ≥30 miles for Lake Tahoe)	**No Federal Standards**	
Sulfates	24 Hour	25 µg/m^3		
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)		
Vinyl Chloride	24 Hour	0.01 ppm (26 µg/m^3)		

Source: CARB 2016

[1] National Primary Standards: The levels of air quality necessary, within an adequate margin of safety, to protect the public health.

[2] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

O_3: ozone; ppm: parts per million; µg/m^3: micrograms per cubic meter; PM_{10}: large particulate matter; AAM: Annual Arithmetic Mean; $PM_{2.5}$: fine particulate matter; CO: carbon monoxide; mg/m^3: milligrams per cubic meter; NO_2 nitrogen dioxide; SO_2: sulfur dioxide; km: kilometer; –: No Standard.

The CARB is the state regulatory agency with authority to enforce regulations to both achieve and maintain the NAAQS and CAAQS. The local air district has the primary responsibility for the development and implementation of rules and regulations designed to attain the NAAQS and CAAQS, as well as the permitting of new or modified sources, development of air quality management plans, and adoption and enforcement of air pollution regulations. The SDAPCD is the local agency responsible for the administration and enforcement of air quality regulations for the County.

The SDAPCD and 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 County Regional Air Quality Strategy (RAQS) was initially adopted in 1991 and is updated on a triennial basis. The most recent version of the RAQS was adopted by the SDAPCD in December 2016 (SDAPCD 2016). The local RAQS, in combination with those from all other California nonattainment areas with serious (or worse) air quality problems, is submitted to the CARB, which develops the California State Implementation Plan (SIP).

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, to project future emissions and then

determine from that the strategies necessary for the reduction of emissions through regulatory controls. The CARB mobile source emission projections and SANDAG growth projections are based on population and vehicle trends and land use plans developed by the cities and by the County as part of the development of their General Plans. While SANDAG collaborates with the SDAPCD on the development of the SIP, the SDAPCD is the lead agency. As such, SDAPCD is responsible for projecting all future mobile source emissions using EMFAC2014.

The SIP relies on the same information from SANDAG to develop emission inventories and emission reduction strategies that are included in the attainment demonstration for the air basin.

The current federal and state attainment status (Table 4, *Federal and State Air Quality Designations*) for the SDAB is as follows:

Table 4
FEDERAL AND STATE AIR QUALITY DESIGNATIONS

Criteria Pollutant	Federal Designation	State Designation
O_3 (1-hour)	(No federal standard)	Nonattainment
O_3 (8-hour)	Nonattainment	Nonattainment
CO	Attainment	Attainment
PM_{10}	Unclassifiable	Nonattainment
$PM_{2.5}$	Attainment	Nonattainment
NO_2	Attainment	Attainment
SO_2	Attainment	Attainment
Lead	Attainment	Attainment
Sulfates	(No federal standard)	Attainment
Hydrogen Sulfide	(No federal standard)	Unclassified
Visibility	(No federal standard)	Unclassified

Source: SDAPCD 2017

2.2 TOXIC AIR CONTAMINANTS

Toxic air contaminants (TACs) are a diverse group of air pollutants that may cause or contribute to an increase in deaths or in serious illness or that may pose a present or potential hazard to human health. TACs include both organic and inorganic chemical substances that may be emitted from a variety of common sources, including gasoline stations, motor vehicles, dry cleaners, industrial operations, painting operations, and research and teaching facilities. TACs are different than the criteria pollutants previously discussed because ambient air quality standards have not been established for TACs. TACs occurring at extremely low levels may still cause health effects, and it is typically difficult to identify levels of exposure that do not produce adverse health effects. TAC impacts are described by carcinogenic risk and by chronic (i.e., of long duration) and acute (i.e., severe but of short duration) adverse effects on human health.

The California Health and Safety Code (Section 39655, subd. (a)) defines a TAC as “an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health.” A substance that is listed as a hazardous air pollutant pursuant to subsection (b) of Section 112 of the Federal CAA (42 United States Code Section 7412[b]) is a TAC. Under State law, the California Environmental Protection Agency (CalEPA), acting through CARB, is authorized to identify a substance as a TAC if it determines the substance is an air pollutant that may cause or

contribute to an increase in mortality or an increase in serious illness, or that may pose a present or potential hazard to human health.

3.0 EXISTING CONDITIONS

3.1 CLIMATE AND METEOROLOGY

The climate in southern California, including the San Diego Air Basin (SDAB) in which the project site is located, is controlled largely by the strength and position of the subtropical high-pressure cell over the Pacific Ocean. Areas within 30 miles of the coast experience moderate temperatures and comfortable humidity. Precipitation is limited to a few storms during the winter season. The climate of the County is characterized by hot, dry summers, and mild, wet winters.

The predominant wind direction in the vicinity of project site is from the west and the average wind speed is approximately six mph (Iowa Environmental Mesonet [IEM] 2018). The annual average maximum temperature in the project area is approximately 67 degrees Fahrenheit (ºF), and the average annual minimum temperature is approximately 56ºF. Total precipitation in the project area averages approximately 10 inches annually. Precipitation occurs mostly during the winter and relatively infrequently during the summer (Western Regional Climate Center [WRCC] 2017).

Due to its climate, the SDAB experiences frequent temperature inversions (temperature increases as altitude increases, which is the opposite of general patterns). Temperature inversions prevent air close to the ground from mixing with the air above it. As a result, air pollutants are trapped near the ground. During the summer, air quality problems are created due to the interaction between the ocean surface and the lower layer of the atmosphere, creating a moist marine layer. An upper layer of warm air mass forms over the cool marine layer, preventing air pollutants from dispersing upward. Additionally, hydrocarbons and NO_2 react under strong sunlight, creating smog. Light, daytime winds, predominantly from the west, further aggravate the condition by driving the air pollutants inland, toward the foothills. During the fall and winter, air quality problems are created due to CO and NO_2 emissions. High NO_2 levels usually occur during autumn or winter, on days with summer-like conditions.

3.2 EXISTING AIR QUALITY

3.2.1 Attainment Designations

Attainment designations are discussed in Section 2.1 and Table 4. The SDAB is a federal and state nonattainment area for ozone. The SDAB is also a state nonattainment area for PM_{10} and $PM_{2.5}$. The SDAB is an attainment area for all other criteria pollutants.

3.2.2 Monitored Air Quality

The SDAPCD operates a network of ambient air monitoring stations throughout the County. The purpose of the monitoring stations is to measure ambient concentrations of the pollutants and determine whether the ambient air quality meets the CAAQS and the NAAQS. The nearest ambient monitoring station to the project site is the San Diego – Kearny Villa Road monitoring station located at 6125 Kearny Villa Road. Air quality data are shown on Table 5, *Air Quality Monitoring Data*.

Monitoring data at the San Diego – Kearny Villa Road station shows acceptable levels of the criteria air pollutants NO_2, PM_{10}, and $PM_{2.5}$ for 2015 to 2017. Violations of the state and federal 8-hour standards for ozone occurred in 2016 and 2017. The state 1-hour ozone standard was exceeded twice in 2017.

Table 5
AIR QUALITY MONITORING DATA

Pollutant Standards	2015	2016	2017
Ozone (O_3)			
Maximum concentration 1-hour period (ppm)	0.077	0.087	0.097
Maximum concentration 8-hour period (ppm)	0.070	0.075	0.083
Days above 1-hour state standard (>0.09 ppm)	0	0	2
Days above 8-hour state/federal standard (>0.070 ppm)	0	3	6
Nitrogen Dioxide (NO_2)			
Maximum 1-hour concentration (ppm)	0.051	0.053	0.054
Days above state 1-hour standard (0.18 ppm)	0	0	0
Days above federal 1-hour standard (0.100 ppm)	0	0	0
Suspended Particulates (PM_{10})			
Maximum 24-hour concentration (µg/m^3)	39.0	36.0	46.0
Days above state standard (>50 µg/m^3)	0	0	0
Days above federal standard (>150 µg/m^3)	0	0	0
Annual concentration (µg/m^3)	16.7	*	17.6
Exceed state standard (20 µg/m^3)?	No	No	No
Suspended Particulates ($PM_{2.5}$)			
Maximum 24-hour concentration (µg/m^3)	25.7	20.3	27.5
Days above federal standard (>35 µg/m^3)	0	0	0

Source: CARB 2017b
ppm = parts per million; µg/m^3 = micrograms per cubic meter; * = insufficient data

4.0 METHODOLOGY AND SIGNIFICANCE CRITERIA

4.1 METHODOLOGY

Criteria pollutant emissions were calculated using the California Emissions Estimator Model (CalEEMod), Version 2016.3.2. CalEEMod is a computer model used to estimate criteria air pollutant emissions resulting from construction and operation of land development projects throughout the state of California. CalEEMod was developed by the SCAMQD with the input of several air quality management and pollution control districts. The input data and subsequent construction and operation emission estimates for the Project are discussed below. CalEEMod output files are included in Appendix A.

4.1.1 Construction Emissions

As described above, construction emissions are assessed using the CalEEMod. CalEEMod contains OFFROAD2011 emission factors and EMFAC2014 emission factors from CARB's models for off-road equipment and on-road vehicles, respectively. The construction analysis included modeling of the projected construction equipment that would be used during each construction activity and quantities

of earth and debris to be moved. The model calculates emissions of CO, PM_{10}, $PM_{2.5}$, SO_2, and the ozone precursors VOC and NO_X. Emissions associated with construction of the Project were calculated using the USEPA's Tier 3 emission standards for off-road engines and CARB's OFFROAD equipment horsepower ratings and load factors.

Construction input data for CalEEMod include, but are not limited to, (1) the anticipated start and finish dates of construction activity; (2) inventories of construction equipment to be used; (3) areas to be excavated and graded; and (4) volumes of materials to be exported from and imported to the project area. The analysis assessed maximum daily emissions from individual construction activities, including site preparation, grading, building construction, paving, and architectural coating.

Construction would require heavy equipment during site preparation, grading, building construction, and paving. Construction equipment estimates are based on detailed assumptions provided by JT Kruer & Company. Table 6, *Construction Equipment Assumptions*, presents a summary of the assumed equipment that would be involved in each stage of construction.

Table 6
CONSTRUCTION EQUIPMENT ASSUMPTIONS

Construction Phase	Equipment	Number
Phase I		
Clear and Grub	Cat D-8T Dozer	4
	Cat 966M Loader	2
Mass Excavation	Cat 657G Motor Scraper	8
	Cat D-8T Dozer	3
	Cat 834K Rubber Tire Dozer	2
	Cat 12M3 Blade (Motor Grader)	1
Finish Grading	Cat D-8T Dozer	2
	Cat 12M3 Blade (Motor Grader)	4
Wet Utilities	Cat 330F Excavator	4
	Cat 930M Loader	4
	Cat 414E Skip Loader	4
Building Construction	Cranes	1
	Forklifts	3
	Generator Set	1
	Cat 430F2 Backhoe	3
	Welder	1
Architectural Coatings	Air Compressor	1
Frontage and Intersection Improvements	Cat 12M3 Blade (Motor Grader)	2
	Cat 623K Scraper	2
	Cat 414E Skip Loader	1
	Cat CB7 Solid Drum Vibratory Roller	1
	Cat AP655F Paving Machine	1
	Gomaco 3300 Curb Machine	1
Dry Utilities	Cat 430F2 Backhoe	4
	Cat 930M Loader	4

Table 6 (cont.)
CONSTRUCTION EQUIPMENT ASSUMPTIONS

Construction Phase	Equipment	Number
Phase I		
Street Improvements	Cat 12M3 Blade (Motor Grader)	4
	Cat 623K Scraper	4
	Cat 414E Skip Loader	4
	Cat CB7 Solid Drum Vibratory Roller	4
	Gomaco 3300 Curb Machine	2
	Cat AP655F Paving Machine	2
Phase II		
Clear and Grub	Cat D-8T Dozer	4
	Cat 966M Loader	2
Mass Excavation	Cat 657G Motor Scraper	8
	Cat 773G Rock Truck	3
	Cat 834K Rubber Tire Dozer	2
	Cat 12M3 Blade (Motor Grader)	1
Finish Grading	Cat D-8T Dozer	2
	Cat 12M3 Blade (Motor Grader)	4
Creek Improvements	Cat 390F Excavator	2
	Cat 986K Loader	1
	Cat D8T Dozer	1
	Grove RT 600E Rough Terrain Hydraulic Crane	1
Wet Utilities	Cat 330F Excavator	4
	Cat 930M Loader	4
	Cat 414E Skip Loader	4
Dry Utilities	Cat 430F2 Backhoe	4
	Cat 930M Loader	4
Street Improvements	Cat 12M3 Blade (Motor Grader)	2
	Cat 623K Scraper	2
	Cat 414E Skip Loader	1
	Cat CB7 Solid Drum Vibratory Roller	1
	Gomaco 3300 Curb Machine	1
	Cat AP655F Paving Machine	1
Off-Site Carroll Canyon Road	Cat 12M3 Blade (Motor Grader)	2
	Cat 623K Scraper	2
	Cat 414E Skip Loader	1
	Cat CB7 Solid Drum Vibratory Roller	1
	Cat AP655F Paving Machine	1
	Gomaco 3300 Curb Machine	1
	Cat 966G Loader	1
	Cat 834B Rubber Tire Dozer	1
	Cat 14G Blade (Motor Grader)	1
Building Construction	Cranes	1
	Forklifts	3
	Generator Set	1
	Cat 430F2 Backhoe	3
	Welder	1
Architectural Coatings	Air Compressor	1

Source: CalEEMod defaults and JT Kruer & Co.
Note: Output data, including equipment horsepower, is provided in Appendix A.

The construction schedule was based on information provided by JT Kruer & Company. As shown in Table 7, *Anticipated Construction Schedule*, the Project would be constructed in two phases. Phase I was assumed to begin in August 2019 and Phase II in February 2020.

Table 7
ANTICIPATED CONSTRUCTION SCHEDULE

Construction Activity	Construction Period		
	Start	End	Number of Working Days
Phase I			
Clear and Grub	8/5/2019	8/21/2019	13
Mass Excavation	8/22/2019	10/7/2019	33
Finish Grading	10/8/2019	12/23/2019	55
Wet Utilities	10/8/2019	12/22/2020	316
Building Construction	4/1/2020	12/31/2021	458
Architectural Coatings	5/1/2020	12/31/2021	436
Frontage and Intersection Improvements	8/26/2020	2/9/2021	120
Dry Utilities	12/11/2020	5/17/2021	122
Street Improvements	4/14/2021	8/20/2021	93
Phase II			
Clear and Grub	2/4/2020	2/18/2020	11
Mass Excavation	2/19/2020	4/28/2020	50
Finish Grading	4/29/2020	7/17/2020	58
Creek Improvements	4/29/2020	11/5/2020	137
Wet Utilities	5/11/2020	2/9/2021	197
Dry Utilities	11/12/2020	4/23/2021	117
Street Improvements	4/8/2021	8/19/2021	96
Off-Site Carroll Canyon Road	7/13/2021	10/1/2021	59
Building Construction	4/1/2022	7/31/2023	347
Architectural Coatings	5/1/2022	7/31/2023	326

Source: JT Kruer & Co.
Note: Output data is provided in Appendix A.

The quantity, duration, and the intensity of construction activity influence the amount of construction emissions and their related pollutant concentrations that occur at any one time. As such, the emission forecasts provided herein reflect a specific set of conservative assumptions based on the expected construction scenario wherein a relatively large amount of construction is occurring in a relatively intensive manner. Because of this conservative assumption, actual emissions could be less than those forecasted. If construction is delayed or occurs over a longer time period, emissions could be reduced because of (1) a more modern and cleaner-burning construction equipment fleet mix than incorporated in the CalEEMod, and/or (2) a less intensive buildout schedule (i.e., fewer daily emissions occurring over a longer time interval). A complete listing of the assumptions used in the analysis and model output is provided in Appendix A of this report.

CalEEMod has the capability to calculate reductions in construction emissions from the effects of dust control, diesel-engine classifications, and other selected emissions reduction measures. Construction emission calculations presented herein assume the implementation of standard dust control measures listed in Section 1.5, including watering two times daily during grading, ensuring that all exposed

surfaces maintain a minimum soil moisture of 12 percent, and limiting vehicle speeds on unpaved roads to 15 mph.

The Project would also conform to the VOC limits included in SDAPCD Rule 67 (as described in Section 1.6). According to Rule 67, residential interior coatings must have a VOC content less than or equal to 50 g/L and residential exterior coatings must have a content less than or equal to 100 g/L. The quantities of coatings that would be applied to the interior and exterior of the new buildings were estimated according to CalEEMod default assumptions.

4.1.2 Operational Emissions

Operational impacts were estimated using CalEEMod. Operational sources of emissions include area, energy, and transportation. Operational emissions from area sources include the use of consumer products, engine emissions from landscape maintenance equipment, and VOC emissions from repainting of buildings.

Operational emissions from mobile source emissions are associated with Project-related vehicle trip generation and trip length. Based on the Transportation Impact Analysis (TIA; Michael Baker International [MBI] 2019), the Project would generate 11,788 average daily trips (ADTs) and 34.5 million vehicle miles traveled (VMT) upon buildout of Phase I and a total of 26,213 ADT and 64 million VMT upon full buildout of Phase II. CalEEMod default vehicle speeds, trip purpose, and distance were used. Model output data sheets are included in Appendix A.

Operational emission estimates with project design features take into account energy efficiency in accordance 2016 Title 24 standards.

4.2 GUIDELINES FOR THE DETERMINATION OF SIGNIFICANCE

The City (2016) has approved guidelines for determining significance based on Appendix G.III of the State CEQA Guidelines, which provide guidance that a project would have a significant environmental impact if it would:

1. Conflict with or obstruct the implementation of the San Diego RAQS or applicable portions of the SIP;

2. Result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation;

3. Result in a cumulatively considerable net increase for which the SDAB is in non-attainment of NAAQS or CAAQS;

4. Expose sensitive receptors (including, but not limited to, residences, schools, hospitals, resident care facilities, or day-care centers) to substantial pollutant concentrations;

5. Create objectionable odors affecting a substantial number of people.

As stated in Appendix G of the CEQA Guidelines, “significance criteria established by the applicable air quality management or air pollution control district may be relied upon.” The City’s air quality significance determination thresholds are established by the SDAPCD. The SDAPCD sets forth

quantitative emission thresholds for stationary sources. Project-related air quality impacts would be considered significant if any of the applicable significance thresholds presented herein are exceeded. In the absence of a SDAPCD adopted threshold for $PM_{2.5}$, the SCAQMD's screening threshold of 55 pounds per day or 10 tons per year is being applied to this analysis.

For CEQA purposes, these screening criteria can be used as numeric methods to demonstrate that a project's total emissions would not result in a significant impact to air quality. The screening thresholds are included in Table 8, *Screening-Level Thresholds for Air Quality Impact Analysis*. If sensitive receptors are involved, or if the potential exists for a significantly cumulative air quality impact, the more restrictive AAQS thresholds shall be used to determine significance.

Table 8
SCREENING-LEVEL THRESHOLDS FOR AIR QUALITY IMPACT ANALYSIS

Pollutant	Total Emissions		
Construction Emissions (Pounds/Day)			
Respirable Particulate Matter (PM_{10})	100		
Fine Particulate Matter ($PM_{2.5}$)	55		
Oxides of Nitrogen (NO_X)	250		
Oxides of Sulfur (SO_X)	250		
Carbon Monoxide (CO)	550		
Volatile Organic Compounds (VOCs)	137		
Operational Emissions			
	Pounds/Hour	**Pounds/Day**	**Tons/Year**
Respirable Particulate Matter (PM_{10})	---	100	15
Fine Particulate Matter ($PM_{2.5}$)	---	55	10
Oxides of Nitrogen (NO_X)	25	250	40
Oxides of Sulfur (SO_X)	25	250	40
Carbon Monoxide (CO)	100	550	100
Lead and Lead Compounds	---	3.2	0.6
Volatile Organic Compounds (VOCs)	---	137	15
Toxic Air Contaminant Emissions			
Excess Cancer Risk	1 in 1 million 10 in 1 million with T-BACT		
Non-Cancer Hazard	1.0		

Source: City of San Diego 2016
T-BACT = Toxics-Best Available Control Technology

Per the City's Significance Determination Thresholds, determining the significance of potential odor impacts should be based on what is known about the quantity of the odor compound(s) that would result from the project's proposed use(s), the types of neighboring uses potentially affected, the distance(s) between the project's point source(s) and the neighboring uses such as sensitive receptors, and the resultant concentrations at receptors.

5.0 PROJECT IMPACTS

5.1 CONFORMANCE TO THE REGIONAL AIR QUALITY STRATEGY

5.1.1 Impacts

The RAQS outlines SDAPCD's plans and control measures designed to attain the CAAQS for ozone. In addition, the SDAPCD relies on the SIP, which includes the SDAPCD's plans and control measures for attaining the ozone NAAQS. These plans accommodate emissions from all sources, including natural sources, through implementation of control measures, where feasible, on stationary sources to attain the standards. Mobile sources are regulated by the CalEPA and the CARB, and the emissions and reduction strategies related to mobile sources are considered in the RAQS and SIP.

The RAQS relies on information from CARB and SANDAG, including projected growth in the region, mobile, area and all other source emissions in order to project future emissions and determine from that the strategies necessary for the reduction of stationary source emissions through regulatory controls. The CARB mobile source emission projections and SANDAG growth projections are based on population and vehicle trends, and land use plans developed by the cities and by the County. As such, projects that propose development that is consistent with the growth anticipated by local community or general plans would be consistent with the RAQS. In the event that a project proposes development which is less dense than anticipated within the local plan, the project would likewise be consistent with the RAQS. If a project proposes development that is greater than that anticipated in the local plan and SANDAG's growth projections upon which the RAQS is based, the project would be in conflict with the RAQS and SIP, and might have a potentially significant impact on air quality. This situation would warrant further analysis to determine if the proposed project and the surrounding projects exceed the growth projections used in the RAQS for the specific subregional area.

Because the analysis of consistency with the applicable air quality management plan is based on planned land uses, the proposed land uses are the focus of this analysis. As the CUP/Reclamation Plan Amendment and SDG&E facility modifications would not alter the land use of the site, they are not further discussed in this subsection.

In 1994, the project site and adjacent lands, totaling 554 acres, were the subject of the Carroll Canyon Master Plan (CCMP), which defined suitable land uses, design guidelines, development standards, and an implementation program for the development of the project site upon completion of mining operations. The CCMP established a framework that the City and property owners could use to anticipate subsequent industrial, commercial, and residential uses and capacities for the project site Land uses approved for the project site under the CCMP included a 40-acre mixed-use commercial core area including a mobility hub, 1,800 residential units, and 52 acres of industrial uses.

Consistent with the CCMP, the Project would include a maximum of 1,800 residential units, an on-site Mobility Hub adjacent to the intersection of Camino Santa Fe and Carroll Canyon Road, and local-serving retail and office uses. While the residential uses proposed in the CCMP were limited to medium and medium-high density units, by expanding the residential footprint, the Project would include more units in the mixed-use area and reduce densities to medium-low along the periphery of the development area, allowing for a variety of product types providing diverse housing opportunities to different life stages.

The Project would replace the industrial areas planned in the CCMP for the southern portion of the site with a 25-acre community sports park and expanded land area for residential uses. The community sports park and the multiple parks spread throughout the plan would offer approximately 39 acres of active and passive parkland. By maintaining the total number of residential dwelling units included in the CCMP and eliminating the industrial area, the Project proposes development that would result in 3,964 fewer daily trips (MBI 2019), would be less dense than anticipated within the local plan, and would not exceed the assumptions in the RAQS. To further demonstrate the Project would not exceed the assumptions in the RAQS, an emissions comparison has been completed following the methods described in Section 4.1.2. Emissions from the proposed park were subtracted from the emissions associated with maximum allowable industrial development to estimate the net emissions allowed under the land uses identified for the 52-acre industrial area in the 1994 CCMP. The net emissions from the 52-acre industrial area were then added to the Project's emissions to determine the total emissions associated with the land uses allowed under the 1994 CCMP (Table 9, *Maximum Daily Operational Emissions Comparison*).

Table 9
MAXIMUM DAILY OPERATIONAL EMISSIONS COMPARISON

Category	Pollutant Emissions (pounds per day)					
	VOC	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Allowed Industrial	159	233	613	2	169	1.6
Proposed Park	2	9	23	<0.5	6	2
Net Emissions	156	224	590	2	163	46
Proposed Project	99	153	571	2	139	39
Project under 1994 CCMP	252	376	1,161	3	302	85
Screening-Level Thresholds	137	250	550	250	100	55
Significant Impact?						
Proposed Project	No	No	Yes	No	Yes	No
Project under 1994 CCMP	Yes	Yes	Yes	No	Yes	Yes

Source: CalEEMod (output data is provided in Appendix A)
Note: Total is the sum of the unrounded values.

As shown in Table 9, due to the replacement of the industrial area with a park, land uses planned under the Project would result in criteria pollutant emissions substantially lower than the land uses allowed under the approved 1994 CCMP. Therefore, the Project would be consistent with the RAQS.

5.1.2 Significance of Impacts

The Project would not conflict with regional air quality plans and impacts would be less than significant.

5.1.3 Mitigation Measures

Mitigation measures would not be required.

5.1.4 Significance After Mitigation

Impacts associated with conformance to regional air quality plans would be less than significant.

5.2 CONFORMANCE TO FEDERAL AND STATE AMBIENT AIR QUALITY STANDARDS

5.2.1 Impacts

The baseline for analysis is the completion of the existing Reclamation Plan, with no corresponding emissions. To provide a conservative analysis of potential construction period emissions, earthwork associated with all elements of project development are included in the construction emissions modeling described below. Because impacts related to the CUP/Reclamation Plan Amendment, which would be short-term, are covered under the construction analysis, and because operation of the SDG&E facility modifications would not generate emissions, the analysis for the Project's operational impacts focuses on the Master Planned Development Permit.

The Project would generate criteria pollutants in the short term during construction and the long term during operation. To determine whether a project would result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation, a project's emissions are evaluated based on the quantitative emission thresholds shown in Table 8.

5.2.1.1 Construction

Construction of the Project would result in a temporary addition of pollutants to the local airshed caused by soil disturbance, fugitive dust emissions, and combustion pollutants from on-site construction equipment, as well as from off-site trucks hauling construction materials, debris, refuse, and/or soil. 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.

The Project's construction emissions were estimated using the CalEEMod model as described in Section 4.1.1. Project-specific input was based on general information provided in Section 1.0, assumptions provided by the Project Applicant, and default model settings to estimate reasonably conservative conditions. Additional details of phasing, selection of construction equipment, and other input parameters, including CalEEMod data, are included in Appendix A and summarized in Section 4.1.1.

The results of the calculations for project construction are shown in Table 10, *Maximum Daily Construction Emissions*. The data are presented as the maximum anticipated daily emissions for comparison with the SDAPCD thresholds.

Table 10
MAXIMUM DAILY CONSTRUCTION EMISSIONS

Phase	Pollutant Emissions (pounds/day)					
	VOC	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Phase 1						
2019	4	80	91	<0.5	14	7
2020	43	113	148	<0.5	15	7
2021	42	103	133	<0.5	17	7
Maximum Daily Emissions – Phase I	43	113	148	<0.5	17	7
Phase 2						
2020	5	88	99	<0.5	13	7
2021	2	53	60	<0.5	5	3
2022	63	41	46	<0.5	10	3
2023	62	36	44	<0.5	10	3
Maximum Daily Emissions – Phase II	63	88	99	<0.5	13	7
Maximum Daily Emissions[1]	**63**	**201**	**247**	**<0.5**	**28**	**14**
Screening-Level Thresholds	*137*	*250*	*550*	*250*	*100*	*55*
Significant Impact?	***No***	***No***	***No***	***No***	***No***	***No***

Source: CalEEMod (output data is provided in Appendix A)

[1] Maximum daily emissions of NO_X, CO, SO_2, PM_{10}, and $PM_{2.5}$ occur in 2020 when Phase 1 and Phase 2 construction activities occur concurrently.

Note: Totals may not sum due to rounding.

As shown in Table 10, emissions of all criteria pollutants related to project construction would be below the SDAPCD significance thresholds. Project construction would not cause a violation of any air quality standard, contribute substantially to an existing or projected air quality violation, or exceed the particulate matter threshold. Therefore, direct impacts from criteria pollutants generated during construction would be less than significant.

5.2.1.2 Concurrent Construction and Operation

Due to the anticipated phasing, it is possible that occupation of Phase 1 may occur concurrently with construction of Phase 2. Table 11, *Concurrent Operational and Construction Emissions*, shows the maximum daily emissions from this potential overlap.

Table 11
CONCURRENT OPERATIONAL AND CONSTRUCTION EMISSIONS

Category	Pollutant Emissions (pounds per day)					
	VOC	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Phase II Construction (2022-2023)	63	41	46	<0.5	10	3
Phase I Operation (2022)	66	90	351	1	75	21
Total Daily Emissions	**129**	**131**	**397**	**1**	**85**	**24**
Screening-Level Thresholds	*137*	*250*	*550*	*250*	*100*	*55*
Significant Impact?	***No***	***No***	***No***	***No***	***No***	***No***

Source: CalEEMod (output data is provided in Appendix A)

The combined Phase 2 construction and Phase 1 operational emissions would be below the significance threshold for all criteria pollutants. The CalEEMod model outputs are presented in Appendix A.

5.2.1.3 Full Project Operation

The Project's operational emissions were estimated using the CalEEMod model as described in Section 4.1.2. The CalEEMod model input was based on the current vehicle trip generation provided in the Project's TIA (MIB 2018) and the building area. Operational emission calculations and model outputs are provided in Appendix A. Table 12, *Maximum Daily Operational Emissions*, presents the summary of operational emissions for the Project.

Table 12
MAXIMUM DAILY OPERATIONAL EMISSIONS

Category	Pollutant Emissions (pounds per day)					
	VOC	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Area	61	2	149	<0.5	1	1
Energy	1	11	6	<0.5	1	1
Mobile	37	140	416	1	137	37
Total Daily Emissions	**99**	**153**	**571**	**2**	**139**	**39**
Screening-Level Thresholds	*137*	*250*	*550*	*250*	*100*	*55*
Significant Impact?	***No***	***No***	***Yes***	***No***	***Yes***	***No***

Source: CalEEMod (output data is provided in Appendix A)
Note: Total is the sum of the unrounded values.

As shown in Table 12, project emissions of CO and PM_{10} during operation would exceed the daily thresholds set by the City. Operation of the Project would at full buildout would, therefore, cause a potentially significant impact on air quality.

5.2.2 Significance of Impacts

As shown in Table 12, project emissions of CO and PM_{10} during operation would exceed the daily thresholds set by the City. Operation of the Project would therefore cause a potentially significant impact on air quality.

5.2.3 Mitigation Framework

The following mitigation measure would reduce potential impacts of buildout of the Project on State and federal air quality standards.

AQ-1 Use of electrically powered landscape equipment. Electric receptacles/outlets shall be installed at the exterior of all single-family units, all multi-family buildings (including those with affordable units), and all common area buildings, so that homeowners and landscape contractors hired by the homeowners' association may utilize electrically powered lawnmowers, leaf blowers, and chainsaws. Project plans shall include: (1) all necessary receptacles/outlets; and (2) a note that states "All landscape maintenance contracts provided by the applicable homeowners association must require that landscape contractors use electrically powered lawn mowers, leaf blowers, and chain saws." City staff must verify both requirements prior to approval of the final plans.

5.2.4 Significance After Mitigation

Electric lawn equipment including lawn mowers, leaf blowers, and chain saws are available. When electric landscape equipment is used in place of a conventional gas-powered equipment, direct emissions from fossil fuel combustion are eliminated. Implementation of Measure AQ–1 would result in an average reduction of area source related CO emissions by 24 percent (from 149 pounds per day to 113 pounds per day) and particulate emissions (PM_{10} and $PM_{2.5}$) by 25 percent (less than 1). As shown in Table 13, *Maximum Daily Operational Emissions with Mitigation*, with implementation of mitigation measure AQ–1, CO and PM_{10} emissions would be reduced, but only CO emissions would be reduced to a level below the respective threshold; PM_{10} emissions would remain above its threshold. In addition, VOC, NO_X, SO_X, and $PM_{2.5}$ emissions would be further reduced from their previous less than significant levels.

Table 13
MAXIMUM DAILY OPERATIONAL EMISSIONS WITH MITIGATION

Category	Pollutant Emissions (pounds per day)					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Area	59	1	113	<0.5	1	1
Energy	1	11	6	<0.5	1	1
Mobile	36	140	416	1	137	37
Total Daily Emissions	**96**	**152**	**535**	**2**	**138**	**39**
Screening-Level Thresholds	*137*	*250*	*550*	*250*	*100*	*55*
Significant Impact?	***No***	***No***	***No***	***No***	***Yes***	***No***

Source: CalEEMod (output data is provided in Appendix A)
Note: Total is the sum of the unrounded values.

The screening level thresholds provided by SDAPCD are to be used as screening criteria for potential impact significance for stationary sources. As noted above, where mitigated emissions exceeded the City's screening-level thresholds, and where the potential exists for a significantly cumulative air quality impact, the City's significance threshold guidance for air quality requires application of the more restrictive state and national AAQS. Further, in response to recent case law (specifically the December 24, 2018 California Supreme Court decision S219783 on Sierra Club versus County of Freson [Friant Ranch]), the localized effects from the emissions were evaluated to determine potential pollutant concentrations at sensitive receptors.

The analysis was conducted using the USEPA's preferred regulatory Gaussian Plume Air Dispersion Model (AERMOD). Mobile source PM_{10} emissions were modeled as a network of line area sources based on the Project's trip distribution included in the TIA using the mass emissions reported in Table 13. Area and energy source emissions of PM_{10} reported in Table 13 were modeled as a large area source coinciding with the Project's built area. Receptors were placed on a grid with 50-meter spacing within the Project site and 250-meter spacing beyond the Project site to characterize the regional concentrations. Meteorological data from the Marine Corp Air Station Miramar were used to represent the atmospheric conditions at the Project site. These emissions sources, parameters, and receptor data were modeled using the AERMOD air dispersion model to produce concentrations at receptors of interest. All AERMOD output files are provided in Appendix C to this report.

California target thresholds for PM_{10} are 50 µg/m^3 for 24 hour and 20 µg/m^3 for maximum annual average counts, respectively (see Table 3 of this report). The maximum 24-hour and annual average PM_{10}

concentrations of 0.30 µg/m^3 and 0.17 µg/m^3, respectively, were found within the Project site boundaries. When summed with the peak ambient background concentrations provided in Table 5, the maximum 24-hour average PM_{10} concentration is estimated to be 46.3 µg/m^3 and the maximum annual average concentration is estimated to be 17.8 µg/m^3. Concentrations of this magnitude fall below the state and national AAQS, which define clean air and are established to protect even the most sensitive individuals. An AAQS defines the maximum amount of a pollutant that can be present in outdoor air without harm to the public's health. As such, although the Project exceeds the City's screening-level threshold for PM_{10}, it is not expected to result in any adverse health effects.

As previously described, implementation of Mitigation Measure AQ–1 would result in an average reduction of area source related CO emissions by 24 percent and particulate emissions (PM_{10} and $PM_{2.5}$) by 25 percent. As shown in Table 13, with implementation of mitigation measure AQ–1, CO and PM_{10} emissions would be reduced, but only CO emissions would be reduced to a level below the respective threshold; PM_{10} emissions would remain above its threshold. Based on additional dispersion modeling of PM_{10}, however, Project-related emissions are not expected to result in any cumulative impacts or adverse health effects because dispersion modeling revealed that local concentrations would not exceed the state or national AAQS established to protect human health. Therefore, direct and cumulative impacts with the implementation of Mitigation Measure AQ-1 would reduce impacts to less than significant.

5.3 CUMULATIVELY CONSIDERABLE NET INCREASE OF CRITERIA POLLUTANTS

5.3.1 Impacts

The study area for a cumulative regional air quality analysis is the SDAB. The SDAB is designated as a nonattainment area for ozone, PM_{10}, and $PM_{2.5}$ under State standards and a nonattainment area for ozone under federal standards. The RAQS is the most appropriate document for evaluating the Project's cumulative effects because the RAQS evaluated air quality emissions for the whole of the SDAB using a future development scenario. According to Section 5.1 of this report, the Project would not conflict with implementation of the RAQS. However, as discussed under Section 5.2, the Project's operational regional CO and PM_{10} emissions would exceed the City's Screening Level Thresholds. Therefore, impacts are considered cumulatively considerable and significant.

5.3.2 Significance of Impacts

The Project's PM_{10} emissions would also contribute to existing violations of the respective standards. Cumulative impacts would be potentially significant.

5.3.3 Mitigation Framework

The primary source of operational PM_{10} emissions is mobile sources. The Project includes several VMT reducing as described in Section 1.5.2.2. No mitigation is available to further reduce these mobile source emissions.

5.3.4 Significance After Mitigation

As discussed previously, by maintaining a total number of residential dwelling units consistent with that of the CCMP and eliminating the industrial area, the Project proposes development which is less dense than anticipated within the local plan. Nonetheless, the contribution of air pollutants to the SDAB would result in a significant and unavoidable cumulative impact on air quality within the SDAB.

5.4 IMPACTS TO SENSITIVE RECEPTORS

5.4.1 Impacts

Impacts to sensitive receptors are typically analyzed for operational period CO hotspots and exposure to TACs. An analysis of the Project's potential to expose sensitive receptors to these pollutants is provided below.

As described in the following discussion, exposure to CO hotspots and most TACs is based on operational emissions, with proposed land uses therefore the focus of this discussion. Grading associated with the CUP/Reclamation Plan Amendment and the SDG&E facility modifications was incorporated into the modeling of DPM emissions to provide a conservative analysis.

5.4.1.1 Carbon Monoxide Hotspots

A CO hotspot is an area of localized CO pollution caused by severe vehicle congestion on major roadways, typically near intersections. If a project increases average delay at signalized intersections operating at Level of Service (LOS) E or F, or causes an intersection that would operate at LOS D or better without the project to operate at LOS E or F with the project, a quantitative screening is required. According to the TIA prepared for the Project, upon full buildout, 15 of the 50 intersections analyzed would operate at LOS E or F and have project related increases in average delay before inclusion of the recommended traffic mitigation measures (MBI 2019):

- Pacific Heights Boulevard at Mira Mesa Boulevard for the PM peak hour,
- Camino Santa Fe at Mira Mesa Boulevard for both the AM and PM peak hours,
- Camino Ruiz at Mira Mesa Boulevard for both the AM and PM peak hours,
- Camino Santa Fe at Carroll Road for both the AM and PM peak hours,
- Eastgate mall at Judicial Drive for the AM peak hour,
- Towne Center Drive at La Jolla Village Drive for the PM peak hour,
- La Jolla Village Drive at the I-805 Southbound Ramps for the AM peak hour,
- Eastgate Mall at Miramar Road for the PM peak hour,
- Camino Santa Fe at Miramar Road for both the AM and PM peak hours,
- Camino Ruiz at Miramar Road for the AM peak hour,
- Mitscher Way at Miramar Road for the PM peak hour,
- Kearny Villa Road at Miramar Road for both the AM and PM peak hours,

- Flanders Road at Camino Santa Fe for the PM peak hour,
- Trade Street at Camino Santa Fe for the PM peak hour, and
- Carroll Canyon Road at Camino Ruiz for the PM peak hour.

The Transportation Project-Level Carbon Monoxide Protocol (Caltrans 1998) requires the modeler to model the intersections that have worst LOS and the highest traffic volumes. If the selected intersections do not show an exceedance of the NAAQS, none of the other intersections will show an exceedance. Based on these requirements, the following intersections were selected for modeling:

- La Jolla Village Drive at the I-805 Southbound Ramps for having the highest AM traffic volume,
- Carroll Canyon Road at Camino Ruiz for having the highest PM traffic volume,
- Camino Santa Fe at Miramar Road for having the worst AM LOS, and
- Camino Santa Fe at Carroll Road for having the worst PM LOS.

As recommended in the Protocol, receptors were located at locations that were approximately 3 meters (10 feet) from the edge of the roadway, and at a height of 1.8 meters (6 feet). Emission factors from the EMFAC2014 model for the year 2025 at a temperature of 60 degrees Fahrenheit and 50 percent humidity were used in the CALINE4 model.

In accordance with the Protocol, it is also necessary to estimate future background CO concentrations in the project vicinity to determine the potential impact plus background and evaluate the potential for CO hotspots due to the Project. The existing maximum 1-hour and 8-hour background concentrations of CO of 1.7 and 1.2 ppm were used to represent future maximum background 1-hour and 8-hour CO concentrations (USEPA 2017b). CO concentrations in the future may be lower as inspection and maintenance programs and more stringent emission controls are placed on vehicles.

Modeled 1-hour CO concentrations were scaled to evaluate maximum predicted 8-hour CO concentrations using the recommended persistence scaling factor of 0.7 for urban locations. The CALINE4 model outputs are provided at the end of Appendix A of this report. Table 14, *CO Hotspots Modeling Results,* presents a summary of the predicted CO concentrations (impact plus background) for the affected intersections. As shown in Table 14, the predicted CO concentrations would be substantially below the 1-hour and 8-hour NAAQS and CAAQS for CO. Therefore, no exceedances of the CO 1-hour or 8-hour standards are predicted, and the Project would not cause or contribute to a violation of the air quality standard. The Project would not expose sensitive receptors to a CO hotspot; therefore, impacts would be less than significant.

Table 14
CO HOTSPOTS MODELING RESULTS

Intersection	Peak Period	Maximum 1-hour Concentration	Maximum 8-hour Concentration
La Jolla Village Road at I-805 Southbound Ramps	AM	4.0	2.8
	PM	3.8	2.7
Carroll Canyon Road at Camino Ruiz	AM	3.7	2.6
	PM	4.1	2.9
Camino Santa Fe at Miramar Road	AM	4.2	3.0
	PM	4.3	3.0
Camino Santa Fe at Carroll Road	AM	3.2	2.3
	PM	3.3	2.3
Ambient Air Quality Standard		20	9.0
Significant Impact?		No	No

Source: CALINE4 dispersion model (output sheets are provided in Appendix B)
Note: Peak hour traffic volumes are based on the TIA (MBI 2019).

5.4.1.2 Exposure to Toxic Air Contaminants

In addition to impacts from criteria pollutants, project impacts may include emissions of pollutants identified by the state as TACs. State law has established the framework for California's TAC identification and control program, which is generally more stringent than the federal program. The state has formally identified more than 200 substances as TACs and is adopting appropriate control measures for their sources. The greatest potential for TAC emissions during construction would be emissions of DPM from heavy equipment operations and heavy-duty trucks. The following measures are required by state law to reduce DPM emissions:

- Fleet owners of mobile construction equipment are subject to the CARB Regulation for In-use Off-road Diesel Vehicles (13 CCR 2449), the purpose of which is to reduce DPM and criteria pollutant emissions from in-use (existing) off-road diesel-fueled vehicles.

- All commercial diesel vehicles are subject to Title 13, Section 2485 of the California Code of Regulations, limiting engine idling time. Idling of heavy-duty diesel construction equipment and trucks during loading and unloading shall be limited to five minutes; electric auxiliary power units should be used whenever possible.

Health effects from carcinogenic air toxics are usually described in terms of cancer risk. As shown in Table 8, the City recommends an incremental cancer risk threshold of 10 in a million. "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 will develop cancer based on the use of standard Office of Environmental Health Hazard Assessment (OEHHA) risk-assessment methodology.

The heavy-duty construction equipment required for project construction, is subject to a CARB Airborne Toxics Control Measure for in-use diesel construction equipment to reduce DPM emissions. The Project would not involve extensive use of diesel trucks, which are also subject to a CARB Airborne Toxics Control Measure.

As shown in Table 9, maximum daily particulate matter (i.e., PM_{10} or $PM_{2.5}$) emissions generated by construction equipment operation and haul-truck trips during construction (exhaust particulate matter,

or DPM), combined with fugitive dust generated by equipment operation and vehicle travel, would be well below the City's screening-level thresholds. Moreover, total construction of the Project would last approximately 26 months, after which Project-related TAC emissions would cease. Thus, the Project would not result in a long-term source of TAC emissions. No residual TAC emissions and corresponding cancer risk are anticipated after construction, and no long-term sources of TAC emissions are anticipated during operation of the Project. Therefore, the exposure of Project-related TAC emission impacts to sensitive receptors would be less than significant.

Additionally, CARB has published the *Air Quality and Land Use Handbook: A Community Health Perspective* (CARB 2005), which identifies certain types of facilities or sources that may emit substantial quantities of TACs and therefore could conflict with sensitive land uses, such as "schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities." The *Air Quality and Land Use Handbook* is a guide for siting new sensitive land uses. The enumerated facilities or sources include the following:

- High-traffic freeways and roads,
- Distribution centers,
- Rail yards,
- Ports,
- Refineries,
- Chrome plating facilities,
- Dry cleaners, and
- Large gas dispensing facilities.

CARB recommends that sensitive receptors not be located downwind or in proximity to such sources to avoid potential health hazards.

The Project would not include any of the previously listed land uses, so it would not expose visitors, residents, or employees of the Project to TAC emissions from these sources. Impacts would be less than significant.

5.4.2 Significance of Impacts

The analysis indicated there would be no potential for exposure of sensitive receptors to substantial concentrations of pollutants. The impact would be less than significant.

5.4.3 Mitigation Framework

Because there would be no significant impacts with respect to exposure of sensitive receptors to pollutants, no mitigation measures are required.

5.4.4 Significance After Mitigation

The impact would be less than significant.

5.5 ODORS

5.5.1 Impacts

As discussed above, the California Health and Safety Code Sections 41700 and 41705, and SDAPCD Rule 51, prohibit emissions from any source whatsoever in such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to the public health or damage to property. Any unreasonable odor discernible at the property line will be considered a significant odor impact.

The following analysis is applicable to all project components. The Project could produce odors during proposed construction activities of both Phase 1 and Phase 2 resulting from construction equipment exhaust, application of asphalt, and/or the application of architectural coatings; however, standard construction practices would minimize the odor emissions and their associated impacts. Furthermore, odors emitted during construction would be temporary, short-term, and intermittent in nature, and would cease upon the completion of the respective phase of construction. Accordingly, the Project would not create objectionable odors affecting a substantial number of people during construction, and short-term impacts would be less than significant.

During project operation, the temporary storage of refuse could be a potential source of odor; however, Project-generated refuse is required to be stored in covered containers and removed at regular intervals in compliance with the SDMC solid waste regulations, thereby precluding significant odor impacts. Furthermore, the Project would be required to comply with the aforementioned SDAPCD Rule 51 which prohibits the discharge of odorous emissions that would create a public nuisance. As such, long-term operation of the Project would not create objectionable odors affecting a substantial number of people.

5.5.2 Significance of Impacts

Impacts associated with odors are anticipated to be less than significant.

5.5.3 Mitigation Framework

Because there would be no significant impacts with respect to odors, no mitigation measures are required.

5.5.4 Significance After Mitigation

Impacts related to odors would be less than significant.

5.6 ALTERATION OF AIR MOVEMENT

5.6.1 Impacts

This issue is usually associated with placement of high structures in proximity to one-another that can result in tunneling of air movement in an area that was previously unobstructed. In the case of the Project, structures would be placed within a canyon setting. Structures would not exceed the heights of the surrounding mesa, and the highest (a parking structure) would not exceed 65 feet in height. Residential only structures would range from 42 to 45 feet in height. Project buildings also would not be

of consistent and considerable massing. Some buildings would be stand alone, and others would vary in placement, orientation, and specifics in massing. They also would be at different elevations associated with underlying pads. The southern portion of the project would be bisected in an east-west direction by Carroll Canyon Creek, a large open space park, and Carroll Canyon Road. These would retain general air flow patterns travelling unobstructed east-west along the canyon. All of these considerations result in air flow continuing to follow geographic cues in this area and winding through and around project-related built structures. Although localized effects would vary from the existing condition of the open mined area, substantial alteration of air movement would not occur.

5.6.2 Significance of Impacts

Impacts associated with air movement are anticipated to be less than significant.

5.6.3 Mitigation Framework

Because there would be no significant impacts with respect to air movement, no mitigation measures are required.

5.6.4 Significance After Mitigation

Impacts related to air movement would be less than significant.

6.0 LIST OF PREPARERS

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Appendix A

CalEEMod Outputs

3 Roots San Diego - Phase I

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	609.00	Dwelling Unit	9.82	609,000.00	1742
Condo/Townhouse	393.00	Dwelling Unit	24.56	393,000.00	1124
Single Family Housing	435.00	Dwelling Unit	141.23	783,000.00	1244
Strip Mall	16.00	1000sqft	0.37	16,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Assumptions provided by JT Kruer & Co.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Assumptions provided by JT Kruer & Co.

Off-road Equipment - Assumptions provided by JT Kruer & Co.

Off-road Equipment - Assumptions provided by JT Kruer & Co.

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Off-road Equipment - Assumptions provided by JT Kruer & Co.

Off-road Equipment - Assumptions provided by JT Kruer & Co.

Trips and VMT - Assumptions provided by JT Kruer & Co.

Grading -

Architectural Coating - SDAPCD Rule 67

Vehicle Trips - STC Traffic Inc. 2018

Woodstoves - No Hearth

Area Coating - SDAPCD Rule 67

Construction Off-road Equipment Mitigation - Tier 3 Offroad and Dust BMPs

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00

tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	220.00	436.00
tblConstructionPhase	NumDays	3,100.00	458.00
tblConstructionPhase	NumDays	310.00	33.00
tblConstructionPhase	NumDays	310.00	55.00
tblConstructionPhase	NumDays	220.00	24.00
tblConstructionPhase	NumDays	220.00	13.00
tblConstructionPhase	NumDays	220.00	30.00
tblConstructionPhase	NumDays	220.00	120.00
tblConstructionPhase	NumDays	120.00	13.00
tblConstructionPhase	NumDays	120.00	26.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	348.15	0.00
tblFireplaces	NumberGas	215.60	0.00

tblFireplaces	NumberGas	240.90	0.00
tblFireplaces	NumberNoFireplace	63.30	633.00
tblFireplaces	NumberNoFireplace	39.20	392.00
tblFireplaces	NumberNoFireplace	43.80	438.00
tblFireplaces	NumberWood	221.55	0.00
tblFireplaces	NumberWood	137.20	0.00
tblFireplaces	NumberWood	153.30	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	754.00
tblTripsAndVMT	VendorTripLength	7.30	7.80
tblTripsAndVMT	VendorTripNumber	0.00	25.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	25.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	CC_TL	7.30	12.45
tblVehicleTrips	CC_TTP	64.40	100.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	16.60	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TL	7.50	0.00
tblVehicleTrips	HO_TL	7.50	0.00
tblVehicleTrips	HO_TL	7.50	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HS_TL	7.30	0.00

tblVehicleTrips	HS_TL	7.30	0.00
tblVehicleTrips	HS_TL	7.30	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HW_TL	10.80	10.07
tblVehicleTrips	HW_TL	10.80	7.55
tblVehicleTrips	HW_TL	10.80	6.04
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	4.98	6.00
tblVehicleTrips	ST_TR	5.67	8.00
tblVehicleTrips	ST_TR	9.91	10.00
tblVehicleTrips	ST_TR	42.04	40.00
tblVehicleTrips	SU_TR	3.65	6.00
tblVehicleTrips	SU_TR	4.84	8.00
tblVehicleTrips	SU_TR	8.62	10.00
tblVehicleTrips	SU_TR	20.43	40.00

tblVehicleTrips	WD_TR	4.20	6.00
tblVehicleTrips	WD_TR	5.81	8.00
tblVehicleTrips	WD_TR	9.52	10.00
tblVehicleTrips	WD_TR	44.32	40.00
tblWoodstoves	NumberCatalytic	31.65	0.00
tblWoodstoves	NumberCatalytic	19.60	0.00
tblWoodstoves	NumberCatalytic	21.90	0.00
tblWoodstoves	NumberNoncatalytic	31.65	0.00
tblWoodstoves	NumberNoncatalytic	19.60	0.00
tblWoodstoves	NumberNoncatalytic	21.90	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	13.2644	158.1291	83.6599	0.1713	22.9367	6.3430	29.2797	7.8418	5.8356	13.6774						
2020	49.5787	147.0941	123.5294	0.3198	10.7279	5.4985	16.2264	2.8743	5.0941	7.9685						
2021	48.5201	137.4271	112.1929	0.2987	16.7849	5.0840	21.8688	3.4761	4.7055	8.1816						
Maximum	**49.5787**	**158.1291**	**123.5294**	**0.3198**	**22.9367**	**6.3430**	**29.2797**	**7.8418**	**5.8356**	**13.6774**						

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.2974	80.1851	90.7652	0.1713	10.4797	3.0395	13.5191	3.5708	3.0393	6.6101						
2020	42.7788	112.7954	147.9921	0.3198	10.7279	4.5353	15.2632	2.8743	4.5255	7.3998						
2021	41.9959	103.2799	132.9038	0.2987	13.2852	4.1830	17.4683	3.0982	4.1764	7.2746						
Maximum	**42.7788**	**112.7954**	**147.9921**	**0.3198**	**13.2852**	**4.5353**	**17.4683**	**3.5708**	**4.5255**	**7.3998**						

3 Roots San Diego - Phase I - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**20.02**	**33.07**	**-16.37**	**0.00**	**31.63**	**30.53**	**31.35**	**32.76**	**24.91**	**28.64**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	46.0528	1.3688	118.6836	6.2600e-003		0.6558	0.6558		0.6558	0.6558						
Energy	0.6023	5.1476	2.1945	0.0329		0.4161	0.4161		0.4161	0.4161						
Mobile	19.1110	83.5818	229.6644	0.7977	73.1487	0.6754	73.8240	19.5497	0.6307	20.1804						
Total	**65.7661**	**90.0982**	**350.5425**	**0.8368**	**73.1487**	**1.7472**	**74.8959**	**19.5497**	**1.7026**	**21.2523**						

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	46.0528	1.3688	118.6836	6.2600e-003		0.6558	0.6558		0.6558	0.6558						
Energy	0.6023	5.1476	2.1945	0.0329		0.4161	0.4161		0.4161	0.4161						
Mobile	19.1110	83.5818	229.6644	0.7977	73.1487	0.6754	73.8240	19.5497	0.6307	20.1804						
Total	**65.7661**	**90.0982**	**350.5425**	**0.8368**	**73.1487**	**1.7472**	**74.8959**	**19.5497**	**1.7026**	**21.2523**						

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Clear & Grub	Site Preparation	8/5/2019	8/21/2019	5	13	
2	Mass Excavation	Grading	8/22/2019	10/7/2019	5	33	
3	Finish Grading	Grading	10/8/2019	12/23/2019	5	55	
4	Wet Utilities	Trenching	10/8/2019	12/22/2020	5	316	
5	Building Construction	Building Construction	4/1/2020	12/31/2021	5	458	
6	Architectural Coating	Architectural Coating	5/1/2020	12/31/2021	5	436	
7	Frontage & Intersections	Paving	8/26/2020	2/9/2021	5	120	
8	Dry Utilities	Trenching	12/11/2020	5/17/2021	5	112	
9	Street Improvements - Balance & Subgrade Prep	Site Preparation	4/14/2021	5/19/2021	5	26	
10	Street Improvements - Curb & Gutter	Paving	5/20/2021	6/22/2021	5	24	
11	Street Improvements - Base & Pave	Paving	6/23/2021	7/9/2021	5	13	
12	Street Improvements - Concrete Flatwork	Paving	7/10/2021	8/20/2021	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 3,672,135; Residential Outdoor: 1,224,045; Non-Residential Indoor: 24,000; Non-Residential Outdoor: 8,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Clear & Grub	Crawler Tractors	4	8.00	212	0.43
Clear & Grub	Rubber Tired Dozers	0	8.00	247	0.40
Clear & Grub	Rubber Tired Loaders	2	8.00	203	0.36
Clear & Grub	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Mass Excavation	Crawler Tractors	3	8.00	212	0.43
Mass Excavation	Excavators	0	8.00	158	0.38
Mass Excavation	Graders	1	8.00	187	0.41
Mass Excavation	Rubber Tired Dozers	2	8.00	247	0.40
Mass Excavation	Scrapers	8	8.00	367	0.48
Mass Excavation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Finish Grading	Crawler Tractors	2	8.00	212	0.43
Finish Grading	Excavators	0	8.00	158	0.38
Finish Grading	Graders	4	8.00	187	0.41
Finish Grading	Rubber Tired Dozers	0	8.00	247	0.40
Finish Grading	Scrapers	0	8.00	367	0.48
Finish Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Wet Utilities	Excavators	4	8.00	158	0.38
Wet Utilities	Rubber Tired Loaders	4	8.00	203	0.36
Wet Utilities	Skid Steer Loaders	4	8.00	65	0.37

Dry Utilities	Rubber Tired Loaders	4	8.00	203	0.36
Dry Utilities	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Street Improvements - Balance & Subgrade Prep	Graders	4	8.00	187	0.41
Street Improvements - Balance & Subgrade Prep	Rollers	4	8.00	80	0.38
Street Improvements - Balance & Subgrade Prep	Rubber Tired Dozers	0	8.00	247	0.40
Street Improvements - Balance & Subgrade Prep	Scrapers	4	8.00	367	0.48
Street Improvements - Balance & Subgrade Prep	Skid Steer Loaders	2	8.00	65	0.37
Street Improvements - Balance & Subgrade Prep	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Street Improvements - Curb & Gutter	Pavers	0	8.00	130	0.42
Street Improvements - Curb & Gutter	Paving Equipment	2	8.00	132	0.36
Street Improvements - Curb & Gutter	Rollers	0	8.00	80	0.38
Street Improvements - Base & Pave	Graders	4	8.00	187	0.41
Street Improvements - Base & Pave	Pavers	2	8.00	130	0.42
Street Improvements - Base & Pave	Paving Equipment	0	8.00	132	0.36
Street Improvements - Base & Pave	Rollers	4	8.00	80	0.38
Street Improvements - Concrete Flatwork	Pavers	0	8.00	130	0.42
Street Improvements - Concrete Flatwork	Paving Equipment	0	8.00	132	0.36
Street Improvements - Concrete Flatwork	Rollers	0	8.00	80	0.38
Street Improvements - Concrete Flatwork	Skid Steer Loaders	4	8.00	65	0.37
Frontage & Intersections	Graders	2	8.00	187	0.41
Frontage & Intersections	Pavers	1	8.00	130	0.42
Frontage & Intersections	Paving Equipment	1	8.00	132	0.36
Frontage & Intersections	Rollers	1	8.00	80	0.38
Frontage & Intersections	Scrapers	2	8.00	367	0.48
Frontage & Intersections	Skid Steer Loaders	1	8.00	65	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Clear & Grub	6	15.00	0.00	754.00	10.80	7.80	20.00	LD_Mix	HDT_Mix	HHDT
Mass Excavation	14	35.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	901.00	159.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	180.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finish Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wet Utilities	12	30.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Dry Utilities	8	20.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvements - Balance & Subgrade	14	35.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvements - Curb & Gutter	2	5.00	25.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvements - Base & Pave	10	25.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvements - Concrete Flatwork	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Frontage & Intersections	8	20.00	25.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Clear & Grub - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1210	0.0000	2.1210	0.2290	0.0000	0.2290						
Off-Road	3.2388	41.6290	13.6760	0.0439		1.5295	1.5295		1.4071	1.4071						
Total	**3.2388**	**41.6290**	**13.6760**	**0.0439**	**2.1210**	**1.5295**	**3.6505**	**0.2290**	**1.4071**	**1.6361**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5176	17.6002	4.0302	0.0453	1.0135	0.0673	1.0808	0.2778	0.0644	0.3421						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335						
Total	**0.5843**	**17.6463**	**4.4688**	**0.0465**	**1.1367**	**0.0682**	**1.2049**	**0.3104**	**0.0652**	**0.3756**						

3.2 Clear & Grub - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9545	0.0000	0.9545	0.1031	0.0000	0.1031						
Off-Road	1.0811	20.9008	23.4233	0.0439		0.7928	0.7928		0.7928	0.7928						
Total	**1.0811**	**20.9008**	**23.4233**	**0.0439**	**0.9545**	**0.7928**	**1.7472**	**0.1031**	**0.7928**	**0.8959**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5176	17.6002	4.0302	0.0453	1.0135	0.0673	1.0808	0.2778	0.0644	0.3421						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335						
Total	**0.5843**	**17.6463**	**4.4688**	**0.0465**	**1.1367**	**0.0682**	**1.2049**	**0.3104**	**0.0652**	**0.3756**						

3.3 Mass Excavation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					22.6492	0.0000	22.6492	7.7656	0.0000	7.7656						
Off-Road	13.1089	158.0214	82.6365	0.1684		6.3410	6.3410		5.8337	5.8337						
Total	**13.1089**	**158.0214**	**82.6365**	**0.1684**	**22.6492**	**6.3410**	**28.9902**	**7.7656**	**5.8337**	**13.5993**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.1554	0.1077	1.0234	2.8700e-003	0.2875	2.0500e-003	0.2896	0.0763	1.8900e-003	0.0782						
Total	**0.1554**	**0.1077**	**1.0234**	**2.8700e-003**	**0.2875**	**2.0500e-003**	**0.2896**	**0.0763**	**1.8900e-003**	**0.0782**						

3.3 Mass Excavation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.1921	0.0000	10.1921	3.4945	0.0000	3.4945						
Off-Road	4.1419	80.0774	89.7419	0.1684		3.0374	3.0374		3.0374	3.0374						
Total	**4.1419**	**80.0774**	**89.7419**	**0.1684**	**10.1921**	**3.0374**	**13.2296**	**3.4945**	**3.0374**	**6.5319**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.1554	0.1077	1.0234	2.8700e-003	0.2875	2.0500e-003	0.2896	0.0763	1.8900e-003	0.0782						
Total	**0.1554**	**0.1077**	**1.0234**	**2.8700e-003**	**0.2875**	**2.0500e-003**	**0.2896**	**0.0763**	**1.8900e-003**	**0.0782**						

3.4 Finish Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1815	0.0000	3.1815	0.3435	0.0000	0.3435						
Off-Road	3.1675	42.3065	12.5114	0.0423		1.4476	1.4476		1.3318	1.3318						
Total	**3.1675**	**42.3065**	**12.5114**	**0.0423**	**3.1815**	**1.4476**	**4.6291**	**0.3435**	**1.3318**	**1.6753**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335						
Total	**0.0666**	**0.0462**	**0.4386**	**1.2300e-003**	**0.1232**	**8.8000e-004**	**0.1241**	**0.0327**	**8.1000e-004**	**0.0335**						

3.4 Finish Grading - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4317	0.0000	1.4317	0.1546	0.0000	0.1546						
Off-Road	1.0349	20.0088	22.4237	0.0423		0.7590	0.7590		0.7590	0.7590						
Total	**1.0349**	**20.0088**	**22.4237**	**0.0423**	**1.4317**	**0.7590**	**2.1906**	**0.1546**	**0.7590**	**0.9135**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335						
Total	**0.0666**	**0.0462**	**0.4386**	**1.2300e-003**	**0.1232**	**8.8000e-004**	**0.1241**	**0.0327**	**8.1000e-004**	**0.0335**						

3.5 Wet Utilities - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9763	34.5391	25.3286	0.0539		1.3711	1.3711		1.2614	1.2614						
Total	**2.9763**	**34.5391**	**25.3286**	**0.0539**		**1.3711**	**1.3711**		**1.2614**	**1.2614**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	9.6000e-003	0.2482	0.0710	5.4000e-004	0.0135	1.7600e-003	0.0153	3.9000e-003	1.6800e-003	5.5800e-003						
Worker	0.1332	0.0923	0.8772	2.4600e-003	0.2464	1.7600e-003	0.2482	0.0654	1.6200e-003	0.0670						
Total	**0.1428**	**0.3405**	**0.9482**	**3.0000e-003**	**0.2600**	**3.5200e-003**	**0.2635**	**0.0693**	**3.3000e-003**	**0.0726**						

3.5 Wet Utilities - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3306	26.4368	35.3545	0.0539		1.2539	1.2539		1.2539	1.2539						
Total	**1.3306**	**26.4368**	**35.3545**	**0.0539**		**1.2539**	**1.2539**		**1.2539**	**1.2539**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	9.6000e-003	0.2482	0.0710	5.4000e-004	0.0135	1.7600e-003	0.0153	3.9000e-003	1.6800e-003	5.5800e-003						
Worker	0.1332	0.0923	0.8772	2.4600e-003	0.2464	1.7600e-003	0.2482	0.0654	1.6200e-003	0.0670						
Total	**0.1428**	**0.3405**	**0.9482**	**3.0000e-003**	**0.2600**	**3.5200e-003**	**0.2635**	**0.0693**	**3.3000e-003**	**0.0726**						

3.5 Wet Utilities - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7959	31.5383	25.1731	0.0539		1.2370	1.2370		1.1380	1.1380						
Total	**2.7959**	**31.5383**	**25.1731**	**0.0539**		**1.2370**	**1.2370**		**1.1380**	**1.1380**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	7.8300e-003	0.2253	0.0638	5.3000e-004	0.0135	1.1200e-003	0.0147	3.9000e-003	1.0800e-003	4.9700e-003						
Worker	0.1247	0.0833	0.8017	2.3800e-003	0.2464	1.7300e-003	0.2482	0.0654	1.5900e-003	0.0670						
Total	**0.1325**	**0.3086**	**0.8655**	**2.9100e-003**	**0.2600**	**2.8500e-003**	**0.2628**	**0.0693**	**2.6700e-003**	**0.0719**						

3.5 Wet Utilities - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3306	26.4368	35.3545	0.0539		1.2539	1.2539		1.2539	1.2539						
Total	**1.3306**	**26.4368**	**35.3545**	**0.0539**		**1.2539**	**1.2539**		**1.2539**	**1.2539**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	7.8300e-003	0.2253	0.0638	5.3000e-004	0.0135	1.1200e-003	0.0147	3.9000e-003	1.0800e-003	4.9700e-003						
Worker	0.1247	0.0833	0.8017	2.3800e-003	0.2464	1.7300e-003	0.2482	0.0654	1.5900e-003	0.0670						
Total	**0.1325**	**0.3086**	**0.8655**	**2.9100e-003**	**0.2600**	**2.8500e-003**	**0.2628**	**0.0693**	**2.6700e-003**	**0.0719**						

3.6 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503						
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.6223	17.9141	5.0690	0.0424	1.0764	0.0894	1.1658	0.3099	0.0855	0.3954						
Worker	3.7446	2.5012	24.0790	0.0715	7.4015	0.0519	7.4534	1.9632	0.0479	2.0111						
Total	**4.3669**	**20.4153**	**29.1479**	**0.1140**	**8.4779**	**0.1413**	**8.6192**	**2.2731**	**0.1334**	**2.4064**						

3.6 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036						
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.6223	17.9141	5.0690	0.0424	1.0764	0.0894	1.1658	0.3099	0.0855	0.3954						
Worker	3.7446	2.5012	24.0790	0.0715	7.4015	0.0519	7.4534	1.9632	0.0479	2.0111						
Total	**4.3669**	**20.4153**	**29.1479**	**0.1140**	**8.4779**	**0.1413**	**8.6192**	**2.2731**	**0.1334**	**2.4064**						

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013						
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.5068	16.1478	4.5942	0.0420	1.0764	0.0354	1.1117	0.3099	0.0338	0.3437						
Worker	3.5341	2.2727	22.4642	0.0691	7.4015	0.0511	7.4526	1.9632	0.0471	2.0103						
Total	**4.0409**	**18.4205**	**27.0584**	**0.1111**	**8.4779**	**0.0865**	**8.5644**	**2.2731**	**0.0809**	**2.3540**						

3.6 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036						
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.5068	16.1478	4.5942	0.0420	1.0764	0.0354	1.1117	0.3099	0.0338	0.3437						
Worker	3.5341	2.2727	22.4642	0.0691	7.4015	0.0511	7.4526	1.9632	0.0471	2.0103						
Total	**4.0409**	**18.4205**	**27.0584**	**0.1111**	**8.4779**	**0.0865**	**8.5644**	**2.2731**	**0.0809**	**2.3540**						

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	32.8714					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109						
Total	**33.1136**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.7481	0.4997	4.8104	0.0143	1.4787	0.0104	1.4890	0.3922	9.5600e-003	0.4018						
Total	**0.7481**	**0.4997**	**4.8104**	**0.0143**	**1.4787**	**0.0104**	**1.4890**	**0.3922**	**9.5600e-003**	**0.4018**						

3.7 Architectural Coating - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	32.8714					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951						
Total	**32.9309**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.7481	0.4997	4.8104	0.0143	1.4787	0.0104	1.4890	0.3922	9.5600e-003	0.4018						
Total	**0.7481**	**0.4997**	**4.8104**	**0.0143**	**1.4787**	**0.0104**	**1.4890**	**0.3922**	**9.5600e-003**	**0.4018**						

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	32.8714					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941						
Total	**33.0903**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.7060	0.4540	4.4879	0.0138	1.4787	0.0102	1.4889	0.3922	9.4100e-003	0.4016						
Total	**0.7060**	**0.4540**	**4.4879**	**0.0138**	**1.4787**	**0.0102**	**1.4889**	**0.3922**	**9.4100e-003**	**0.4016**						

3.7 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	32.8714					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951						
Total	**32.9309**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.7060	0.4540	4.4879	0.0138	1.4787	0.0102	1.4889	0.3922	9.4100e-003	0.4016						
Total	**0.7060**	**0.4540**	**4.4879**	**0.0138**	**1.4787**	**0.0102**	**1.4889**	**0.3922**	**9.4100e-003**	**0.4016**						

3.8 Frontage & Intersections - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6957	44.2504	27.2622	0.0570		1.7436	1.7436		1.6041	1.6041						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**3.6957**	**44.2504**	**27.2622**	**0.0570**		**1.7436**	**1.7436**		**1.6041**	**1.6041**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0978	2.8167	0.7970	6.6700e-003	0.1692	0.0141	0.1833	0.0487	0.0134	0.0622						
Worker	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446						
Total	**0.1810**	**2.8722**	**1.3315**	**8.2600e-003**	**0.3335**	**0.0152**	**0.3487**	**0.0923**	**0.0145**	**0.1068**						

3.8 Frontage & Intersections - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4016	27.5003	33.4049	0.0570		1.1709	1.1709		1.1709	1.1709						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**1.4016**	**27.5003**	**33.4049**	**0.0570**		**1.1709**	**1.1709**		**1.1709**	**1.1709**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0978	2.8167	0.7970	6.6700e-003	0.1692	0.0141	0.1833	0.0487	0.0134	0.0622						
Worker	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446						
Total	**0.1810**	**2.8722**	**1.3315**	**8.2600e-003**	**0.3335**	**0.0152**	**0.3487**	**0.0923**	**0.0145**	**0.1068**						

3.8 Frontage & Intersections - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4681	40.7178	26.2603	0.0570		1.5878	1.5878		1.4608	1.4608						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**3.4681**	**40.7178**	**26.2603**	**0.0570**		**1.5878**	**1.5878**		**1.4608**	**1.4608**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0797	2.5390	0.7224	6.6000e-003	0.1692	5.5600e-003	0.1748	0.0487	5.3200e-003	0.0540						
Worker	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446						
Total	**0.1581**	**2.5894**	**1.2210**	**8.1300e-003**	**0.3335**	**6.6900e-003**	**0.3402**	**0.0923**	**6.3700e-003**	**0.0987**						

3.8 Frontage & Intersections - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4016	27.5003	33.4049	0.0570		1.1709	1.1709		1.1709	1.1709						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**1.4016**	**27.5003**	**33.4049**	**0.0570**		**1.1709**	**1.1709**		**1.1709**	**1.1709**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0797	2.5390	0.7224	6.6000e-003	0.1692	5.5600e-003	0.1748	0.0487	5.3200e-003	0.0540						
Worker	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446						
Total	**0.1581**	**2.5894**	**1.2210**	**8.1300e-003**	**0.3335**	**6.6900e-003**	**0.3402**	**0.0923**	**6.3700e-003**	**0.0987**						

3.9 Dry Utilities - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3343	26.0589	15.6605	0.0374		1.1180	1.1180		1.0286	1.0286						
Total	**2.3343**	**26.0589**	**15.6605**	**0.0374**		**1.1180**	**1.1180**		**1.0286**	**1.0286**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	7.8300e-003	0.2253	0.0638	5.3000e-004	0.0135	1.1200e-003	0.0147	3.9000e-003	1.0800e-003	4.9700e-003						
Worker	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446						
Total	**0.0910**	**0.2809**	**0.5983**	**2.1200e-003**	**0.1778**	**2.2700e-003**	**0.1801**	**0.0475**	**2.1400e-003**	**0.0496**						

3.9 Dry Utilities - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9225	18.8987	22.7729	0.0374		0.9398	0.9398		0.9398	0.9398						
Total	**0.9225**	**18.8987**	**22.7729**	**0.0374**		**0.9398**	**0.9398**		**0.9398**	**0.9398**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	7.8300e-003	0.2253	0.0638	5.3000e-004	0.0135	1.1200e-003	0.0147	3.9000e-003	1.0800e-003	4.9700e-003						
Worker	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446						
Total	**0.0910**	**0.2809**	**0.5983**	**2.1200e-003**	**0.1778**	**2.2700e-003**	**0.1801**	**0.0475**	**2.1400e-003**	**0.0496**						

3.9 Dry Utilities - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1211	23.0383	15.4357	0.0374		0.9625	0.9625		0.8855	0.8855						
Total	**2.1211**	**23.0383**	**15.4357**	**0.0374**		**0.9625**	**0.9625**		**0.8855**	**0.8855**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	6.3700e-003	0.2031	0.0578	5.3000e-004	0.0135	4.5000e-004	0.0140	3.9000e-003	4.3000e-004	4.3200e-003						
Worker	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446						
Total	**0.0848**	**0.2536**	**0.5564**	**2.0600e-003**	**0.1778**	**1.5800e-003**	**0.1794**	**0.0475**	**1.4800e-003**	**0.0489**						

3.9 Dry Utilities - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9225	18.8987	22.7729	0.0374		0.9398	0.9398		0.9398	0.9398						
Total	**0.9225**	**18.8987**	**22.7729**	**0.0374**		**0.9398**	**0.9398**		**0.9398**	**0.9398**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	6.3700e-003	0.2031	0.0578	5.3000e-004	0.0135	4.5000e-004	0.0140	3.9000e-003	4.3000e-004	4.3200e-003						
Worker	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446						
Total	**0.0848**	**0.2536**	**0.5564**	**2.0600e-003**	**0.1778**	**1.5800e-003**	**0.1794**	**0.0475**	**1.4800e-003**	**0.0489**						

3.10 Street Improvements - Balance & Subgrade Prep - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3630	0.0000	6.3630	0.6871	0.0000	0.6871						
Off-Road	6.4387	76.2134	45.3892	0.1018		2.9685	2.9685		2.7310	2.7310						
Total	**6.4387**	**76.2134**	**45.3892**	**0.1018**	**6.3630**	**2.9685**	**9.3315**	**0.6871**	**2.7310**	**3.4181**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.1373	0.0883	0.8726	2.6900e-003	0.2875	1.9900e-003	0.2895	0.0763	1.8300e-003	0.0781						
Total	**0.1373**	**0.0883**	**0.8726**	**2.6900e-003**	**0.2875**	**1.9900e-003**	**0.2895**	**0.0763**	**1.8300e-003**	**0.0781**						

3.10 Street Improvements - Balance & Subgrade Prep - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8634	0.0000	2.8634	0.3092	0.0000	0.3092						
Off-Road	2.4996	49.5818	57.4493	0.1018		2.1443	2.1443		2.1443	2.1443						
Total	**2.4996**	**49.5818**	**57.4493**	**0.1018**	**2.8634**	**2.1443**	**5.0076**	**0.3092**	**2.1443**	**2.4535**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.1373	0.0883	0.8726	2.6900e-003	0.2875	1.9900e-003	0.2895	0.0763	1.8300e-003	0.0781						
Total	**0.1373**	**0.0883**	**0.8726**	**2.6900e-003**	**0.2875**	**1.9900e-003**	**0.2895**	**0.0763**	**1.8300e-003**	**0.0781**						

3.11 Street Improvements - Curb & Gutter - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3841	3.8805	5.0828	8.1500e-003		0.1916	0.1916		0.1763	0.1763						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**0.3841**	**3.8805**	**5.0828**	**8.1500e-003**		**0.1916**	**0.1916**		**0.1763**	**0.1763**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0797	2.5390	0.7224	6.6000e-003	0.1692	5.5600e-003	0.1748	0.0487	5.3200e-003	0.0540						
Worker	0.0196	0.0126	0.1247	3.8000e-004	0.0411	2.8000e-004	0.0414	0.0109	2.6000e-004	0.0112						
Total	**0.0993**	**2.5516**	**0.8470**	**6.9800e-003**	**0.2103**	**5.8400e-003**	**0.2162**	**0.0596**	**5.5800e-003**	**0.0652**						

3.11 Street Improvements - Curb & Gutter - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2012	3.8888	6.2020	8.1500e-003		0.1877	0.1877		0.1877	0.1877						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**0.2012**	**3.8888**	**6.2020**	**8.1500e-003**		**0.1877**	**0.1877**		**0.1877**	**0.1877**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0797	2.5390	0.7224	6.6000e-003	0.1692	5.5600e-003	0.1748	0.0487	5.3200e-003	0.0540						
Worker	0.0196	0.0126	0.1247	3.8000e-004	0.0411	2.8000e-004	0.0414	0.0109	2.6000e-004	0.0112						
Total	**0.0993**	**2.5516**	**0.8470**	**6.9800e-003**	**0.2103**	**5.8400e-003**	**0.2162**	**0.0596**	**5.5800e-003**	**0.0652**						

3.12 Street Improvements - Base & Pave - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0624	36.5853	20.4001	0.0464		1.4721	1.4721		1.3544	1.3544						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**3.0624**	**36.5853**	**20.4001**	**0.0464**		**1.4721**	**1.4721**		**1.3544**	**1.3544**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0191	0.6094	0.1734	1.5800e-003	0.0406	1.3400e-003	0.0420	0.0117	1.2800e-003	0.0130						
Worker	0.0981	0.0631	0.6233	1.9200e-003	0.2054	1.4200e-003	0.2068	0.0545	1.3100e-003	0.0558						
Total	**0.1172**	**0.6724**	**0.7967**	**3.5000e-003**	**0.2460**	**2.7600e-003**	**0.2487**	**0.0662**	**2.5900e-003**	**0.0688**						

3.12 Street Improvements - Base & Pave - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1375	22.8933	29.1244	0.0464		1.1035	1.1035		1.1035	1.1035						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**1.1375**	**22.8933**	**29.1244**	**0.0464**		**1.1035**	**1.1035**		**1.1035**	**1.1035**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0191	0.6094	0.1734	1.5800e-003	0.0406	1.3400e-003	0.0420	0.0117	1.2800e-003	0.0130						
Worker	0.0981	0.0631	0.6233	1.9200e-003	0.2054	1.4200e-003	0.2068	0.0545	1.3100e-003	0.0558						
Total	**0.1172**	**0.6724**	**0.7967**	**3.5000e-003**	**0.2460**	**2.7600e-003**	**0.2487**	**0.0662**	**2.5900e-003**	**0.0688**						

3.13 Street Improvements - Concrete Flatwork - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3020	4.0141	5.5598	8.2700e-003		0.1633	0.1633		0.1503	0.1503						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**0.3020**	**4.0141**	**5.5598**	**8.2700e-003**		**0.1633**	**0.1633**		**0.1503**	**0.1503**						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0392	0.0252	0.2493	7.7000e-004	0.0822	5.7000e-004	0.0827	0.0218	5.2000e-004	0.0223						
Total	**0.0392**	**0.0252**	**0.2493**	**7.7000e-004**	**0.0822**	**5.7000e-004**	**0.0827**	**0.0218**	**5.2000e-004**	**0.0223**						

3.13 Street Improvements - Concrete Flatwork - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2036	4.6489	6.2777	8.2700e-003		0.3258	0.3258		0.3258	0.3258						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**0.2036**	**4.6489**	**6.2777**	**8.2700e-003**		**0.3258**	**0.3258**		**0.3258**	**0.3258**						

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0392	0.0252	0.2493	7.7000e-004	0.0822	5.7000e-004	0.0827	0.0218	5.2000e-004	0.0223						
Total	**0.0392**	**0.0252**	**0.2493**	**7.7000e-004**	**0.0822**	**5.7000e-004**	**0.0827**	**0.0218**	**5.2000e-004**	**0.0223**						

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	19.1110	83.5818	229.6644	0.7977	73.1487	0.6754	73.8240	19.5497	0.6307	20.1804						
Unmitigated	19.1110	83.5818	229.6644	0.7977	73.1487	0.6754	73.8240	19.5497	0.6307	20.1804						

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	3,654.00	3,654.00	3654.00	13,393,664	13,393,664
Condo/Townhouse	3,144.00	3,144.00	3144.00	8,640,341	8,640,341
Single Family Housing	4,350.00	4,350.00	4350.00	9,563,736	9,563,736
Strip Mall	640.00	640.00	640.00	2,900,352	2,900,352
Total	11,788.00	11,788.00	11,788.00	34,498,093	34,498,093

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.07	0.00	0.00	100.00	0.00	0.00	100	0	0
Condo/Townhouse	7.55	0.00	0.00	100.00	0.00	0.00	100	0	0
Single Family Housing	6.04	0.00	0.00	100.00	0.00	0.00	100	0	0
Strip Mall	0.00	12.45	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122
Condo/Townhouse	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122
Single Family Housing	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122
Strip Mall	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6023	5.1476	2.1945	0.0329		0.4161	0.4161		0.4161	0.4161						
NaturalGas Unmitigated	0.6023	5.1476	2.1945	0.0329		0.4161	0.4161		0.4161	0.4161						

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	12394.8	0.1337	1.1423	0.4861	7.2900e-003		0.0924	0.0924		0.0924	0.0924						
Condo/Townhouse	15486.2	0.1670	1.4272	0.6073	9.1100e-003		0.1154	0.1154		0.1154	0.1154						
Single Family Housing	27872.1	0.3006	2.5686	1.0930	0.0164		0.2077	0.2077		0.2077	0.2077						
Strip Mall	97.7534	1.0500e-003	9.5800e-003	8.0500e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004						
Total		**0.6023**	**5.1476**	**2.1944**	**0.0329**		**0.4161**	**0.4161**		**0.4161**	**0.4161**						

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	12.3948	0.1337	1.1423	0.4861	7.2900e-003		0.0924	0.0924		0.0924	0.0924						
Condo/Townhouse	15.4862	0.1670	1.4272	0.6073	9.1100e-003		0.1154	0.1154		0.1154	0.1154						
Single Family Housing	27.8721	0.3006	2.5686	1.0930	0.0164		0.2077	0.2077		0.2077	0.2077						
Strip Mall	0.0977534	1.0500e-003	9.5800e-003	8.0500e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004						
Total		**0.6023**	**5.1476**	**2.1944**	**0.0329**		**0.4161**	**0.4161**		**0.4161**	**0.4161**						

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	46.0528	1.3688	118.6836	6.2600e-003		0.6558	0.6558		0.6558	0.6558						
Unmitigated	46.0528	1.3688	118.6836	6.2600e-003		0.6558	0.6558		0.6558	0.6558						

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.9266					0.0000	0.0000		0.0000	0.0000						
Consumer Products	38.5414					0.0000	0.0000		0.0000	0.0000						
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Landscaping	3.5848	1.3688	118.6836	6.2600e-003		0.6558	0.6558		0.6558	0.6558						
Total	**46.0528**	**1.3688**	**118.6836**	**6.2600e-003**		**0.6558**	**0.6558**		**0.6558**	**0.6558**						

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.9266					0.0000	0.0000		0.0000	0.0000						
Consumer Products	38.5414					0.0000	0.0000		0.0000	0.0000						
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Landscaping	3.5848	1.3688	118.6836	6.2600e-003		0.6558	0.6558		0.6558	0.6558						
Total	**46.0528**	**1.3688**	**118.6836**	**6.2600e-003**		**0.6558**	**0.6558**		**0.6558**	**0.6558**						

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

3 Roots San Diego - Phase II (Mitigated)

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	23.46	1000sqft	0.54	23,460.00	0
City Park	25.40	Acre	25.40	1,106,424.00	0
High Turnover (Sit Down Restaurant)	86.40	1000sqft	1.98	86,400.00	0
Apartments High Rise	609.00	Dwelling Unit	9.82	609,000.00	1742
Condo/Townhouse	643.00	Dwelling Unit	40.19	643,000.00	1839
Single Family Housing	548.00	Dwelling Unit	177.92	986,400.00	1567
Regional Shopping Center	20.70	1000sqft	0.48	20,700.00	0
Strip Mall	29.60	1000sqft	0.68	29,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Assumptions provided by JT Kruer & Co.

Off-road Equipment - Assumptions provided by JT Kruer & Co.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Assumptions provided by JT Kruer & Co.

Off-road Equipment - Assumptions provided by JT Kruer & Co.

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Off-road Equipment - Assumptions provided by JT Kruer & Co.

Off-road Equipment - Assumptions provided by JT Kruer & Co.

Off-road Equipment - Assumptions provided by JT Kruer & Co.

Trips and VMT - Assumptions provided by JT Kruer & Co.

Grading -

Architectural Coating - SDAPCD Rule 67

Vehicle Trips - STC Traffic Inc. 2018

Woodstoves - No Hearth

Area Coating - SDAPCD Rule 67

Construction Off-road Equipment Mitigation - Tier 3 Offroad Equipment & Dust BMPs

Mobile Land Use Mitigation -

Area Mitigation -

3 Roots San Diego - Phase II (Mitigated) - San Diego County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,510,920.00	1,503,900.00
tblArchitecturalCoating	ConstArea_Residential_Interior	4,532,760.00	4,511,700.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaCoating	Area_Residential_Exterior	1510920	1503900
tblAreaCoating	Area_Residential_Interior	4532760	4511700
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	330.00	326.00
tblConstructionPhase	NumDays	4,650.00	347.00
tblConstructionPhase	NumDays	465.00	7.00
tblConstructionPhase	NumDays	465.00	50.00
tblConstructionPhase	NumDays	465.00	58.00

tblConstructionPhase	NumDays	465.00	75.00
tblConstructionPhase	NumDays	465.00	34.00
tblConstructionPhase	NumDays	465.00	28.00
tblConstructionPhase	NumDays	330.00	8.00
tblConstructionPhase	NumDays	330.00	17.00
tblConstructionPhase	NumDays	330.00	22.00
tblConstructionPhase	NumDays	330.00	52.00
tblConstructionPhase	NumDays	180.00	11.00
tblConstructionPhase	NumDays	180.00	49.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	334.95	0.00
tblFireplaces	NumberGas	353.65	0.00
tblFireplaces	NumberGas	301.40	0.00
tblFireplaces	NumberNoFireplace	60.90	633.00
tblFireplaces	NumberNoFireplace	64.30	632.00
tblFireplaces	NumberNoFireplace	54.80	535.00
tblFireplaces	NumberWood	213.15	0.00
tblFireplaces	NumberWood	225.05	0.00
tblFireplaces	NumberWood	191.80	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblSolidWaste	SolidWasteGenerationRate	280.14	291.18
tblSolidWaste	SolidWasteGenerationRate	295.78	290.72
tblSolidWaste	SolidWasteGenerationRate	642.47	627.30
tblTripsAndVMT	HaulingTripLength	20.00	7.80
tblTripsAndVMT	HaulingTripLength	20.00	7.80
tblTripsAndVMT	HaulingTripNumber	0.00	698.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,918.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	25.00
tblTripsAndVMT	VendorTripNumber	400.00	241.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	25.00
tblTripsAndVMT	WorkerTripNumber	1,623.00	727.00
tblTripsAndVMT	WorkerTripNumber	325.00	145.00
tblVehicleTrips	CC_TL	7.30	9.59
tblVehicleTrips	CC_TL	7.30	21.86
tblVehicleTrips	CC_TL	7.30	5.05

tblVehicleTrips	CC_TL	7.30	14.59
tblVehicleTrips	CC_TTP	48.00	100.00
tblVehicleTrips	CC_TTP	48.00	100.00
tblVehicleTrips	CC_TTP	72.50	100.00
tblVehicleTrips	CC_TTP	64.70	100.00
tblVehicleTrips	CC_TTP	64.40	100.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	8.50	0.00
tblVehicleTrips	CW_TTP	16.30	0.00
tblVehicleTrips	CW_TTP	16.60	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
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tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HO_TTP	39.60	0.00

tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
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tblVehicleTrips	HW_TL	10.80	7.92
tblVehicleTrips	HW_TL	10.80	6.34
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
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tblVehicleTrips	PR_TP	37.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	4.98	5.69
tblVehicleTrips	ST_TR	22.75	47.39

tblVehicleTrips	ST_TR	5.67	7.58
tblVehicleTrips	ST_TR	2.46	22.79
tblVehicleTrips	ST_TR	158.37	98.58
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tblVehicleTrips	ST_TR	9.91	9.48
tblVehicleTrips	ST_TR	42.04	34.14
tblVehicleTrips	SU_TR	3.65	5.69
tblVehicleTrips	SU_TR	16.74	47.39
tblVehicleTrips	SU_TR	4.84	7.58
tblVehicleTrips	SU_TR	1.05	22.79
tblVehicleTrips	SU_TR	131.84	98.58
tblVehicleTrips	SU_TR	25.24	68.23
tblVehicleTrips	SU_TR	8.62	9.48
tblVehicleTrips	SU_TR	20.43	34.14
tblVehicleTrips	WD_TR	4.20	5.69
tblVehicleTrips	WD_TR	1.89	47.39
tblVehicleTrips	WD_TR	5.81	7.58
tblVehicleTrips	WD_TR	11.03	22.79
tblVehicleTrips	WD_TR	127.15	98.58
tblVehicleTrips	WD_TR	42.70	68.23
tblVehicleTrips	WD_TR	9.52	9.48
tblVehicleTrips	WD_TR	44.32	34.14
tblWater	IndoorWaterUseRate	39,678,801.60	41,242,498.22
tblWater	IndoorWaterUseRate	41,894,038.47	41,177,344.19
tblWater	IndoorWaterUseRate	35,704,406.04	34,857,403.71
tblWater	OutdoorWaterUseRate	25,014,896.66	26,000,705.40
tblWater	OutdoorWaterUseRate	26,411,459.04	25,959,630.03

tblWater	OutdoorWaterUseRate	22,509,299.46	21,975,319.73
tblWoodstoves	NumberCatalytic	30.45	0.00
tblWoodstoves	NumberCatalytic	32.15	0.00
tblWoodstoves	NumberCatalytic	27.40	0.00
tblWoodstoves	NumberNoncatalytic	30.45	0.00
tblWoodstoves	NumberNoncatalytic	32.15	0.00
tblWoodstoves	NumberNoncatalytic	27.40	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	12.7129	142.0720	82.1121	0.1873	21.3460	5.6722	27.0181	7.6700	5.2184	12.8885						
2021	6.6186	106.7767	44.8894	0.1834	8.8224	2.5398	11.3622	3.9902	2.3403	6.3306						
2022	63.8763	42.1430	44.9440	0.1572	8.7947	0.9854	9.7801	2.3697	0.9317	3.3014						
2023	63.4034	35.6951	42.7097	0.1531	8.7947	0.8407	9.6355	2.3697	0.7947	3.1643						
Maximum	**63.8763**	**142.0720**	**82.1121**	**0.1873**	**21.3460**	**5.6722**	**27.0181**	**7.6700**	**5.2184**	**12.8885**						

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.6785	87.7361	99.1514	0.1873	9.7638	3.3263	13.0901	3.4935	3.3261	6.8196						
2021	3.2358	82.9698	59.4896	0.1834	5.2186	2.1974	6.8782	2.1381	2.1972	3.7932						
2022	62.6988	40.7019	46.4732	0.1572	8.7947	1.0933	9.8880	2.3697	1.0874	3.4571						
2023	62.3723	35.5902	44.3607	0.1531	8.7947	1.0688	9.8635	2.3697	1.0640	3.4337						
Maximum	**62.6988**	**87.7361**	**99.1514**	**0.1873**	**9.7638**	**3.3263**	**13.0901**	**3.4935**	**3.3261**	**6.8196**						

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**9.29**	**24.39**	**-16.22**	**0.00**	**31.80**	**23.43**	**31.28**	**36.76**	**17.34**	**31.85**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	61.0439	1.7124	148.5543	7.8400e-003		0.8222	0.8222		0.8222	0.8222						
Energy	1.2480	10.9173	6.3882	0.0681		0.8623	0.8623		0.8623	0.8623						
Mobile	38.3912	149.5784	457.3301	1.6229	153.9123	1.2736	155.1860	41.1323	1.1862	42.3184						
Total	**100.6832**	**162.2081**	**612.2726**	**1.6988**	**153.9123**	**2.9581**	**156.8704**	**41.1323**	**2.8706**	**44.0029**						

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	61.0439	1.7124	148.5543	7.8400e-003		0.8222	0.8222		0.8222	0.8222						
Energy	1.2480	10.9173	6.3882	0.0681		0.8623	0.8623		0.8623	0.8623						
Mobile	36.5283	139.9732	416.4497	1.4423	135.7507	1.1411	136.8917	36.2787	1.0626	37.3413						
Total	**98.8203**	**152.6029**	**571.3923**	**1.5182**	**135.7507**	**2.8256**	**138.5762**	**36.2787**	**2.7471**	**39.0257**						

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.85**	**5.92**	**6.68**	**10.63**	**11.80**	**4.48**	**11.66**	**11.80**	**4.30**	**11.31**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Clear & Grub	Site Preparation	2/4/2020	2/18/2020	5	11	
2	Mass Excavation	Grading	2/19/2020	4/28/2020	5	50	
3	Finish Grading	Grading	4/29/2020	7/17/2020	5	58	
4	Arch Culvert Crossing	Grading	4/29/2020	8/11/2020	5	75	
5	Wet Utilities	Trenching	5/11/2020	2/9/2021	5	197	
6	Drop Structures and Casing	Grading	8/12/2020	9/28/2020	5	34	
7	Pedestrian Bridge	Grading	9/29/2020	11/5/2020	5	28	
8	Dry Utilities	Trenching	11/12/2020	4/23/2021	5	117	
9	Street Improvements - Balance & Subgrade Prep	Site Preparation	4/8/2021	6/15/2021	5	49	
10	Street Improvements - Curb & Gutter	Paving	6/16/2021	6/25/2021	5	8	
11	Street Improvements - Base & Pave	Paving	6/26/2021	7/20/2021	5	17	
12	Street Improvements - Concrete Flatwork	Paving	7/21/2021	8/19/2021	5	22	
13	Off-Site Carroll Canyon Road	Paving	7/31/2021	10/12/2021	5	52	
14	Import Excavation	Grading	9/23/2021	10/1/2021	5	7	
15	Building Construction	Building Construction	4/1/2022	7/31/2023	5	347	
16	Architectural Coating	Architectural Coating	5/1/2022	7/31/2023	5	326	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 4,511,700; Residential Outdoor: 1,503,900; Non-Residential Indoor: 240,240; Non-Residential Outdoor: 80,080; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Clear & Grub	Crawler Tractors	4	8.00	212	0.43
Clear & Grub	Rubber Tired Dozers	0	8.00	247	0.40
Clear & Grub	Rubber Tired Loaders	2	8.00	203	0.36
Clear & Grub	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Mass Excavation	Excavators	0	8.00	158	0.38
Mass Excavation	Graders	1	8.00	187	0.41
Mass Excavation	Off-Highway Trucks	3	8.00	402	0.38
Mass Excavation	Rubber Tired Dozers	2	8.00	247	0.40
Mass Excavation	Scrapers	8	8.00	367	0.48
Mass Excavation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Finish Grading	Crawler Tractors	2	8.00	212	0.43
Finish Grading	Excavators	0	8.00	158	0.38
Finish Grading	Graders	4	8.00	187	0.41
Finish Grading	Rubber Tired Dozers	0	8.00	247	0.40
Finish Grading	Scrapers	0	8.00	367	0.48
Finish Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Arch Culvert Crossing	Crawler Tractors	1	8.00	212	0.43
Arch Culvert Crossing	Excavators	2	8.00	158	0.38
Arch Culvert Crossing	Graders	0	8.00	187	0.41
Arch Culvert Crossing	Rubber Tired Dozers	0	8.00	247	0.40

Arch Culvert Crossing	Rubber Tired Loaders	1	8.00	203	0.36
Arch Culvert Crossing	Scrapers	0	8.00	367	0.48
Arch Culvert Crossing	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Wet Utilities	Excavators	4	8.00	158	0.38
Wet Utilities	Rubber Tired Loaders	4	8.00	203	0.36
Wet Utilities	Skid Steer Loaders	4	8.00	65	0.37
Drop Structures and Casing	Excavators	1	8.00	158	0.38
Drop Structures and Casing	Graders	0	8.00	187	0.41
Drop Structures and Casing	Rubber Tired Dozers	0	8.00	247	0.40
Drop Structures and Casing	Rubber Tired Loaders	2	8.00	203	0.36
Drop Structures and Casing	Scrapers	0	8.00	367	0.48
Drop Structures and Casing	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pedestrian Bridge	Cranes	1	8.00	231	0.29
Pedestrian Bridge	Excavators	1	8.00	158	0.38
Pedestrian Bridge	Graders	0	8.00	187	0.41
Pedestrian Bridge	Rubber Tired Dozers	0	8.00	247	0.40
Pedestrian Bridge	Rubber Tired Loaders	1	8.00	203	0.36
Pedestrian Bridge	Scrapers	0	8.00	367	0.48
Pedestrian Bridge	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Dry Utilities	Rubber Tired Loaders	4	8.00	203	0.36
Dry Utilities	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Street Improvements - Balance & Subgrade Prep	Graders	2	8.00	187	0.41
Street Improvements - Balance & Subgrade Prep	Rollers	1	8.00	80	0.38
Street Improvements - Balance & Subgrade Prep	Rubber Tired Dozers	0	8.00	247	0.40
Street Improvements - Balance & Subgrade Prep	Scrapers	2	8.00	367	0.48
Street Improvements - Balance & Subgrade Prep	Skid Steer Loaders	1	8.00	65	0.37

Street Improvements - Balance & Subgrade Prep	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Street Improvements - Curb & Gutter	Pavers	0	8.00	130	0.42
Street Improvements - Curb & Gutter	Paving Equipment	1	8.00	132	0.36
Street Improvements - Curb & Gutter	Rollers	0	8.00	80	0.38
Street Improvements - Base & Pave	Graders	2	8.00	187	0.41
Street Improvements - Base & Pave	Pavers	1	8.00	130	0.42
Street Improvements - Base & Pave	Paving Equipment	0	8.00	132	0.36
Street Improvements - Base & Pave	Rollers	1	8.00	80	0.38
Street Improvements - Concrete Flatwork	Pavers	0	8.00	130	0.42
Street Improvements - Concrete Flatwork	Paving Equipment	0	8.00	132	0.36
Street Improvements - Concrete Flatwork	Rollers	0	8.00	80	0.38
Street Improvements - Concrete Flatwork	Skid Steer Loaders	2	8.00	65	0.37
Off-Site Carroll Canyon Road	Graders	2	8.00	187	0.41
Off-Site Carroll Canyon Road	Pavers	1	8.00	130	0.42
Off-Site Carroll Canyon Road	Paving Equipment	1	8.00	132	0.36
Off-Site Carroll Canyon Road	Rollers	1	8.00	80	0.38
Off-Site Carroll Canyon Road	Scrapers	2	8.00	367	0.48
Off-Site Carroll Canyon Road	Skid Steer Loaders	1	8.00	65	0.37
Import Excavation	Excavators	0	8.00	158	0.38
Import Excavation	Graders	1	8.00	187	0.41
Import Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Import Excavation	Rubber Tired Loaders	1	8.00	203	0.36
Import Excavation	Scrapers	0	8.00	367	0.48
Import Excavation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20

Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Clear & Grub	6	15.00	0.00	698.00	10.80	7.30	7.80	LD_Mix	HDT_Mix	HHDT
Mass Excavation	14	35.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finish Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Arch Culvert Crossing	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wet Utilities	12	30.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Drop Structures and Casing	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pedestrian Bridge	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Dry Utilities	8	20.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvements - Balance & Subgrade	6	15.00	25.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvements - Curb & Gutter	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvements - Base & Pave	4	10.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvements - Concrete Flatwork	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Off-Site Carroll Canyon Road	8	20.00	25.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Import Excavation	3	8.00	0.00	1,918.00	10.80	7.30	7.80	LD_Mix	HDT_Mix	HHDT
Building Construction	9	727.00	241.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	145.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Clear & Grub - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1210	0.0000	2.1210	0.2290	0.0000	0.2290						
Off-Road	3.0636	38.6098	13.2707	0.0439		1.4154	1.4154		1.3021	1.3021						
Total	**3.0636**	**38.6098**	**13.2707**	**0.0439**	**2.1210**	**1.4154**	**3.5364**	**0.2290**	**1.3021**	**1.5312**						

3.2 Clear & Grub - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2765	10.5721	2.3263	0.0226	0.4332	0.0253	0.4585	0.1188	0.0242	0.1430						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0623	0.0416	0.4009	1.1900e-003	0.1232	8.6000e-004	0.1241	0.0327	8.0000e-004	0.0335						
Total	**0.3388**	**10.6138**	**2.7272**	**0.0238**	**0.5565**	**0.0261**	**0.5826**	**0.1515**	**0.0250**	**0.1764**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9545	0.0000	0.9545	0.1031	0.0000	0.1031						
Off-Road	1.0811	20.9008	23.4233	0.0439		0.7928	0.7928		0.7928	0.7928						
Total	**1.0811**	**20.9008**	**23.4233**	**0.0439**	**0.9545**	**0.7928**	**1.7472**	**0.1031**	**0.7928**	**0.8959**						

3.2 Clear & Grub - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2765	10.5721	2.3263	0.0226	0.4332	0.0253	0.4585	0.1188	0.0242	0.1430						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0623	0.0416	0.4009	1.1900e-003	0.1232	8.6000e-004	0.1241	0.0327	8.0000e-004	0.0335						
Total	**0.3388**	**10.6138**	**2.7272**	**0.0238**	**0.5565**	**0.0261**	**0.5826**	**0.1515**	**0.0250**	**0.1764**						

3.3 Mass Excavation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.0584	0.0000	21.0584	7.5938	0.0000	7.5938						
Off-Road	12.5674	141.9749	81.1768	0.1845		5.6702	5.6702		5.2166	5.2166						
Total	**12.5674**	**141.9749**	**81.1768**	**0.1845**	**21.0584**	**5.6702**	**26.7286**	**7.5938**	**5.2166**	**12.8103**						

3.3 Mass Excavation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.1455	0.0972	0.9354	2.7800e-003	0.2875	2.0200e-003	0.2895	0.0763	1.8600e-003	0.0781						
Total	**0.1455**	**0.0972**	**0.9354**	**2.7800e-003**	**0.2875**	**2.0200e-003**	**0.2895**	**0.0763**	**1.8600e-003**	**0.0781**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4763	0.0000	9.4763	3.4172	0.0000	3.4172						
Off-Road	4.5331	87.6390	98.2161	0.1845		3.3242	3.3242		3.3242	3.3242						
Total	**4.5331**	**87.6390**	**98.2161**	**0.1845**	**9.4763**	**3.3242**	**12.8005**	**3.4172**	**3.3242**	**6.7414**						

3.3 Mass Excavation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.1455	0.0972	0.9354	2.7800e-003	0.2875	2.0200e-003	0.2895	0.0763	1.8600e-003	0.0781						
Total	**0.1455**	**0.0972**	**0.9354**	**2.7800e-003**	**0.2875**	**2.0200e-003**	**0.2895**	**0.0763**	**1.8600e-003**	**0.0781**						

3.4 Finish Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1815	0.0000	3.1815	0.3435	0.0000	0.3435						
Off-Road	3.0610	40.1975	12.2578	0.0422		1.3702	1.3702		1.2606	1.2606						
Total	**3.0610**	**40.1975**	**12.2578**	**0.0422**	**3.1815**	**1.3702**	**4.5517**	**0.3435**	**1.2606**	**1.6041**						

3.4 Finish Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0623	0.0416	0.4009	1.1900e-003	0.1232	8.6000e-004	0.1241	0.0327	8.0000e-004	0.0335						
Total	**0.0623**	**0.0416**	**0.4009**	**1.1900e-003**	**0.1232**	**8.6000e-004**	**0.1241**	**0.0327**	**8.0000e-004**	**0.0335**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4317	0.0000	1.4317	0.1546	0.0000	0.1546						
Off-Road	1.0349	20.0088	22.4237	0.0422		0.7590	0.7590		0.7590	0.7590						
Total	**1.0349**	**20.0088**	**22.4237**	**0.0422**	**1.4317**	**0.7590**	**2.1906**	**0.1546**	**0.7590**	**0.9135**						

3.4 Finish Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0623	0.0416	0.4009	1.1900e-003	0.1232	8.6000e-004	0.1241	0.0327	8.0000e-004	0.0335						
Total	**0.0623**	**0.0416**	**0.4009**	**1.1900e-003**	**0.1232**	**8.6000e-004**	**0.1241**	**0.0327**	**8.0000e-004**	**0.0335**						

3.5 Arch Culvert Crossing - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573						
Off-Road	1.4429	16.6825	10.6710	0.0244		0.6608	0.6608		0.6079	0.6079						
Total	**1.4429**	**16.6825**	**10.6710**	**0.0244**	**0.5303**	**0.6608**	**1.1910**	**0.0573**	**0.6079**	**0.6652**						

3.5 Arch Culvert Crossing - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0416	0.0278	0.2673	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223						
Total	**0.0416**	**0.0278**	**0.2673**	**7.9000e-004**	**0.0822**	**5.8000e-004**	**0.0827**	**0.0218**	**5.3000e-004**	**0.0223**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258						
Off-Road	0.6018	11.6338	15.3675	0.0244		0.4921	0.4921		0.4921	0.4921						
Total	**0.6018**	**11.6338**	**15.3675**	**0.0244**	**0.2386**	**0.4921**	**0.7307**	**0.0258**	**0.4921**	**0.5179**						

3.5 Arch Culvert Crossing - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0416	0.0278	0.2673	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223						
Total	**0.0416**	**0.0278**	**0.2673**	**7.9000e-004**	**0.0822**	**5.8000e-004**	**0.0827**	**0.0218**	**5.3000e-004**	**0.0223**						

3.6 Wet Utilities - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7959	31.5383	25.1731	0.0539		1.2370	1.2370		1.1380	1.1380						
Total	**2.7959**	**31.5383**	**25.1731**	**0.0539**		**1.2370**	**1.2370**		**1.1380**	**1.1380**						

3.6 Wet Utilities - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	7.8300e-003	0.2253	0.0638	5.3000e-004	0.0135	1.1200e-003	0.0147	3.9000e-003	1.0800e-003	4.9700e-003						
Worker	0.1247	0.0833	0.8017	2.3800e-003	0.2464	1.7300e-003	0.2482	0.0654	1.5900e-003	0.0670						
Total	**0.1325**	**0.3086**	**0.8655**	**2.9100e-003**	**0.2600**	**2.8500e-003**	**0.2628**	**0.0693**	**2.6700e-003**	**0.0719**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3306	26.4368	35.3545	0.0539		1.2539	1.2539		1.2539	1.2539						
Total	**1.3306**	**26.4368**	**35.3545**	**0.0539**		**1.2539**	**1.2539**		**1.2539**	**1.2539**						

3.6 Wet Utilities - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	7.8300e-003	0.2253	0.0638	5.3000e-004	0.0135	1.1200e-003	0.0147	3.9000e-003	1.0800e-003	4.9700e-003						
Worker	0.1247	0.0833	0.8017	2.3800e-003	0.2464	1.7300e-003	0.2482	0.0654	1.5900e-003	0.0670						
Total	**0.1325**	**0.3086**	**0.8655**	**2.9100e-003**	**0.2600**	**2.8500e-003**	**0.2628**	**0.0693**	**2.6700e-003**	**0.0719**						

3.6 Wet Utilities - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5907	28.0828	25.0418	0.0539		1.0965	1.0965		1.0087	1.0087						
Total	**2.5907**	**28.0828**	**25.0418**	**0.0539**		**1.0965**	**1.0965**		**1.0087**	**1.0087**						

3.6 Wet Utilities - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	6.3700e-003	0.2031	0.0578	5.3000e-004	0.0135	4.5000e-004	0.0140	3.9000e-003	4.3000e-004	4.3200e-003						
Worker	0.1177	0.0757	0.7480	2.3000e-003	0.2464	1.7000e-003	0.2482	0.0654	1.5700e-003	0.0669						
Total	**0.1240**	**0.2788**	**0.8058**	**2.8300e-003**	**0.2600**	**2.1500e-003**	**0.2621**	**0.0693**	**2.0000e-003**	**0.0713**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3306	26.4368	35.3545	0.0539		1.2539	1.2539		1.2539	1.2539						
Total	**1.3306**	**26.4368**	**35.3545**	**0.0539**		**1.2539**	**1.2539**		**1.2539**	**1.2539**						

3.6 Wet Utilities - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	6.3700e-003	0.2031	0.0578	5.3000e-004	0.0135	4.5000e-004	0.0140	3.9000e-003	4.3000e-004	4.3200e-003						
Worker	0.1177	0.0757	0.7480	2.3000e-003	0.2464	1.7000e-003	0.2482	0.0654	1.5700e-003	0.0669						
Total	**0.1240**	**0.2788**	**0.8058**	**2.8300e-003**	**0.2600**	**2.1500e-003**	**0.2621**	**0.0693**	**2.0000e-003**	**0.0713**						

3.7 Drop Structures and Casing - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Off-Road	0.9932	11.2318	6.5387	0.0177		0.4096	0.4096		0.3769	0.3769						
Total	**0.9932**	**11.2318**	**6.5387**	**0.0177**	**0.0000**	**0.4096**	**0.4096**	**0.0000**	**0.3769**	**0.3769**						

3.7 Drop Structures and Casing - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0333	0.0222	0.2138	6.4000e-004	0.0657	4.6000e-004	0.0662	0.0174	4.2000e-004	0.0179						
Total	**0.0333**	**0.0222**	**0.2138**	**6.4000e-004**	**0.0657**	**4.6000e-004**	**0.0662**	**0.0174**	**4.2000e-004**	**0.0179**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Off-Road	0.4364	8.4373	10.6204	0.0177		0.3455	0.3455		0.3455	0.3455						
Total	**0.4364**	**8.4373**	**10.6204**	**0.0177**	**0.0000**	**0.3455**	**0.3455**	**0.0000**	**0.3455**	**0.3455**						

3.7 Drop Structures and Casing - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0333	0.0222	0.2138	6.4000e-004	0.0657	4.6000e-004	0.0662	0.0174	4.2000e-004	0.0179						
Total	**0.0333**	**0.0222**	**0.2138**	**6.4000e-004**	**0.0657**	**4.6000e-004**	**0.0662**	**0.0174**	**4.2000e-004**	**0.0179**						

3.8 Pedestrian Bridge - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Off-Road	1.0725	12.2137	7.0186	0.0172		0.4855	0.4855		0.4467	0.4467						
Total	**1.0725**	**12.2137**	**7.0186**	**0.0172**	**0.0000**	**0.4855**	**0.4855**	**0.0000**	**0.4467**	**0.4467**						

3.8 Pedestrian Bridge - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0333	0.0222	0.2138	6.4000e-004	0.0657	4.6000e-004	0.0662	0.0174	4.2000e-004	0.0179						
Total	**0.0333**	**0.0222**	**0.2138**	**6.4000e-004**	**0.0657**	**4.6000e-004**	**0.0662**	**0.0174**	**4.2000e-004**	**0.0179**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Off-Road	0.4235	8.1881	10.3411	0.0172		0.3360	0.3360		0.3360	0.3360						
Total	**0.4235**	**8.1881**	**10.3411**	**0.0172**	**0.0000**	**0.3360**	**0.3360**	**0.0000**	**0.3360**	**0.3360**						

3.8 Pedestrian Bridge - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0333	0.0222	0.2138	6.4000e-004	0.0657	4.6000e-004	0.0662	0.0174	4.2000e-004	0.0179						
Total	**0.0333**	**0.0222**	**0.2138**	**6.4000e-004**	**0.0657**	**4.6000e-004**	**0.0662**	**0.0174**	**4.2000e-004**	**0.0179**						

3.9 Dry Utilities - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3343	26.0589	15.6605	0.0374		1.1180	1.1180		1.0286	1.0286						
Total	**2.3343**	**26.0589**	**15.6605**	**0.0374**		**1.1180**	**1.1180**		**1.0286**	**1.0286**						

3.9 Dry Utilities - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	7.8300e-003	0.2253	0.0638	5.3000e-004	0.0135	1.1200e-003	0.0147	3.9000e-003	1.0800e-003	4.9700e-003						
Worker	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446						
Total	**0.0910**	**0.2809**	**0.5983**	**2.1200e-003**	**0.1778**	**2.2700e-003**	**0.1801**	**0.0475**	**2.1400e-003**	**0.0496**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9225	18.8987	22.7729	0.0374		0.9398	0.9398		0.9398	0.9398						
Total	**0.9225**	**18.8987**	**22.7729**	**0.0374**		**0.9398**	**0.9398**		**0.9398**	**0.9398**						

3.9 Dry Utilities - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	7.8300e-003	0.2253	0.0638	5.3000e-004	0.0135	1.1200e-003	0.0147	3.9000e-003	1.0800e-003	4.9700e-003						
Worker	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446						
Total	**0.0910**	**0.2809**	**0.5983**	**2.1200e-003**	**0.1778**	**2.2700e-003**	**0.1801**	**0.0475**	**2.1400e-003**	**0.0496**						

3.9 Dry Utilities - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1211	23.0383	15.4357	0.0374		0.9625	0.9625		0.8855	0.8855						
Total	**2.1211**	**23.0383**	**15.4357**	**0.0374**		**0.9625**	**0.9625**		**0.8855**	**0.8855**						

3.9 Dry Utilities - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	6.3700e-003	0.2031	0.0578	5.3000e-004	0.0135	4.5000e-004	0.0140	3.9000e-003	4.3000e-004	4.3200e-003						
Worker	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446						
Total	**0.0848**	**0.2536**	**0.5564**	**2.0600e-003**	**0.1778**	**1.5800e-003**	**0.1794**	**0.0475**	**1.4800e-003**	**0.0489**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9225	18.8987	22.7729	0.0374		0.9398	0.9398		0.9398	0.9398						
Total	**0.9225**	**18.8987**	**22.7729**	**0.0374**		**0.9398**	**0.9398**		**0.9398**	**0.9398**						

3.9 Dry Utilities - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	6.3700e-003	0.2031	0.0578	5.3000e-004	0.0135	4.5000e-004	0.0140	3.9000e-003	4.3000e-004	4.3200e-003						
Worker	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446						
Total	**0.0848**	**0.2536**	**0.5564**	**2.0600e-003**	**0.1778**	**1.5800e-003**	**0.1794**	**0.0475**	**1.4800e-003**	**0.0489**						

3.10 Street Improvements - Balance & Subgrade Prep - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1815	0.0000	3.1815	0.3435	0.0000	0.3435						
Off-Road	3.0299	36.1825	20.8142	0.0483		1.3666	1.3666		1.2573	1.2573						
Total	**3.0299**	**36.1825**	**20.8142**	**0.0483**	**3.1815**	**1.3666**	**4.5481**	**0.3435**	**1.2573**	**1.6008**						

3.10 Street Improvements - Balance & Subgrade Prep - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0797	2.5390	0.7224	6.6000e-003	0.1692	5.5600e-003	0.1748	0.0487	5.3200e-003	0.0540						
Worker	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335						
Total	**0.1385**	**2.5768**	**1.0964**	**7.7500e-003**	**0.2925**	**6.4100e-003**	**0.2989**	**0.0814**	**6.1000e-003**	**0.0875**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.4317	0.0000	1.4317	0.1546	0.0000	0.1546						
Off-Road	1.1854	23.3218	26.7409	0.0483		0.9692	0.9692		0.9692	0.9692						
Total	**1.1854**	**23.3218**	**26.7409**	**0.0483**	**1.4317**	**0.9692**	**2.4009**	**0.1546**	**0.9692**	**1.1238**						

3.10 Street Improvements - Balance & Subgrade Prep - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0797	2.5390	0.7224	6.6000e-003	0.1692	5.5600e-003	0.1748	0.0487	5.3200e-003	0.0540						
Worker	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335						
Total	**0.1385**	**2.5768**	**1.0964**	**7.7500e-003**	**0.2925**	**6.4100e-003**	**0.2989**	**0.0814**	**6.1000e-003**	**0.0875**						

3.11 Street Improvements - Curb & Gutter - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1920	1.9403	2.5414	4.0700e-003		0.0958	0.0958		0.0882	0.0882						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**0.1920**	**1.9403**	**2.5414**	**4.0700e-003**		**0.0958**	**0.0958**		**0.0882**	**0.0882**						

3.11 Street Improvements - Curb & Gutter - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0118	7.5700e-003	0.0748	2.3000e-004	0.0246	1.7000e-004	0.0248	6.5400e-003	1.6000e-004	6.6900e-003						
Total	**0.0118**	**7.5700e-003**	**0.0748**	**2.3000e-004**	**0.0246**	**1.7000e-004**	**0.0248**	**6.5400e-003**	**1.6000e-004**	**6.6900e-003**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1006	1.9444	3.1010	4.0700e-003		0.0939	0.0939		0.0939	0.0939						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**0.1006**	**1.9444**	**3.1010**	**4.0700e-003**		**0.0939**	**0.0939**		**0.0939**	**0.0939**						

3.11 Street Improvements - Curb & Gutter - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0118	7.5700e-003	0.0748	2.3000e-004	0.0246	1.7000e-004	0.0248	6.5400e-003	1.6000e-004	6.6900e-003						
Total	**0.0118**	**7.5700e-003**	**0.0748**	**2.3000e-004**	**0.0246**	**1.7000e-004**	**0.0248**	**6.5400e-003**	**1.6000e-004**	**6.6900e-003**						

3.12 Street Improvements - Base & Pave - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3417	16.3684	8.3196	0.0206		0.6184	0.6184		0.5690	0.5690						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**1.3417**	**16.3684**	**8.3196**	**0.0206**		**0.6184**	**0.6184**		**0.5690**	**0.5690**						

3.12 Street Improvements - Base & Pave - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0191	0.6094	0.1734	1.5800e-003	0.0406	1.3400e-003	0.0420	0.0117	1.2800e-003	0.0130						
Worker	0.0392	0.0252	0.2493	7.7000e-004	0.0822	5.7000e-004	0.0827	0.0218	5.2000e-004	0.0223						
Total	**0.0583**	**0.6346**	**0.4227**	**2.3500e-003**	**0.1228**	**1.9100e-003**	**0.1247**	**0.0335**	**1.8000e-003**	**0.0353**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5044	9.9775	12.5784	0.0206		0.4488	0.4488		0.4488	0.4488						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**0.5044**	**9.9775**	**12.5784**	**0.0206**		**0.4488**	**0.4488**		**0.4488**	**0.4488**						

3.12 Street Improvements - Base & Pave - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0191	0.6094	0.1734	1.5800e-003	0.0406	1.3400e-003	0.0420	0.0117	1.2800e-003	0.0130						
Worker	0.0392	0.0252	0.2493	7.7000e-004	0.0822	5.7000e-004	0.0827	0.0218	5.2000e-004	0.0223						
Total	**0.0583**	**0.6346**	**0.4227**	**2.3500e-003**	**0.1228**	**1.9100e-003**	**0.1247**	**0.0335**	**1.8000e-003**	**0.0353**						

3.13 Street Improvements - Concrete Flatwork - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1510	2.0071	2.7799	4.1400e-003		0.0817	0.0817		0.0751	0.0751						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**0.1510**	**2.0071**	**2.7799**	**4.1400e-003**		**0.0817**	**0.0817**		**0.0751**	**0.0751**						

3.13 Street Improvements - Concrete Flatwork - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0196	0.0126	0.1247	3.8000e-004	0.0411	2.8000e-004	0.0414	0.0109	2.6000e-004	0.0112						
Total	**0.0196**	**0.0126**	**0.1247**	**3.8000e-004**	**0.0411**	**2.8000e-004**	**0.0414**	**0.0109**	**2.6000e-004**	**0.0112**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1018	2.3245	3.1389	4.1400e-003		0.1629	0.1629		0.1629	0.1629						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**0.1018**	**2.3245**	**3.1389**	**4.1400e-003**		**0.1629**	**0.1629**		**0.1629**	**0.1629**						

3.13 Street Improvements - Concrete Flatwork - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0196	0.0126	0.1247	3.8000e-004	0.0411	2.8000e-004	0.0414	0.0109	2.6000e-004	0.0112						
Total	**0.0196**	**0.0126**	**0.1247**	**3.8000e-004**	**0.0411**	**2.8000e-004**	**0.0414**	**0.0109**	**2.6000e-004**	**0.0112**						

3.14 Off-Site Carroll Canyon Road - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4681	40.7178	26.2603	0.0570		1.5878	1.5878		1.4608	1.4608						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**3.4681**	**40.7178**	**26.2603**	**0.0570**		**1.5878**	**1.5878**		**1.4608**	**1.4608**						

3.14 Off-Site Carroll Canyon Road - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0797	2.5390	0.7224	6.6000e-003	0.1692	5.5600e-003	0.1748	0.0487	5.3200e-003	0.0540						
Worker	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446						
Total	**0.1581**	**2.5894**	**1.2210**	**8.1300e-003**	**0.3335**	**6.6900e-003**	**0.3402**	**0.0923**	**6.3700e-003**	**0.0987**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4016	27.5003	33.4049	0.0570		1.1709	1.1709		1.1709	1.1709						
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						
Total	**1.4016**	**27.5003**	**33.4049**	**0.0570**		**1.1709**	**1.1709**		**1.1709**	**1.1709**						

3.14 Off-Site Carroll Canyon Road - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0797	2.5390	0.7224	6.6000e-003	0.1692	5.5600e-003	0.1748	0.0487	5.3200e-003	0.0540						
Worker	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446						
Total	**0.1581**	**2.5894**	**1.2210**	**8.1300e-003**	**0.3335**	**6.6900e-003**	**0.3402**	**0.0923**	**6.3700e-003**	**0.0987**						

3.15 Import Excavation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675						
Off-Road	1.8423	20.7596	7.4037	0.0214		0.8490	0.8490		0.7811	0.7811						
Total	**1.8423**	**20.7596**	**7.4037**	**0.0214**	**6.5523**	**0.8490**	**7.4013**	**3.3675**	**0.7811**	**4.1486**						

3.15 Import Excavation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1186	42.6897	9.8049	0.0962	1.8708	0.0958	1.9666	0.5130	0.0917	0.6047						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0314	0.0202	0.1995	6.1000e-004	0.0657	4.5000e-004	0.0662	0.0174	4.2000e-004	0.0179						
Total	**1.1500**	**42.7099**	**10.0044**	**0.0968**	**1.9365**	**0.0963**	**2.0328**	**0.5304**	**0.0921**	**0.6225**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154						
Off-Road	0.5260	10.1701	11.3976	0.0214		0.3858	0.3858		0.3858	0.3858						
Total	**0.5260**	**10.1701**	**11.3976**	**0.0214**	**2.9486**	**0.3858**	**3.3343**	**1.5154**	**0.3858**	**1.9011**						

3.15 Import Excavation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1186	42.6897	9.8049	0.0962	1.8708	0.0958	1.9666	0.5130	0.0917	0.6047						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0314	0.0202	0.1995	6.1000e-004	0.0657	4.5000e-004	0.0662	0.0174	4.2000e-004	0.0179						
Total	**1.1500**	**42.7099**	**10.0044**	**0.0968**	**1.9365**	**0.0963**	**2.0328**	**0.5304**	**0.0921**	**0.6225**						

3.16 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612						
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**						

3.16 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.7146	23.1136	6.5933	0.0629	1.6315	0.0462	1.6777	0.4697	0.0442	0.5139						
Worker	2.7023	1.6718	16.8191	0.0537	5.9721	0.0404	6.0125	1.5841	0.0372	1.6213						
Total	**3.4169**	**24.7854**	**23.4125**	**0.1166**	**7.6036**	**0.0866**	**7.6902**	**2.0537**	**0.0814**	**2.1351**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036						
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**						

3.16 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.7146	23.1136	6.5933	0.0629	1.6315	0.0462	1.6777	0.4697	0.0442	0.5139						
Worker	2.7023	1.6718	16.8191	0.0537	5.9721	0.0404	6.0125	1.5841	0.0372	1.6213						
Total	**3.4169**	**24.7854**	**23.4125**	**0.1166**	**7.6036**	**0.0866**	**7.6902**	**2.0537**	**0.0814**	**2.1351**						

3.16 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584						
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**						

3.16 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.5516	18.1765	5.9556	0.0612	1.6315	0.0227	1.6542	0.4697	0.0217	0.4914						
Worker	2.5660	1.5263	15.5896	0.0517	5.9721	0.0396	6.0117	1.5841	0.0364	1.6205						
Total	**3.1176**	**19.7028**	**21.5452**	**0.1129**	**7.6036**	**0.0623**	**7.6659**	**2.0537**	**0.0581**	**2.1119**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036						
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**						

3.16 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.5516	18.1765	5.9556	0.0612	1.6315	0.0227	1.6542	0.4697	0.0217	0.4914						
Worker	2.5660	1.5263	15.5896	0.0517	5.9721	0.0396	6.0117	1.5841	0.0364	1.6205						
Total	**3.1176**	**19.7028**	**21.5452**	**0.1129**	**7.6036**	**0.0623**	**7.6659**	**2.0537**	**0.0581**	**2.1119**						

3.17 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	58.0096					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817						
Total	**58.2141**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**						

3.17 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.5390	0.3334	3.3546	0.0107	1.1911	8.0500e-003	1.1992	0.3160	7.4100e-003	0.3234						
Total	**0.5390**	**0.3334**	**3.3546**	**0.0107**	**1.1911**	**8.0500e-003**	**1.1992**	**0.3160**	**7.4100e-003**	**0.3234**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	58.0096					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951						
Total	**58.0690**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**						

3.17 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.5390	0.3334	3.3546	0.0107	1.1911	8.0500e-003	1.1992	0.3160	7.4100e-003	0.3234						
Total	**0.5390**	**0.3334**	**3.3546**	**0.0107**	**1.1911**	**8.0500e-003**	**1.1992**	**0.3160**	**7.4100e-003**	**0.3234**						

3.17 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	58.0096					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708						
Total	**58.2012**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**						

3.17 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.5118	0.3044	3.1094	0.0103	1.1911	7.8900e-003	1.1990	0.3160	7.2700e-003	0.3232						
Total	**0.5118**	**0.3044**	**3.1094**	**0.0103**	**1.1911**	**7.8900e-003**	**1.1990**	**0.3160**	**7.2700e-003**	**0.3232**						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	58.0096					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951						
Total	**58.0690**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**						

3.17 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.5118	0.3044	3.1094	0.0103	1.1911	7.8900e-003	1.1990	0.3160	7.2700e-003	0.3232						
Total	**0.5118**	**0.3044**	**3.1094**	**0.0103**	**1.1911**	**7.8900e-003**	**1.1990**	**0.3160**	**7.2700e-003**	**0.3232**						

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Increase Transit Accessibility

Integrate Below Market Rate Housing

Improve Pedestrian Network

Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	36.5283	139.9732	416.4497	1.4423	135.7507	1.1411	136.8917	36.2787	1.0626	37.3413						
Unmitigated	38.3912	149.5784	457.3301	1.6229	153.9123	1.2736	155.1860	41.1323	1.1862	42.3184						

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	3,465.21	3,465.21	3465.21	13,319,713	11,747,987
City Park	1,203.71	1,203.71	1203.71	4,201,849	3,706,031
Condo/Townhouse	4,873.94	4,873.94	4873.94	14,050,984	12,392,968
General Office Building	534.65	534.65	534.65	4,254,258	3,752,256
High Turnover (Sit Down Restaurant)	8,517.31	8,517.31	8517.31	15,656,523	13,809,053
Regional Shopping Center	1,412.36	1,412.36	1412.36	3,752,926	3,310,080
Single Family Housing	5,195.04	5,195.04	5195.04	11,988,906	10,574,215
Strip Mall	1,010.54	1,010.54	1010.54	5,366,757	4,733,479
Total	26,212.77	26,212.77	26,212.77	72,591,915	64,026,069

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.56	7.30	7.50	100.00	0.00	0.00	100	0	0
City Park	9.50	9.59	7.30	0.00	100.00	0.00	100	0	0
Condo/Townhouse	7.92	7.30	7.50	100.00	0.00	0.00	100	0	0
General Office Building	9.50	21.86	7.30	0.00	100.00	0.00	100	0	0
High Turnover (Sit Down	9.50	5.05	7.30	0.00	100.00	0.00	100	0	0
Regional Shopping Center	9.50	7.30	7.30	0.00	100.00	0.00	100	0	0
Single Family Housing	6.34	7.30	7.50	100.00	0.00	0.00	100	0	0
Strip Mall	9.50	14.59	7.30	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056
City Park	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056
Condo/Townhouse	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056
General Office Building	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056
High Turnover (Sit Down Restaurant)	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056
Regional Shopping Center	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056
Single Family Housing	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056
Strip Mall	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

3 Roots San Diego - Phase II (Mitigated) - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.2480	10.9173	6.3882	0.0681		0.8623	0.8623		0.8623	0.8623						
NaturalGas Unmitigated	1.2480	10.9173	6.3882	0.0681		0.8623	0.8623		0.8623	0.8623						

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	12394.8	0.1337	1.1423	0.4861	7.2900e-003		0.0924	0.0924		0.0924	0.0924						
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Condo/Townhouse	25337.5	0.2733	2.3350	0.9936	0.0149		0.1888	0.1888		0.1888	0.1888						
General Office Building	1297.69	0.0140	0.1272	0.1069	7.6000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003						
High Turnover (Sit Down Restaurant)	41277.9	0.4452	4.0469	3.3994	0.0243		0.3076	0.3076		0.3076	0.3076						
Regional Shopping Center	126.468	1.3600e-003	0.0124	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004						
Single Family Housing	35112.4	0.3787	3.2359	1.3770	0.0207		0.2616	0.2616		0.2616	0.2616						
Strip Mall	180.844	1.9500e-003	0.0177	0.0149	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003						
Total		**1.2480**	**10.9173**	**6.3882**	**0.0681**		**0.8623**	**0.8623**		**0.8623**	**0.8623**						

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	12.3948	0.1337	1.1423	0.4861	7.2900e-003		0.0924	0.0924		0.0924	0.0924						
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Condo/Townhouse	25.3375	0.2733	2.3350	0.9936	0.0149		0.1888	0.1888		0.1888	0.1888						
General Office Building	1.29769	0.0140	0.1272	0.1069	7.6000e-004		9.6700e-003	9.6700e-003		9.6700e-003	9.6700e-003						
High Turnover (Sit Down Restaurant)	41.2779	0.4452	4.0469	3.3994	0.0243		0.3076	0.3076		0.3076	0.3076						
Regional Shopping Center	0.126468	1.3600e-003	0.0124	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004						
Single Family Housing	35.1124	0.3787	3.2359	1.3770	0.0207		0.2616	0.2616		0.2616	0.2616						
Strip Mall	0.180844	1.9500e-003	0.0177	0.0149	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003						
Total		**1.2480**	**10.9173**	**6.3882**	**0.0681**		**0.8623**	**0.8623**		**0.8623**	**0.8623**						

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	61.0439	1.7124	148.5543	7.8400e-003		0.8222	0.8222		0.8222	0.8222						
Unmitigated	61.0439	1.7124	148.5543	7.8400e-003		0.8222	0.8222		0.8222	0.8222						

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.1811					0.0000	0.0000		0.0000	0.0000						
Consumer Products	51.3862					0.0000	0.0000		0.0000	0.0000						
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Landscaping	4.4766	1.7124	148.5543	7.8400e-003		0.8222	0.8222		0.8222	0.8222						
Total	**61.0439**	**1.7124**	**148.5543**	**7.8400e-003**		**0.8222**	**0.8222**		**0.8222**	**0.8222**						

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.1811					0.0000	0.0000		0.0000	0.0000						
Consumer Products	51.3862					0.0000	0.0000		0.0000	0.0000						
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Landscaping	4.4766	1.7124	148.5543	7.8400e-003		0.8222	0.8222		0.8222	0.8222						
Total	**61.0439**	**1.7124**	**148.5543**	**7.8400e-003**		**0.8222**	**0.8222**		**0.8222**	**0.8222**						

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

3Roots - Active Park

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	25.40	Acre	25.40	1,106,424.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - No Construction

Vehicle Trips - 3Roots TIA

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	0.00
tblConstructionPhase	PhaseEndDate	7/22/2020	6/3/2020
tblVehicleTrips	ST_TR	22.75	50.00
tblVehicleTrips	SU_TR	16.74	50.00
tblVehicleTrips	WD_TR	1.89	50.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.1163	0.0000	0.0000	0.1159	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1163**	**0.0000**	**0.0000**	**0.1159**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.1163	0.0000	0.0000	0.1159	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1163**	**0.0000**	**0.0000**	**0.1159**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0573	2.0000e-005	2.6100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5600e-003	5.5600e-003	1.0000e-005		5.9300e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	2.1101	8.6679	22.7014	0.0681	5.7495	0.0704	5.8198	1.5368	0.0660	1.6028		6,906.8469	6,906.8469	0.4027		6,916.9143
Total	**2.1674**	**8.6679**	**22.7040**	**0.0681**	**5.7495**	**0.0704**	**5.8198**	**1.5368**	**0.0660**	**1.6028**		**6,906.8525**	**6,906.8525**	**0.4027**	**0.0000**	**6,916.9203**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0573	2.0000e-005	2.6100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5600e-003	5.5600e-003	1.0000e-005		5.9300e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	2.1101	8.6679	22.7014	0.0681	5.7495	0.0704	5.8198	1.5368	0.0660	1.6028		6,906.8469	6,906.8469	0.4027		6,916.9143
Total	**2.1674**	**8.6679**	**22.7040**	**0.0681**	**5.7495**	**0.0704**	**5.8198**	**1.5368**	**0.0660**	**1.6028**		**6,906.8525**	**6,906.8525**	**0.4027**	**0.0000**	**6,916.9203**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	6/4/2020	6/3/2020	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	93.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Architectural Coating - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1101	8.6679	22.7014	0.0681	5.7495	0.0704	5.8198	1.5368	0.0660	1.6028		6,906.8469	6,906.8469	0.4027		6,916.9143
Unmitigated	2.1101	8.6679	22.7014	0.0681	5.7495	0.0704	5.8198	1.5368	0.0660	1.6028		6,906.8469	6,906.8469	0.4027		6,916.9143

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	1,270.00	1,270.00	1270.00	2,711,263	2,711,263
Total	1,270.00	1,270.00	1,270.00	2,711,263	2,711,263

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0573	2.0000e-005	2.6100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5600e-003	5.5600e-003	1.0000e-005		5.9300e-003
Unmitigated	0.0573	2.0000e-005	2.6100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5600e-003	5.5600e-003	1.0000e-005		5.9300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0570					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.5000e-004	2.0000e-005	2.6100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5600e-003	5.5600e-003	1.0000e-005		5.9300e-003
Total	**0.0573**	**2.0000e-005**	**2.6100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**5.5600e-003**	**5.5600e-003**	**1.0000e-005**		**5.9300e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0570					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.5000e-004	2.0000e-005	2.6100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5600e-003	5.5600e-003	1.0000e-005		5.9300e-003
Total	**0.0573**	**2.0000e-005**	**2.6100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**5.5600e-003**	**5.5600e-003**	**1.0000e-005**		**5.9300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

3Roots - Industrial

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	3,850.70	1000sqft	88.40	3,850,700.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - No Construction

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	110.00	0.00
tblConstructionPhase	PhaseEndDate	3/25/2026	10/22/2025

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0685	0.0000	0.0000	0.0671	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0685**	**0.0000**	**0.0000**	**0.0671**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0685	0.0000	0.0000	0.0671	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0685**	**0.0000**	**0.0000**	**0.0671**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	106.8915	3.6500e-003	0.3957	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8427	0.8427	2.2600e-003		0.8992
Energy	1.3152	11.9565	10.0435	0.0717		0.9087	0.9087		0.9087	0.9087		14,347.8137	14,347.8137	0.2750	0.2630	14,433.0756
Mobile	50.3455	220.7962	602.2598	1.9300	166.1641	1.9673	168.1314	44.4140	1.8464	46.2603		195,840.1172	195,840.1172	10.8211		196,110.6450
Total	**158.5522**	**232.7564**	**612.6989**	**2.0018**	**166.1641**	**2.8774**	**169.0415**	**44.4140**	**2.7565**	**47.1704**		**210,188.7736**	**210,188.7736**	**11.0984**	**0.2630**	**210,544.6198**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	106.8915	3.6500e-003	0.3957	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8427	0.8427	2.2600e-003		0.8992
Energy	1.3152	11.9565	10.0435	0.0717		0.9087	0.9087		0.9087	0.9087		14,347.8137	14,347.8137	0.2750	0.2630	14,433.0756
Mobile	50.3455	220.7962	602.2598	1.9300	166.1641	1.9673	168.1314	44.4140	1.8464	46.2603		195,840.1172	195,840.1172	10.8211		196,110.6450
Total	**158.5522**	**232.7564**	**612.6989**	**2.0018**	**166.1641**	**2.8774**	**169.0415**	**44.4140**	**2.7565**	**47.1704**		**210,188.7736**	**210,188.7736**	**11.0984**	**0.2630**	**210,544.6198**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	10/23/2025	10/22/2025	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 5,776,050; Non-Residential Outdoor: 1,925,350; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	323.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	50.3455	220.7962	602.2598	1.9300	166.1641	1.9673	168.1314	44.4140	1.8464	46.2603		195,840.1172	195,840.1172	10.8211		196,110.6450
Unmitigated	50.3455	220.7962	602.2598	1.9300	166.1641	1.9673	168.1314	44.4140	1.8464	46.2603		195,840.1172	195,840.1172	10.8211		196,110.6450

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	26,839.38	5,082.92	2618.48	59,181,950	59,181,950
Total	26,839.38	5,082.92	2,618.48	59,181,950	59,181,950

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.3152	11.9565	10.0435	0.0717		0.9087	0.9087		0.9087	0.9087		14,347.8137	14,347.8137	0.2750	0.2630	14,433.0756
NaturalGas Unmitigated	1.3152	11.9565	10.0435	0.0717		0.9087	0.9087		0.9087	0.9087		14,347.8137	14,347.8137	0.2750	0.2630	14,433.0756

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	121956	1.3152	11.9565	10.0435	0.0717		0.9087	0.9087		0.9087	0.9087		14,347.8137	14,347.8137	0.2750	0.2630	14,433.0756
Total		**1.3152**	**11.9565**	**10.0435**	**0.0717**		**0.9087**	**0.9087**		**0.9087**	**0.9087**		**14,347.8137**	**14,347.8137**	**0.2750**	**0.2630**	**14,433.0756**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	121.956	1.3152	11.9565	10.0435	0.0717		0.9087	0.9087		0.9087	0.9087		14,347.8137	14,347.8137	0.2750	0.2630	14,433.0756
Total		**1.3152**	**11.9565**	**10.0435**	**0.0717**		**0.9087**	**0.9087**		**0.9087**	**0.9087**		**14,347.8137**	**14,347.8137**	**0.2750**	**0.2630**	**14,433.0756**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	106.8915	3.6500e-003	0.3957	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8427	0.8427	2.2600e-003		0.8992
Unmitigated	106.8915	3.6500e-003	0.3957	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8427	0.8427	2.2600e-003		0.8992

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	24.4493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	82.4050					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0372	3.6500e-003	0.3957	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8427	0.8427	2.2600e-003		0.8992
Total	**106.8915**	**3.6500e-003**	**0.3957**	**3.0000e-005**		**1.4200e-003**	**1.4200e-003**		**1.4200e-003**	**1.4200e-003**		**0.8427**	**0.8427**	**2.2600e-003**		**0.8992**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	24.4493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	82.4050					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0372	3.6500e-003	0.3957	3.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		0.8427	0.8427	2.2600e-003		0.8992
Total	**106.8915**	**3.6500e-003**	**0.3957**	**3.0000e-005**		**1.4200e-003**	**1.4200e-003**		**1.4200e-003**	**1.4200e-003**		**0.8427**	**0.8427**	**2.2600e-003**		**0.8992**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix B

Caline4 Outputs

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LA JOLLA VILLAGE RD AND I805 SB RAMPS AMWP
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 0. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 5. DEGREES	TEMP= 15.6 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	2	-450	2	-150	AG	0	1.4	.0	10.5
B. NA	2	-150	2	0	AG	0	2.3	.0	9.9
C. ND	2	0	2	150	AG	622	2.0	.0	9.9
D. NE	2	150	2	450	AG	622	1.4	.0	10.5
E. SF	-2	450	-2	150	AG	2631	1.4	.0	10.5
F. SA	-2	150	-2	0	AG	1793	2.7	.0	9.9
G. SD	-2	0	-2	-150	AG	485	1.8	.0	9.9
H. SE	-2	-150	-2	-450	AG	485	1.4	.0	10.5
I. WF	450	2	150	2	AG	2561	1.4	.0	10.5
J. WA	150	2	0	2	AG	2561	2.6	.0	9.9
K. WD	0	2	-150	2	AG	3732	1.9	.0	9.9
L. WE	-150	2	-450	2	AG	3732	1.4	.0	10.5
M. EF	-450	-2	-150	-2	AG	1734	1.4	.0	10.5
N. EA	-150	-2	0	-2	AG	1734	2.6	.0	9.9
O. ED	0	-2	150	-2	AG	2087	1.9	.0	9.9
P. EE	150	-2	450	-2	AG	2087	1.4	.0	10.5
Q. NL	0	0	2	-150	AG	0	2.3	.0	9.9
R. SL	0	0	-2	150	AG	838	2.7	.0	9.9
S. WL	0	0	150	2	AG	0	2.0	.0	9.9
T. EL	0	0	-150	-2	AG	0	2.0	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. NE3	8	8	1.8
2. SE3	8	-8	1.8
3. SW3	-8	-8	1.8
4. NW3	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	265.	2.3	.0	.0	.0	.0	.0	.2	.0	.0
2. SE3	354.	1.7	.0	.0	.2	.0	.0	.4	.0	.0
3. SW3	5.	2.1	.0	.0	.1	.0	.0	.8	.0	.0
4. NW3	95.	2.3	.0	.0	.0	.0	.0	.3	.0	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	.0	.2	1.1	.0	.0	.4	.0	.0	.0	.1	.0	.0
2. SE3	.0	.3	.0	.0	.0	.0	.3	.0	.0	.3	.0	.0
3. SW3	.0	.0	.4	.0	.0	.3	.0	.0	.0	.3	.0	.0
4. NW3	.0	1.1	.2	.0	.0	.0	.3	.0	.0	.1	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LA JOLLA VILLAGE RD AND I805 SB RAMPS PMWP
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	5. DEGREES	TEMP=	15.6 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	2	-450	2	-150	AG	0	1.4	.0	10.5
B. NA	2	-150	2	0	AG	0	2.7	.0	9.9
C. ND	2	0	2	150	AG	945	2.7	.0	9.9
D. NE	2	150	2	450	AG	945	1.4	.0	10.5
E. SF	-2	450	-2	150	AG	1119	1.4	.0	10.5
F. SA	-2	150	-2	0	AG	877	2.7	.0	9.9
G. SD	-2	0	-2	-150	AG	1260	2.7	.0	9.9
H. SE	-2	-150	-2	-450	AG	1260	1.4	.0	10.5
I. WF	450	2	150	2	AG	2426	1.4	.0	10.5
J. WA	150	2	0	2	AG	2426	2.4	.0	9.9
K. WD	0	2	-150	2	AG	2358	1.7	.0	9.9
L. WE	-150	2	-450	2	AG	2358	1.4	.0	10.5
M. EF	-450	-2	-150	-2	AG	3544	1.4	.0	10.5
N. EA	-150	-2	0	-2	AG	3544	2.4	.0	9.9
O. ED	0	-2	150	-2	AG	2526	1.7	.0	9.9
P. EE	150	-2	450	-2	AG	2526	1.4	.0	10.5
Q. NL	0	0	2	-150	AG	0	2.7	.0	9.9
R. SL	0	0	-2	150	AG	242	2.7	.0	9.9
S. WL	0	0	150	2	AG	0	1.8	.0	9.9
T. EL	0	0	-150	-2	AG	0	1.8	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. NE3	8	8	1.8
2. SE3	8	-8	1.8
3. SW3	-8	-8	1.8
4. NW3	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	264.	1.9	.0	.0	.2	.0	.0	.1	.0	.0
2. SE3	275.	2.1	.0	.0	.0	.0	.0	.0	.2	.0
3. SW3	275.	2.1	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	95.	1.9	.0	.0	.1	.0	.0	.2	.0	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	.0	.2	.6	.0	.0	.7	.0	.0	.0	.0	.0	.0
2. SE3	.0	.0	.3	.0	.0	1.4	.1	.0	.0	.0	.0	.0
3. SW3	.0	.0	.3	.1	.0	1.6	.0	.0	.0	.0	.0	.0
4. NW3	.0	1.0	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: CARROLL CANYON ROAD AND CAMINO RUIZ AMWP
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 0. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 5. DEGREES	TEMP= 15.6 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	2	-450	2	-150	AG	602	1.4	.0	10.5
B. NA	2	-150	2	0	AG	351	2.2	.0	9.9
C. ND	2	0	2	150	AG	614	1.7	.0	9.9
D. NE	2	150	2	450	AG	614	1.4	.0	10.5
E. SF	-2	450	-2	150	AG	2637	1.4	.0	10.5
F. SA	-2	150	-2	0	AG	2010	2.7	.0	9.9
G. SD	-2	0	-2	-150	AG	2129	2.4	.0	9.9
H. SE	-2	-150	-2	-450	AG	2129	1.4	.0	10.5
I. WF	450	2	150	2	AG	1913	1.4	.0	10.5
J. WA	150	2	0	2	AG	1536	2.7	.0	9.9
K. WD	0	2	-150	2	AG	2041	2.4	.0	9.9
L. WE	-150	2	-450	2	AG	2041	1.4	.0	10.5
M. EF	-450	-2	-150	-2	AG	1363	1.4	.0	10.5
N. EA	-150	-2	0	-2	AG	1217	2.7	.0	9.9
O. ED	0	-2	150	-2	AG	1731	2.4	.0	9.9
P. EE	150	-2	450	-2	AG	1731	1.4	.0	10.5
Q. NL	0	0	2	-150	AG	251	2.2	.0	9.9
R. SL	0	0	-2	150	AG	627	2.4	.0	9.9
S. WL	0	0	150	2	AG	377	2.2	.0	9.9
T. EL	0	0	-150	-2	AG	146	2.2	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. NE3	8	8	1.8
2. SE3	8	-8	1.8
3. SW3	-8	-8	1.8
4. NW3	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	265.	1.8	.0	.0	.0	.0	.0	.3	.0	.0
2. SE3	275.	1.6	.0	.0	.0	.0	.0	.0	.3	.0
3. SW3	5.	2.0	.0	.0	.1	.0	.0	.9	.1	.0
4. NW3	95.	2.0	.0	.0	.0	.0	.0	.4	.0	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	.0	.1	.8	.0	.0	.3	.0	.0	.0	.0	.0	.0
2. SE3	.0	.0	.4	.0	.0	.6	.1	.0	.0	.0	.0	.0
3. SW3	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2	.0	.0
4. NW3	.0	.7	.1	.0	.0	.0	.3	.0	.0	.0	.1	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: CARROLL CANYON ROAD AND CAMINO RUIZ PMWP
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 0. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 5. DEGREES	TEMP= 15.6 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	*	2	-450	2	-150	* AG	2062	1.4	.0	10.5
B. NA	*	2	-150	2	0	* AG	1753	2.7	.0	9.9
C. ND	*	2	0	2	150	* AG	2551	2.6	.0	9.9
D. NE	*	2	150	2	450	* AG	2551	1.4	.0	10.5
E. SF	*	-2	450	-2	150	* AG	1556	1.4	.0	10.5
F. SA	*	-2	150	-2	0	* AG	1095	2.7	.0	9.9
G. SD	*	-2	0	-2	-150	* AG	1370	2.6	.0	9.9
H. SE	*	-2	-150	-2	-450	* AG	1370	1.4	.0	10.5
I. WF	*	450	2	150	2	* AG	2142	1.4	.0	10.5
J. WA	*	150	2	0	2	* AG	1867	2.7	.0	9.9
K. WD	*	0	2	-150	2	* AG	1802	2.3	.0	9.9
L. WE	*	-150	2	-450	2	* AG	1802	1.4	.0	10.5
M. EF	*	-450	-2	-150	-2	* AG	1974	1.4	.0	10.5
N. EA	*	-150	-2	0	-2	* AG	1454	2.7	.0	9.9
O. ED	*	0	-2	150	-2	* AG	2011	2.3	.0	9.9
P. EE	*	150	-2	450	-2	* AG	2011	1.4	.0	10.5
Q. NL	*	0	0	2	-150	* AG	309	2.2	.0	9.9
R. SL	*	0	0	-2	150	* AG	461	2.4	.0	9.9
S. WL	*	0	0	150	2	* AG	275	2.2	.0	9.9
T. EL	*	0	0	-150	-2	* AG	520	2.2	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. NE3	*	8	8	1.8
2. SE3	*	8	-8	1.8
3. SW3	*	-8	-8	1.8
4. NW3	*	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	BRG (DEG)	*	PRED CONC (PPM)	*	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	*	264.	*	2.2	*	.0	.0	.5	.0	.0	.2	.0	.0
2. SE3	*	355.	*	2.4	*	.0	.1	1.1	.0	.0	.3	.0	.0
3. SW3	*	85.	*	2.1	*	.0	.2	.0	.0	.0	.0	.3	.0
4. NW3	*	95.	*	2.2	*	.0	.0	.3	.0	.0	.2	.0	.0

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.1	.7	.0	.0	.4	.0	.0	.0	.0	.0	.2
2. SE3	*	.0	.3	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0
3. SW3	*	.0	.4	.0	.0	.0	.1	.8	.0	.0	.0	.0	.0
4. NW3	*	.0	.9	.1	.0	.0	.0	.4	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: CAMINO SANTA FE AND MIRAMAR ROAD AMW
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 0. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 5. DEGREES	TEMP= 15.6 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	2	-450	2	-150	AG	36	1.4	.0	10.5
B. NA	2	-150	2	0	AG	14	2.5	.0	9.9
C. ND	2	0	2	150	AG	1298	2.7	.0	9.9
D. NE	2	150	2	450	AG	1298	1.4	.0	10.5
E. SF	-2	450	-2	150	AG	1503	1.4	.0	10.5
F. SA	-2	150	-2	0	AG	1426	2.7	.0	9.9
G. SD	-2	0	-2	-150	AG	53	1.8	.0	9.9
H. SE	-2	-150	-2	-450	AG	53	1.4	.0	10.5
I. WF	450	2	150	2	AG	2516	1.4	.0	10.5
J. WA	150	2	0	2	AG	2494	2.4	.0	9.9
K. WD	0	2	-150	2	AG	3820	1.7	.0	9.9
L. WE	-150	2	-450	2	AG	3820	1.4	.0	10.5
M. EF	-450	-2	-150	-2	AG	2558	1.4	.0	10.5
N. EA	-150	-2	0	-2	AG	1382	2.4	.0	9.9
O. ED	0	-2	150	-2	AG	1442	1.7	.0	9.9
P. EE	150	-2	450	-2	AG	1442	1.4	.0	10.5
Q. NL	0	0	2	-150	AG	22	2.5	.0	9.9
R. SL	0	0	-2	150	AG	77	2.5	.0	9.9
S. WL	0	0	150	2	AG	22	1.8	.0	9.9
T. EL	0	0	-150	-2	AG	1176	2.4	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. NE3	8	8	1.8
2. SE3	8	-8	1.8
3. SW3	-8	-8	1.8
4. NW3	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	265.	2.5	.0	.0	.2	.0	.0	.2	.0	.0
2. SE3	275.	1.7	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	5.	1.9	.0	.0	.3	.0	.0	.7	.0	.0
4. NW3	265.	2.0	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	.0	.2	1.0	.0	.0	.3	.0	.0	.0	.0	.0	.3
2. SE3	.0	.0	.5	.1	.0	.6	.0	.0	.0	.0	.0	.4
3. SW3	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0	.2
4. NW3	.0	.0	1.2	.0	.1	.3	.0	.0	.0	.0	.0	.3

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: CAMINO SANTA FE AND MIRAMAR ROAD PMW
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 0. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 5. DEGREES	TEMP= 15.6 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	2	-450	2	-150	AG	130	1.4	.0	10.5
B. NA	2	-150	2	0	AG	76	2.4	.0	9.9
C. ND	2	0	2	150	AG	1541	2.7	.0	9.9
D. NE	2	150	2	450	AG	1541	1.4	.0	10.5
E. SF	-2	450	-2	150	AG	1967	1.4	.0	10.5
F. SA	-2	150	-2	0	AG	1814	2.7	.0	9.9
G. SD	-2	0	-2	-150	AG	127	1.7	.0	9.9
H. SE	-2	-150	-2	-450	AG	127	1.4	.0	10.5
I. WF	450	2	150	2	AG	1524	1.4	.0	10.5
J. WA	150	2	0	2	AG	1504	2.4	.0	9.9
K. WD	0	2	-150	2	AG	3294	1.7	.0	9.9
L. WE	-150	2	-450	2	AG	3294	1.4	.0	10.5
M. EF	-450	-2	-150	-2	AG	3744	1.4	.0	10.5
N. EA	-150	-2	0	-2	AG	2347	2.4	.0	9.9
O. ED	0	-2	150	-2	AG	2403	1.7	.0	9.9
P. EE	150	-2	450	-2	AG	2403	1.4	.0	10.5
Q. NL	0	0	2	-150	AG	54	2.4	.0	9.9
R. SL	0	0	-2	150	AG	153	2.4	.0	9.9
S. WL	0	0	150	2	AG	20	1.8	.0	9.9
T. EL	0	0	-150	-2	AG	1397	2.4	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. NE3	8	8	1.8
2. SE3	8	-8	1.8
3. SW3	-8	-8	1.8
4. NW3	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	264.	2.6	.0	.0	.3	.0	.0	.3	.0	.0
2. SE3	275.	2.1	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	5.	2.3	.0	.0	.4	.0	.0	.9	.0	.0
4. NW3	264.	2.0	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	.0	.1	.9	.0	.0	.5	.0	.0	.0	.0	.0	.4
2. SE3	.0	.0	.4	.1	.0	.9	.1	.0	.0	.0	.0	.4
3. SW3	.0	.0	.3	.0	.0	.4	.0	.0	.0	.0	.0	.2
4. NW3	.0	.0	1.1	.0	.1	.4	.0	.0	.0	.0	.0	.4

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: CAMINO SANTA FE AND CARROLL RD AMWP
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 0. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 5. DEGREES	TEMP= 15.6 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	2	-450	2	-150	AG	1332	1.4	.0	10.5
B. NA	2	-150	2	0	AG	1013	2.4	.0	9.9
C. ND	2	0	2	150	AG	1073	1.7	.0	9.9
D. NE	2	150	2	450	AG	1073	1.4	.0	10.5
E. SF	-2	450	-2	150	AG	2269	1.4	.0	10.5
F. SA	-2	150	-2	0	AG	2140	2.4	.0	9.9
G. SD	-2	0	-2	-150	AG	1901	1.7	.0	9.9
H. SE	-2	-150	-2	-450	AG	1901	1.4	.0	10.5
I. WF	450	2	150	2	AG	409	1.4	.0	10.5
J. WA	150	2	0	2	AG	340	2.7	.0	9.9
K. WD	0	2	-150	2	AG	1012	2.7	.0	9.9
L. WE	-150	2	-450	2	AG	1012	1.4	.0	10.5
M. EF	-450	-2	-150	-2	AG	320	1.4	.0	10.5
N. EA	-150	-2	0	-2	AG	229	2.6	.0	9.9
O. ED	0	-2	150	-2	AG	344	2.4	.0	9.9
P. EE	150	-2	450	-2	AG	344	1.4	.0	10.5
Q. NL	0	0	2	-150	AG	319	1.9	.0	9.9
R. SL	0	0	-2	150	AG	129	1.8	.0	9.9
S. WL	0	0	150	2	AG	69	2.6	.0	9.9
T. EL	0	0	-150	-2	AG	91	2.6	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. NE3	8	8	1.8
2. SE3	8	-8	1.8
3. SW3	-8	-8	1.8
4. NW3	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	266.	1.1	.0	.0	.1	.0	.0	.3	.0	.0
2. SE3	354.	1.1	.0	.0	.3	.0	.0	.4	.0	.0
3. SW3	5.	1.5	.0	.0	.2	.0	.0	.9	.0	.0
4. NW3	175.	1.4	.0	.2	.0	.0	.0	.1	.6	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: CAMINO SANTA FE AND CARROLL RD PMWP
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 0. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 5. DEGREES	TEMP= 15.6 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	2	-450	2	-150	AG	2218	1.4	.0	10.5
B. NA	2	-150	2	0	AG	2089	2.4	.0	9.9
C. ND	2	0	2	150	AG	2593	1.7	.0	9.9
D. NE	2	150	2	450	AG	2593	1.4	.0	10.5
E. SF	-2	450	-2	150	AG	1812	1.4	.0	10.5
F. SA	-2	150	-2	0	AG	1706	2.4	.0	9.9
G. SD	-2	0	-2	-150	AG	2156	1.7	.0	9.9
H. SE	-2	-150	-2	-450	AG	2156	1.4	.0	10.5
I. WF	450	2	150	2	AG	332	1.4	.0	10.5
J. WA	150	2	0	2	AG	243	2.4	.0	9.9
K. WD	0	2	-150	2	AG	297	1.8	.0	9.9
L. WE	-150	2	-450	2	AG	297	1.4	.0	10.5
M. EF	-450	-2	-150	-2	AG	1160	1.4	.0	10.5
N. EA	-150	-2	0	-2	AG	747	2.7	.0	9.9
O. ED	0	-2	150	-2	AG	476	2.4	.0	9.9
P. EE	150	-2	450	-2	AG	476	1.4	.0	10.5
Q. NL	0	0	2	-150	AG	129	1.8	.0	9.9
R. SL	0	0	-2	150	AG	106	1.8	.0	9.9
S. WL	0	0	150	2	AG	89	2.4	.0	9.9
T. EL	0	0	-150	-2	AG	413	2.7	.0	9.9

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. NE3	8	8	1.8
2. SE3	8	-8	1.8
3. SW3	-8	-8	1.8
4. NW3	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. NE3	185.	1.5	.0	.8	.1	.0	.0	.0	.3	.0
2. SE3	355.	1.5	.0	.1	.7	.0	.0	.3	.0	.0
3. SW3	5.	1.6	.0	.0	.3	.0	.0	.7	.0	.0
4. NW3	175.	1.5	.0	.4	.0	.0	.0	.1	.6	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
4. NW3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0

Appendix C

AERMOD Outputs

```
**
**********************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.1
** Lakes Environmental Software Inc.
** Date: 3/20/2019
** File: F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.ADI
**
**********************************************
**
**
**********************************************
** AERMOD Control Pathway
**********************************************
**
**
CO STARTING
   TITLEONE F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc
   MODELOPT CONC FLAT ELEV
   AVERTIME 24 PERIOD
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL 3Roots.err
CO FINISHED
**
**********************************************
** AERMOD Source Pathway
**********************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN1
** DESCRSRC 58% 0.42mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.4855E-13
** Nodes = 11
** 484311.397, 3639620.766, 88.20, 0.00
** 484322.516, 3639563.583, 84.66, 0.00
** 484324.899, 3639526.255, 82.32, 0.00
** 484324.899, 3639510.371, 81.90, 0.00
** 484318.545, 3639448.423, 79.47, 0.00
** 484290.748, 3639299.113, 78.46, 0.00
** 484283.600, 3639257.814, 79.31, 0.00
** 484278.041, 3639182.365, 81.90, 0.00
** 484280.423, 3639149.802, 84.18, 0.00
** 484299.484, 3639017.170, 92.55, 0.00
** 484312.191, 3638951.251, 97.02, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000001    AREA    484296.673 3639617.903 87.69
   LOCATION A0000002    AREA    484307.546 3639562.628 84.45
   LOCATION A0000003    AREA    484309.899 3639526.255 82.39
   LOCATION A0000004    AREA    484309.977 3639511.902 81.62
   LOCATION A0000005    AREA    484303.798 3639451.169 79.23
   LOCATION A0000006    AREA    484275.968 3639301.671 78.18
   LOCATION A0000007    AREA    484268.641 3639258.916 78.80
   LOCATION A0000008    AREA    484263.081 3639181.270 81.55
   LOCATION A0000009    AREA    484265.576 3639147.668 83.16
   LOCATION A0000010    AREA    484284.755 3639014.331 93.28
** End of LINE AREA Source ID = ARLN1
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN2
** DESCRSRC 35% 0.31mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 9.0995E-14
** Nodes = 11
** 484045.592, 3640029.712, 94.03, 0.00
** 484062.176, 3639981.423, 95.21, 0.00
** 484090.467, 3639932.159, 96.21, 0.00
** 484112.416, 3639901.429, 96.66, 0.00
** 484136.317, 3639873.139, 96.74, 0.00
** 484199.726, 3639809.730, 95.86, 0.00
** 484214.359, 3639794.609, 95.53, 0.00
** 484240.698, 3639764.367, 94.67, 0.00
** 484274.354, 3639712.664, 92.73, 0.00
** 484295.328, 3639669.253, 90.32, 0.00
** 484310.937, 3639622.916, 88.24, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000011    AREA    484031.406 3640024.840 94.19
   LOCATION A0000012    AREA    484049.169 3639973.953 96.45
   LOCATION A0000013    AREA    484078.261 3639923.440 96.92
   LOCATION A0000014    AREA    484100.958 3639891.749 97.02
   LOCATION A0000015    AREA    484125.710 3639862.533 97.52
   LOCATION A0000016    AREA    484188.947 3639799.298 96.14
   LOCATION A0000017    AREA    484203.048 3639784.757 95.86
   LOCATION A0000018    AREA    484228.127 3639756.184 94.45
   LOCATION A0000019    AREA    484260.848 3639706.139 92.36
   LOCATION A0000020    AREA    484281.113 3639664.465 90.34
** End of LINE AREA Source ID = ARLN2
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN3
** DESCRSRC 38% 0.47mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 9.8538E-14
** Nodes = 11
** 484009.693, 3640774.162, 111.79, 0.00
** 484015.085, 3640710.058, 108.45, 0.00
** 484031.261, 3640570.167, 98.79, 0.00
** 484054.108, 3640384.840, 88.27, 0.00
** 484049.389, 3640286.762, 85.48, 0.00
** 484036.768, 3640219.457, 87.11, 0.00
** 484031.793, 3640181.311, 87.80, 0.00
** 484029.305, 3640149.385, 89.06, 0.00
** 484029.305, 3640129.068, 89.92, 0.00
** 484031.793, 3640092.581, 91.38, 0.00
** 484045.061, 3640031.630, 93.60, 0.00
** ----------------------------------------------------------------------
```

```
   LOCATION A0000042    AREA    483994.746 3640772.904 111.62
   LOCATION A0000043    AREA    484000.185 3640708.335 108.42
   LOCATION A0000044    AREA    484016.374 3640568.332 99.25
   LOCATION A0000045    AREA    484039.126 3640385.561 88.05
   LOCATION A0000046    AREA    484034.646 3640289.526 86.07
   LOCATION A0000047    AREA    484021.894 3640221.397 84.18
   LOCATION A0000048    AREA    484016.838 3640182.477 87.93
   LOCATION A0000049    AREA    484014.305 3640149.385 89.38
   LOCATION A0000050    AREA    484014.340 3640128.048 90.71
   LOCATION A0000051    AREA    484017.136 3640089.390 92.38
** End of LINE AREA Source ID = ARLN3
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN4
** DESCRSRC 4% 0.50mi
** PREFIX
** Length of Side = 9.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 3.3699E-14
** Nodes = 5
** 484313.322, 3638950.040, 97.17, 0.00
** 484369.566, 3638960.944, 97.94, 0.00
** 484961.850, 3638956.927, 117.28, 0.00
** 485002.024, 3638963.240, 119.20, 0.00
** 485122.547, 3639001.692, 123.85, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000031    AREA    484314.178 3638945.622 97.47
   LOCATION A0000032    AREA    484369.535 3638956.444 98.15
   LOCATION A0000033    AREA    484454.147 3638955.870 104.15
   LOCATION A0000034    AREA    484538.759 3638955.296 107.99
   LOCATION A0000035    AREA    484623.371 3638954.722 109.00
   LOCATION A0000036    AREA    484707.983 3638954.148 110.18
   LOCATION A0000037    AREA    484792.595 3638953.574 111.20
   LOCATION A0000038    AREA    484877.207 3638953.001 112.98
   LOCATION A0000039    AREA    484962.548 3638952.481 117.59
   LOCATION A0000040    AREA    485003.392 3638958.953 119.24
   LOCATION A0000041    AREA    485063.653 3638978.179 122.06
** End of LINE AREA Source ID = ARLN4
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN5
** DESCRSRC 2% 0.25mi
** PREFIX
** Length of Side = 9.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.6707E-14
** Nodes = 7
** 485127.712, 3638995.953, 123.63, 0.00
** 485143.782, 3638902.404, 124.54, 0.00
** 485144.356, 3638851.899, 124.81, 0.00
** 485138.617, 3638800.247, 125.17, 0.00
** 485128.860, 3638755.481, 125.40, 0.00
** 485099.016, 3638692.924, 125.97, 0.00
** 485053.677, 3638604.541, 126.49, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000052    AREA    485123.277 3638995.191 123.63
   LOCATION A0000053    AREA    485131.312 3638948.417 124.26
   LOCATION A0000054    AREA    485139.282 3638902.353 124.45
   LOCATION A0000055    AREA    485139.883 3638852.396 124.79
   LOCATION A0000056    AREA    485134.220 3638801.205 125.13
   LOCATION A0000057    AREA    485124.799 3638757.419 125.41
   LOCATION A0000058    AREA    485095.012 3638694.978 125.97
   LOCATION A0000059    AREA    485072.343 3638650.786 126.36
** End of LINE AREA Source ID = ARLN5
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN6
** DESCRSRC 2% 0.82mi
** PREFIX
** Length of Side = 12.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.2699E-14
** Nodes = 9
** 485130.582, 3639002.266, 123.98, 0.00
** 485158.704, 3639006.857, 124.37, 0.00
** 485184.530, 3639008.005, 124.72, 0.00
** 485652.274, 3639003.988, 123.70, 0.00
** 485657.340, 3639531.184, 117.96, 0.00
** 485845.496, 3639529.033, 122.17, 0.00
** 485864.572, 3639529.863, 122.79, 0.00
** 485898.992, 3639539.815, 124.10, 0.00
** 485933.700, 3639560.697, 125.58, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000060    AREA    485131.549 3638996.345 123.69
   LOCATION A0000061    AREA    485158.970 3639000.863 124.60
   LOCATION A0000062    AREA    485184.479 3639002.006 125.06
   LOCATION A0000063    AREA    485301.415 3639001.001 126.66
   LOCATION A0000064    AREA    485418.350 3638999.997 125.61
   LOCATION A0000065    AREA    485535.286 3638998.992 125.85
   LOCATION A0000066    AREA    485658.274 3639003.930 123.65
   LOCATION A0000067    AREA    485659.287 3639109.369 121.44
   LOCATION A0000068    AREA    485660.300 3639214.809 118.67
   LOCATION A0000069    AREA    485661.313 3639320.248 116.85
   LOCATION A0000070    AREA    485662.326 3639425.687 117.25
   LOCATION A0000071    AREA    485657.271 3639525.185 117.87
   LOCATION A0000072    AREA    485751.349 3639524.109 119.96
   LOCATION A0000073    AREA    485845.757 3639523.039 122.37
   LOCATION A0000074    AREA    485866.239 3639524.099 123.04
   LOCATION A0000075    AREA    485902.085 3639534.674 124.29
** End of LINE AREA Source ID = ARLN6
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN7
** DESCRSRC 54% 0.22mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.3816E-13
** Nodes = 4
** 484311.707, 3638947.417, 97.55, 0.00
** 484366.036, 3638769.916, 110.53, 0.00
** 484376.819, 3638712.269, 115.12, 0.00
** 484378.477, 3638601.538, 120.05, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000076    AREA    484297.364 3638943.027 98.15
   LOCATION A0000077    AREA    484351.291 3638767.158 111.92
   LOCATION A0000078    AREA    484361.820 3638712.044 115.37
** End of LINE AREA Source ID = ARLN7
```

```
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN8
** DESCRSRC 15% 0.23mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.1891E-13
** Nodes = 2
** 484384.706, 3638601.275, 120.12, 0.00
** 484742.786, 3638631.540, 123.11, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000079    AREA    484385.127 3638596.293 120.23
   LOCATION A0000080    AREA    484474.647 3638603.859 121.47
   LOCATION A0000081    AREA    484564.167 3638611.425 121.81
   LOCATION A0000082    AREA    484653.687 3638618.992 122.44
** End of LINE AREA Source ID = ARLN8
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN9
** DESCRSRC 12% 0.52mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 9.293E-14
** Nodes = 16
** 484742.786, 3638631.839, 123.11, 0.00
** 484852.756, 3638640.829, 124.41, 0.00
** 484880.923, 3638640.529, 124.78, 0.00
** 484922.275, 3638637.233, 125.19, 0.00
** 484953.738, 3638631.839, 125.34, 0.00
** 484977.410, 3638626.146, 125.60, 0.00
** 484995.688, 3638620.453, 125.67, 0.00
** 485054.719, 3638597.380, 126.47, 0.00
** 485143.715, 3638562.022, 127.94, 0.00
** 485179.373, 3638539.848, 128.46, 0.00
** 485204.843, 3638520.670, 128.76, 0.00
** 485227.017, 3638498.196, 128.97, 0.00
** 485227.721, 3638497.200, 128.96, 0.00
** 485268.476, 3638439.550, 129.49, 0.00
** 485319.082, 3638347.797, 129.55, 0.00
** 485383.785, 3638229.219, 130.42, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000127    AREA    484743.193 3638626.856 123.09
   LOCATION A0000128    AREA    484798.178 3638631.351 123.80
   LOCATION A0000129    AREA    484852.703 3638635.829 124.31
   LOCATION A0000130    AREA    484880.526 3638635.545 124.75
   LOCATION A0000131    AREA    484921.430 3638632.305 125.13
   LOCATION A0000132    AREA    484952.569 3638626.978 125.22
   LOCATION A0000133    AREA    484975.923 3638621.372 125.50
   LOCATION A0000134    AREA    484993.868 3638615.796 125.58
   LOCATION A0000135    AREA    485052.873 3638592.733 126.40
   LOCATION A0000136    AREA    485141.074 3638557.776 127.91
   LOCATION A0000137    AREA    485176.365 3638535.853 128.37
   LOCATION A0000138    AREA    485201.284 3638517.158 128.66
   LOCATION A0000139    AREA    485222.934 3638495.310 128.86
   LOCATION A0000140    AREA    485223.638 3638494.314 128.86
   LOCATION A0000141    AREA    485264.097 3638437.135 129.39
   LOCATION A0000142    AREA    485289.400 3638391.259 129.70
   LOCATION A0000143    AREA    485314.693 3638345.402 129.56
   LOCATION A0000144    AREA    485347.044 3638286.113 129.84
** End of LINE AREA Source ID = ARLN9
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN10
** DESCRSRC 3% 0.46mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 2.3865E-14
** Nodes = 12
** 484742.327, 3638625.048, 123.08, 0.00
** 484761.957, 3638468.013, 121.41, 0.00
** 484766.631, 3638443.709, 121.18, 0.00
** 484761.022, 3638387.625, 120.13, 0.00
** 484746.066, 3638317.520, 119.83, 0.00
** 484738.588, 3638271.718, 120.14, 0.00
** 484737.654, 3638236.198, 120.54, 0.00
** 484738.588, 3638198.809, 120.93, 0.00
** 484740.458, 3638176.375, 121.21, 0.00
** 484747.001, 3638135.247, 121.68, 0.00
** 484756.348, 3638086.640, 123.59, 0.00
** 484792.803, 3637918.388, 128.34, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000096    AREA    484737.366 3638624.428 123.02
   LOCATION A0000097    AREA    484747.181 3638545.910 122.00
   LOCATION A0000098    AREA    484757.047 3638467.068 121.49
   LOCATION A0000099    AREA    484761.655 3638444.207 121.21
   LOCATION A0000100    AREA    484756.132 3638388.668 120.01
   LOCATION A0000101    AREA    484741.132 3638318.326 119.91
   LOCATION A0000102    AREA    484733.590 3638271.850 120.16
   LOCATION A0000103    AREA    484732.655 3638236.073 120.65
   LOCATION A0000104    AREA    484733.606 3638198.393 120.93
   LOCATION A0000105    AREA    484735.520 3638175.589 121.16
   LOCATION A0000106    AREA    484742.091 3638134.302 121.73
   LOCATION A0000107    AREA    484751.462 3638085.582 123.34
   LOCATION A0000108    AREA    484769.689 3638001.455 125.37
** End of LINE AREA Source ID = ARLN10
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN11
** DESCRSRC 34% 0.36mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 8.6694E-14
** Nodes = 11
** 484376.846, 3638595.137, 120.24, 0.00
** 484376.846, 3638476.425, 119.91, 0.00
** 484374.041, 3638445.579, 119.09, 0.00
** 484363.759, 3638397.907, 116.97, 0.00
** 484338.522, 3638340.888, 113.86, 0.00
** 484307.675, 3638294.152, 110.24, 0.00
** 484272.155, 3638253.958, 106.82, 0.00
** 484214.202, 3638219.373, 103.05, 0.00
** 484174.008, 3638197.874, 101.61, 0.00
** 484099.229, 3638175.440, 99.76, 0.00
** 484078.665, 3638169.832, 99.23, 0.00
```

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** ----------------------------------------------------------------------
   LOCATION A0000109    AREA    484361.846 3638595.137 120.25
   LOCATION A0000110    AREA    484361.907 3638477.783 119.88
   LOCATION A0000111    AREA    484359.379 3638448.741 119.47
   LOCATION A0000112    AREA    484350.043 3638403.979 116.88
   LOCATION A0000113    AREA    484326.002 3638349.151 114.26
   LOCATION A0000114    AREA    484296.435 3638304.085 111.34
   LOCATION A0000115    AREA    484264.468 3638266.839 106.73
   LOCATION A0000116    AREA    484207.127 3638232.600 103.39
   LOCATION A0000117    AREA    484169.698 3638212.241 101.49
   LOCATION A0000118    AREA    484095.282 3638189.912 100.29
** End of LINE AREA Source ID = ARLN11
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN12
** DESCRSRC 31% 0.32mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 8.2032E-14
** Nodes = 9
** 484075.861, 3638171.701, 99.45, 0.00
** 484008.560, 3638145.529, 100.02, 0.00
** 483965.562, 3638120.291, 101.98, 0.00
** 483927.238, 3638086.640, 105.11, 0.00
** 483898.261, 3638043.642, 108.37, 0.00
** 483875.827, 3637993.167, 112.03, 0.00
** 483866.480, 3637938.017, 116.13, 0.00
** 483858.067, 3637844.544, 121.35, 0.00
** 483851.413, 3637775.537, 124.07, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000119    AREA    484070.424 3638185.681 99.84
   LOCATION A0000120    AREA    484000.967 3638158.465 101.07
   LOCATION A0000121    AREA    483955.665 3638131.562 102.50
   LOCATION A0000122    AREA    483914.799 3638095.023 105.89
   LOCATION A0000123    AREA    483884.554 3638049.735 109.03
   LOCATION A0000124    AREA    483861.038 3637995.673 112.90
   LOCATION A0000125    AREA    483851.540 3637939.362 116.29
   LOCATION A0000126    AREA    483843.137 3637845.983 121.38
** End of LINE AREA Source ID = ARLN12
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN13
** DESCRSRC 31% 0.80mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 7.9228E-14
** Nodes = 4
** 483845.983, 3637756.301, 124.76, 0.00
** 483600.125, 3637787.151, 124.76, 0.00
** 482764.394, 3637647.862, 121.64, 0.00
** 482567.147, 3637652.536, 120.29, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000145    AREA    483847.850 3637771.185 124.29
   LOCATION A0000146    AREA    483597.659 3637801.946 124.96
   LOCATION A0000147    AREA    483319.082 3637755.517 123.08
   LOCATION A0000148    AREA    483040.505 3637709.087 122.19
   LOCATION A0000149    AREA    482764.750 3637662.858 120.87
** End of LINE AREA Source ID = ARLN13
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN14
** DESCRSRC 26% 0.28mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 6.8006E-14
** Nodes = 3
** 482567.147, 3637652.536, 120.29, 0.00
** 482411.966, 3637651.601, 119.57, 0.00
** 482128.715, 3637606.730, 117.61, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000150    AREA    482567.056 3637667.536 120.02
   LOCATION A0000151    AREA    482409.619 3637666.417 120.02
** End of LINE AREA Source ID = ARLN14
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN15
** DESCRSRC 12% 0.40mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 3.0721E-14
** Nodes = 2
** 482126.846, 3637608.600, 117.60, 0.00
** 481492.102, 3637493.617, 111.43, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000152    AREA    482124.172 3637623.359 117.14
   LOCATION A0000153    AREA    481912.591 3637585.032 115.92
   LOCATION A0000154    AREA    481701.009 3637546.704 114.18
** End of LINE AREA Source ID = ARLN15
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN16
** DESCRSRC 14% 0.60mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 3.6728E-14
** Nodes = 8
** 482126.846, 3637587.099, 117.18, 0.00
** 482133.390, 3637559.054, 108.21, 0.00
** 482142.738, 3637484.268, 110.37, 0.00
** 482139.933, 3637419.766, 115.92, 0.00
** 482134.324, 3637365.546, 116.57, 0.00
** 482113.758, 3637300.108, 117.27, 0.00
** 482054.865, 3637205.691, 118.26, 0.00
** 481709.915, 3636788.761, 115.99, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000155    AREA    482112.238 3637583.690 117.18
   LOCATION A0000156    AREA    482118.505 3637557.194 111.29
   LOCATION A0000157    AREA    482127.752 3637484.920 108.18
   LOCATION A0000158    AREA    482125.013 3637421.309 116.64
   LOCATION A0000159    AREA    482120.014 3637370.043 116.50
   LOCATION A0000160    AREA    482101.031 3637308.047 116.96
   LOCATION A0000161    AREA    482043.307 3637215.253 117.74
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   LOCATION A0000162     AREA    481870.833 3637006.788 117.13
** End of LINE AREA Source ID = ARLN16
** ------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN19
** DESCRSRC 18% 0.25mi
** PREFIX
** Length of Side = 50.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 3.2992E-14
** Nodes = 2
** 482021.898, 3636544.005, 104.32, 0.00
** 482234.174, 3636281.135, 77.49, 0.00
** ------------------------------------------------------------------------
   LOCATION A0000177     AREA    482002.448 3636528.299 103.97
** End of LINE AREA Source ID = ARLN19
** ------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN20
** DESCRSRC 5% 0.66mi
** PREFIX
** Length of Side = 50.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 7.2603E-15
** Nodes = 7
** 482020.827, 3636544.232, 104.33, 0.00
** 481715.050, 3636928.103, 108.46, 0.00
** 481586.360, 3637087.590, 107.11, 0.00
** 481518.165, 3637176.684, 105.55, 0.00
** 481484.068, 3637233.879, 104.55, 0.00
** 481453.270, 3637277.876, 103.67, 0.00
** 481365.277, 3637454.963, 100.89, 0.00
** ------------------------------------------------------------------------
   LOCATION A0000178     AREA    482040.382 3636559.808 104.33
   LOCATION A0000179     AREA    481734.507 3636943.802 108.25
   LOCATION A0000180     AREA    481606.212 3637102.786 106.84
   LOCATION A0000181     AREA    481539.639 3637189.485 105.27
   LOCATION A0000182     AREA    481504.549 3637248.216 104.32
   LOCATION A0000183     AREA    481475.659 3637289.001 103.42
** End of LINE AREA Source ID = ARLN20
** ------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN21
** DESCRSRC 3% 0.32mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 2.3116E-14
** Nodes = 10
** 481664.592, 3637023.399, 107.90, 0.00
** 481581.944, 3637141.014, 106.15, 0.00
** 481531.878, 3637218.894, 104.86, 0.00
** 481506.448, 3637270.549, 104.25, 0.00
** 481495.322, 3637303.132, 104.25, 0.00
** 481493.732, 3637337.304, 104.87, 0.00
** 481500.090, 3637374.654, 105.83, 0.00
** 481516.779, 3637431.872, 109.05, 0.00
** 481518.368, 3637455.713, 110.28, 0.00
** 481514.395, 3637485.912, 111.36, 0.00
** ------------------------------------------------------------------------
   LOCATION A0000184     AREA    481668.683 3637026.274 107.79
   LOCATION A0000185     AREA    481627.359 3637085.081 107.03
   LOCATION A0000186     AREA    481586.149 3637143.718 106.08
   LOCATION A0000187     AREA    481536.364 3637221.103 104.58
   LOCATION A0000188     AREA    481511.179 3637272.165 103.59
   LOCATION A0000189     AREA    481500.316 3637303.364 103.82
   LOCATION A0000190     AREA    481498.662 3637336.465 104.35
   LOCATION A0000191     AREA    481504.890 3637373.254 105.68
   LOCATION A0000192     AREA    481521.768 3637431.540 109.45
   LOCATION A0000193     AREA    481523.325 3637456.366 110.66
** End of LINE AREA Source ID = ARLN21
** ------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN22
** DESCRSRC 5% 10.58mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 3.8494E-13
** Nodes = 18
** 482568.532, 3637667.753, 120.05, 0.00
** 482569.508, 3637698.499, 120.31, 0.00
** 482566.092, 3637716.069, 120.39, 0.00
** 482549.986, 3637752.185, 120.07, 0.00
** 482499.718, 3637827.832, 119.14, 0.00
** 482459.698, 3637910.312, 117.83, 0.00
** 482426.999, 3637964.973, 117.27, 0.00
** 482415.286, 3637980.591, 117.48, 0.00
** 482369.409, 3638030.859, 117.56, 0.00
** 482345.007, 3638049.893, 117.66, 0.00
** 482106.305, 3638220.109, 117.45, 0.00
** 482050.208, 3638249.092, 117.09, 0.00
** 481995.045, 3638257.507, 116.93, 0.00
** 481939.883, 3638258.442, 116.55, 0.00
** 481897.810, 3638249.092, 116.65, 0.00
** 481664.070, 3638230.393, 113.48, 0.00
** 481581.432, 3638220.503, 112.60, 0.00
** 481178.132, 3638099.354, 93.59, 0.00
** ------------------------------------------------------------------------
   LOCATION A0000194     AREA    482573.530 3637667.594 120.08
   LOCATION A0000195     AREA    482574.416 3637699.454 120.41
   LOCATION A0000196     AREA    482570.659 3637718.106 120.45
   LOCATION A0000197     AREA    482554.151 3637754.952 120.15
   LOCATION A0000198     AREA    482504.216 3637830.015 119.10
   LOCATION A0000199     AREA    482463.989 3637912.879 118.23
   LOCATION A0000200     AREA    482430.999 3637967.973 117.86
   LOCATION A0000201     AREA    482418.979 3637983.961 117.84
   LOCATION A0000202     AREA    482372.484 3638034.802 117.96
   LOCATION A0000203     AREA    482347.910 3638053.964 117.99
   LOCATION A0000204     AREA    482268.342 3638110.703 118.27
   LOCATION A0000205     AREA    482188.775 3638167.441 117.95
   LOCATION A0000206     AREA    482108.600 3638224.551 117.99
   LOCATION A0000207     AREA    482050.962 3638254.035 118.09
   LOCATION A0000208     AREA    481995.130 3638262.506 117.73
   LOCATION A0000209     AREA    481938.798 3638263.323 117.14
   LOCATION A0000210     AREA    481897.411 3638254.077 116.33
   LOCATION A0000211     AREA    481819.498 3638247.843 115.58
   LOCATION A0000212     AREA    481741.585 3638241.610 114.94
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   LOCATION A0000213    AREA    481663.476 3638235.358 113.45
   LOCATION A0000214    AREA    481579.994 3638225.291 112.49
   LOCATION A0000215    AREA    481499.334 3638201.062 112.05
   LOCATION A0000216    AREA    481418.674 3638176.832 112.87
   LOCATION A0000217    AREA    481338.013 3638152.602 115.20
   LOCATION A0000218    AREA    481257.353 3638128.373 114.50
** End of LINE AREA Source ID = ARLN22
** ----------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN23
** DESCRSRC 2% 1.15mi
** PREFIX
** Length of Side = 50.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 3.0658E-15
** Nodes = 9
** 480706.891, 3639174.610, 43.73, 0.00
** 480803.828, 3639086.103, 54.99, 0.00
** 480909.194, 3638951.235, 48.14, 0.00
** 481004.023, 3638772.113, 55.70, 0.00
** 481090.423, 3638418.084, 85.77, 0.00
** 481223.184, 3637912.328, 96.20, 0.00
** 481267.437, 3637731.099, 98.51, 0.00
** 481313.798, 3637570.943, 99.16, 0.00
** 481353.837, 3637465.577, 100.69, 0.00
** ----------------------------------------------------------------------------
   LOCATION A0000219    AREA    480690.035 3639156.148 43.84
   LOCATION A0000220    AREA    480784.127 3639070.712 56.25
   LOCATION A0000221    AREA    480887.099 3638939.537 43.15
   LOCATION A0000222    AREA    480979.736 3638766.185 62.05
   LOCATION A0000223    AREA    481066.242 3638411.736 85.53
   LOCATION A0000224    AREA    481132.623 3638158.858 92.51
   LOCATION A0000225    AREA    481198.897 3637906.398 96.57
   LOCATION A0000226    AREA    481243.423 3637724.147 98.08
   LOCATION A0000227    AREA    481290.429 3637562.062 99.80
** End of LINE AREA Source ID = ARLN23
** ----------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN24
** DESCRSRC 5% 0.85mi
** PREFIX
** Length of Side = 50.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 7.7048E-15
** Nodes = 8
** 479632.161, 3639996.463, 26.36, 0.00
** 479760.707, 3639827.878, 30.25, 0.00
** 479872.395, 3639711.975, 33.01, 0.00
** 479988.297, 3639608.717, 34.94, 0.00
** 480173.741, 3639486.493, 37.11, 0.00
** 480348.648, 3639400.093, 39.62, 0.00
** 480582.560, 3639284.190, 46.39, 0.00
** 480704.784, 3639180.932, 43.70, 0.00
** ----------------------------------------------------------------------------
   LOCATION A0000228    AREA    479612.280 3639981.304 26.00
   LOCATION A0000229    AREA    479742.705 3639810.530 30.88
   LOCATION A0000230    AREA    479855.764 3639693.309 33.29
   LOCATION A0000231    AREA    479974.539 3639587.843 35.18
   LOCATION A0000232    AREA    480162.668 3639464.078 37.38
   LOCATION A0000233    AREA    480337.548 3639377.692 39.56
   LOCATION A0000234    AREA    480566.426 3639265.093 45.75
** End of LINE AREA Source ID = ARLN24
** ----------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN25
** DESCRSRC 1% 1.57mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 7.7052E-15
** Nodes = 26
** 480916.884, 3638933.048, 48.30, 0.00
** 480979.310, 3638963.500, 34.38, 0.00
** 481029.556, 3639006.132, 32.48, 0.00
** 481088.937, 3639047.242, 43.90, 0.00
** 481148.317, 3639073.126, 44.90, 0.00
** 481207.698, 3639083.784, 46.35, 0.00
** 481375.183, 3639112.713, 51.01, 0.00
** 481448.267, 3639129.461, 51.53, 0.00
** 481771.055, 3639222.339, 52.99, 0.00
** 482013.146, 3639313.694, 46.74, 0.00
** 482078.617, 3639362.417, 46.90, 0.00
** 482116.682, 3639397.437, 48.39, 0.00
** 482183.675, 3639429.411, 50.64, 0.00
** 482230.876, 3639438.546, 51.35, 0.00
** 482285.689, 3639443.114, 51.85, 0.00
** 482373.999, 3639424.843, 49.71, 0.00
** 482648.064, 3639350.236, 50.25, 0.00
** 482678.516, 3639335.011, 52.37, 0.00
** 482701.354, 3639313.694, 54.75, 0.00
** 482724.193, 3639287.810, 57.79, 0.00
** 482734.851, 3639260.404, 60.01, 0.00
** 482756.168, 3639191.887, 65.64, 0.00
** 482786.619, 3639112.713, 70.27, 0.00
** 482815.548, 3639080.739, 71.67, 0.00
** 482864.271, 3639050.287, 73.62, 0.00
** 483130.724, 3638963.500, 87.73, 0.00
** ----------------------------------------------------------------------------
   LOCATION A0000235    AREA    480919.077 3638928.554 47.91
   LOCATION A0000236    AREA    480982.545 3638959.687 33.58
   LOCATION A0000237    AREA    481032.402 3639002.021 32.27
   LOCATION A0000238    AREA    481090.935 3639042.658 43.86
   LOCATION A0000239    AREA    481149.201 3639068.204 44.80
   LOCATION A0000240    AREA    481208.549 3639078.857 46.14
   LOCATION A0000241    AREA    481292.292 3639093.321 48.85
   LOCATION A0000242    AREA    481376.300 3639107.839 50.84
   LOCATION A0000243    AREA    481449.649 3639124.656 51.50
   LOCATION A0000244    AREA    481530.346 3639147.876 52.44
   LOCATION A0000245    AREA    481611.043 3639171.095 53.31
   LOCATION A0000246    AREA    481691.740 3639194.315 53.82
   LOCATION A0000247    AREA    481772.820 3639217.661 53.00
   LOCATION A0000248    AREA    481853.517 3639248.113 51.20
   LOCATION A0000249    AREA    481934.214 3639278.565 48.84
   LOCATION A0000250    AREA    482016.131 3639309.683 46.88
   LOCATION A0000251    AREA    482082.002 3639358.737 46.86
   LOCATION A0000252    AREA    482118.835 3639392.924 48.59
   LOCATION A0000253    AREA    482184.626 3639424.502 50.88
   LOCATION A0000254    AREA    482231.291 3639433.564 51.65
   LOCATION A0000255    AREA    482284.676 3639438.218 51.77
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   LOCATION A0000256    AREA    482372.685 3639420.019 49.69
   LOCATION A0000257    AREA    482464.040 3639395.150 47.23
   LOCATION A0000258    AREA    482555.396 3639370.281 47.54
   LOCATION A0000259    AREA    482645.828 3639345.764 50.47
   LOCATION A0000260    AREA    482675.104 3639331.355 52.44
   LOCATION A0000261    AREA    482697.605 3639310.386 54.94
   LOCATION A0000262    AREA    482719.533 3639285.998 57.55
   LOCATION A0000263    AREA    482730.077 3639258.919 59.92
   LOCATION A0000264    AREA    482751.501 3639190.093 66.06
   LOCATION A0000265    AREA    482782.912 3639109.358 70.37
   LOCATION A0000266    AREA    482812.898 3639076.499 71.94
   LOCATION A0000267    AREA    482862.723 3639045.533 73.79
   LOCATION A0000268    AREA    482951.540 3639016.604 77.40
   LOCATION A0000269    AREA    483040.358 3638987.675 83.72
** End of LINE AREA Source ID = ARLN25
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN26
** DESCRSRC 2% 0.48mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.5495E-14
** Nodes = 13
** 483130.724, 3638963.500, 87.73, 0.00
** 483168.788, 3638942.183, 88.54, 0.00
** 483219.033, 3638908.687, 91.18, 0.00
** 483308.866, 3638847.783, 97.40, 0.00
** 483333.227, 3638838.648, 98.34, 0.00
** 483360.634, 3638829.512, 99.65, 0.00
** 483485.486, 3638831.035, 103.60, 0.00
** 483523.551, 3638824.944, 104.85, 0.00
** 483550.957, 3638815.809, 105.16, 0.00
** 483599.680, 3638774.699, 105.69, 0.00
** 483669.719, 3638713.796, 106.76, 0.00
** 483719.964, 3638665.073, 107.11, 0.00
** 483765.642, 3638598.079, 110.93, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000270    AREA    483128.281 3638959.137 87.72
   LOCATION A0000271    AREA    483166.015 3638938.023 88.54
   LOCATION A0000272    AREA    483216.228 3638904.548 91.12
   LOCATION A0000273    AREA    483261.144 3638874.096 94.65
   LOCATION A0000274    AREA    483307.110 3638843.102 97.61
   LOCATION A0000275    AREA    483331.646 3638833.904 98.30
   LOCATION A0000276    AREA    483360.695 3638824.513 99.33
   LOCATION A0000277    AREA    483423.121 3638825.274 100.72
   LOCATION A0000278    AREA    483484.696 3638826.098 103.43
   LOCATION A0000279    AREA    483521.969 3638820.201 104.92
   LOCATION A0000280    AREA    483547.733 3638811.987 105.17
   LOCATION A0000281    AREA    483596.399 3638770.926 105.65
   LOCATION A0000282    AREA    483666.238 3638710.206 106.45
   LOCATION A0000283    AREA    483715.833 3638662.256 107.15
** End of LINE AREA Source ID = ARLN26
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN27
** DESCRSRC 1% 0.34
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 7.6139E-15
** Nodes = 8
** 483765.642, 3638591.989, 111.29, 0.00
** 483724.532, 3638579.808, 113.90, 0.00
** 483700.170, 3638584.376, 115.16, 0.00
** 483407.834, 3638712.273, 117.69, 0.00
** 483386.518, 3638713.796, 117.51, 0.00
** 483333.227, 3638701.615, 116.92, 0.00
** 483304.298, 3638701.615, 116.63, 0.00
** 483247.963, 3638725.976, 116.05, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000284    AREA    483764.221 3638596.783 110.98
   LOCATION A0000285    AREA    483725.453 3638584.723 113.46
   LOCATION A0000286    AREA    483702.175 3638588.957 115.41
   LOCATION A0000287    AREA    483629.090 3638620.931 117.82
   LOCATION A0000288    AREA    483556.006 3638652.905 118.54
   LOCATION A0000289    AREA    483482.922 3638684.880 118.61
   LOCATION A0000290    AREA    483408.190 3638717.260 117.81
   LOCATION A0000291    AREA    483385.404 3638718.670 117.58
   LOCATION A0000292    AREA    483333.227 3638706.615 117.02
   LOCATION A0000293    AREA    483306.283 3638706.204 116.79
** End of LINE AREA Source ID = ARLN27
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN28
** DESCRSRC 3% 0.15mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 2.2804E-14
** Nodes = 5
** 483768.687, 3638595.034, 111.06, 0.00
** 483794.571, 3638573.718, 113.10, 0.00
** 483828.068, 3638555.447, 115.34, 0.00
** 483887.448, 3638553.924, 117.03, 0.00
** 484000.120, 3638566.105, 122.72, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000294    AREA    483765.508 3638591.174 111.38
   LOCATION A0000295    AREA    483792.176 3638569.328 113.41
   LOCATION A0000296    AREA    483827.939 3638550.448 116.65
   LOCATION A0000297    AREA    483887.986 3638548.953 117.07
   LOCATION A0000298    AREA    483944.322 3638555.044 119.88
** End of LINE AREA Source ID = ARLN28
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN29
** DESCRSRC 2% 0.14mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.5237E-14
** Nodes = 8
** 483997.646, 3638573.468, 122.39, 0.00
** 483999.598, 3638615.934, 120.62, 0.00
** 483995.205, 3638636.435, 118.94, 0.00
** 483983.002, 3638659.864, 116.99, 0.00
** 483972.264, 3638674.996, 115.49, 0.00
** 483955.668, 3638691.592, 113.67, 0.00
```

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** 483932.238, 3638724.784, 110.75, 0.00
** 483918.083, 3638777.989, 105.73, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000299    AREA    484002.641 3638573.238 122.77
   LOCATION A0000300    AREA    484004.487 3638616.982 120.87
   LOCATION A0000301    AREA    483999.640 3638638.744 119.00
   LOCATION A0000302    AREA    483987.080 3638662.758 117.16
   LOCATION A0000303    AREA    483975.799 3638678.532 115.63
   LOCATION A0000304    AREA    483959.753 3638694.475 113.91
   LOCATION A0000305    AREA    483937.070 3638726.070 110.39
** End of LINE AREA Source ID = ARLN29
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN30
** DESCRSRC 5% 0.23mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 3.9078E-14
** Nodes = 2
** 484001.063, 3638567.122, 122.81, 0.00
** 484364.222, 3638598.362, 120.21, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000306    AREA    484001.491 3638562.141 122.66
   LOCATION A0000307    AREA    484092.281 3638569.950 126.30
   LOCATION A0000308    AREA    484183.071 3638577.760 126.65
   LOCATION A0000309    AREA    484273.861 3638585.570 123.65
** End of LINE AREA Source ID = ARLN30
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN31
** DESCRSRC 12% 1.55mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 3.0794E-14
** Nodes = 8
** 485390.971, 3638220.834, 130.57, 0.00
** 485913.077, 3638571.873, 134.84, 0.00
** 486860.778, 3639225.768, 134.69, 0.00
** 487183.247, 3639444.331, 137.09, 0.00
** 487242.366, 3639474.786, 137.37, 0.00
** 487330.149, 3639501.659, 138.27, 0.00
** 487376.728, 3639508.825, 138.39, 0.00
** 487494.967, 3639508.825, 139.52, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000310    AREA    485399.340 3638208.386 130.44
   LOCATION A0000311    AREA    485573.376 3638325.399 131.58
   LOCATION A0000312    AREA    485747.411 3638442.412 132.90
   LOCATION A0000313    AREA    485921.596 3638559.527 134.39
   LOCATION A0000314    AREA    486158.521 3638723.001 135.68
   LOCATION A0000315    AREA    486395.446 3638886.474 131.44
   LOCATION A0000316    AREA    486632.371 3639049.948 133.30
   LOCATION A0000317    AREA    486869.193 3639213.352 134.54
   LOCATION A0000318    AREA    487030.428 3639322.633 135.73
   LOCATION A0000319    AREA    487190.116 3639430.996 136.31
   LOCATION A0000320    AREA    487246.757 3639460.443 136.59
   LOCATION A0000321    AREA    487332.430 3639486.833 136.85
   LOCATION A0000322    AREA    487376.728 3639493.825 137.66
** End of LINE AREA Source ID = ARLN31
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN32
** DESCRSRC 8% 0.80mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 2.0622E-14
** Nodes = 2
** 487498.205, 3639508.029, 139.52, 0.00
** 488779.406, 3639523.927, 154.65, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000323    AREA    487498.391 3639493.030 139.35
   LOCATION A0000324    AREA    487754.631 3639496.210 143.65
   LOCATION A0000325    AREA    488010.872 3639499.389 146.29
   LOCATION A0000326    AREA    488267.112 3639502.569 148.85
   LOCATION A0000327    AREA    488523.352 3639505.749 151.13
** End of LINE AREA Source ID = ARLN32
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN33
** DESCRSRC 1% 0.40mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 7.7806E-15
** Nodes = 8
** 487492.939, 3639529.259, 139.21, 0.00
** 487487.437, 3639579.873, 138.38, 0.00
** 487466.532, 3639635.987, 136.57, 0.00
** 487377.408, 3639741.615, 130.15, 0.00
** 487430.222, 3639792.229, 131.26, 0.00
** 487469.833, 3639809.833, 132.11, 0.00
** 487495.139, 3639815.335, 132.67, 0.00
** 487740.504, 3639816.435, 140.09, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000328    AREA    487497.909 3639529.799 139.27
   LOCATION A0000329    AREA    487492.123 3639581.618 138.66
   LOCATION A0000330    AREA    487470.353 3639639.212 136.81
   LOCATION A0000331    AREA    487425.791 3639692.026 133.35
   LOCATION A0000332    AREA    487380.868 3639738.005 130.30
   LOCATION A0000333    AREA    487432.253 3639787.660 131.17
   LOCATION A0000334    AREA    487470.895 3639804.948 132.05
   LOCATION A0000335    AREA    487495.162 3639810.335 132.71
   LOCATION A0000336    AREA    487576.950 3639810.702 135.11
   LOCATION A0000337    AREA    487658.738 3639811.068 137.69
** End of LINE AREA Source ID = ARLN33
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN34
** DESCRSRC 55% 0.17mi
** PREFIX
** Length of Side = 20.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 2.0635E-13
** Nodes = 4
** 484331.353, 3639625.114, 88.64, 0.00
```

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** 484469.211, 3639661.302, 98.49, 0.00
** 484521.482, 3639673.939, 93.65, 0.00
** 484595.581, 3639714.147, 88.39, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000338    AREA    484333.892 3639615.442 88.32
   LOCATION A0000339    AREA    484471.561 3639651.582 101.46
   LOCATION A0000340    AREA    484526.252 3639665.149 93.47
** End of LINE AREA Source ID = ARLN34
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN35
** DESCRSRC 45% 0.50mi
** PREFIX
** Length of Side = 20.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.7345E-13
** Nodes = 21
** 484065.977, 3640036.390, 93.67, 0.00
** 484121.694, 3640050.750, 116.42, 0.00
** 484188.326, 3640085.789, 112.68, 0.00
** 484232.555, 3640109.340, 99.79, 0.00
** 484254.383, 3640115.658, 98.41, 0.00
** 484286.550, 3640118.530, 100.10, 0.00
** 484321.588, 3640117.956, 98.50, 0.00
** 484352.032, 3640112.212, 98.36, 0.00
** 484379.604, 3640100.149, 98.43, 0.00
** 484443.363, 3640064.536, 101.16, 0.00
** 484478.402, 3640049.602, 104.54, 0.00
** 484504.250, 3640028.348, 108.32, 0.00
** 484518.610, 3640013.414, 108.22, 0.00
** 484534.119, 3639990.437, 100.93, 0.00
** 484543.884, 3639963.440, 91.52, 0.00
** 484549.628, 3639935.294, 89.04, 0.00
** 484553.649, 3639846.835, 92.86, 0.00
** 484554.798, 3639814.094, 93.04, 0.00
** 484560.542, 3639791.692, 93.56, 0.00
** 484576.051, 3639754.930, 93.96, 0.00
** 484593.283, 3639725.061, 88.05, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000341    AREA    484068.473 3640026.707 93.71
   LOCATION A0000342    AREA    484126.349 3640041.899 116.03
   LOCATION A0000343    AREA    484193.026 3640076.963 112.33
   LOCATION A0000344    AREA    484235.336 3640099.734 98.70
   LOCATION A0000345    AREA    484255.272 3640105.698 98.20
   LOCATION A0000346    AREA    484286.386 3640108.532 98.46
   LOCATION A0000347    AREA    484319.734 3640108.129 98.38
   LOCATION A0000348    AREA    484348.024 3640103.050 99.16
   LOCATION A0000349    AREA    484374.727 3640091.419 99.79
   LOCATION A0000350    AREA    484439.442 3640055.337 102.63
   LOCATION A0000351    AREA    484472.051 3640041.877 104.26
   LOCATION A0000352    AREA    484497.042 3640021.417 108.48
   LOCATION A0000353    AREA    484510.322 3640007.819 108.63
   LOCATION A0000354    AREA    484524.716 3639987.036 107.63
   LOCATION A0000355    AREA    484534.086 3639961.441 98.88
   LOCATION A0000356    AREA    484539.639 3639934.840 94.20
   LOCATION A0000357    AREA    484543.655 3639846.485 92.63
   LOCATION A0000358    AREA    484545.111 3639811.610 92.90
   LOCATION A0000359    AREA    484551.329 3639787.805 97.58
   LOCATION A0000360    AREA    484567.389 3639749.933 98.38
** End of LINE AREA Source ID = ARLN35
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN36
** DESCRSRC 7% 1.23mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.7994E-14
** Nodes = 15
** 480740.933, 3639190.971, 45.23, 0.00
** 480810.818, 3639251.896, 49.42, 0.00
** 480903.997, 3639327.156, 55.71, 0.00
** 480973.881, 3639371.953, 58.83, 0.00
** 481045.557, 3639393.456, 60.18, 0.00
** 481136.944, 3639402.416, 62.07, 0.00
** 481459.487, 3639407.791, 69.18, 0.00
** 481540.123, 3639423.919, 71.08, 0.00
** 481629.718, 3639465.132, 74.97, 0.00
** 481740.816, 3639542.184, 82.49, 0.00
** 481780.238, 3639583.398, 84.53, 0.00
** 482049.024, 3639963.282, 100.73, 0.00
** 482142.203, 3640094.091, 106.58, 0.00
** 482195.960, 3640144.264, 108.75, 0.00
** 482285.556, 3640221.316, 111.32, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000361    AREA    480750.790 3639179.664 47.66
   LOCATION A0000362    AREA    480820.243 3639240.226 49.15
   LOCATION A0000363    AREA    480912.092 3639314.527 55.60
   LOCATION A0000364    AREA    480978.191 3639357.586 58.03
   LOCATION A0000365    AREA    481047.021 3639378.528 59.55
   LOCATION A0000366    AREA    481137.194 3639387.418 61.63
   LOCATION A0000367    AREA    481298.466 3639390.106 64.33
   LOCATION A0000368    AREA    481462.429 3639393.083 69.38
   LOCATION A0000369    AREA    481546.392 3639410.291 70.75
   LOCATION A0000370    AREA    481638.267 3639452.807 75.94
   LOCATION A0000371    AREA    481751.656 3639531.816 83.03
   LOCATION A0000372    AREA    481792.483 3639574.734 85.15
   LOCATION A0000373    AREA    481926.876 3639764.676 92.09
   LOCATION A0000374    AREA    482061.241 3639954.579 100.36
   LOCATION A0000375    AREA    482152.438 3640083.125 105.69
   LOCATION A0000376    AREA    482205.741 3640132.892 108.33
** End of LINE AREA Source ID = ARLN36
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN37
** DESCRSRC 3% 0.25mi
** PREFIX
** Length of Side = 20.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.1732E-14
** Nodes = 3
** 482273.012, 3640237.444, 111.06, 0.00
** 482206.712, 3640292.993, 108.42, 0.00
** 481912.839, 3640389.756, 96.90, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000377    AREA    482279.435 3640245.109 111.20
   LOCATION A0000378    AREA    482209.839 3640302.491 108.60
   LOCATION A0000379    AREA    482062.903 3640350.872 100.54
** End of LINE AREA Source ID = ARLN37
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** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN38
** DESCRSRC 1% 0.23mi
** PREFIX
** Length of Side = 20.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 3.8876E-15
** Nodes = 7
** 482297.741, 3640212.627, 111.13, 0.00
** 482335.819, 3640141.040, 109.08, 0.00
** 482355.619, 3640087.731, 106.59, 0.00
** 482355.619, 3640000.912, 100.37, 0.00
** 482346.481, 3639944.557, 95.78, 0.00
** 482323.634, 3639876.016, 89.66, 0.00
** 482317.541, 3639865.354, 88.46, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000380    AREA    482288.912 3640207.931 110.99
   LOCATION A0000381    AREA    482326.444 3640137.558 108.92
   LOCATION A0000382    AREA    482345.619 3640087.731 106.41
   LOCATION A0000383    AREA    482345.748 3640002.513 99.91
   LOCATION A0000384    AREA    482336.994 3639947.719 95.37
   LOCATION A0000385    AREA    482314.951 3639880.978 89.71
** End of LINE AREA Source ID = ARLN38
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN39
** DESCRSRC 12% 0.85mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 3.0944E-14
** Nodes = 6
** 482294.694, 3640233.951, 111.50, 0.00
** 482527.732, 3640422.818, 115.77, 0.00
** 483069.965, 3640820.353, 117.34, 0.00
** 483135.459, 3640858.432, 116.37, 0.00
** 483191.815, 3640884.325, 117.12, 0.00
** 483435.515, 3640943.727, 120.13, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000386    AREA    482304.139 3640222.297 111.37
   LOCATION A0000387    AREA    482536.601 3640410.721 115.68
   LOCATION A0000388    AREA    482717.346 3640543.233 117.25
   LOCATION A0000389    AREA    482898.090 3640675.744 115.82
   LOCATION A0000390    AREA    483077.504 3640807.386 116.39
   LOCATION A0000391    AREA    483141.722 3640844.801 115.88
   LOCATION A0000392    AREA    483195.367 3640869.751 116.43
** End of LINE AREA Source ID = ARLN39
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN40
** DESCRSRC 11% 0.52mi
** PREFIX
** Length of Side = 20.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 4.2348E-14
** Nodes = 18
** 483440.772, 3640927.399, 120.07, 0.00
** 483447.375, 3640888.883, 120.81, 0.00
** 483448.475, 3640869.075, 120.94, 0.00
** 483445.174, 3640778.836, 120.04, 0.00
** 483445.174, 3640757.928, 119.67, 0.00
** 483449.576, 3640729.315, 119.30, 0.00
** 483461.681, 3640697.402, 118.81, 0.00
** 483479.288, 3640674.292, 118.62, 0.00
** 483521.106, 3640641.278, 118.15, 0.00
** 483546.417, 3640632.475, 117.94, 0.00
** 483600.340, 3640622.570, 117.48, 0.00
** 483710.386, 3640617.068, 118.47, 0.00
** 483735.697, 3640621.470, 117.94, 0.00
** 483763.208, 3640626.972, 117.17, 0.00
** 483889.762, 3640733.717, 112.41, 0.00
** 483917.273, 3640754.626, 111.91, 0.00
** 483961.292, 3640766.731, 111.29, 0.00
** 483989.904, 3640774.435, 111.54, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000393    AREA    483430.916 3640925.710 119.99
   LOCATION A0000394    AREA    483437.390 3640888.328 120.87
   LOCATION A0000395    AREA    483438.482 3640869.440 120.87
   LOCATION A0000396    AREA    483435.174 3640778.836 120.60
   LOCATION A0000397    AREA    483435.290 3640756.407 120.22
   LOCATION A0000398    AREA    483440.226 3640725.769 120.01
   LOCATION A0000399    AREA    483453.727 3640691.342 119.38
   LOCATION A0000400    AREA    483473.092 3640666.443 118.73
   LOCATION A0000401    AREA    483517.821 3640631.833 118.98
   LOCATION A0000402    AREA    483544.610 3640622.639 118.16
   LOCATION A0000403    AREA    483599.840 3640612.583 117.80
   LOCATION A0000404    AREA    483712.099 3640607.216 118.64
   LOCATION A0000405    AREA    483737.658 3640611.664 118.05
   LOCATION A0000406    AREA    483769.656 3640619.328 117.29
   LOCATION A0000407    AREA    483895.813 3640725.756 112.32
   LOCATION A0000408    AREA    483919.925 3640744.984 111.90
   LOCATION A0000409    AREA    483963.892 3640757.075 111.16
** End of LINE AREA Source ID = ARLN40
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN41
** DESCRSRC 6% 0.34mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.5262E-14
** Nodes = 2
** 483438.571, 3640945.007, 120.18, 0.00
** 483980.000, 3641051.752, 123.42, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000410    AREA    483441.473 3640930.290 120.05
   LOCATION A0000411    AREA    483712.187 3640983.662 124.90
** End of LINE AREA Source ID = ARLN41
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN42
** DESCRSRC 23% 0.16mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 5.7898E-14
```

```
** Nodes = 3
** 483983.301, 3641038.546, 123.19, 0.00
** 484003.110, 3640902.088, 119.01, 0.00
** 484009.712, 3640777.736, 111.76, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000412    AREA    483968.457 3641036.391 123.24
   LOCATION A0000413    AREA    483988.131 3640901.293 118.78
** End of LINE AREA Source ID = ARLN42
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN43
** DESCRSRC 4% 0.99mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 3.0685E-14
** Nodes = 20
** 484025.119, 3640778.836, 111.58, 0.00
** 484115.357, 3640779.937, 115.03, 0.00
** 484228.705, 3640816.252, 122.01, 0.00
** 484269.422, 3640818.453, 122.91, 0.00
** 484290.331, 3640819.554, 123.08, 0.00
** 484796.545, 3640812.951, 123.75, 0.00
** 484847.166, 3640816.252, 123.53, 0.00
** 484890.084, 3640836.061, 123.19, 0.00
** 484939.605, 3640859.170, 122.75, 0.00
** 484978.121, 3640892.184, 124.01, 0.00
** 485026.542, 3640914.194, 123.27, 0.00
** 485071.661, 3640925.198, 122.39, 0.00
** 485103.574, 3640931.801, 121.87, 0.00
** 485286.251, 3641012.135, 118.59, 0.00
** 485319.265, 3641027.541, 118.95, 0.00
** 485358.882, 3641024.240, 119.08, 0.00
** 485402.901, 3641015.436, 118.70, 0.00
** 485465.627, 3640979.121, 118.88, 0.00
** 485503.043, 3640963.714, 118.96, 0.00
** 485554.765, 3640958.212, 118.74, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000414    AREA    484025.180 3640773.837 111.63
   LOCATION A0000415    AREA    484116.883 3640775.175 115.03
   LOCATION A0000416    AREA    484173.556 3640793.333 119.73
   LOCATION A0000417    AREA    484228.975 3640811.259 121.99
   LOCATION A0000418    AREA    484269.685 3640813.460 122.94
   LOCATION A0000419    AREA    484290.266 3640814.554 123.00
   LOCATION A0000420    AREA    484374.635 3640813.454 122.34
   LOCATION A0000421    AREA    484459.004 3640812.353 121.78
   LOCATION A0000422    AREA    484543.373 3640811.253 121.02
   LOCATION A0000423    AREA    484627.742 3640810.152 120.70
   LOCATION A0000424    AREA    484712.110 3640809.052 122.20
   LOCATION A0000425    AREA    484796.870 3640807.961 123.78
   LOCATION A0000426    AREA    484849.261 3640811.712 123.54
   LOCATION A0000427    AREA    484892.199 3640831.530 123.20
   LOCATION A0000428    AREA    484942.859 3640855.374 122.71
   LOCATION A0000429    AREA    484980.190 3640887.632 123.81
   LOCATION A0000430    AREA    485027.727 3640909.336 123.63
   LOCATION A0000431    AREA    485072.674 3640920.302 122.58
   LOCATION A0000432    AREA    485105.587 3640927.224 121.94
   LOCATION A0000433    AREA    485196.926 3640967.391 120.13
   LOCATION A0000434    AREA    485288.366 3641007.604 118.69
   LOCATION A0000435    AREA    485318.850 3641022.559 118.99
   LOCATION A0000436    AREA    485357.902 3641019.337 119.13
   LOCATION A0000437    AREA    485400.396 3641011.109 118.78
   LOCATION A0000438    AREA    485463.723 3640974.498 118.93
   LOCATION A0000439    AREA    485502.514 3640958.743 118.89
** End of LINE AREA Source ID = ARLN43
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN44
** DESCRSRC 13% 0.94mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 3.3343E-14
** Nodes = 6
** 483977.799, 3641052.852, 123.43, 0.00
** 484992.427, 3641257.539, 125.27, 0.00
** 485220.224, 3641302.658, 125.66, 0.00
** 485329.170, 3641330.169, 126.58, 0.00
** 485405.102, 3641357.681, 127.40, 0.00
** 485451.321, 3641382.992, 127.43, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000440    AREA    483980.765 3641038.148 123.22
   LOCATION A0000441    AREA    484234.422 3641089.320 125.20
   LOCATION A0000442    AREA    484488.079 3641140.492 125.41
   LOCATION A0000443    AREA    484741.737 3641191.663 125.39
   LOCATION A0000444    AREA    484995.342 3641242.824 125.14
   LOCATION A0000445    AREA    485223.896 3641288.114 126.39
   LOCATION A0000446    AREA    485334.279 3641316.066 127.32
   LOCATION A0000447    AREA    485412.306 3641344.524 128.44
** End of LINE AREA Source ID = ARLN44
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN45
** DESCRSRC 4% 0.22mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.0432E-14
** Nodes = 4
** 483974.643, 3641068.991, 123.34, 0.00
** 483951.256, 3641248.597, 116.37, 0.00
** 483936.289, 3641324.368, 110.48, 0.00
** 483907.290, 3641409.494, 104.40, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000448    AREA    483989.517 3641070.928 123.19
   LOCATION A0000449    AREA    483965.972 3641251.504 115.97
   LOCATION A0000450    AREA    483950.488 3641329.205 110.50
** End of LINE AREA Source ID = ARLN45
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN46
** DESCRSRC 2% 0.38mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.5219E-14
** Nodes = 9
** 485443.295, 3641397.333, 127.07, 0.00
```

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** 485416.167, 3641444.106, 127.63, 0.00
** 485400.264, 3641484.330, 127.88, 0.00
** 485398.393, 3641508.651, 127.76, 0.00
** 485399.329, 3641782.737, 127.88, 0.00
** 485389.974, 3641836.993, 128.60, 0.00
** 485373.136, 3641899.668, 129.28, 0.00
** 485363.782, 3641962.343, 129.38, 0.00
** 485360.975, 3642001.632, 129.05, 0.00
** ------------------------------------------------------------------------
   LOCATION A0000451    AREA    485447.620 3641399.842 127.10
   LOCATION A0000452    AREA    485420.816 3641445.944 127.56
   LOCATION A0000453    AREA    485405.249 3641484.713 127.85
   LOCATION A0000454    AREA    485403.393 3641508.634 127.69
   LOCATION A0000455    AREA    485403.705 3641599.996 127.61
   LOCATION A0000456    AREA    485404.017 3641691.358 127.58
   LOCATION A0000457    AREA    485404.256 3641783.587 127.91
   LOCATION A0000458    AREA    485394.803 3641838.291 128.53
   LOCATION A0000459    AREA    485378.081 3641900.406 129.25
   LOCATION A0000460    AREA    485368.769 3641962.699 129.48
** End of LINE AREA Source ID = ARLN46
** ------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN47
** DESCRSRC 11% 0.40mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 2.856E-14
** Nodes = 5
** 485452.649, 3641385.172, 127.46, 0.00
** 485610.740, 3641479.653, 129.02, 0.00
** 485675.286, 3641506.780, 129.69, 0.00
** 485734.219, 3641526.425, 129.61, 0.00
** 486047.593, 3641590.035, 129.43, 0.00
** ------------------------------------------------------------------------
   LOCATION A0000461    AREA    485460.344 3641372.297 127.39
   LOCATION A0000462    AREA    485616.552 3641465.824 128.85
   LOCATION A0000463    AREA    485680.029 3641492.550 129.43
   LOCATION A0000464    AREA    485737.203 3641511.725 129.66
   LOCATION A0000465    AREA    485893.890 3641543.530 128.93
** End of LINE AREA Source ID = ARLN47
** ------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN48
** DESCRSRC 1% 0.38mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 7.7459E-15
** Nodes = 11
** 486049.464, 3641575.068, 129.37, 0.00
** 486059.754, 3641523.619, 129.78, 0.00
** 486080.334, 3641444.106, 130.34, 0.00
** 486099.043, 3641394.527, 130.70, 0.00
** 486122.429, 3641345.884, 130.42, 0.00
** 486148.622, 3641304.724, 130.19, 0.00
** 486212.232, 3641231.759, 127.89, 0.00
** 486265.553, 3641186.858, 128.16, 0.00
** 486303.906, 3641161.601, 130.08, 0.00
** 486369.387, 3641131.666, 132.19, 0.00
** 486400.257, 3641120.441, 132.48, 0.00
** ------------------------------------------------------------------------
   LOCATION A0000466    AREA    486044.561 3641574.088 129.34
   LOCATION A0000467    AREA    486054.914 3641522.366 129.78
   LOCATION A0000468    AREA    486075.656 3641442.340 130.42
   LOCATION A0000469    AREA    486094.537 3641392.360 130.66
   LOCATION A0000470    AREA    486118.211 3641343.199 130.48
   LOCATION A0000471    AREA    486144.853 3641301.438 130.19
   LOCATION A0000472    AREA    486209.011 3641227.934 127.83
   LOCATION A0000473    AREA    486262.803 3641182.682 127.85
   LOCATION A0000474    AREA    486301.827 3641157.053 130.00
   LOCATION A0000475    AREA    486367.679 3641126.967 132.35
** End of LINE AREA Source ID = ARLN48
** ------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN49
** DESCRSRC 10% 0.62mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 2.5647E-14
** Nodes = 4
** 486047.593, 3641591.906, 129.43, 0.00
** 486169.202, 3641610.615, 130.97, 0.00
** 486196.330, 3641609.680, 131.11, 0.00
** 487043.845, 3641634.937, 134.39, 0.00
** ------------------------------------------------------------------------
   LOCATION A0000476    AREA    486049.874 3641577.081 129.40
   LOCATION A0000477    AREA    486168.685 3641595.624 130.75
   LOCATION A0000478    AREA    486196.776 3641594.686 131.15
   LOCATION A0000479    AREA    486479.281 3641603.105 132.44
   LOCATION A0000480    AREA    486761.786 3641611.524 132.65
** End of LINE AREA Source ID = ARLN49
** ------------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN50
** DESCRSRC 2% 0.58mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.5489E-14
** Nodes = 16
** 487048.522, 3641614.357, 134.42, 0.00
** 487051.328, 3641551.682, 134.68, 0.00
** 487039.167, 3641477.782, 134.19, 0.00
** 487018.588, 3641416.042, 133.84, 0.00
** 486991.460, 3641349.625, 133.70, 0.00
** 486960.590, 3641303.788, 133.02, 0.00
** 486915.688, 3641248.597, 133.33, 0.00
** 486853.949, 3641194.341, 133.53, 0.00
** 486810.918, 3641166.278, 133.72, 0.00
** 486768.823, 3641142.892, 134.13, 0.00
** 486700.536, 3641116.699, 134.60, 0.00
** 486637.861, 3641100.796, 134.09, 0.00
** 486572.379, 3641093.313, 133.88, 0.00
** 486514.382, 3641093.313, 133.41, 0.00
** 486462.932, 3641104.538, 133.07, 0.00
** 486432.998, 3641111.086, 132.76, 0.00
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** ----------------------------------------------------------------------
   LOCATION A0000481    AREA    487043.527 3641614.133 134.31
   LOCATION A0000482    AREA    487046.395 3641552.494 134.65
   LOCATION A0000483    AREA    487034.424 3641479.363 134.22
   LOCATION A0000484    AREA    487013.959 3641417.933 133.82
   LOCATION A0000485    AREA    486987.312 3641352.418 133.31
   LOCATION A0000486    AREA    486956.711 3641306.944 132.88
   LOCATION A0000487    AREA    486912.388 3641252.353 132.98
   LOCATION A0000488    AREA    486851.218 3641198.529 133.44
   LOCATION A0000489    AREA    486808.490 3641170.649 133.80
   LOCATION A0000490    AREA    486767.033 3641147.560 134.10
   LOCATION A0000491    AREA    486699.306 3641121.545 134.56
   LOCATION A0000492    AREA    486637.293 3641105.764 134.10
   LOCATION A0000493    AREA    486572.379 3641098.313 133.76
   LOCATION A0000494    AREA    486515.447 3641098.198 133.45
   LOCATION A0000495    AREA    486464.000 3641109.423 133.10
** End of LINE AREA Source ID = ARLN50
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN51
** DESCRSRC 7% 1.41mi
** PREFIX
** Length of Side = 30.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.8005E-14
** Nodes = 11
** 487046.557, 3641635.903, 134.40, 0.00
** 487375.423, 3641637.198, 137.91, 0.00
** 487458.286, 3641660.503, 138.41, 0.00
** 487507.487, 3641683.809, 139.07, 0.00
** 487897.205, 3642034.684, 142.19, 0.00
** 487955.468, 3642073.527, 143.27, 0.00
** 488013.732, 3642092.948, 143.92, 0.00
** 488084.943, 3642104.601, 144.77, 0.00
** 488176.870, 3642107.190, 145.99, 0.00
** 489002.917, 3642121.432, 155.35, 0.00
** 489149.223, 3642100.716, 152.66, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000496    AREA    487046.616 3641620.903 134.20
   LOCATION A0000497    AREA    487211.049 3641621.550 136.09
   LOCATION A0000498    AREA    487379.484 3641622.758 138.40
   LOCATION A0000499    AREA    487464.708 3641646.947 139.29
   LOCATION A0000500    AREA    487517.523 3641672.661 139.82
   LOCATION A0000501    AREA    487712.382 3641848.099 138.58
   LOCATION A0000502    AREA    487905.525 3642022.204 142.09
   LOCATION A0000503    AREA    487960.212 3642059.297 142.84
   LOCATION A0000504    AREA    488016.154 3642078.145 143.84
   LOCATION A0000505    AREA    488085.365 3642089.607 144.68
   LOCATION A0000506    AREA    488177.128 3642092.192 145.84
   LOCATION A0000507    AREA    488452.477 3642096.940 149.82
   LOCATION A0000508    AREA    488727.827 3642101.687 153.30
   LOCATION A0000509    AREA    489000.814 3642106.580 155.11
** End of LINE AREA Source ID = ARLN51
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN52
** DESCRSRC 2% 0.90mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.5325E-14
** Nodes = 8
** 486955.925, 3640818.919, 135.31, 0.00
** 486643.892, 3640804.677, 134.29, 0.00
** 486237.342, 3640802.087, 130.50, 0.00
** 485878.697, 3640799.498, 129.08, 0.00
** 485648.233, 3640802.087, 127.32, 0.00
** 485630.106, 3640804.677, 127.16, 0.00
** 485599.032, 3640815.035, 126.41, 0.00
** 485516.169, 3640862.940, 122.71, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000510    AREA    486955.697 3640823.914 135.33
   LOCATION A0000511    AREA    486877.689 3640820.353 135.73
   LOCATION A0000512    AREA    486799.680 3640816.793 135.40
   LOCATION A0000513    AREA    486721.672 3640813.232 134.83
   LOCATION A0000514    AREA    486643.860 3640809.677 134.30
   LOCATION A0000515    AREA    486562.550 3640809.159 133.90
   LOCATION A0000516    AREA    486481.240 3640808.641 133.57
   LOCATION A0000517    AREA    486399.930 3640808.123 131.99
   LOCATION A0000518    AREA    486318.620 3640807.605 131.83
   LOCATION A0000519    AREA    486237.306 3640807.087 130.42
   LOCATION A0000520    AREA    486147.645 3640806.440 129.75
   LOCATION A0000521    AREA    486057.983 3640805.792 129.25
   LOCATION A0000522    AREA    485968.322 3640805.145 128.83
   LOCATION A0000523    AREA    485878.754 3640804.497 128.82
   LOCATION A0000524    AREA    485801.932 3640805.361 128.39
   LOCATION A0000525    AREA    485725.110 3640806.224 128.00
   LOCATION A0000526    AREA    485648.940 3640807.037 127.42
   LOCATION A0000527    AREA    485631.687 3640809.420 127.16
   LOCATION A0000528    AREA    485601.535 3640819.363 126.42
** End of LINE AREA Source ID = ARLN52
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN53
** DESCRSRC 1% 0.66mi
** PREFIX
** Length of Side = 10.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 7.6916E-15
** Nodes = 26
** 484029.838, 3640026.715, 94.28, 0.00
** 483967.236, 3640006.865, 97.09, 0.00
** 483911.758, 3639990.578, 100.84, 0.00
** 483886.819, 3639979.890, 103.24, 0.00
** 483869.005, 3639970.729, 104.78, 0.00
** 483857.808, 3639961.567, 106.03, 0.00
** 483842.539, 3639945.280, 107.91, 0.00
** 483832.869, 3639936.628, 109.06, 0.00
** 483817.600, 3639895.402, 112.88, 0.00
** 483816.073, 3639884.714, 113.60, 0.00
** 483813.528, 3639793.609, 117.64, 0.00
** 483815.564, 3639644.483, 119.24, 0.00
** 483826.484, 3639604.549, 119.46, 0.00
** 483841.753, 3639582.154, 118.66, 0.00
** 483846.843, 3639575.537, 118.13, 0.00
** 483864.148, 3639562.304, 117.11, 0.00
** 483894.177, 3639546.526, 114.08, 0.00
** 483921.153, 3639537.874, 111.85, 0.00
** 483941.003, 3639536.856, 110.40, 0.00
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** 483970.014, 3639541.436, 108.05, 0.00
** 484017.857, 3639559.250, 104.17, 0.00
** 484096.748, 3639590.807, 97.08, 0.00
** 484122.196, 3639602.513, 94.86, 0.00
** 484141.537, 3639606.076, 93.23, 0.00
** 484217.883, 3639606.076, 88.09, 0.00
** 484294.228, 3639617.273, 87.36, 0.00
** ----------------------------------------------------------------------
   LOCATION A0000529    AREA    484028.327 3640031.481 94.01
   LOCATION A0000530    AREA    483965.827 3640011.663 96.97
   LOCATION A0000531    AREA    483909.789 3639995.174 101.00
   LOCATION A0000532    AREA    483884.532 3639984.336 103.15
   LOCATION A0000533    AREA    483865.839 3639974.598 104.76
   LOCATION A0000534    AREA    483854.161 3639964.987 106.01
   LOCATION A0000535    AREA    483839.205 3639949.007 107.66
   LOCATION A0000536    AREA    483828.180 3639938.365 108.87
   LOCATION A0000537    AREA    483812.650 3639896.109 112.28
   LOCATION A0000538    AREA    483811.075 3639884.853 113.19
   LOCATION A0000539    AREA    483808.529 3639793.541 117.82
   LOCATION A0000540    AREA    483809.547 3639718.978 118.57
   LOCATION A0000541    AREA    483810.741 3639643.164 119.24
   LOCATION A0000542    AREA    483822.353 3639601.732 119.41
   LOCATION A0000543    AREA    483837.790 3639579.105 118.52
   LOCATION A0000544    AREA    483843.806 3639571.566 118.04
   LOCATION A0000545    AREA    483861.822 3639557.878 116.94
   LOCATION A0000546    AREA    483892.650 3639541.765 114.27
   LOCATION A0000547    AREA    483920.897 3639532.880 111.95
   LOCATION A0000548    AREA    483941.782 3639531.917 110.37
   LOCATION A0000549    AREA    483971.759 3639536.751 108.00
   LOCATION A0000550    AREA    484019.714 3639554.608 103.89
   LOCATION A0000551    AREA    484098.837 3639586.264 97.21
   LOCATION A0000552    AREA    484123.102 3639597.596 94.85
   LOCATION A0000553    AREA    484141.537 3639601.076 93.39
   LOCATION A0000554    AREA    484218.608 3639601.129 88.04
** End of LINE AREA Source ID = ARLN53
   LOCATION PAREA1      AREAPOLY  484076.208  3640217.622      95.140
** DESCRSRC Area&Energy
** Source Parameters **
** LINE AREA Source ID = ARLN1
   SRCPARAM A0000001    1.4855E-13    0.000    58.254    30.000    78.996
   SRCPARAM A0000002    1.4855E-13    0.000    37.404    30.000    86.348
   SRCPARAM A0000003    1.4855E-13    0.000    15.884    30.000    90.000
   SRCPARAM A0000004    1.4855E-13    0.000    62.273    30.000    95.856
   SRCPARAM A0000005    1.4855E-13    0.000   151.876    30.000   100.546
   SRCPARAM A0000006    1.4855E-13    0.000    41.913    30.000    99.819
   SRCPARAM A0000007    1.4855E-13    0.000    75.654    30.000    94.214
   SRCPARAM A0000008    1.4855E-13    0.000    32.649    30.000    85.815
   SRCPARAM A0000009    1.4855E-13    0.000   133.995    30.000    81.822
   SRCPARAM A0000010    1.4855E-13    0.000    67.133    30.000    79.089
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN2
   SRCPARAM A0000011    9.0995E-14    0.000    51.057    30.000    71.046
   SRCPARAM A0000012    9.0995E-14    0.000    56.809    30.000    60.133
   SRCPARAM A0000013    9.0995E-14    0.000    37.763    30.000    54.462
   SRCPARAM A0000014    9.0995E-14    0.000    37.035    30.000    49.808
   SRCPARAM A0000015    9.0995E-14    0.000    89.675    30.000    45.000
   SRCPARAM A0000016    9.0995E-14    0.000    21.042    30.000    45.939
   SRCPARAM A0000017    9.0995E-14    0.000    40.104    30.000    48.945
   SRCPARAM A0000018    9.0995E-14    0.000    61.692    30.000    56.938
   SRCPARAM A0000019    9.0995E-14    0.000    48.212    30.000    64.213
   SRCPARAM A0000020    9.0995E-14    0.000    48.896    30.000    71.384
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN3
   SRCPARAM A0000042    9.8538E-14    0.000    64.330    30.000    85.192
   SRCPARAM A0000043    9.8538E-14    0.000   140.823    30.000    83.404
   SRCPARAM A0000044    9.8538E-14    0.000   186.730    30.000    82.972
   SRCPARAM A0000045    9.8538E-14    0.000    98.192    30.000    92.755
   SRCPARAM A0000046    9.8538E-14    0.000    68.478    30.000   100.621
   SRCPARAM A0000047    9.8538E-14    0.000    38.469    30.000    97.431
   SRCPARAM A0000048    9.8538E-14    0.000    32.023    30.000    94.456
   SRCPARAM A0000049    9.8538E-14    0.000    20.317    30.000    90.000
   SRCPARAM A0000050    9.8538E-14    0.000    36.572    30.000    86.100
   SRCPARAM A0000051    9.8538E-14    0.000    62.378    30.000    77.719
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN4
   SRCPARAM A0000031    3.3699E-14    0.000    57.291     9.000   -10.972
   SRCPARAM A0000032    3.3699E-14    0.000    84.614     9.000     0.389
   SRCPARAM A0000033    3.3699E-14    0.000    84.614     9.000     0.389
   SRCPARAM A0000034    3.3699E-14    0.000    84.614     9.000     0.389
   SRCPARAM A0000035    3.3699E-14    0.000    84.614     9.000     0.389
   SRCPARAM A0000036    3.3699E-14    0.000    84.614     9.000     0.389
   SRCPARAM A0000037    3.3699E-14    0.000    84.614     9.000     0.389
   SRCPARAM A0000038    3.3699E-14    0.000    84.614     9.000     0.389
   SRCPARAM A0000039    3.3699E-14    0.000    40.667     9.000    -8.931
   SRCPARAM A0000040    3.3699E-14    0.000    63.254     9.000   -17.695
   SRCPARAM A0000041    3.3699E-14    0.000    63.254     9.000   -17.695
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN5
   SRCPARAM A0000052    1.6707E-14    0.000    47.459     9.000    80.253
   SRCPARAM A0000053    1.6707E-14    0.000    47.459     9.000    80.253
   SRCPARAM A0000054    1.6707E-14    0.000    50.508     9.000    89.349
   SRCPARAM A0000055    1.6707E-14    0.000    51.971     9.000    96.340
   SRCPARAM A0000056    1.6707E-14    0.000    45.817     9.000   102.295
   SRCPARAM A0000057    1.6707E-14    0.000    69.311     9.000   115.504
   SRCPARAM A0000058    1.6707E-14    0.000    49.667     9.000   117.157
   SRCPARAM A0000059    1.6707E-14    0.000    49.667     9.000   117.157
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN6
   SRCPARAM A0000060    1.2699E-14    0.000    28.494    12.000    -9.273
   SRCPARAM A0000061    1.2699E-14    0.000    25.852    12.000    -2.545
   SRCPARAM A0000062    1.2699E-14    0.000   116.940    12.000     0.492
   SRCPARAM A0000063    1.2699E-14    0.000   116.940    12.000     0.492
   SRCPARAM A0000064    1.2699E-14    0.000   116.940    12.000     0.492
   SRCPARAM A0000065    1.2699E-14    0.000   116.940    12.000     0.492
   SRCPARAM A0000066    1.2699E-14    0.000   105.444    12.000   -89.449
   SRCPARAM A0000067    1.2699E-14    0.000   105.444    12.000   -89.449
   SRCPARAM A0000068    1.2699E-14    0.000   105.444    12.000   -89.449
   SRCPARAM A0000069    1.2699E-14    0.000   105.444    12.000   -89.449
   SRCPARAM A0000070    1.2699E-14    0.000   105.444    12.000   -89.449
   SRCPARAM A0000071    1.2699E-14    0.000    94.084    12.000     0.655
   SRCPARAM A0000072    1.2699E-14    0.000    94.084    12.000     0.655
   SRCPARAM A0000073    1.2699E-14    0.000    19.094    12.000    -2.490
   SRCPARAM A0000074    1.2699E-14    0.000    35.830    12.000   -16.128
   SRCPARAM A0000075    1.2699E-14    0.000    40.505    12.000   -31.032
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN7
   SRCPARAM A0000076    1.3816E-13    0.000   185.630    30.000    72.982
   SRCPARAM A0000077    1.3816E-13    0.000    58.646    30.000    79.405
   SRCPARAM A0000078    1.3816E-13    0.000   110.744    30.000    89.142
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN8
   SRCPARAM A0000079    1.1891E-13    0.000    89.839    10.000    -4.831
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   SRCPARAM A0000080    1.1891E-13   0.000   89.839   10.000   -4.831
   SRCPARAM A0000081    1.1891E-13   0.000   89.839   10.000   -4.831
   SRCPARAM A0000082    1.1891E-13   0.000   89.839   10.000   -4.831
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN9
   SRCPARAM A0000127    9.293E-14    0.000   55.169   10.000   -4.673
   SRCPARAM A0000128    9.293E-14    0.000   55.169   10.000   -4.673
   SRCPARAM A0000129    9.293E-14    0.000   28.169   10.000    0.610
   SRCPARAM A0000130    9.293E-14    0.000   41.483   10.000    4.557
   SRCPARAM A0000131    9.293E-14    0.000   31.922   10.000    9.728
   SRCPARAM A0000132    9.293E-14    0.000   24.347   10.000   13.523
   SRCPARAM A0000133    9.293E-14    0.000   19.145   10.000   17.301
   SRCPARAM A0000134    9.293E-14    0.000   63.380   10.000   21.349
   SRCPARAM A0000135    9.293E-14    0.000   95.762   10.000   21.668
   SRCPARAM A0000136    9.293E-14    0.000   41.990   10.000   31.875
   SRCPARAM A0000137    9.293E-14    0.000   31.883   10.000   36.978
   SRCPARAM A0000138    9.293E-14    0.000   31.571   10.000   45.385
   SRCPARAM A0000139    9.293E-14    0.000    1.220   10.000   54.742
   SRCPARAM A0000140    9.293E-14    0.000   70.600   10.000   54.742
   SRCPARAM A0000141    9.293E-14    0.000   52.392   10.000   61.121
   SRCPARAM A0000142    9.293E-14    0.000   52.392   10.000   61.121
   SRCPARAM A0000143    9.293E-14    0.000   67.541   10.000   61.380
   SRCPARAM A0000144    9.293E-14    0.000   67.541   10.000   61.380
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN10
   SRCPARAM A0000096    2.3865E-14   0.000   79.129   10.000   82.875
   SRCPARAM A0000097    2.3865E-14   0.000   79.129   10.000   82.875
   SRCPARAM A0000098    2.3865E-14   0.000   24.748   10.000   79.114
   SRCPARAM A0000099    2.3865E-14   0.000   56.364   10.000   95.711
   SRCPARAM A0000100    2.3865E-14   0.000   71.683   10.000  102.043
   SRCPARAM A0000101    2.3865E-14   0.000   46.408   10.000   99.273
   SRCPARAM A0000102    2.3865E-14   0.000   35.532   10.000   91.507
   SRCPARAM A0000103    2.3865E-14   0.000   37.401   10.000   88.568
   SRCPARAM A0000104    2.3865E-14   0.000   22.511   10.000   85.236
   SRCPARAM A0000105    2.3865E-14   0.000   41.646   10.000   80.961
   SRCPARAM A0000106    2.3865E-14   0.000   49.497   10.000   79.114
   SRCPARAM A0000107    2.3865E-14   0.000   86.078   10.000   77.775
   SRCPARAM A0000108    2.3865E-14   0.000   86.078   10.000   77.775
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN11
   SRCPARAM A0000109    8.6694E-14   0.000  118.711   30.000   90.000
   SRCPARAM A0000110    8.6694E-14   0.000   30.973   30.000   95.194
   SRCPARAM A0000111    8.6694E-14   0.000   48.768   30.000  102.171
   SRCPARAM A0000112    8.6694E-14   0.000   62.355   30.000  113.875
   SRCPARAM A0000113    8.6694E-14   0.000   55.998   30.000  123.425
   SRCPARAM A0000114    8.6694E-14   0.000   53.640   30.000  131.468
   SRCPARAM A0000115    8.6694E-14   0.000   67.489   30.000  149.172
   SRCPARAM A0000116    8.6694E-14   0.000   45.582   30.000  151.858
   SRCPARAM A0000117    8.6694E-14   0.000   78.071   30.000  163.301
   SRCPARAM A0000118    8.6694E-14   0.000   21.315   30.000  164.745
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN12
   SRCPARAM A0000119    8.2032E-14   0.000   72.211   30.000  158.749
   SRCPARAM A0000120    8.2032E-14   0.000   49.857   30.000  149.589
   SRCPARAM A0000121    8.2032E-14   0.000   51.001   30.000  138.715
   SRCPARAM A0000122    8.2032E-14   0.000   51.850   30.000  123.977
   SRCPARAM A0000123    8.2032E-14   0.000   55.236   30.000  113.962
   SRCPARAM A0000124    8.2032E-14   0.000   55.936   30.000   99.620
   SRCPARAM A0000125    8.2032E-14   0.000   93.851   30.000   95.143
   SRCPARAM A0000126    8.2032E-14   0.000   69.327   30.000   95.508
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN13
   SRCPARAM A0000145    7.9228E-14   0.000  247.786   30.000 -172.848
   SRCPARAM A0000146    7.9228E-14   0.000  282.419   30.000  170.538
   SRCPARAM A0000147    7.9228E-14   0.000  282.419   30.000  170.538
   SRCPARAM A0000148    7.9228E-14   0.000  282.419   30.000  170.538
   SRCPARAM A0000149    7.9228E-14   0.000  197.303   30.000 -178.643
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN14
   SRCPARAM A0000150    6.8006E-14   0.000  155.183   30.000  179.655
   SRCPARAM A0000151    6.8006E-14   0.000  286.783   30.000  170.998
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN15
   SRCPARAM A0000152    3.0721E-14   0.000  215.025   30.000  169.732
   SRCPARAM A0000153    3.0721E-14   0.000  215.025   30.000  169.732
   SRCPARAM A0000154    3.0721E-14   0.000  215.025   30.000  169.732
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN16
   SRCPARAM A0000155    3.6728E-14   0.000   28.798   30.000   76.866
   SRCPARAM A0000156    3.6728E-14   0.000   75.368   30.000   82.875
   SRCPARAM A0000157    3.6728E-14   0.000   64.564   30.000   92.490
   SRCPARAM A0000158    3.6728E-14   0.000   54.509   30.000   95.906
   SRCPARAM A0000159    3.6728E-14   0.000   68.593   30.000  107.447
   SRCPARAM A0000160    3.6728E-14   0.000  111.279   30.000  121.954
   SRCPARAM A0000161    3.6728E-14   0.000  270.565   30.000  129.603
   SRCPARAM A0000162    3.6728E-14   0.000  270.565   30.000  129.603
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN19
   SRCPARAM A0000177    3.2992E-14   0.000  337.878   50.000   51.078
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN20
   SRCPARAM A0000178    7.2603E-15   0.000  490.771   50.000 -128.539
   SRCPARAM A0000179    7.2603E-15   0.000  204.933   50.000 -128.900
   SRCPARAM A0000180    7.2603E-15   0.000  112.197   50.000 -127.432
   SRCPARAM A0000181    7.2603E-15   0.000   66.588   50.000 -120.801
   SRCPARAM A0000182    7.2603E-15   0.000   53.705   50.000 -124.992
   SRCPARAM A0000183    7.2603E-15   0.000  197.743   50.000 -116.423
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN21
   SRCPARAM A0000184    2.3116E-14   0.000   71.875   10.000 -125.096
   SRCPARAM A0000185    2.3116E-14   0.000   71.875   10.000 -125.096
   SRCPARAM A0000186    2.3116E-14   0.000   92.585   10.000 -122.735
   SRCPARAM A0000187    2.3116E-14   0.000   57.576   10.000 -116.211
   SRCPARAM A0000188    2.3116E-14   0.000   34.430   10.000 -108.853
   SRCPARAM A0000189    2.3116E-14   0.000   34.209   10.000  -92.663
   SRCPARAM A0000190    2.3116E-14   0.000   37.888   10.000  -80.340
   SRCPARAM A0000191    2.3116E-14   0.000   59.602   10.000  -73.740
   SRCPARAM A0000192    2.3116E-14   0.000   23.894   10.000  -86.186
   SRCPARAM A0000193    2.3116E-14   0.000   30.459   10.000  -97.496
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN22
   SRCPARAM A0000194    3.8494E-13   0.000   30.762   10.000  -88.182
   SRCPARAM A0000195    3.8494E-13   0.000   17.899   10.000 -101.004
   SRCPARAM A0000196    3.8494E-13   0.000   39.544   10.000 -114.034
   SRCPARAM A0000197    3.8494E-13   0.000   90.827   10.000 -123.605
   SRCPARAM A0000198    3.8494E-13   0.000   91.676   10.000 -115.883
   SRCPARAM A0000199    3.8494E-13   0.000   63.695   10.000 -120.888
   SRCPARAM A0000200    3.8494E-13   0.000   19.522   10.000 -126.870
   SRCPARAM A0000201    3.8494E-13   0.000   68.056   10.000 -132.384
   SRCPARAM A0000202    3.8494E-13   0.000   30.948   10.000 -142.046
   SRCPARAM A0000203    3.8494E-13   0.000   97.725   10.000 -144.508
   SRCPARAM A0000204    3.8494E-13   0.000   97.725   10.000 -144.508
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   SRCPARAM A0000205   3.8494E-13   0.000   97.725   10.000  -144.508
   SRCPARAM A0000206   3.8494E-13   0.000   63.142   10.000  -152.676
   SRCPARAM A0000207   3.8494E-13   0.000   55.801   10.000  -171.327
   SRCPARAM A0000208   3.8494E-13   0.000   55.170   10.000  -179.029
   SRCPARAM A0000209   3.8494E-13   0.000   43.099   10.000   167.471
   SRCPARAM A0000210   3.8494E-13   0.000   78.162   10.000   175.426
   SRCPARAM A0000211   3.8494E-13   0.000   78.162   10.000   175.426
   SRCPARAM A0000212   3.8494E-13   0.000   78.162   10.000   175.426
   SRCPARAM A0000213   3.8494E-13   0.000   83.228   10.000   173.175
   SRCPARAM A0000214   3.8494E-13   0.000   84.221   10.000   163.280
   SRCPARAM A0000215   3.8494E-13   0.000   84.221   10.000   163.280
   SRCPARAM A0000216   3.8494E-13   0.000   84.221   10.000   163.280
   SRCPARAM A0000217   3.8494E-13   0.000   84.221   10.000   163.280
   SRCPARAM A0000218   3.8494E-13   0.000   84.221   10.000   163.280
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN23
   SRCPARAM A0000219   3.0658E-15   0.000  131.264   50.000    42.397
   SRCPARAM A0000220   3.0658E-15   0.000  171.147   50.000    52.001
   SRCPARAM A0000221   3.0658E-15   0.000  202.675   50.000    62.103
   SRCPARAM A0000222   3.0658E-15   0.000  364.419   50.000    76.285
   SRCPARAM A0000223   3.0658E-15   0.000  261.445   50.000    75.292
   SRCPARAM A0000224   3.0658E-15   0.000  261.445   50.000    75.292
   SRCPARAM A0000225   3.0658E-15   0.000  186.554   50.000    76.278
   SRCPARAM A0000226   3.0658E-15   0.000  166.731   50.000    73.856
   SRCPARAM A0000227   3.0658E-15   0.000  112.717   50.000    69.193
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN24
   SRCPARAM A0000228   7.7048E-15   0.000  212.003   50.000    52.674
   SRCPARAM A0000229   7.7048E-15   0.000  160.958   50.000    46.061
   SRCPARAM A0000230   7.7048E-15   0.000  155.228   50.000    41.698
   SRCPARAM A0000231   7.7048E-15   0.000  222.099   50.000    33.389
   SRCPARAM A0000232   7.7048E-15   0.000  195.083   50.000    26.288
   SRCPARAM A0000233   7.7048E-15   0.000  261.052   50.000    26.358
   SRCPARAM A0000234   7.7048E-15   0.000  160.003   50.000    40.192
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN25
   SRCPARAM A0000235   7.7052E-15   0.000   69.457   10.000   -26.003
   SRCPARAM A0000236   7.7052E-15   0.000   65.895   10.000   -40.314
   SRCPARAM A0000237   7.7052E-15   0.000   72.223   10.000   -34.695
   SRCPARAM A0000238   7.7052E-15   0.000   64.777   10.000   -23.552
   SRCPARAM A0000239   7.7052E-15   0.000   60.330   10.000   -10.176
   SRCPARAM A0000240   7.7052E-15   0.000   84.982   10.000    -9.800
   SRCPARAM A0000241   7.7052E-15   0.000   84.982   10.000    -9.800
   SRCPARAM A0000242   7.7052E-15   0.000   74.979   10.000   -12.907
   SRCPARAM A0000243   7.7052E-15   0.000   83.971   10.000   -16.052
   SRCPARAM A0000244   7.7052E-15   0.000   83.971   10.000   -16.052
   SRCPARAM A0000245   7.7052E-15   0.000   83.971   10.000   -16.052
   SRCPARAM A0000246   7.7052E-15   0.000   83.971   10.000   -16.052
   SRCPARAM A0000247   7.7052E-15   0.000   86.251   10.000   -20.674
   SRCPARAM A0000248   7.7052E-15   0.000   86.251   10.000   -20.674
   SRCPARAM A0000249   7.7052E-15   0.000   86.251   10.000   -20.674
   SRCPARAM A0000250   7.7052E-15   0.000   81.611   10.000   -36.656
   SRCPARAM A0000251   7.7052E-15   0.000   51.723   10.000   -42.614
   SRCPARAM A0000252   7.7052E-15   0.000   74.233   10.000   -25.514
   SRCPARAM A0000253   7.7052E-15   0.000   48.076   10.000   -10.954
   SRCPARAM A0000254   7.7052E-15   0.000   55.003   10.000    -4.764
   SRCPARAM A0000255   7.7052E-15   0.000   90.180   10.000    11.689
   SRCPARAM A0000256   7.7052E-15   0.000   94.680   10.000    15.228
   SRCPARAM A0000257   7.7052E-15   0.000   94.680   10.000    15.228
   SRCPARAM A0000258   7.7052E-15   0.000   94.680   10.000    15.228
   SRCPARAM A0000259   7.7052E-15   0.000   34.046   10.000    26.565
   SRCPARAM A0000260   7.7052E-15   0.000   31.241   10.000    43.025
   SRCPARAM A0000261   7.7052E-15   0.000   34.519   10.000    48.576
   SRCPARAM A0000262   7.7052E-15   0.000   29.406   10.000    68.749
   SRCPARAM A0000263   7.7052E-15   0.000   71.756   10.000    72.719
   SRCPARAM A0000264   7.7052E-15   0.000   84.829   10.000    68.962
   SRCPARAM A0000265   7.7052E-15   0.000   43.119   10.000    47.862
   SRCPARAM A0000266   7.7052E-15   0.000   57.456   10.000    32.005
   SRCPARAM A0000267   7.7052E-15   0.000   93.410   10.000    18.041
   SRCPARAM A0000268   7.7052E-15   0.000   93.410   10.000    18.041
   SRCPARAM A0000269   7.7052E-15   0.000   93.410   10.000    18.041
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN26
   SRCPARAM A0000270   1.5495E-14   0.000   43.627   10.000    29.249
   SRCPARAM A0000271   1.5495E-14   0.000   60.387   10.000    33.690
   SRCPARAM A0000272   1.5495E-14   0.000   54.266   10.000    34.136
   SRCPARAM A0000273   1.5495E-14   0.000   54.266   10.000    34.136
   SRCPARAM A0000274   1.5495E-14   0.000   26.018   10.000    20.556
   SRCPARAM A0000275   1.5495E-14   0.000   28.889   10.000    18.435
   SRCPARAM A0000276   1.5495E-14   0.000   62.431   10.000    -0.699
   SRCPARAM A0000277   1.5495E-14   0.000   62.431   10.000    -0.699
   SRCPARAM A0000278   1.5495E-14   0.000   38.549   10.000     9.090
   SRCPARAM A0000279   1.5495E-14   0.000   28.889   10.000    18.435
   SRCPARAM A0000280   1.5495E-14   0.000   63.749   10.000    40.156
   SRCPARAM A0000281   1.5495E-14   0.000   92.815   10.000    41.009
   SRCPARAM A0000282   1.5495E-14   0.000   69.989   10.000    44.119
   SRCPARAM A0000283   1.5495E-14   0.000   81.084   10.000    55.713
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN27
   SRCPARAM A0000284   7.6139E-15   0.000   42.876   10.000   163.496
   SRCPARAM A0000285   7.6139E-15   0.000   24.786   10.000  -169.380
   SRCPARAM A0000286   7.6139E-15   0.000   79.772   10.000  -156.371
   SRCPARAM A0000287   7.6139E-15   0.000   79.772   10.000  -156.371
   SRCPARAM A0000288   7.6139E-15   0.000   79.772   10.000  -156.371
   SRCPARAM A0000289   7.6139E-15   0.000   79.772   10.000  -156.371
   SRCPARAM A0000290   7.6139E-15   0.000   21.371   10.000  -175.914
   SRCPARAM A0000291   7.6139E-15   0.000   54.665   10.000   167.125
   SRCPARAM A0000292   7.6139E-15   0.000   28.929   10.000   180.000
   SRCPARAM A0000293   7.6139E-15   0.000   61.377   10.000  -156.615
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN28
   SRCPARAM A0000294   2.2804E-14   0.000   33.531   10.000    39.472
   SRCPARAM A0000295   2.2804E-14   0.000   38.156   10.000    28.610
   SRCPARAM A0000296   2.2804E-14   0.000   59.400   10.000     1.469
   SRCPARAM A0000297   2.2804E-14   0.000   56.664   10.000    -6.170
   SRCPARAM A0000298   2.2804E-14   0.000   56.664   10.000    -6.170
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN29
   SRCPARAM A0000299   1.5237E-14   0.000   42.511   10.000   -87.368
   SRCPARAM A0000300   1.5237E-14   0.000   20.966   10.000  -102.095
   SRCPARAM A0000301   1.5237E-14   0.000   26.417   10.000  -117.512
   SRCPARAM A0000302   1.5237E-14   0.000   18.555   10.000  -125.362
   SRCPARAM A0000303   1.5237E-14   0.000   23.470   10.000  -135.000
   SRCPARAM A0000304   1.5237E-14   0.000   40.628   10.000  -125.218
   SRCPARAM A0000305   1.5237E-14   0.000   55.056   10.000  -104.899
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN30
   SRCPARAM A0000306   3.9078E-14   0.000   91.125   10.000    -4.917
   SRCPARAM A0000307   3.9078E-14   0.000   91.125   10.000    -4.917
   SRCPARAM A0000308   3.9078E-14   0.000   91.125   10.000    -4.917
   SRCPARAM A0000309   3.9078E-14   0.000   91.125   10.000    -4.917
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** LINE AREA Source ID = ARLN31
   SRCPARAM A0000310   3.0794E-14   0.000  209.715   30.000   -33.915
   SRCPARAM A0000311   3.0794E-14   0.000  209.715   30.000   -33.915
   SRCPARAM A0000312   3.0794E-14   0.000  209.715   30.000   -33.915
   SRCPARAM A0000313   3.0794E-14   0.000  287.849   30.000   -34.605
   SRCPARAM A0000314   3.0794E-14   0.000  287.849   30.000   -34.605
   SRCPARAM A0000315   3.0794E-14   0.000  287.849   30.000   -34.605
   SRCPARAM A0000316   3.0794E-14   0.000  287.849   30.000   -34.605
   SRCPARAM A0000317   3.0794E-14   0.000  194.779   30.000   -34.129
   SRCPARAM A0000318   3.0794E-14   0.000  194.779   30.000   -34.129
   SRCPARAM A0000319   3.0794E-14   0.000   66.503   30.000   -27.255
   SRCPARAM A0000320   3.0794E-14   0.000   91.804   30.000   -17.021
   SRCPARAM A0000321   3.0794E-14   0.000   47.127   30.000    -8.746
   SRCPARAM A0000322   3.0794E-14   0.000  118.239   30.000     0.000
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN32
   SRCPARAM A0000323   2.0622E-14   0.000  256.260   30.000    -0.711
   SRCPARAM A0000324   2.0622E-14   0.000  256.260   30.000    -0.711
   SRCPARAM A0000325   2.0622E-14   0.000  256.260   30.000    -0.711
   SRCPARAM A0000326   2.0622E-14   0.000  256.260   30.000    -0.711
   SRCPARAM A0000327   2.0622E-14   0.000  256.260   30.000    -0.711
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN33
   SRCPARAM A0000328   7.7806E-15   0.000   50.912   10.000   -96.203
   SRCPARAM A0000329   7.7806E-15   0.000   59.883   10.000  -110.433
   SRCPARAM A0000330   7.7806E-15   0.000   69.102   10.000  -130.156
   SRCPARAM A0000331   7.7806E-15   0.000   69.102   10.000  -130.156
   SRCPARAM A0000332   7.7806E-15   0.000   73.151   10.000   -43.781
   SRCPARAM A0000333   7.7806E-15   0.000   43.346   10.000   -23.962
   SRCPARAM A0000334   7.7806E-15   0.000   25.898   10.000   -12.265
   SRCPARAM A0000335   7.7806E-15   0.000   81.789   10.000    -0.257
   SRCPARAM A0000336   7.7806E-15   0.000   81.789   10.000    -0.257
   SRCPARAM A0000337   7.7806E-15   0.000   81.789   10.000    -0.257
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN34
   SRCPARAM A0000338   2.0635E-13   0.000  142.528   20.000   -14.708
   SRCPARAM A0000339   2.0635E-13   0.000   53.777   20.000   -13.591
   SRCPARAM A0000340   2.0635E-13   0.000   84.305   20.000   -28.486
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN35
   SRCPARAM A0000341   1.7345E-13   0.000   57.538   20.000   -14.452
   SRCPARAM A0000342   1.7345E-13   0.000   75.283   20.000   -27.738
   SRCPARAM A0000343   1.7345E-13   0.000   50.109   20.000   -28.034
   SRCPARAM A0000344   1.7345E-13   0.000   22.724   20.000   -16.144
   SRCPARAM A0000345   1.7345E-13   0.000   32.295   20.000    -5.102
   SRCPARAM A0000346   1.7345E-13   0.000   35.044   20.000     0.939
   SRCPARAM A0000347   1.7345E-13   0.000   30.981   20.000    10.685
   SRCPARAM A0000348   1.7345E-13   0.000   30.095   20.000    23.629
   SRCPARAM A0000349   1.7345E-13   0.000   73.031   20.000    29.186
   SRCPARAM A0000350   1.7345E-13   0.000   38.089   20.000    23.085
   SRCPARAM A0000351   1.7345E-13   0.000   33.464   20.000    39.428
   SRCPARAM A0000352   1.7345E-13   0.000   20.719   20.000    46.123
   SRCPARAM A0000353   1.7345E-13   0.000   27.721   20.000    55.981
   SRCPARAM A0000354   1.7345E-13   0.000   28.709   20.000    70.115
   SRCPARAM A0000355   1.7345E-13   0.000   28.726   20.000    78.465
   SRCPARAM A0000356   1.7345E-13   0.000   88.550   20.000    87.397
   SRCPARAM A0000357   1.7345E-13   0.000   32.761   20.000    87.990
   SRCPARAM A0000358   1.7345E-13   0.000   23.127   20.000    75.619
   SRCPARAM A0000359   1.7345E-13   0.000   39.900   20.000    67.126
   SRCPARAM A0000360   1.7345E-13   0.000   34.484   20.000    60.018
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN36
   SRCPARAM A0000361   1.7994E-14   0.000   92.713   30.000   -41.082
   SRCPARAM A0000362   1.7994E-14   0.000  119.777   30.000   -38.928
   SRCPARAM A0000363   1.7994E-14   0.000   83.010   30.000   -32.661
   SRCPARAM A0000364   1.7994E-14   0.000   74.832   30.000   -16.699
   SRCPARAM A0000365   1.7994E-14   0.000   91.825   30.000    -5.599
   SRCPARAM A0000366   1.7994E-14   0.000  161.294   30.000    -0.955
   SRCPARAM A0000367   1.7994E-14   0.000  161.294   30.000    -0.955
   SRCPARAM A0000368   1.7994E-14   0.000   82.233   30.000   -11.310
   SRCPARAM A0000369   1.7994E-14   0.000   98.620   30.000   -24.702
   SRCPARAM A0000370   1.7994E-14   0.000  135.203   30.000   -34.743
   SRCPARAM A0000371   1.7994E-14   0.000   57.032   30.000   -46.273
   SRCPARAM A0000372   1.7994E-14   0.000  232.679   30.000   -54.719
   SRCPARAM A0000373   1.7994E-14   0.000  232.679   30.000   -54.719
   SRCPARAM A0000374   1.7994E-14   0.000  160.603   30.000   -54.537
   SRCPARAM A0000375   1.7994E-14   0.000   73.534   30.000   -43.025
   SRCPARAM A0000376   1.7994E-14   0.000  118.171   30.000   -40.696
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** LINE AREA Source ID = ARLN37
   SRCPARAM A0000377   1.1732E-14   0.000   86.495   20.000  -140.042
   SRCPARAM A0000378   1.1732E-14   0.000  154.697   20.000  -161.775
   SRCPARAM A0000379   1.1732E-14   0.000  154.697   20.000  -161.775
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** LINE AREA Source ID = ARLN38
   SRCPARAM A0000380   3.8876E-15   0.000   81.084   20.000    61.991
   SRCPARAM A0000381   3.8876E-15   0.000   56.868   20.000    69.624
   SRCPARAM A0000382   3.8876E-15   0.000   86.818   20.000    90.000
   SRCPARAM A0000383   3.8876E-15   0.000   57.092   20.000    99.211
   SRCPARAM A0000384   3.8876E-15   0.000   72.248   20.000   108.435
   SRCPARAM A0000385   3.8876E-15   0.000   12.280   20.000   119.745
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN39
   SRCPARAM A0000386   3.0944E-14   0.000  299.963   30.000   -39.023
   SRCPARAM A0000387   3.0944E-14   0.000  224.116   30.000   -36.247
   SRCPARAM A0000388   3.0944E-14   0.000  224.116   30.000   -36.247
   SRCPARAM A0000389   3.0944E-14   0.000  224.116   30.000   -36.247
   SRCPARAM A0000390   3.0944E-14   0.000   75.759   30.000   -30.174
   SRCPARAM A0000391   3.0944E-14   0.000   62.019   30.000   -24.677
   SRCPARAM A0000392   3.0944E-14   0.000  250.835   30.000   -13.699
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN40
   SRCPARAM A0000393   4.2348E-14   0.000   39.078   20.000    80.272
   SRCPARAM A0000394   4.2348E-14   0.000   19.839   20.000    86.820
   SRCPARAM A0000395   4.2348E-14   0.000   90.298   20.000    92.095
   SRCPARAM A0000396   4.2348E-14   0.000   20.909   20.000    90.000
   SRCPARAM A0000397   4.2348E-14   0.000   28.949   20.000    81.254
   SRCPARAM A0000398   4.2348E-14   0.000   34.132   20.000    69.228
   SRCPARAM A0000399   4.2348E-14   0.000   29.053   20.000    52.696
   SRCPARAM A0000400   4.2348E-14   0.000   53.279   20.000    38.290
   SRCPARAM A0000401   4.2348E-14   0.000   26.798   20.000    19.179
   SRCPARAM A0000402   4.2348E-14   0.000   54.825   20.000    10.408
   SRCPARAM A0000403   4.2348E-14   0.000  110.184   20.000     2.862
   SRCPARAM A0000404   4.2348E-14   0.000   25.691   20.000    -9.866
   SRCPARAM A0000405   4.2348E-14   0.000   28.056   20.000   -11.310
   SRCPARAM A0000406   4.2348E-14   0.000  165.561   20.000   -40.147
   SRCPARAM A0000407   4.2348E-14   0.000   34.555   20.000   -37.235
   SRCPARAM A0000408   4.2348E-14   0.000   45.653   20.000   -15.376
   SRCPARAM A0000409   4.2348E-14   0.000   29.631   20.000   -15.068
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** LINE AREA Source ID = ARLN41
   SRCPARAM A0000410   1.5262E-14   0.000  275.925   30.000   -11.153
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   SRCPARAM A0000411    1.5262E-14   0.000  275.925   30.000   -11.153
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** LINE AREA Source ID = ARLN42
   SRCPARAM A0000412    5.7898E-14   0.000  137.888   30.000    81.741
   SRCPARAM A0000413    5.7898E-14   0.000  124.528   30.000    86.961
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN43
   SRCPARAM A0000414    3.0685E-14   0.000   90.245   10.000    -0.699
   SRCPARAM A0000415    3.0685E-14   0.000   59.512   10.000   -17.765
   SRCPARAM A0000416    3.0685E-14   0.000   59.512   10.000   -17.765
   SRCPARAM A0000417    3.0685E-14   0.000   40.777   10.000    -3.094
   SRCPARAM A0000418    3.0685E-14   0.000   20.938   10.000    -3.013
   SRCPARAM A0000419    3.0685E-14   0.000   84.376   10.000     0.747
   SRCPARAM A0000420    3.0685E-14   0.000   84.376   10.000     0.747
   SRCPARAM A0000421    3.0685E-14   0.000   84.376   10.000     0.747
   SRCPARAM A0000422    3.0685E-14   0.000   84.376   10.000     0.747
   SRCPARAM A0000423    3.0685E-14   0.000   84.376   10.000     0.747
   SRCPARAM A0000424    3.0685E-14   0.000   84.376   10.000     0.747
   SRCPARAM A0000425    3.0685E-14   0.000   50.729   10.000    -3.731
   SRCPARAM A0000426    3.0685E-14   0.000   47.269   10.000   -24.775
   SRCPARAM A0000427    3.0685E-14   0.000   54.648   10.000   -25.017
   SRCPARAM A0000428    3.0685E-14   0.000   50.729   10.000   -40.601
   SRCPARAM A0000429    3.0685E-14   0.000   53.188   10.000   -24.444
   SRCPARAM A0000430    3.0685E-14   0.000   46.442   10.000   -13.707
   SRCPARAM A0000431    3.0685E-14   0.000   32.589   10.000   -11.689
   SRCPARAM A0000432    3.0685E-14   0.000   99.780   10.000   -23.738
   SRCPARAM A0000433    3.0685E-14   0.000   99.780   10.000   -23.738
   SRCPARAM A0000434    3.0685E-14   0.000   36.432   10.000   -25.017
   SRCPARAM A0000435    3.0685E-14   0.000   39.754   10.000     4.764
   SRCPARAM A0000436    3.0685E-14   0.000   44.890   10.000    11.310
   SRCPARAM A0000437    3.0685E-14   0.000   72.480   10.000    30.069
   SRCPARAM A0000438    3.0685E-14   0.000   40.464   10.000    22.380
   SRCPARAM A0000439    3.0685E-14   0.000   52.014   10.000     6.072
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** LINE AREA Source ID = ARLN44
   SRCPARAM A0000440    3.3343E-14   0.000  258.767   30.000   -11.406
   SRCPARAM A0000441    3.3343E-14   0.000  258.767   30.000   -11.406
   SRCPARAM A0000442    3.3343E-14   0.000  258.767   30.000   -11.406
   SRCPARAM A0000443    3.3343E-14   0.000  258.767   30.000   -11.406
   SRCPARAM A0000444    3.3343E-14   0.000  232.222   30.000   -11.203
   SRCPARAM A0000445    3.3343E-14   0.000  112.366   30.000   -14.172
   SRCPARAM A0000446    3.3343E-14   0.000   80.762   30.000   -19.916
   SRCPARAM A0000447    3.3343E-14   0.000   52.696   30.000   -28.706
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** LINE AREA Source ID = ARLN45
   SRCPARAM A0000448    1.0432E-14   0.000  181.122   30.000   -97.419
   SRCPARAM A0000449    1.0432E-14   0.000   77.235   30.000  -101.174
   SRCPARAM A0000450    1.0432E-14   0.000   89.930   30.000  -108.812
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** LINE AREA Source ID = ARLN46
   SRCPARAM A0000451    1.5219E-14   0.000   54.070   10.000  -120.114
   SRCPARAM A0000452    1.5219E-14   0.000   43.254   10.000  -111.571
   SRCPARAM A0000453    1.5219E-14   0.000   24.393   10.000   -94.399
   SRCPARAM A0000454    1.5219E-14   0.000   91.363   10.000   -89.804
   SRCPARAM A0000455    1.5219E-14   0.000   91.363   10.000   -89.804
   SRCPARAM A0000456    1.5219E-14   0.000   91.363   10.000   -89.804
   SRCPARAM A0000457    1.5219E-14   0.000   55.056   10.000   -99.782
   SRCPARAM A0000458    1.5219E-14   0.000   64.897   10.000  -105.038
   SRCPARAM A0000459    1.5219E-14   0.000   63.369   10.000   -98.489
   SRCPARAM A0000460    1.5219E-14   0.000   39.389   10.000   -94.086
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN47
   SRCPARAM A0000461    2.856E-14    0.000  184.171   30.000   -30.864
   SRCPARAM A0000462    2.856E-14    0.000   70.015   30.000   -22.797
   SRCPARAM A0000463    2.856E-14    0.000   62.121   30.000   -18.435
   SRCPARAM A0000464    2.856E-14    0.000  159.883   30.000   -11.474
   SRCPARAM A0000465    2.856E-14    0.000  159.883   30.000   -11.474
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN48
   SRCPARAM A0000466    7.7459E-15   0.000   52.468   10.000    78.690
   SRCPARAM A0000467    7.7459E-15   0.000   82.133   10.000    75.489
   SRCPARAM A0000468    7.7459E-15   0.000   52.991   10.000    69.326
   SRCPARAM A0000469    7.7459E-15   0.000   53.973   10.000    64.323
   SRCPARAM A0000470    7.7459E-15   0.000   48.787   10.000    57.529
   SRCPARAM A0000471    7.7459E-15   0.000   96.800   10.000    48.918
   SRCPARAM A0000472    7.7459E-15   0.000   69.708   10.000    40.101
   SRCPARAM A0000473    7.7459E-15   0.000   45.923   10.000    33.366
   SRCPARAM A0000474    7.7459E-15   0.000   71.999   10.000    24.567
   SRCPARAM A0000475    7.7459E-15   0.000   32.847   10.000    19.983
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN49
   SRCPARAM A0000476    2.5647E-14   0.000  123.039   30.000    -8.746
   SRCPARAM A0000477    2.5647E-14   0.000   27.144   30.000     1.975
   SRCPARAM A0000478    2.5647E-14   0.000  282.630   30.000    -1.707
   SRCPARAM A0000479    2.5647E-14   0.000  282.630   30.000    -1.707
   SRCPARAM A0000480    2.5647E-14   0.000  282.630   30.000    -1.707
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN50
   SRCPARAM A0000481    1.5489E-14   0.000   62.738   10.000    87.436
   SRCPARAM A0000482    1.5489E-14   0.000   74.894   10.000    99.345
   SRCPARAM A0000483    1.5489E-14   0.000   65.079   10.000   108.435
   SRCPARAM A0000484    1.5489E-14   0.000   71.743   10.000   112.218
   SRCPARAM A0000485    1.5489E-14   0.000   55.263   10.000   123.959
   SRCPARAM A0000486    1.5489E-14   0.000   71.149   10.000   129.130
   SRCPARAM A0000487    1.5489E-14   0.000   82.192   10.000   138.691
   SRCPARAM A0000488    1.5489E-14   0.000   51.373   10.000   146.889
   SRCPARAM A0000489    1.5489E-14   0.000   48.155   10.000   150.945
   SRCPARAM A0000490    1.5489E-14   0.000   73.139   10.000   159.015
   SRCPARAM A0000491    1.5489E-14   0.000   64.661   10.000   165.763
   SRCPARAM A0000492    1.5489E-14   0.000   65.908   10.000   173.480
   SRCPARAM A0000493    1.5489E-14   0.000   57.998   10.000   180.000
   SRCPARAM A0000494    1.5489E-14   0.000   52.660   10.000  -167.692
   SRCPARAM A0000495    1.5489E-14   0.000   30.642   10.000  -167.661
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN51
   SRCPARAM A0000496    1.8005E-14   0.000  164.434   30.000    -0.226
   SRCPARAM A0000497    1.8005E-14   0.000  164.434   30.000    -0.226
   SRCPARAM A0000498    1.8005E-14   0.000   86.079   30.000   -15.709
   SRCPARAM A0000499    1.8005E-14   0.000   54.441   30.000   -25.346
   SRCPARAM A0000500    1.8005E-14   0.000  262.199   30.000   -41.998
   SRCPARAM A0000501    1.8005E-14   0.000  262.199   30.000   -41.998
   SRCPARAM A0000502    1.8005E-14   0.000   70.024   30.000   -33.690
   SRCPARAM A0000503    1.8005E-14   0.000   61.415   30.000   -18.435
   SRCPARAM A0000504    1.8005E-14   0.000   72.158   30.000    -9.293
   SRCPARAM A0000505    1.8005E-14   0.000   91.963   30.000    -1.614
   SRCPARAM A0000506    1.8005E-14   0.000  275.390   30.000    -0.988
   SRCPARAM A0000507    1.8005E-14   0.000  275.390   30.000    -0.988
   SRCPARAM A0000508    1.8005E-14   0.000  275.390   30.000    -0.988
   SRCPARAM A0000509    1.8005E-14   0.000  147.766   30.000     8.059
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN52
   SRCPARAM A0000510    1.5325E-14   0.000   78.090   10.000   177.387
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  SRCPARAM A0000511    1.5325E-14   0.000   78.090   10.000   177.387
  SRCPARAM A0000512    1.5325E-14   0.000   78.090   10.000   177.387
  SRCPARAM A0000513    1.5325E-14   0.000   78.090   10.000   177.387
  SRCPARAM A0000514    1.5325E-14   0.000   81.312   10.000   179.635
  SRCPARAM A0000515    1.5325E-14   0.000   81.312   10.000   179.635
  SRCPARAM A0000516    1.5325E-14   0.000   81.312   10.000   179.635
  SRCPARAM A0000517    1.5325E-14   0.000   81.312   10.000   179.635
  SRCPARAM A0000518    1.5325E-14   0.000   81.312   10.000   179.635
  SRCPARAM A0000519    1.5325E-14   0.000   89.663   10.000   179.586
  SRCPARAM A0000520    1.5325E-14   0.000   89.663   10.000   179.586
  SRCPARAM A0000521    1.5325E-14   0.000   89.663   10.000   179.586
  SRCPARAM A0000522    1.5325E-14   0.000   89.663   10.000   179.586
  SRCPARAM A0000523    1.5325E-14   0.000   76.826   10.000  -179.356
  SRCPARAM A0000524    1.5325E-14   0.000   76.826   10.000  -179.356
  SRCPARAM A0000525    1.5325E-14   0.000   76.826   10.000  -179.356
  SRCPARAM A0000526    1.5325E-14   0.000   18.310   10.000  -171.870
  SRCPARAM A0000527    1.5325E-14   0.000   32.755   10.000  -161.565
  SRCPARAM A0000528    1.5325E-14   0.000   95.715   10.000  -149.967
** ----------------------------------------------------------------------
** LINE AREA Source ID = ARLN53
  SRCPARAM A0000529    7.6916E-15   0.000   65.674   10.000   162.408
  SRCPARAM A0000530    7.6916E-15   0.000   57.818   10.000   163.639
  SRCPARAM A0000531    7.6916E-15   0.000   27.133   10.000   156.801
  SRCPARAM A0000532    7.6916E-15   0.000   20.031   10.000   152.784
  SRCPARAM A0000533    7.6916E-15   0.000   14.467   10.000   140.711
  SRCPARAM A0000534    7.6916E-15   0.000   22.325   10.000   133.152
  SRCPARAM A0000535    7.6916E-15   0.000   12.976   10.000   138.180
  SRCPARAM A0000536    7.6916E-15   0.000   43.963   10.000   110.323
  SRCPARAM A0000537    7.6916E-15   0.000   10.797   10.000    98.130
  SRCPARAM A0000538    7.6916E-15   0.000   91.140   10.000    91.600
  SRCPARAM A0000539    7.6916E-15   0.000   74.570   10.000    89.218
  SRCPARAM A0000540    7.6916E-15   0.000   74.570   10.000    89.218
  SRCPARAM A0000541    7.6916E-15   0.000   41.400   10.000    74.706
  SRCPARAM A0000542    7.6916E-15   0.000   27.105   10.000    55.713
  SRCPARAM A0000543    7.6916E-15   0.000    8.348   10.000    52.431
  SRCPARAM A0000544    7.6916E-15   0.000   21.785   10.000    37.405
  SRCPARAM A0000545    7.6916E-15   0.000   33.922   10.000    27.719
  SRCPARAM A0000546    7.6916E-15   0.000   28.329   10.000    17.784
  SRCPARAM A0000547    7.6916E-15   0.000   19.876   10.000     2.936
  SRCPARAM A0000548    7.6916E-15   0.000   29.371   10.000    -8.973
  SRCPARAM A0000549    7.6916E-15   0.000   51.052   10.000   -20.422
  SRCPARAM A0000550    7.6916E-15   0.000   84.968   10.000   -21.801
  SRCPARAM A0000551    7.6916E-15   0.000   28.012   10.000   -24.702
  SRCPARAM A0000552    7.6916E-15   0.000   19.666   10.000   -10.437
  SRCPARAM A0000553    7.6916E-15   0.000   76.346   10.000     0.000
  SRCPARAM A0000554    7.6916E-15   0.000   77.162   10.000    -8.344
** ----------------------------------------------------------------------
  SRCPARAM PAREA1      5.9685E-09   0.000      126
  AREAVERT PAREA1     484076.208 3640217.622 484094.972 3640221.643
  AREAVERT PAREA1     484128.746 3640235.046 484158.231 3640229.953
  AREAVERT PAREA1     484191.469 3640244.159 484195.490 3640269.088
  AREAVERT PAREA1     484199.779 3640273.377 484212.109 3640279.274
  AREAVERT PAREA1     484229.264 3640283.026 484253.121 3640287.583
  AREAVERT PAREA1     484291.720 3640291.604 484371.331 3640291.336
  AREAVERT PAREA1     484445.310 3640271.631 484554.387 3640228.594
  AREAVERT PAREA1     484635.267 3640164.038 484716.628 3640069.230
  AREAVERT PAREA1     484862.810 3640004.673 484882.103 3639993.542
  AREAVERT PAREA1     484893.234 3639975.362 484919.576 3639904.127
  AREAVERT PAREA1     484930.927 3639878.007 484946.511 3639863.908
  AREAVERT PAREA1     484983.614 3639844.614 484999.939 3639830.515
  AREAVERT PAREA1     485022.201 3639785.249 485037.042 3639765.956
  AREAVERT PAREA1     485045.575 3639756.680 485057.448 3639749.260
  AREAVERT PAREA1     485118.297 3639718.093 485133.880 3639719.577
  AREAVERT PAREA1     485154.287 3639729.595 485208.457 3639753.341
  AREAVERT PAREA1     485300.843 3639785.620 485327.011 3639792.255
  AREAVERT PAREA1     485391.205 3639788.660 485433.316 3639777.875
  AREAVERT PAREA1     485446.668 3639755.793 485513.430 3639783.524
  AREAVERT PAREA1     485531.917 3639785.579 485559.135 3639803.039
  AREAVERT PAREA1     485587.381 3639802.012 485610.490 3639817.419
  AREAVERT PAREA1     485638.222 3639823.581 485677.765 3639842.069
  AREAVERT PAREA1     485713.714 3639855.935 485738.877 3639861.584
  AREAVERT PAREA1     485746.581 3639861.070 485760.960 3639876.990
  AREAVERT PAREA1     485817.450 3639892.910 485921.187 3639908.317
  AREAVERT PAREA1     485938.786 3639920.049 485958.452 3639932.665
  AREAVERT PAREA1     485982.570 3639942.312 486025.613 3639947.136
  AREAVERT PAREA1     486050.473 3639944.538 486061.605 3639942.683
  AREAVERT PAREA1     486072.737 3639931.922 486070.881 3639794.261
  AREAVERT PAREA1     486065.687 3639787.953 486048.989 3639778.676
  AREAVERT PAREA1     486048.618 3639773.853 486042.681 3639767.174
  AREAVERT PAREA1     486041.197 3639754.558 486047.134 3639743.055
  AREAVERT PAREA1     486038.229 3639734.521 486033.034 3639736.747
  AREAVERT PAREA1     485998.155 3639731.552 485993.331 3639736.005
  AREAVERT PAREA1     485983.312 3639746.394 485972.923 3639744.539
  AREAVERT PAREA1     485965.873 3639739.344 485959.936 3639731.181
  AREAVERT PAREA1     485949.917 3639726.729 485928.396 3639725.244
  AREAVERT PAREA1     485906.875 3639723.760 485888.322 3639727.471
  AREAVERT PAREA1     485880.901 3639735.263 485857.895 3639754.929
  AREAVERT PAREA1     485844.166 3639731.552 485833.406 3639725.615
  AREAVERT PAREA1     485808.545 3639742.684 485757.439 3639725.915
  AREAVERT PAREA1     485723.028 3639718.211 485700.430 3639718.725
  AREAVERT PAREA1     485670.128 3639717.184 485633.149 3639691.504
  AREAVERT PAREA1     485402.958 3639328.986 485387.068 3639337.349
  AREAVERT PAREA1     485382.886 3639294.697 485242.062 3639271.511
  AREAVERT PAREA1     485146.721 3639276.529 484942.658 3639279.874
  AREAVERT PAREA1     484888.297 3639294.092 484852.335 3639308.309
  AREAVERT PAREA1     484820.555 3639320.018 484756.994 3639314.164
  AREAVERT PAREA1     484716.851 3639299.946 484676.707 3639286.565
  AREAVERT PAREA1     484532.023 3639213.805 484481.844 3639154.426
  AREAVERT PAREA1     484339.333 3639168.254 484331.513 3639213.751
  AREAVERT PAREA1     484310.186 3639257.827 484348.042 3639484.463
  AREAVERT PAREA1     484344.696 3639512.064 484343.860 3639573.118
  AREAVERT PAREA1     484336.333 3639614.937 484311.242 3639688.537
  AREAVERT PAREA1     484280.296 3639747.083 484243.496 3639796.429
  AREAVERT PAREA1     484213.387 3639829.883 484178.259 3639864.175
  AREAVERT PAREA1     484141.459 3639900.975 484147.314 3639911.011
  AREAVERT PAREA1     484166.550 3639911.848 484161.532 3639926.902
  AREAVERT PAREA1     484169.059 3639934.429 484156.514 3639960.357
  AREAVERT PAREA1     484142.295 3639961.193 484113.022 3639944.466
  AREAVERT PAREA1     484103.822 3639951.993 484071.075 3640025.772
  AREAVERT PAREA1     484058.385 3640071.094 484059.593 3640127.898
  AREAVERT PAREA1     484066.845 3640182.889 484073.492 3640211.290
  SRCGROUP ALL
SO FINISHED
**
**********
** AERMOD Receptor Pathway
**********
**
**
RE STARTING
  INCLUDED 3Roots.rou
RE FINISHED
```

```
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
  SURFFILE MetData\722931.SFC
  PROFFILE MetData\722931.PFL
  SURFDATA 93107 2009
  UAIRDATA 3190 2009
  PROFBASE 145.4 METERS
  STARTEND 2013 1 1 1 2013 12 31 24
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST 3Roots.AD\24H1GALL.PLT 31
  PLOTFILE PERIOD ALL 3Roots.AD\PE00GALL.PLT 32
  SUMMFILE 3Roots.sum
OU FINISHED


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

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

A Total of          0 Fatal Error Message(s)
A Total of          2 Warning Message(s)
A Total of          0 Informational Message(s)


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


   ********   WARNING MESSAGES   ********
RE W213    378      RECART: ELEV Input Inconsistent With Option: Input Ignored      UCART1
RE W213    633      RECART: ELEV Input Inconsistent With Option: Input Ignored      UCART2

************************************
*** SETUP Finishes Successfully ***
************************************


*** AERMOD - VERSION  18081 ***   *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc       ***
03/20/19
*** AERMET - VERSION  14134 ***   ***                                              ***       10:12:43
                                                                      PAGE   1
*** MODELOPTs:    NonDFAULT  CONC  FLAT and  ELEV  RURAL

                              ***    MODEL SETUP OPTIONS SUMMARY      ***
------------------------------------------------------------------------
**Model Is Setup For Calculation of Average CONCentration Values.

 --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses RURAL Dispersion Only.

**Model Allows User-Specified Options:
       1. Stack-tip Downwash.
       2. Allow FLAT/ELEV Terrain Option by Source,
          with      0 FLAT and    518 ELEV Source(s).
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Full Conversion Assumed for NO2.

**Other Options Specified:
       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:  24-HR
   and Calculates PERIOD Averages

**This Run Includes:    518 Source(s);      1 Source Group(s); and    1796 Receptor(s)

            with:      0 POINT(s), including
                     0 POINTCAP(s) and      0 POINTHOR(s)
             and:      0 VOLUME source(s)
             and:    518 AREA type source(s)
             and:      0 LINE source(s)
             and:      0 OPENPIT source(s)
             and:      0 BUOYANT LINE source(s) with      0 line(s)


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

**The AERMET Input Meteorological Data Version Date:  14134

**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) =   145.40 ;  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 =      5.0 MB of RAM.
```

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

**Detailed Error/Message File: 3Roots.err
**File for Summary of Results: 3Roots.sum

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 2
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE BY
A0000001	0	0.14855E-12	484296.7	3639617.9	87.7	0.00	58.25	30.00	79.00	0.00	NO
A0000002	0	0.14855E-12	484307.5	3639562.6	84.5	0.00	37.40	30.00	86.35	0.00	NO
A0000003	0	0.14855E-12	484309.9	3639526.3	82.4	0.00	15.88	30.00	90.00	0.00	NO
A0000004	0	0.14855E-12	484310.0	3639511.9	81.6	0.00	62.27	30.00	95.86	0.00	NO
A0000005	0	0.14855E-12	484303.8	3639451.2	79.2	0.00	151.88	30.00	100.55	0.00	NO
A0000006	0	0.14855E-12	484276.0	3639301.7	78.2	0.00	41.91	30.00	99.82	0.00	NO
A0000007	0	0.14855E-12	484268.6	3639258.9	78.8	0.00	75.65	30.00	94.21	0.00	NO
A0000008	0	0.14855E-12	484263.1	3639181.3	81.5	0.00	32.65	30.00	85.81	0.00	NO
A0000009	0	0.14855E-12	484265.6	3639147.7	83.2	0.00	134.00	30.00	81.82	0.00	NO
A0000010	0	0.14855E-12	484284.8	3639014.3	93.3	0.00	67.13	30.00	79.09	0.00	NO
A0000011	0	0.90995E-13	484031.4	3640024.8	94.2	0.00	51.06	30.00	71.05	0.00	NO
A0000012	0	0.90995E-13	484049.2	3639974.0	96.5	0.00	56.81	30.00	60.13	0.00	NO
A0000013	0	0.90995E-13	484078.3	3639923.4	96.9	0.00	37.76	30.00	54.46	0.00	NO
A0000014	0	0.90995E-13	484101.0	3639891.7	97.0	0.00	37.04	30.00	49.81	0.00	NO
A0000015	0	0.90995E-13	484125.7	3639862.5	97.5	0.00	89.67	30.00	45.00	0.00	NO
A0000016	0	0.90995E-13	484188.9	3639799.3	96.1	0.00	21.04	30.00	45.94	0.00	NO
A0000017	0	0.90995E-13	484203.0	3639784.8	95.9	0.00	40.10	30.00	48.95	0.00	NO
A0000018	0	0.90995E-13	484228.1	3639756.2	94.5	0.00	61.69	30.00	56.94	0.00	NO
A0000019	0	0.90995E-13	484260.8	3639706.1	92.4	0.00	48.21	30.00	64.21	0.00	NO
A0000020	0	0.90995E-13	484281.1	3639664.5	90.3	0.00	48.90	30.00	71.38	0.00	NO
A0000042	0	0.98538E-13	483994.7	3640772.9	111.6	0.00	64.33	30.00	85.19	0.00	NO
A0000043	0	0.98538E-13	484000.2	3640708.3	108.4	0.00	140.82	30.00	83.40	0.00	NO
A0000044	0	0.98538E-13	484016.4	3640568.3	99.2	0.00	186.73	30.00	82.97	0.00	NO
A0000045	0	0.98538E-13	484039.1	3640385.6	88.0	0.00	98.19	30.00	92.75	0.00	NO
A0000046	0	0.98538E-13	484034.6	3640289.5	86.1	0.00	68.48	30.00	100.62	0.00	NO
A0000047	0	0.98538E-13	484021.9	3640221.4	84.2	0.00	38.47	30.00	97.43	0.00	NO
A0000048	0	0.98538E-13	484016.8	3640182.5	87.9	0.00	32.02	30.00	94.46	0.00	NO
A0000049	0	0.98538E-13	484014.3	3640149.4	89.4	0.00	20.32	30.00	90.00	0.00	NO
A0000050	0	0.98538E-13	484014.3	3640128.0	90.7	0.00	36.57	30.00	86.10	0.00	NO
A0000051	0	0.98538E-13	484017.1	3640089.4	92.4	0.00	62.38	30.00	77.72	0.00	NO
A0000031	0	0.33699E-13	484314.2	3638945.6	97.5	0.00	57.29	9.00	-10.97	0.00	NO
A0000032	0	0.33699E-13	484369.5	3638956.4	98.1	0.00	84.61	9.00	0.39	0.00	NO
A0000033	0	0.33699E-13	484454.1	3638955.9	104.1	0.00	84.61	9.00	0.39	0.00	NO
A0000034	0	0.33699E-13	484538.8	3638955.3	108.0	0.00	84.61	9.00	0.39	0.00	NO
A0000035	0	0.33699E-13	484623.4	3638954.7	109.0	0.00	84.61	9.00	0.39	0.00	NO
A0000036	0	0.33699E-13	484708.0	3638954.1	110.2	0.00	84.61	9.00	0.39	0.00	NO
A0000037	0	0.33699E-13	484792.6	3638953.6	111.2	0.00	84.61	9.00	0.39	0.00	NO
A0000038	0	0.33699E-13	484877.2	3638953.0	113.0	0.00	84.61	9.00	0.39	0.00	NO
A0000039	0	0.33699E-13	484962.5	3638952.5	117.6	0.00	40.67	9.00	-8.93	0.00	NO
A0000040	0	0.33699E-13	485003.4	3638959.0	119.2	0.00	63.25	9.00	-17.70	0.00	NO

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE BY
A0000041	0	0.33699E-13	485063.7	3638978.2	122.1	0.00	63.25	9.00	-17.70	0.00	NO
A0000052	0	0.16707E-13	485123.3	3638995.2	123.6	0.00	47.46	9.00	80.25	0.00	NO
A0000053	0	0.16707E-13	485131.3	3638948.4	124.3	0.00	47.46	9.00	80.25	0.00	NO
A0000054	0	0.16707E-13	485139.3	3638902.4	124.5	0.00	50.51	9.00	89.35	0.00	NO
A0000055	0	0.16707E-13	485139.9	3638852.4	124.8	0.00	51.97	9.00	96.34	0.00	NO
A0000056	0	0.16707E-13	485134.2	3638801.2	125.1	0.00	45.82	9.00	102.30	0.00	NO
A0000057	0	0.16707E-13	485124.8	3638757.4	125.4	0.00	69.31	9.00	115.50	0.00	NO
A0000058	0	0.16707E-13	485095.0	3638695.0	126.0	0.00	49.67	9.00	117.16	0.00	NO
A0000059	0	0.16707E-13	485072.3	3638650.8	126.4	0.00	49.67	9.00	117.16	0.00	NO
A0000060	0	0.12699E-13	485131.5	3638996.3	123.7	0.00	28.49	12.00	-9.27	0.00	NO
A0000061	0	0.12699E-13	485159.0	3639000.9	124.6	0.00	25.85	12.00	-2.54	0.00	NO
A0000062	0	0.12699E-13	485184.5	3639002.0	125.1	0.00	116.94	12.00	0.49	0.00	NO
A0000063	0	0.12699E-13	485301.4	3639001.0	126.7	0.00	116.94	12.00	0.49	0.00	NO
A0000064	0	0.12699E-13	485418.3	3639000.0	125.6	0.00	116.94	12.00	0.49	0.00	NO
A0000065	0	0.12699E-13	485535.3	3638999.0	125.8	0.00	116.94	12.00	0.49	0.00	NO
A0000066	0	0.12699E-13	485658.3	3639003.9	123.6	0.00	105.44	12.00	-89.45	0.00	NO
A0000067	0	0.12699E-13	485659.3	3639109.4	121.4	0.00	105.44	12.00	-89.45	0.00	NO
A0000068	0	0.12699E-13	485660.3	3639214.8	118.7	0.00	105.44	12.00	-89.45	0.00	NO
A0000069	0	0.12699E-13	485661.3	3639320.2	116.8	0.00	105.44	12.00	-89.45	0.00	NO
A0000070	0	0.12699E-13	485662.3	3639425.7	117.2	0.00	105.44	12.00	-89.45	0.00	NO
A0000071	0	0.12699E-13	485657.3	3639525.2	117.9	0.00	94.08	12.00	0.66	0.00	NO
A0000072	0	0.12699E-13	485751.3	3639524.1	120.0	0.00	94.08	12.00	0.66	0.00	NO
A0000073	0	0.12699E-13	485845.8	3639523.0	122.4	0.00	19.09	12.00	-2.49	0.00	NO
A0000074	0	0.12699E-13	485866.2	3639524.1	123.0	0.00	35.83	12.00	-16.13	0.00	NO
A0000075	0	0.12699E-13	485902.1	3639534.7	124.3	0.00	40.51	12.00	-31.03	0.00	NO
A0000076	0	0.13816E-12	484297.4	3638943.0	98.1	0.00	185.63	30.00	72.98	0.00	NO
A0000077	0	0.13816E-12	484351.3	3638767.2	111.9	0.00	58.65	30.00	79.41	0.00	NO
A0000078	0	0.13816E-12	484361.8	3638712.0	115.4	0.00	110.74	30.00	89.14	0.00	NO
A0000079	0	0.11891E-12	484385.1	3638596.3	120.2	0.00	89.84	10.00	-4.83	0.00	NO
A0000080	0	0.11891E-12	484474.6	3638603.9	121.5	0.00	89.84	10.00	-4.83	0.00	NO
A0000081	0	0.11891E-12	484564.2	3638611.4	121.8	0.00	89.84	10.00	-4.83	0.00	NO
A0000082	0	0.11891E-12	484653.7	3638619.0	122.4	0.00	89.84	10.00	-4.83	0.00	NO
A0000127	0	0.92930E-13	484743.2	3638626.9	123.1	0.00	55.17	10.00	-4.67	0.00	NO
A0000128	0	0.92930E-13	484798.2	3638631.4	123.8	0.00	55.17	10.00	-4.67	0.00	NO
A0000129	0	0.92930E-13	484852.7	3638635.8	124.3	0.00	28.17	10.00	0.61	0.00	NO
A0000130	0	0.92930E-13	484880.5	3638635.5	124.8	0.00	41.48	10.00	4.56	0.00	NO
A0000131	0	0.92930E-13	484921.4	3638632.3	125.1	0.00	31.92	10.00	9.73	0.00	NO
A0000132	0	0.92930E-13	484952.6	3638627.0	125.2	0.00	24.35	10.00	13.52	0.00	NO
A0000133	0	0.92930E-13	484975.9	3638621.4	125.5	0.00	19.14	10.00	17.30	0.00	NO
A0000134	0	0.92930E-13	484993.9	3638615.8	125.6	0.00	63.38	10.00	21.35	0.00	NO

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*** AERMET - VERSION 14134 *** *** *** 10:12:43

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** AREA SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE /METER**2)	COORD (SW CORNER) X (METERS)	COORD (SW CORNER) Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
A0000135	0	0.92930E-13	485052.9	3638592.7	126.4	0.00	95.76	10.00	21.67	0.00	NO	
A0000136	0	0.92930E-13	485141.1	3638557.8	127.9	0.00	41.99	10.00	31.88	0.00	NO	
A0000137	0	0.92930E-13	485176.4	3638535.9	128.4	0.00	31.88	10.00	36.98	0.00	NO	
A0000138	0	0.92930E-13	485201.3	3638517.2	128.7	0.00	31.57	10.00	45.38	0.00	NO	
A0000139	0	0.92930E-13	485222.9	3638495.3	128.9	0.00	1.22	10.00	54.74	0.00	NO	
A0000140	0	0.92930E-13	485223.6	3638494.3	128.9	0.00	70.60	10.00	54.74	0.00	NO	
A0000141	0	0.92930E-13	485264.1	3638437.1	129.4	0.00	52.39	10.00	61.12	0.00	NO	
A0000142	0	0.92930E-13	485289.4	3638391.3	129.7	0.00	52.39	10.00	61.12	0.00	NO	
A0000143	0	0.92930E-13	485314.7	3638345.4	129.6	0.00	67.54	10.00	61.38	0.00	NO	
A0000144	0	0.92930E-13	485347.0	3638286.1	129.8	0.00	67.54	10.00	61.38	0.00	NO	
A0000096	0	0.23865E-13	484737.4	3638624.4	123.0	0.00	79.13	10.00	82.87	0.00	NO	
A0000097	0	0.23865E-13	484747.2	3638545.9	122.0	0.00	79.13	10.00	82.87	0.00	NO	
A0000098	0	0.23865E-13	484757.0	3638467.1	121.5	0.00	24.75	10.00	79.11	0.00	NO	
A0000099	0	0.23865E-13	484761.7	3638444.2	121.2	0.00	56.36	10.00	95.71	0.00	NO	
A0000100	0	0.23865E-13	484756.1	3638388.7	120.0	0.00	71.68	10.00	102.04	0.00	NO	
A0000101	0	0.23865E-13	484741.1	3638318.3	119.9	0.00	46.41	10.00	99.27	0.00	NO	
A0000102	0	0.23865E-13	484733.6	3638271.8	120.2	0.00	35.53	10.00	91.51	0.00	NO	
A0000103	0	0.23865E-13	484732.7	3638236.1	120.6	0.00	37.40	10.00	88.57	0.00	NO	
A0000104	0	0.23865E-13	484733.6	3638198.4	120.9	0.00	22.51	10.00	85.24	0.00	NO	
A0000105	0	0.23865E-13	484735.5	3638175.6	121.2	0.00	41.65	10.00	80.96	0.00	NO	
A0000106	0	0.23865E-13	484742.1	3638134.3	121.7	0.00	49.50	10.00	79.11	0.00	NO	
A0000107	0	0.23865E-13	484751.5	3638085.6	123.3	0.00	86.08	10.00	77.77	0.00	NO	
A0000108	0	0.23865E-13	484769.7	3638001.5	125.4	0.00	86.08	10.00	77.77	0.00	NO	
A0000109	0	0.86694E-13	484361.8	3638595.1	120.2	0.00	118.71	30.00	90.00	0.00	NO	
A0000110	0	0.86694E-13	484361.9	3638477.8	119.9	0.00	30.97	30.00	95.19	0.00	NO	
A0000111	0	0.86694E-13	484359.4	3638448.7	119.5	0.00	48.77	30.00	102.17	0.00	NO	
A0000112	0	0.86694E-13	484350.0	3638404.0	116.9	0.00	62.35	30.00	113.87	0.00	NO	
A0000113	0	0.86694E-13	484326.0	3638349.2	114.3	0.00	56.00	30.00	123.42	0.00	NO	
A0000114	0	0.86694E-13	484296.4	3638304.1	111.3	0.00	53.64	30.00	131.47	0.00	NO	
A0000115	0	0.86694E-13	484264.5	3638266.8	106.7	0.00	67.49	30.00	149.17	0.00	NO	
A0000116	0	0.86694E-13	484207.1	3638232.6	103.4	0.00	45.58	30.00	151.86	0.00	NO	
A0000117	0	0.86694E-13	484169.7	3638212.2	101.5	0.00	78.07	30.00	163.30	0.00	NO	
A0000118	0	0.86694E-13	484095.3	3638189.9	100.3	0.00	21.32	30.00	164.74	0.00	NO	
A0000119	0	0.82032E-13	484070.4	3638185.7	99.8	0.00	72.21	30.00	158.75	0.00	NO	
A0000120	0	0.82032E-13	484001.0	3638158.5	101.1	0.00	49.86	30.00	149.59	0.00	NO	
A0000121	0	0.82032E-13	483955.7	3638131.6	102.5	0.00	51.00	30.00	138.71	0.00	NO	
A0000122	0	0.82032E-13	483914.8	3638095.0	105.9	0.00	51.85	30.00	123.98	0.00	NO	
A0000123	0	0.82032E-13	483884.6	3638049.7	109.0	0.00	55.24	30.00	113.96	0.00	NO	
A0000124	0	0.82032E-13	483861.0	3637995.7	112.9	0.00	55.94	30.00	99.62	0.00	NO	
A0000125	0	0.82032E-13	483851.5	3637939.4	116.3	0.00	93.85	30.00	95.14	0.00	NO	

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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** AREA SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE /METER**2)	COORD (SW CORNER) X (METERS)	COORD (SW CORNER) Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
A0000126	0	0.82032E-13	483843.1	3637846.0	121.4	0.00	69.33	30.00	95.51	0.00	NO	
A0000145	0	0.79228E-13	483847.8	3637771.2	124.3	0.00	247.79	30.00	-172.85	0.00	NO	
A0000146	0	0.79228E-13	483597.7	3637801.9	125.0	0.00	282.42	30.00	170.54	0.00	NO	
A0000147	0	0.79228E-13	483319.1	3637755.5	123.1	0.00	282.42	30.00	170.54	0.00	NO	
A0000148	0	0.79228E-13	483040.5	3637709.1	122.2	0.00	282.42	30.00	170.54	0.00	NO	
A0000149	0	0.79228E-13	482764.8	3637662.9	120.9	0.00	197.30	30.00	-178.64	0.00	NO	
A0000150	0	0.68006E-13	482567.1	3637667.5	120.0	0.00	155.18	30.00	179.66	0.00	NO	
A0000151	0	0.68006E-13	482409.6	3637666.4	120.0	0.00	286.78	30.00	171.00	0.00	NO	
A0000152	0	0.30721E-13	482124.2	3637623.4	117.1	0.00	215.03	30.00	169.73	0.00	NO	
A0000153	0	0.30721E-13	481912.6	3637585.0	115.9	0.00	215.03	30.00	169.73	0.00	NO	
A0000154	0	0.30721E-13	481701.0	3637546.7	114.2	0.00	215.03	30.00	169.73	0.00	NO	
A0000155	0	0.36728E-13	482112.2	3637583.7	117.2	0.00	28.80	30.00	76.87	0.00	NO	
A0000156	0	0.36728E-13	482118.5	3637557.2	111.3	0.00	75.37	30.00	82.87	0.00	NO	
A0000157	0	0.36728E-13	482127.8	3637484.9	108.2	0.00	64.56	30.00	92.49	0.00	NO	
A0000158	0	0.36728E-13	482125.0	3637421.3	116.6	0.00	54.51	30.00	95.91	0.00	NO	
A0000159	0	0.36728E-13	482120.0	3637370.0	116.5	0.00	68.59	30.00	107.45	0.00	NO	
A0000160	0	0.36728E-13	482101.0	3637308.0	117.0	0.00	111.28	30.00	121.95	0.00	NO	
A0000161	0	0.36728E-13	482043.3	3637215.3	117.7	0.00	270.56	30.00	129.60	0.00	NO	
A0000162	0	0.36728E-13	481870.8	3637006.8	117.1	0.00	270.56	30.00	129.60	0.00	NO	
A0000177	0	0.32992E-13	482002.4	3636528.3	104.0	0.00	337.88	50.00	51.08	0.00	NO	
A0000178	0	0.72603E-14	482040.4	3636559.8	104.3	0.00	490.77	50.00	-128.54	0.00	NO	
A0000179	0	0.72603E-14	481734.5	3636943.8	108.2	0.00	204.93	50.00	-128.90	0.00	NO	
A0000180	0	0.72603E-14	481606.2	3637102.8	106.8	0.00	112.20	50.00	-127.43	0.00	NO	
A0000181	0	0.72603E-14	481539.6	3637189.5	105.3	0.00	66.59	50.00	-120.80	0.00	NO	
A0000182	0	0.72603E-14	481504.5	3637248.2	104.3	0.00	53.71	50.00	-124.99	0.00	NO	
A0000183	0	0.72603E-14	481475.7	3637289.0	103.4	0.00	197.74	50.00	-116.42	0.00	NO	
A0000184	0	0.23116E-13	481668.7	3637026.3	107.8	0.00	71.87	10.00	-125.10	0.00	NO	
A0000185	0	0.23116E-13	481627.4	3637085.1	107.0	0.00	71.87	10.00	-125.10	0.00	NO	
A0000186	0	0.23116E-13	481586.1	3637143.7	106.1	0.00	92.58	10.00	-122.73	0.00	NO	
A0000187	0	0.23116E-13	481536.4	3637221.1	104.6	0.00	57.58	10.00	-116.21	0.00	NO	
A0000188	0	0.23116E-13	481511.2	3637272.2	103.6	0.00	34.43	10.00	-108.85	0.00	NO	
A0000189	0	0.23116E-13	481500.3	3637303.4	103.8	0.00	34.21	10.00	-92.66	0.00	NO	
A0000190	0	0.23116E-13	481498.7	3637336.5	104.3	0.00	37.89	10.00	-80.34	0.00	NO	
A0000191	0	0.23116E-13	481504.9	3637373.3	105.7	0.00	59.60	10.00	-73.74	0.00	NO	
A0000192	0	0.23116E-13	481521.8	3637431.5	109.5	0.00	23.89	10.00	-86.19	0.00	NO	
A0000193	0	0.23116E-13	481523.3	3637456.4	110.7	0.00	30.46	10.00	-97.50	0.00	NO	
A0000194	0	0.38494E-12	482573.5	3637667.6	120.1	0.00	30.76	10.00	-88.18	0.00	NO	
A0000195	0	0.38494E-12	482574.4	3637699.5	120.4	0.00	17.90	10.00	-101.00	0.00	NO	
A0000196	0	0.38494E-12	482570.7	3637718.1	120.5	0.00	39.54	10.00	-114.03	0.00	NO	
A0000197	0	0.38494E-12	482554.2	3637755.0	120.1	0.00	90.83	10.00	-123.60	0.00	NO	

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** AREA SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
A0000198	0	0.38494E-12	482504.2	3637830.0	119.1	0.00	91.68	10.00	-115.88	0.00	NO	
A0000199	0	0.38494E-12	482464.0	3637912.9	118.2	0.00	63.70	10.00	-120.89	0.00	NO	
A0000200	0	0.38494E-12	482431.0	3637968.0	117.9	0.00	19.52	10.00	-126.87	0.00	NO	
A0000201	0	0.38494E-12	482419.0	3637984.0	117.8	0.00	68.06	10.00	-132.38	0.00	NO	
A0000202	0	0.38494E-12	482372.5	3638034.8	118.0	0.00	30.95	10.00	-142.05	0.00	NO	
A0000203	0	0.38494E-12	482347.9	3638054.0	118.0	0.00	97.72	10.00	-144.51	0.00	NO	
A0000204	0	0.38494E-12	482268.3	3638110.7	118.3	0.00	97.72	10.00	-144.51	0.00	NO	
A0000205	0	0.38494E-12	482188.8	3638167.4	118.0	0.00	97.72	10.00	-144.51	0.00	NO	
A0000206	0	0.38494E-12	482108.6	3638224.6	118.0	0.00	63.14	10.00	-152.68	0.00	NO	
A0000207	0	0.38494E-12	482051.0	3638254.0	118.1	0.00	55.80	10.00	-171.33	0.00	NO	
A0000208	0	0.38494E-12	481995.1	3638262.5	117.7	0.00	55.17	10.00	-179.03	0.00	NO	
A0000209	0	0.38494E-12	481938.8	3638263.3	117.1	0.00	43.10	10.00	167.47	0.00	NO	
A0000210	0	0.38494E-12	481897.4	3638254.1	116.3	0.00	78.16	10.00	175.43	0.00	NO	
A0000211	0	0.38494E-12	481819.5	3638247.8	115.6	0.00	78.16	10.00	175.43	0.00	NO	
A0000212	0	0.38494E-12	481741.6	3638241.6	114.9	0.00	78.16	10.00	175.43	0.00	NO	
A0000213	0	0.38494E-12	481663.5	3638235.4	113.5	0.00	83.23	10.00	173.17	0.00	NO	
A0000214	0	0.38494E-12	481580.0	3638225.3	112.5	0.00	84.22	10.00	163.28	0.00	NO	
A0000215	0	0.38494E-12	481499.3	3638201.1	112.0	0.00	84.22	10.00	163.28	0.00	NO	
A0000216	0	0.38494E-12	481418.7	3638176.8	112.9	0.00	84.22	10.00	163.28	0.00	NO	
A0000217	0	0.38494E-12	481338.0	3638152.6	115.2	0.00	84.22	10.00	163.28	0.00	NO	
A0000218	0	0.38494E-12	481257.4	3638128.4	114.5	0.00	84.22	10.00	163.28	0.00	NO	
A0000219	0	0.30658E-14	480690.0	3639156.1	43.8	0.00	131.26	50.00	42.40	0.00	NO	
A0000220	0	0.30658E-14	480784.1	3639070.7	56.2	0.00	171.15	50.00	52.00	0.00	NO	
A0000221	0	0.30658E-14	480887.1	3638939.5	43.1	0.00	202.67	50.00	62.10	0.00	NO	
A0000222	0	0.30658E-14	480979.7	3638766.2	62.0	0.00	364.42	50.00	76.28	0.00	NO	
A0000223	0	0.30658E-14	481066.2	3638411.7	85.5	0.00	261.44	50.00	75.29	0.00	NO	
A0000224	0	0.30658E-14	481132.6	3638158.9	92.5	0.00	261.44	50.00	75.29	0.00	NO	
A0000225	0	0.30658E-14	481198.9	3637906.4	96.6	0.00	186.55	50.00	76.28	0.00	NO	
A0000226	0	0.30658E-14	481243.4	3637724.1	98.1	0.00	166.73	50.00	73.86	0.00	NO	
A0000227	0	0.30658E-14	481290.4	3637562.1	99.8	0.00	112.72	50.00	69.19	0.00	NO	
A0000228	0	0.77048E-14	479612.3	3639981.3	26.0	0.00	212.00	50.00	52.67	0.00	NO	
A0000229	0	0.77048E-14	479742.7	3639810.5	30.9	0.00	160.96	50.00	46.06	0.00	NO	
A0000230	0	0.77048E-14	479855.8	3639693.3	33.3	0.00	155.23	50.00	41.70	0.00	NO	
A0000231	0	0.77048E-14	479974.5	3639587.8	35.2	0.00	222.10	50.00	33.39	0.00	NO	
A0000232	0	0.77048E-14	480162.7	3639464.1	37.4	0.00	195.08	50.00	26.29	0.00	NO	
A0000233	0	0.77048E-14	480337.5	3639377.7	39.6	0.00	261.05	50.00	26.36	0.00	NO	
A0000234	0	0.77048E-14	480566.4	3639265.1	45.8	0.00	160.00	50.00	40.19	0.00	NO	
A0000235	0	0.77052E-14	480919.1	3638928.6	47.9	0.00	69.46	10.00	-26.00	0.00	NO	
A0000236	0	0.77052E-14	480982.5	3638959.7	33.6	0.00	65.89	10.00	-40.31	0.00	NO	
A0000237	0	0.77052E-14	481032.4	3639002.0	32.3	0.00	72.22	10.00	-34.70	0.00	NO	

*** AREA SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
A0000238	0	0.77052E-14	481090.9	3639042.7	43.9	0.00	64.78	10.00	-23.55	0.00	NO	
A0000239	0	0.77052E-14	481149.2	3639068.2	44.8	0.00	60.33	10.00	-10.18	0.00	NO	
A0000240	0	0.77052E-14	481208.5	3639078.9	46.1	0.00	84.98	10.00	-9.80	0.00	NO	
A0000241	0	0.77052E-14	481292.3	3639093.3	48.8	0.00	84.98	10.00	-9.80	0.00	NO	
A0000242	0	0.77052E-14	481376.3	3639107.8	50.8	0.00	74.98	10.00	-12.91	0.00	NO	
A0000243	0	0.77052E-14	481449.6	3639124.7	51.5	0.00	83.97	10.00	-16.05	0.00	NO	
A0000244	0	0.77052E-14	481530.3	3639147.9	52.4	0.00	83.97	10.00	-16.05	0.00	NO	
A0000245	0	0.77052E-14	481611.0	3639171.1	53.3	0.00	83.97	10.00	-16.05	0.00	NO	
A0000246	0	0.77052E-14	481691.7	3639194.3	53.8	0.00	83.97	10.00	-16.05	0.00	NO	
A0000247	0	0.77052E-14	481772.8	3639217.7	53.0	0.00	86.25	10.00	-20.67	0.00	NO	
A0000248	0	0.77052E-14	481853.5	3639248.1	51.2	0.00	86.25	10.00	-20.67	0.00	NO	
A0000249	0	0.77052E-14	481934.2	3639278.6	48.8	0.00	86.25	10.00	-20.67	0.00	NO	
A0000250	0	0.77052E-14	482016.1	3639309.7	46.9	0.00	81.61	10.00	-36.66	0.00	NO	
A0000251	0	0.77052E-14	482082.0	3639358.7	46.9	0.00	51.72	10.00	-42.61	0.00	NO	
A0000252	0	0.77052E-14	482118.8	3639392.9	48.6	0.00	74.23	10.00	-25.51	0.00	NO	
A0000253	0	0.77052E-14	482184.6	3639424.5	50.9	0.00	48.08	10.00	-10.95	0.00	NO	
A0000254	0	0.77052E-14	482231.3	3639433.6	51.6	0.00	55.00	10.00	-4.76	0.00	NO	
A0000255	0	0.77052E-14	482284.7	3639438.2	51.8	0.00	90.18	10.00	11.69	0.00	NO	
A0000256	0	0.77052E-14	482372.7	3639420.0	49.7	0.00	94.68	10.00	15.23	0.00	NO	
A0000257	0	0.77052E-14	482464.0	3639395.1	47.2	0.00	94.68	10.00	15.23	0.00	NO	
A0000258	0	0.77052E-14	482555.4	3639370.3	47.5	0.00	94.68	10.00	15.23	0.00	NO	
A0000259	0	0.77052E-14	482645.8	3639345.8	50.5	0.00	34.05	10.00	26.56	0.00	NO	
A0000260	0	0.77052E-14	482675.1	3639331.4	52.4	0.00	31.24	10.00	43.03	0.00	NO	
A0000261	0	0.77052E-14	482697.6	3639310.4	54.9	0.00	34.52	10.00	48.58	0.00	NO	
A0000262	0	0.77052E-14	482719.5	3639286.0	57.5	0.00	29.41	10.00	68.75	0.00	NO	
A0000263	0	0.77052E-14	482730.1	3639258.9	59.9	0.00	71.76	10.00	72.72	0.00	NO	
A0000264	0	0.77052E-14	482751.5	3639190.1	66.1	0.00	84.83	10.00	68.96	0.00	NO	
A0000265	0	0.77052E-14	482782.9	3639109.4	70.4	0.00	43.12	10.00	47.86	0.00	NO	
A0000266	0	0.77052E-14	482812.9	3639076.5	71.9	0.00	57.46	10.00	32.01	0.00	NO	
A0000267	0	0.77052E-14	482862.7	3639045.5	73.8	0.00	93.41	10.00	18.04	0.00	NO	
A0000268	0	0.77052E-14	482951.5	3639016.6	77.4	0.00	93.41	10.00	18.04	0.00	NO	
A0000269	0	0.77052E-14	483040.4	3638987.7	83.7	0.00	93.41	10.00	18.04	0.00	NO	
A0000270	0	0.15495E-13	483128.3	3638959.1	87.7	0.00	43.63	10.00	29.25	0.00	NO	
A0000271	0	0.15495E-13	483166.0	3638938.0	88.5	0.00	60.39	10.00	33.69	0.00	NO	
A0000272	0	0.15495E-13	483216.2	3638904.5	91.1	0.00	54.27	10.00	34.14	0.00	NO	
A0000273	0	0.15495E-13	483261.1	3638874.1	94.6	0.00	54.27	10.00	34.14	0.00	NO	
A0000274	0	0.15495E-13	483307.1	3638843.1	97.6	0.00	26.02	10.00	20.56	0.00	NO	
A0000275	0	0.15495E-13	483331.6	3638833.9	98.3	0.00	28.89	10.00	18.43	0.00	NO	
A0000276	0	0.15495E-13	483360.7	3638824.5	99.3	0.00	62.43	10.00	-0.70	0.00	NO	
A0000277	0	0.15495E-13	483423.1	3638825.3	100.7	0.00	62.43	10.00	-0.70	0.00	NO	

*** AREA SOURCE DATA ***

NUMBER EMISSION RATE COORD (SW CORNER) BASE RELEASE X-DIM Y-DIM ORIENT. INIT.
URBAN EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC /METER**2)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	OF AREA (METERS)	OF AREA (METERS)	OF AREA (METERS)	SZ (DEG.)	SOURCE (METERS)	SCALAR VARY BY
A0000278	0	0.15495E-13	483484.7	3638826.1	103.4	0.00	38.55	10.00	9.09	0.00	NO	
A0000279	0	0.15495E-13	483522.0	3638820.2	104.9	0.00	28.89	10.00	18.43	0.00	NO	
A0000280	0	0.15495E-13	483547.7	3638812.0	105.2	0.00	63.75	10.00	40.16	0.00	NO	
A0000281	0	0.15495E-13	483596.4	3638770.9	105.6	0.00	92.81	10.00	41.01	0.00	NO	
A0000282	0	0.15495E-13	483666.2	3638710.2	106.5	0.00	69.99	10.00	44.12	0.00	NO	
A0000283	0	0.15495E-13	483715.8	3638662.3	107.1	0.00	81.08	10.00	55.71	0.00	NO	
A0000284	0	0.76139E-14	483764.2	3638596.8	111.0	0.00	42.88	10.00	163.50	0.00	NO	
A0000285	0	0.76139E-14	483725.5	3638584.7	113.5	0.00	24.79	10.00	-169.38	0.00	NO	
A0000286	0	0.76139E-14	483702.2	3638589.0	115.4	0.00	79.77	10.00	-156.37	0.00	NO	
A0000287	0	0.76139E-14	483629.1	3638620.9	117.8	0.00	79.77	10.00	-156.37	0.00	NO	
A0000288	0	0.76139E-14	483556.0	3638652.9	118.5	0.00	79.77	10.00	-156.37	0.00	NO	
A0000289	0	0.76139E-14	483482.9	3638684.9	118.6	0.00	79.77	10.00	-156.37	0.00	NO	
A0000290	0	0.76139E-14	483408.2	3638717.3	117.8	0.00	21.37	10.00	-175.91	0.00	NO	
A0000291	0	0.76139E-14	483385.4	3638718.7	117.6	0.00	54.67	10.00	167.12	0.00	NO	
A0000292	0	0.76139E-14	483333.2	3638706.6	117.0	0.00	28.93	10.00	180.00	0.00	NO	
A0000293	0	0.76139E-14	483306.3	3638706.2	116.8	0.00	61.38	10.00	-156.61	0.00	NO	
A0000294	0	0.22804E-13	483765.5	3638591.2	111.4	0.00	33.53	10.00	39.47	0.00	NO	
A0000295	0	0.22804E-13	483792.2	3638569.3	113.4	0.00	38.16	10.00	28.61	0.00	NO	
A0000296	0	0.22804E-13	483827.9	3638550.4	116.6	0.00	59.40	10.00	1.47	0.00	NO	
A0000297	0	0.22804E-13	483888.0	3638549.0	117.1	0.00	56.66	10.00	-6.17	0.00	NO	
A0000298	0	0.22804E-13	483944.3	3638555.0	119.9	0.00	56.66	10.00	-6.17	0.00	NO	
A0000299	0	0.15237E-13	484002.6	3638573.2	122.8	0.00	42.51	10.00	-87.37	0.00	NO	
A0000300	0	0.15237E-13	484004.5	3638617.0	120.9	0.00	20.97	10.00	-102.09	0.00	NO	
A0000301	0	0.15237E-13	483999.6	3638638.7	119.0	0.00	26.42	10.00	-117.51	0.00	NO	
A0000302	0	0.15237E-13	483987.1	3638662.8	117.2	0.00	18.55	10.00	-125.36	0.00	NO	
A0000303	0	0.15237E-13	483975.8	3638678.5	115.6	0.00	23.47	10.00	-135.00	0.00	NO	
A0000304	0	0.15237E-13	483959.8	3638694.5	113.9	0.00	40.63	10.00	-125.22	0.00	NO	
A0000305	0	0.15237E-13	483937.1	3638726.1	110.4	0.00	55.06	10.00	-104.90	0.00	NO	
A0000306	0	0.39078E-13	484001.5	3638562.1	122.7	0.00	91.12	10.00	-4.92	0.00	NO	
A0000307	0	0.39078E-13	484092.3	3638569.9	126.3	0.00	91.12	10.00	-4.92	0.00	NO	
A0000308	0	0.39078E-13	484183.1	3638577.8	126.6	0.00	91.12	10.00	-4.92	0.00	NO	
A0000309	0	0.39078E-13	484273.9	3638585.6	123.6	0.00	91.12	10.00	-4.92	0.00	NO	
A0000310	0	0.30794E-13	485399.3	3638208.4	130.4	0.00	209.71	30.00	-33.91	0.00	NO	
A0000311	0	0.30794E-13	485573.4	3638325.4	131.6	0.00	209.71	30.00	-33.91	0.00	NO	
A0000312	0	0.30794E-13	485747.4	3638442.4	132.9	0.00	209.71	30.00	-33.91	0.00	NO	
A0000313	0	0.30794E-13	485921.6	3638559.5	134.4	0.00	287.85	30.00	-34.61	0.00	NO	
A0000314	0	0.30794E-13	486158.5	3638723.0	135.7	0.00	287.85	30.00	-34.61	0.00	NO	
A0000315	0	0.30794E-13	486395.4	3638886.5	131.4	0.00	287.85	30.00	-34.61	0.00	NO	
A0000316	0	0.30794E-13	486632.4	3639049.9	133.3	0.00	287.85	30.00	-34.61	0.00	NO	
A0000317	0	0.30794E-13	486869.2	3639213.4	134.5	0.00	194.78	30.00	-34.13	0.00	NO	

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** AREA SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
A0000318	0	0.30794E-13	487030.4	3639322.6	135.7	0.00	194.78	30.00	-34.13	0.00	NO	
A0000319	0	0.30794E-13	487190.1	3639431.0	136.3	0.00	66.50	30.00	-27.25	0.00	NO	
A0000320	0	0.30794E-13	487246.8	3639460.4	136.6	0.00	91.80	30.00	-17.02	0.00	NO	
A0000321	0	0.30794E-13	487332.4	3639486.8	136.9	0.00	47.13	30.00	-8.75	0.00	NO	
A0000322	0	0.30794E-13	487376.7	3639493.8	137.7	0.00	118.24	30.00	0.00	0.00	NO	
A0000323	0	0.20622E-13	487498.4	3639493.0	139.4	0.00	256.26	30.00	-0.71	0.00	NO	
A0000324	0	0.20622E-13	487754.6	3639496.2	143.7	0.00	256.26	30.00	-0.71	0.00	NO	
A0000325	0	0.20622E-13	488010.9	3639499.4	146.3	0.00	256.26	30.00	-0.71	0.00	NO	
A0000326	0	0.20622E-13	488267.1	3639502.6	148.9	0.00	256.26	30.00	-0.71	0.00	NO	
A0000327	0	0.20622E-13	488523.4	3639505.7	151.1	0.00	256.26	30.00	-0.71	0.00	NO	
A0000328	0	0.77806E-14	487497.9	3639529.8	139.3	0.00	50.91	10.00	-96.20	0.00	NO	
A0000329	0	0.77806E-14	487492.1	3639581.6	138.7	0.00	59.88	10.00	-110.43	0.00	NO	
A0000330	0	0.77806E-14	487470.4	3639639.2	136.8	0.00	69.10	10.00	-130.16	0.00	NO	
A0000331	0	0.77806E-14	487425.8	3639692.0	133.4	0.00	69.10	10.00	-130.16	0.00	NO	
A0000332	0	0.77806E-14	487380.9	3639738.0	130.3	0.00	73.15	10.00	-43.78	0.00	NO	
A0000333	0	0.77806E-14	487432.3	3639787.7	131.2	0.00	43.35	10.00	-23.96	0.00	NO	
A0000334	0	0.77806E-14	487470.9	3639804.9	132.1	0.00	25.90	10.00	-12.27	0.00	NO	
A0000335	0	0.77806E-14	487495.2	3639810.3	132.7	0.00	81.79	10.00	-0.26	0.00	NO	
A0000336	0	0.77806E-14	487577.0	3639810.7	135.1	0.00	81.79	10.00	-0.26	0.00	NO	
A0000337	0	0.77806E-14	487658.7	3639811.1	137.7	0.00	81.79	10.00	-0.26	0.00	NO	
A0000338	0	0.20635E-12	484333.9	3639615.4	88.3	0.00	142.53	20.00	-14.71	0.00	NO	
A0000339	0	0.20635E-12	484471.6	3639651.6	101.5	0.00	53.78	20.00	-13.59	0.00	NO	
A0000340	0	0.20635E-12	484526.3	3639665.1	93.5	0.00	84.30	20.00	-28.49	0.00	NO	
A0000341	0	0.17345E-12	484068.5	3640026.7	93.7	0.00	57.54	20.00	-14.45	0.00	NO	
A0000342	0	0.17345E-12	484126.3	3640041.9	116.0	0.00	75.28	20.00	-27.74	0.00	NO	
A0000343	0	0.17345E-12	484193.0	3640077.0	112.3	0.00	50.11	20.00	-28.03	0.00	NO	
A0000344	0	0.17345E-12	484235.3	3640099.7	98.7	0.00	22.72	20.00	-16.14	0.00	NO	
A0000345	0	0.17345E-12	484255.3	3640105.7	98.2	0.00	32.30	20.00	-5.10	0.00	NO	
A0000346	0	0.17345E-12	484286.4	3640108.5	98.5	0.00	35.04	20.00	0.94	0.00	NO	
A0000347	0	0.17345E-12	484319.7	3640108.1	98.4	0.00	30.98	20.00	10.69	0.00	NO	
A0000348	0	0.17345E-12	484348.0	3640103.0	99.2	0.00	30.09	20.00	23.63	0.00	NO	
A0000349	0	0.17345E-12	484374.7	3640091.4	99.8	0.00	73.03	20.00	29.19	0.00	NO	
A0000350	0	0.17345E-12	484439.4	3640055.3	102.6	0.00	38.09	20.00	23.08	0.00	NO	
A0000351	0	0.17345E-12	484472.1	3640041.9	104.3	0.00	33.46	20.00	39.43	0.00	NO	
A0000352	0	0.17345E-12	484497.0	3640021.4	108.5	0.00	20.72	20.00	46.12	0.00	NO	
A0000353	0	0.17345E-12	484510.3	3640007.8	108.6	0.00	27.72	20.00	55.98	0.00	NO	
A0000354	0	0.17345E-12	484524.7	3639987.0	107.6	0.00	28.71	20.00	70.11	0.00	NO	
A0000355	0	0.17345E-12	484534.1	3639961.4	98.9	0.00	28.73	20.00	78.47	0.00	NO	
A0000356	0	0.17345E-12	484539.6	3639934.8	94.2	0.00	88.55	20.00	87.40	0.00	NO	
A0000357	0	0.17345E-12	484543.7	3639846.5	92.6	0.00	32.76	20.00	87.99	0.00	NO	

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** AREA SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

A0000358	0	0.17345E-12	484545.1	3639811.6	92.9	0.00	23.13	20.00	75.62	0.00	NO
A0000359	0	0.17345E-12	484551.3	3639787.8	97.6	0.00	39.90	20.00	67.13	0.00	NO
A0000360	0	0.17345E-12	484567.4	3639749.9	98.4	0.00	34.48	20.00	60.02	0.00	NO
A0000361	0	0.17994E-13	480750.8	3639179.7	47.7	0.00	92.71	30.00	-41.08	0.00	NO
A0000362	0	0.17994E-13	480820.2	3639240.2	49.1	0.00	119.78	30.00	-38.93	0.00	NO
A0000363	0	0.17994E-13	480912.1	3639314.5	55.6	0.00	83.01	30.00	-32.66	0.00	NO
A0000364	0	0.17994E-13	480978.2	3639357.6	58.0	0.00	74.83	30.00	-16.70	0.00	NO
A0000365	0	0.17994E-13	481047.0	3639378.5	59.5	0.00	91.82	30.00	-5.60	0.00	NO
A0000366	0	0.17994E-13	481137.2	3639387.4	61.6	0.00	161.29	30.00	-0.96	0.00	NO
A0000367	0	0.17994E-13	481298.5	3639390.1	64.3	0.00	161.29	30.00	-0.96	0.00	NO
A0000368	0	0.17994E-13	481462.4	3639393.1	69.4	0.00	82.23	30.00	-11.31	0.00	NO
A0000369	0	0.17994E-13	481546.4	3639410.3	70.8	0.00	98.62	30.00	-24.70	0.00	NO
A0000370	0	0.17994E-13	481638.3	3639452.8	75.9	0.00	135.20	30.00	-34.74	0.00	NO
A0000371	0	0.17994E-13	481751.7	3639531.8	83.0	0.00	57.03	30.00	-46.27	0.00	NO
A0000372	0	0.17994E-13	481792.5	3639574.7	85.1	0.00	232.68	30.00	-54.72	0.00	NO
A0000373	0	0.17994E-13	481926.9	3639764.7	92.1	0.00	232.68	30.00	-54.72	0.00	NO
A0000374	0	0.17994E-13	482061.2	3639954.6	100.4	0.00	160.60	30.00	-54.54	0.00	NO
A0000375	0	0.17994E-13	482152.4	3640083.1	105.7	0.00	73.53	30.00	-43.03	0.00	NO
A0000376	0	0.17994E-13	482205.7	3640132.9	108.3	0.00	118.17	30.00	-40.70	0.00	NO
A0000377	0	0.11732E-13	482279.4	3640245.1	111.2	0.00	86.50	20.00	-140.04	0.00	NO
A0000378	0	0.11732E-13	482209.8	3640302.5	108.6	0.00	154.70	20.00	-161.77	0.00	NO
A0000379	0	0.11732E-13	482062.9	3640350.9	100.5	0.00	154.70	20.00	-161.77	0.00	NO
A0000380	0	0.38876E-14	482288.9	3640207.9	111.0	0.00	81.08	20.00	61.99	0.00	NO
A0000381	0	0.38876E-14	482326.4	3640137.6	108.9	0.00	56.87	20.00	69.62	0.00	NO
A0000382	0	0.38876E-14	482345.6	3640087.7	106.4	0.00	86.82	20.00	90.00	0.00	NO
A0000383	0	0.38876E-14	482345.7	3640002.5	99.9	0.00	57.09	20.00	99.21	0.00	NO
A0000384	0	0.38876E-14	482337.0	3639947.7	95.4	0.00	72.25	20.00	108.44	0.00	NO
A0000385	0	0.38876E-14	482315.0	3639881.0	89.7	0.00	12.28	20.00	119.75	0.00	NO
A0000386	0	0.30944E-13	482304.1	3640222.3	111.4	0.00	299.96	30.00	-39.02	0.00	NO
A0000387	0	0.30944E-13	482536.6	3640410.7	115.7	0.00	224.12	30.00	-36.25	0.00	NO
A0000388	0	0.30944E-13	482717.3	3640543.2	117.2	0.00	224.12	30.00	-36.25	0.00	NO
A0000389	0	0.30944E-13	482898.1	3640675.7	115.8	0.00	224.12	30.00	-36.25	0.00	NO
A0000390	0	0.30944E-13	483077.5	3640807.4	116.4	0.00	75.76	30.00	-30.17	0.00	NO
A0000391	0	0.30944E-13	483141.7	3640844.8	115.9	0.00	62.02	30.00	-24.68	0.00	NO
A0000392	0	0.30944E-13	483195.4	3640869.8	116.4	0.00	250.84	30.00	-13.70	0.00	NO
A0000393	0	0.42348E-13	483430.9	3640925.7	120.0	0.00	39.08	20.00	80.27	0.00	NO
A0000394	0	0.42348E-13	483437.4	3640888.3	120.9	0.00	19.84	20.00	86.82	0.00	NO
A0000395	0	0.42348E-13	483438.5	3640869.4	120.9	0.00	90.30	20.00	92.09	0.00	NO
A0000396	0	0.42348E-13	483435.2	3640778.8	120.6	0.00	20.91	20.00	90.00	0.00	NO
A0000397	0	0.42348E-13	483435.3	3640756.4	120.2	0.00	28.95	20.00	81.25	0.00	NO

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
A0000398	0	0.42348E-13	483440.2	3640725.8	120.0	0.00	34.13	20.00	69.23	0.00	NO	
A0000399	0	0.42348E-13	483453.7	3640691.3	119.4	0.00	29.05	20.00	52.70	0.00	NO	
A0000400	0	0.42348E-13	483473.1	3640666.4	118.7	0.00	53.28	20.00	38.29	0.00	NO	
A0000401	0	0.42348E-13	483517.8	3640631.8	119.0	0.00	26.80	20.00	19.18	0.00	NO	
A0000402	0	0.42348E-13	483544.6	3640622.6	118.2	0.00	54.83	20.00	10.41	0.00	NO	
A0000403	0	0.42348E-13	483599.8	3640612.6	117.8	0.00	110.18	20.00	2.86	0.00	NO	
A0000404	0	0.42348E-13	483712.1	3640607.2	118.6	0.00	25.69	20.00	-9.87	0.00	NO	
A0000405	0	0.42348E-13	483737.7	3640611.7	118.0	0.00	28.06	20.00	-11.31	0.00	NO	
A0000406	0	0.42348E-13	483769.7	3640619.3	117.3	0.00	165.56	20.00	-40.15	0.00	NO	
A0000407	0	0.42348E-13	483895.8	3640725.8	112.3	0.00	34.55	20.00	-37.24	0.00	NO	
A0000408	0	0.42348E-13	483919.9	3640745.0	111.9	0.00	45.65	20.00	-15.38	0.00	NO	
A0000409	0	0.42348E-13	483963.9	3640757.1	111.2	0.00	29.63	20.00	-15.07	0.00	NO	
A0000410	0	0.15262E-13	483441.5	3640930.3	120.0	0.00	275.92	30.00	-11.15	0.00	NO	
A0000411	0	0.15262E-13	483712.2	3640983.7	124.9	0.00	275.92	30.00	-11.15	0.00	NO	
A0000412	0	0.57898E-13	483968.5	3641036.4	123.2	0.00	137.89	30.00	81.74	0.00	NO	
A0000413	0	0.57898E-13	483988.1	3640901.3	118.8	0.00	124.53	30.00	86.96	0.00	NO	
A0000414	0	0.30685E-13	484025.2	3640773.8	111.6	0.00	90.25	10.00	-0.70	0.00	NO	
A0000415	0	0.30685E-13	484116.9	3640775.2	115.0	0.00	59.51	10.00	-17.76	0.00	NO	
A0000416	0	0.30685E-13	484173.6	3640793.3	119.7	0.00	59.51	10.00	-17.76	0.00	NO	
A0000417	0	0.30685E-13	484229.0	3640811.3	122.0	0.00	40.78	10.00	-3.09	0.00	NO	
A0000418	0	0.30685E-13	484269.7	3640813.5	122.9	0.00	20.94	10.00	-3.01	0.00	NO	
A0000419	0	0.30685E-13	484290.3	3640814.6	123.0	0.00	84.38	10.00	0.75	0.00	NO	
A0000420	0	0.30685E-13	484374.6	3640813.5	122.3	0.00	84.38	10.00	0.75	0.00	NO	
A0000421	0	0.30685E-13	484459.0	3640812.4	121.8	0.00	84.38	10.00	0.75	0.00	NO	
A0000422	0	0.30685E-13	484543.4	3640811.3	121.0	0.00	84.38	10.00	0.75	0.00	NO	
A0000423	0	0.30685E-13	484627.7	3640810.2	120.7	0.00	84.38	10.00	0.75	0.00	NO	
A0000424	0	0.30685E-13	484712.1	3640809.1	122.2	0.00	84.38	10.00	0.75	0.00	NO	
A0000425	0	0.30685E-13	484796.9	3640808.0	123.8	0.00	50.73	10.00	-3.73	0.00	NO	
A0000426	0	0.30685E-13	484849.3	3640811.7	123.5	0.00	47.27	10.00	-24.77	0.00	NO	
A0000427	0	0.30685E-13	484892.2	3640831.5	123.2	0.00	54.65	10.00	-25.02	0.00	NO	
A0000428	0	0.30685E-13	484942.9	3640855.4	122.7	0.00	50.73	10.00	-40.60	0.00	NO	
A0000429	0	0.30685E-13	484980.2	3640887.6	123.8	0.00	53.19	10.00	-24.44	0.00	NO	
A0000430	0	0.30685E-13	485027.7	3640909.3	123.6	0.00	46.44	10.00	-13.71	0.00	NO	
A0000431	0	0.30685E-13	485072.7	3640920.3	122.6	0.00	32.59	10.00	-11.69	0.00	NO	
A0000432	0	0.30685E-13	485105.6	3640927.2	121.9	0.00	99.78	10.00	-23.74	0.00	NO	
A0000433	0	0.30685E-13	485196.9	3640967.4	120.1	0.00	99.78	10.00	-23.74	0.00	NO	
A0000434	0	0.30685E-13	485288.4	3641007.6	118.7	0.00	36.43	10.00	-25.02	0.00	NO	
A0000435	0	0.30685E-13	485318.8	3641022.6	119.0	0.00	39.75	10.00	4.76	0.00	NO	
A0000436	0	0.30685E-13	485357.9	3641019.3	119.1	0.00	44.89	10.00	11.31	0.00	NO	
A0000437	0	0.30685E-13	485400.4	3641011.1	118.8	0.00	72.48	10.00	30.07	0.00	NO	

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
A0000438	0	0.30685E-13	485463.7	3640974.5	118.9	0.00	40.46	10.00	22.38	0.00	NO	
A0000439	0	0.30685E-13	485502.5	3640958.7	118.9	0.00	52.01	10.00	6.07	0.00	NO	
A0000440	0	0.33343E-13	483980.8	3641038.1	123.2	0.00	258.77	30.00	-11.41	0.00	NO	
A0000441	0	0.33343E-13	484234.4	3641089.3	125.2	0.00	258.77	30.00	-11.41	0.00	NO	
A0000442	0	0.33343E-13	484488.1	3641140.5	125.4	0.00	258.77	30.00	-11.41	0.00	NO	

A0000443	0	0.33343E-13	484741.7	3641191.7	125.4	0.00	258.77	30.00	-11.41	0.00	NO
A0000444	0	0.33343E-13	484995.3	3641242.8	125.1	0.00	232.22	30.00	-11.20	0.00	NO
A0000445	0	0.33343E-13	485223.9	3641288.1	126.4	0.00	112.37	30.00	-14.17	0.00	NO
A0000446	0	0.33343E-13	485334.3	3641316.1	127.3	0.00	80.76	30.00	-19.92	0.00	NO
A0000447	0	0.33343E-13	485412.3	3641344.5	128.4	0.00	52.70	30.00	-28.71	0.00	NO
A0000448	0	0.10432E-13	483989.5	3641070.9	123.2	0.00	181.12	30.00	-97.42	0.00	NO
A0000449	0	0.10432E-13	483966.0	3641251.5	116.0	0.00	77.23	30.00	-101.17	0.00	NO
A0000450	0	0.10432E-13	483950.5	3641329.2	110.5	0.00	89.93	30.00	-108.81	0.00	NO
A0000451	0	0.15219E-13	485447.6	3641399.8	127.1	0.00	54.07	10.00	-120.11	0.00	NO
A0000452	0	0.15219E-13	485420.8	3641445.9	127.6	0.00	43.25	10.00	-111.57	0.00	NO
A0000453	0	0.15219E-13	485405.2	3641484.7	127.8	0.00	24.39	10.00	-94.40	0.00	NO
A0000454	0	0.15219E-13	485403.4	3641508.6	127.7	0.00	91.36	10.00	-89.80	0.00	NO
A0000455	0	0.15219E-13	485403.7	3641600.0	127.6	0.00	91.36	10.00	-89.80	0.00	NO
A0000456	0	0.15219E-13	485404.0	3641691.4	127.6	0.00	91.36	10.00	-89.80	0.00	NO
A0000457	0	0.15219E-13	485404.3	3641783.6	127.9	0.00	55.06	10.00	-99.78	0.00	NO
A0000458	0	0.15219E-13	485394.8	3641838.3	128.5	0.00	64.90	10.00	-105.04	0.00	NO
A0000459	0	0.15219E-13	485378.1	3641900.4	129.2	0.00	63.37	10.00	-98.49	0.00	NO
A0000460	0	0.15219E-13	485368.8	3641962.7	129.5	0.00	39.39	10.00	-94.09	0.00	NO
A0000461	0	0.28560E-13	485460.3	3641372.3	127.4	0.00	184.17	30.00	-30.86	0.00	NO
A0000462	0	0.28560E-13	485616.6	3641465.8	128.9	0.00	70.02	30.00	-22.80	0.00	NO
A0000463	0	0.28560E-13	485680.0	3641492.5	129.4	0.00	62.12	30.00	-18.43	0.00	NO
A0000464	0	0.28560E-13	485737.2	3641511.7	129.7	0.00	159.88	30.00	-11.47	0.00	NO
A0000465	0	0.28560E-13	485893.9	3641543.5	128.9	0.00	159.88	30.00	-11.47	0.00	NO
A0000466	0	0.77459E-14	486044.6	3641574.1	129.3	0.00	52.47	10.00	78.69	0.00	NO
A0000467	0	0.77459E-14	486054.9	3641522.4	129.8	0.00	82.13	10.00	75.49	0.00	NO
A0000468	0	0.77459E-14	486075.7	3641442.3	130.4	0.00	52.99	10.00	69.33	0.00	NO
A0000469	0	0.77459E-14	486094.5	3641392.4	130.7	0.00	53.97	10.00	64.32	0.00	NO
A0000470	0	0.77459E-14	486118.2	3641343.2	130.5	0.00	48.79	10.00	57.53	0.00	NO
A0000471	0	0.77459E-14	486144.9	3641301.4	130.2	0.00	96.80	10.00	48.92	0.00	NO
A0000472	0	0.77459E-14	486209.0	3641227.9	127.8	0.00	69.71	10.00	40.10	0.00	NO
A0000473	0	0.77459E-14	486262.8	3641182.7	127.8	0.00	45.92	10.00	33.37	0.00	NO
A0000474	0	0.77459E-14	486301.8	3641157.1	130.0	0.00	72.00	10.00	24.57	0.00	NO
A0000475	0	0.77459E-14	486367.7	3641127.0	132.4	0.00	32.85	10.00	19.98	0.00	NO
A0000476	0	0.25647E-13	486049.9	3641577.1	129.4	0.00	123.04	30.00	-8.75	0.00	NO
A0000477	0	0.25647E-13	486168.7	3641595.6	130.8	0.00	27.14	30.00	1.97	0.00	NO

*** AREA SOURCE DATA ***

SOURCE ID	PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE
A0000478	0	0.25647E-13	486196.8	3641594.7	131.2	0.00	282.63	30.00	-1.71	0.00	NO
A0000479	0	0.25647E-13	486479.3	3641603.1	132.4	0.00	282.63	30.00	-1.71	0.00	NO
A0000480	0	0.25647E-13	486761.8	3641611.5	132.7	0.00	282.63	30.00	-1.71	0.00	NO
A0000481	0	0.15489E-13	487043.5	3641614.1	134.3	0.00	62.74	10.00	87.44	0.00	NO
A0000482	0	0.15489E-13	487046.4	3641552.5	134.7	0.00	74.89	10.00	99.34	0.00	NO
A0000483	0	0.15489E-13	487034.4	3641479.4	134.2	0.00	65.08	10.00	108.44	0.00	NO
A0000484	0	0.15489E-13	487014.0	3641417.9	133.8	0.00	71.74	10.00	112.22	0.00	NO
A0000485	0	0.15489E-13	486987.3	3641352.4	133.3	0.00	55.26	10.00	123.96	0.00	NO
A0000486	0	0.15489E-13	486956.7	3641306.9	132.9	0.00	71.15	10.00	129.13	0.00	NO
A0000487	0	0.15489E-13	486912.4	3641252.4	133.0	0.00	82.19	10.00	138.69	0.00	NO
A0000488	0	0.15489E-13	486851.2	3641198.5	133.4	0.00	51.37	10.00	146.89	0.00	NO
A0000489	0	0.15489E-13	486808.5	3641170.6	133.8	0.00	48.16	10.00	150.94	0.00	NO
A0000490	0	0.15489E-13	486767.0	3641147.6	134.1	0.00	73.14	10.00	159.01	0.00	NO
A0000491	0	0.15489E-13	486699.3	3641121.5	134.6	0.00	64.66	10.00	165.76	0.00	NO
A0000492	0	0.15489E-13	486637.3	3641105.8	134.1	0.00	65.91	10.00	173.48	0.00	NO
A0000493	0	0.15489E-13	486572.4	3641098.3	133.8	0.00	58.00	10.00	180.00	0.00	NO
A0000494	0	0.15489E-13	486515.4	3641098.2	133.5	0.00	52.66	10.00	-167.69	0.00	NO
A0000495	0	0.15489E-13	486464.0	3641109.4	133.1	0.00	30.64	10.00	-167.66	0.00	NO
A0000496	0	0.18005E-13	487046.6	3641620.9	134.2	0.00	164.43	30.00	-0.23	0.00	NO
A0000497	0	0.18005E-13	487211.0	3641621.5	136.1	0.00	164.43	30.00	-0.23	0.00	NO
A0000498	0	0.18005E-13	487379.5	3641622.8	138.4	0.00	86.08	30.00	-15.71	0.00	NO
A0000499	0	0.18005E-13	487464.7	3641646.9	139.3	0.00	54.44	30.00	-25.35	0.00	NO
A0000500	0	0.18005E-13	487517.5	3641672.7	139.8	0.00	262.20	30.00	-42.00	0.00	NO
A0000501	0	0.18005E-13	487712.4	3641848.1	138.6	0.00	262.20	30.00	-42.00	0.00	NO
A0000502	0	0.18005E-13	487905.5	3642022.2	142.1	0.00	70.02	30.00	-33.69	0.00	NO
A0000503	0	0.18005E-13	487960.2	3642059.3	142.8	0.00	61.41	30.00	-18.43	0.00	NO
A0000504	0	0.18005E-13	488016.2	3642078.1	143.8	0.00	72.16	30.00	-9.29	0.00	NO
A0000505	0	0.18005E-13	488085.4	3642089.6	144.7	0.00	91.96	30.00	-1.61	0.00	NO
A0000506	0	0.18005E-13	488177.1	3642092.2	145.8	0.00	275.39	30.00	-0.99	0.00	NO
A0000507	0	0.18005E-13	488452.5	3642096.9	149.8	0.00	275.39	30.00	-0.99	0.00	NO
A0000508	0	0.18005E-13	488727.8	3642101.7	153.3	0.00	275.39	30.00	-0.99	0.00	NO
A0000509	0	0.18005E-13	489000.8	3642106.6	155.1	0.00	147.77	30.00	8.06	0.00	NO
A0000510	0	0.15325E-13	486955.7	3640823.9	135.3	0.00	78.09	10.00	177.39	0.00	NO
A0000511	0	0.15325E-13	486877.7	3640820.4	135.7	0.00	78.09	10.00	177.39	0.00	NO
A0000512	0	0.15325E-13	486799.7	3640816.8	135.4	0.00	78.09	10.00	177.39	0.00	NO
A0000513	0	0.15325E-13	486721.7	3640813.2	134.8	0.00	78.09	10.00	177.39	0.00	NO
A0000514	0	0.15325E-13	486643.9	3640809.7	134.3	0.00	81.31	10.00	179.63	0.00	NO
A0000515	0	0.15325E-13	486562.5	3640809.2	133.9	0.00	81.31	10.00	179.63	0.00	NO
A0000516	0	0.15325E-13	486481.2	3640808.6	133.6	0.00	81.31	10.00	179.63	0.00	NO
A0000517	0	0.15325E-13	486399.9	3640808.1	132.0	0.00	81.31	10.00	179.63	0.00	NO

*** AREA SOURCE DATA ***

SOURCE ID	PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE
A0000518	0	0.15325E-13	486318.6	3640807.6	131.8	0.00	81.31	10.00	179.63	0.00	NO
A0000519	0	0.15325E-13	486237.3	3640807.1	130.4	0.00	89.66	10.00	179.59	0.00	NO
A0000520	0	0.15325E-13	486147.6	3640806.4	129.8	0.00	89.66	10.00	179.59	0.00	NO
A0000521	0	0.15325E-13	486058.0	3640805.8	129.2	0.00	89.66	10.00	179.59	0.00	NO
A0000522	0	0.15325E-13	485968.3	3640805.1	128.8	0.00	89.66	10.00	179.59	0.00	NO
A0000523	0	0.15325E-13	485878.8	3640804.5	128.8	0.00	76.83	10.00	-179.36	0.00	NO
A0000524	0	0.15325E-13	485801.9	3640805.4	128.4	0.00	76.83	10.00	-179.36	0.00	NO
A0000525	0	0.15325E-13	485725.1	3640806.2	128.0	0.00	76.83	10.00	-179.36	0.00	NO
A0000526	0	0.15325E-13	485648.9	3640807.0	127.4	0.00	18.31	10.00	-171.87	0.00	NO
A0000527	0	0.15325E-13	485631.7	3640809.4	127.2	0.00	32.76	10.00	-161.56	0.00	NO
A0000528	0	0.15325E-13	485601.5	3640819.4	126.4	0.00	95.72	10.00	-149.97	0.00	NO

A0000529	0	0.76916E-14	484028.3	3640031.5	94.0	0.00	65.67	10.00	162.41	0.00	NO
A0000530	0	0.76916E-14	483965.8	3640011.7	97.0	0.00	57.82	10.00	163.64	0.00	NO
A0000531	0	0.76916E-14	483909.8	3639995.2	101.0	0.00	27.13	10.00	156.80	0.00	NO
A0000532	0	0.76916E-14	483884.5	3639984.3	103.1	0.00	20.03	10.00	152.78	0.00	NO
A0000533	0	0.76916E-14	483865.8	3639974.6	104.8	0.00	14.47	10.00	140.71	0.00	NO
A0000534	0	0.76916E-14	483854.2	3639965.0	106.0	0.00	22.32	10.00	133.15	0.00	NO
A0000535	0	0.76916E-14	483839.2	3639949.0	107.7	0.00	12.98	10.00	138.18	0.00	NO
A0000536	0	0.76916E-14	483828.2	3639938.4	108.9	0.00	43.96	10.00	110.32	0.00	NO
A0000537	0	0.76916E-14	483812.6	3639896.1	112.3	0.00	10.80	10.00	98.13	0.00	NO
A0000538	0	0.76916E-14	483811.1	3639884.9	113.2	0.00	91.14	10.00	91.60	0.00	NO
A0000539	0	0.76916E-14	483808.5	3639793.5	117.8	0.00	74.57	10.00	89.22	0.00	NO
A0000540	0	0.76916E-14	483809.5	3639719.0	118.6	0.00	74.57	10.00	89.22	0.00	NO
A0000541	0	0.76916E-14	483810.7	3639643.2	119.2	0.00	41.40	10.00	74.71	0.00	NO
A0000542	0	0.76916E-14	483822.4	3639601.7	119.4	0.00	27.11	10.00	55.71	0.00	NO
A0000543	0	0.76916E-14	483837.8	3639579.1	118.5	0.00	8.35	10.00	52.43	0.00	NO
A0000544	0	0.76916E-14	483843.8	3639571.6	118.0	0.00	21.78	10.00	37.41	0.00	NO
A0000545	0	0.76916E-14	483861.8	3639557.9	116.9	0.00	33.92	10.00	27.72	0.00	NO
A0000546	0	0.76916E-14	483892.6	3639541.8	114.3	0.00	28.33	10.00	17.78	0.00	NO
A0000547	0	0.76916E-14	483920.9	3639532.9	112.0	0.00	19.88	10.00	2.94	0.00	NO
A0000548	0	0.76916E-14	483941.8	3639531.9	110.4	0.00	29.37	10.00	-8.97	0.00	NO
A0000549	0	0.76916E-14	483971.8	3639536.8	108.0	0.00	51.05	10.00	-20.42	0.00	NO
A0000550	0	0.76916E-14	484019.7	3639554.6	103.9	0.00	84.97	10.00	-21.80	0.00	NO
A0000551	0	0.76916E-14	484098.8	3639586.3	97.2	0.00	28.01	10.00	-24.70	0.00	NO
A0000552	0	0.76916E-14	484123.1	3639597.6	94.8	0.00	19.67	10.00	-10.44	0.00	NO
A0000553	0	0.76916E-14	484141.5	3639601.1	93.4	0.00	76.35	10.00	0.00	0.00	NO
A0000554	0	0.76916E-14	484218.6	3639601.1	88.0	0.00	77.16	10.00	-8.34	0.00	NO

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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREA1	0	0.59685E-08	484076.2	3640217.6	95.1	0.00	126	0.00	NO	

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc ***
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*** AERMET - VERSION 14134 *** *** *** 10:12:43
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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs
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ALL A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 ,

A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 ,

A0000017 , A0000018 , A0000019 , A0000020 , A0000042 , A0000043 , A0000044 , A0000045 ,

A0000046 , A0000047 , A0000048 , A0000049 , A0000050 , A0000051 , A0000031 , A0000032 ,

A0000033 , A0000034 , A0000035 , A0000036 , A0000037 , A0000038 , A0000039 , A0000040 ,

A0000041 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 , A0000057 , A0000058 ,

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A0000143 , A0000144 , A0000096 , A0000097 , A0000098 , A0000099 , A0000100 , A0000101 ,

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A0000126 , A0000145 , A0000146 , A0000147 , A0000148 , A0000149 , A0000150 , A0000151 ,

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*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc ***
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*** AERMET - VERSION 14134 *** *** *** 10:12:43
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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs
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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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A0000510 , A0000511 , A0000512 , A0000513 , A0000514 , A0000515 , A0000516 , A0000517 ,

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

A0000518 , A0000519 , A0000520 , A0000521 , A0000522 , A0000523 , A0000524 , A0000525 ,

A0000526 , A0000527 , A0000528 , A0000529 , A0000530 , A0000531 , A0000532 , A0000533 ,

A0000534 , A0000535 , A0000536 , A0000537 , A0000538 , A0000539 , A0000540 , A0000541 ,

A0000542 , A0000543 , A0000544 , A0000545 , A0000546 , A0000547 , A0000548 , A0000549 ,

A0000550 , A0000551 , A0000552 , A0000553 , A0000554 , PAREA1 ,

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

479500.0, 479750.0, 480000.0, 480250.0, 480500.0, 480750.0, 481000.0, 481250.0, 481500.0, 481750.0,
482000.0, 482250.0, 482500.0, 482750.0, 483000.0, 483250.0, 483500.0, 483750.0, 484000.0, 484250.0,
484500.0, 484750.0, 485000.0, 485250.0, 485500.0, 485750.0, 486000.0, 486250.0, 486500.0, 486750.0,
487000.0, 487250.0, 487500.0, 487750.0, 488000.0, 488250.0, 488500.0, 488750.0, 489000.0, 489250.0,

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

3636075.0, 3636325.0, 3636575.0, 3636825.0, 3637075.0, 3637325.0, 3637575.0, 3637825.0, 3638075.0, 3638325.0,
3638575.0, 3638825.0, 3639075.0, 3639325.0, 3639575.0, 3639825.0, 3640075.0, 3640325.0, 3640575.0, 3640825.0,
3641075.0, 3641325.0, 3641575.0, 3641825.0, 3642075.0, 3642325.0,

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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
(METERS)	479500.00	479750.00	480000.00	480250.00	480500.00	480750.00	481000.00	481250.00	481500.00
3642325.00	97.80	99.70	109.00	111.90	119.00	68.10	53.30	22.40	19.30
3642075.00	111.30	107.90	91.10	66.60	77.30	73.40	29.10	17.70	27.70
3641825.00	85.00	116.70	104.20	111.80	86.60	15.60	19.00	40.60	85.30
3641575.00	93.10	111.90	58.50	68.90	50.50	14.50	53.80	90.70	105.90
3641325.00	51.00	106.60	42.40	13.50	13.90	14.50	57.80	76.70	68.10
3641075.00	41.40	37.50	12.20	13.70	14.20	20.00	41.20	44.10	32.20
3640825.00	9.60	13.00	14.20	36.00	76.80	38.20	45.10	97.10	100.90
3640575.00	13.70	14.60	57.30	91.60	111.70	51.60	78.30	103.90	103.90
3640325.00	39.40	67.20	100.00	105.40	113.80	93.10	97.30	106.90	91.70
3640075.00	19.30	43.60	66.20	118.00	115.20	93.60	83.60	84.70	88.30
3639825.00	14.40	30.30	49.40	72.40	108.10	86.30	82.80	85.40	96.50
3639575.00	20.90	18.50	35.40	55.40	70.80	62.50	73.30	75.90	91.60
3639325.00	33.60	20.30	18.60	36.70	43.40	51.10	58.60	56.40	53.70
3639075.00	92.40	44.20	78.90	23.20	27.50	52.10	41.70	47.10	34.30
3638825.00	67.20	105.80	105.80	113.90	32.50	28.30	40.40	79.10	76.30
3638575.00	52.20	100.20	111.00	116.20	106.60	81.10	79.60	105.00	84.50
3638325.00	86.50	79.20	110.70	120.20	127.80	119.30	104.10	116.70	110.10
3638075.00	109.90	107.00	105.90	119.00	128.90	121.20	117.60	106.60	104.80
3637825.00	105.40	108.20	112.60	119.40	123.10	116.10	114.30	97.40	108.60
3637575.00	102.60	108.40	110.70	121.70	121.50	111.70	111.70	100.50	115.30
3637325.00	109.90	108.40	111.70	116.70	118.00	106.70	100.90	92.90	104.00
3637075.00	105.80	105.30	111.40	116.40	116.70	102.80	98.90	106.70	112.80
3636825.00	103.30	110.40	111.70	113.90	107.30	94.30	98.10	97.20	110.70
3636575.00	103.00	105.30	104.00	106.80	85.30	88.50	93.50	96.40	107.10
3636325.00	106.80	96.30	96.00	100.20	87.50	86.30	88.30	95.10	105.60
3636075.00	97.00	91.30	85.50	89.40	64.50	64.50	66.40	68.80	68.70

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 22
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
(METERS)	481750.00	482000.00	482250.00	482500.00	482750.00	483000.00	483250.00	483500.00	483750.00
3642325.00	21.20	29.40	22.40	66.60	85.80	116.70	117.20	122.90	127.10
3642075.00	42.30	55.80	104.50	114.10	109.40	82.90	109.80	121.00	99.20
3641825.00	110.00	111.60	111.20	70.00	67.60	107.60	98.10	85.10	63.30
3641575.00	82.30	69.00	72.40	51.70	46.60	51.30	73.20	105.70	106.70
3641325.00	48.00	36.20	72.90	92.90	102.00	101.60	92.20	115.10	108.40
3641075.00	36.80	96.50	97.30	105.60	107.90	108.20	112.20	117.10	119.80
3640825.00	86.90	98.10	108.80	112.10	113.90	115.90	115.80	121.50	124.90
3640575.00	100.50	100.50	106.70	114.00	117.10	111.00	105.50	118.00	110.50
3640325.00	95.80	101.80	109.40	115.70	108.90	106.80	103.60	111.70	101.50
3640075.00	95.80	104.50	106.20	100.30	110.20	70.50	99.50	81.50	70.60
3639825.00	99.10	93.50	91.60	92.80	100.00	61.80	68.90	76.30	117.80
3639575.00	82.80	82.50	67.10	59.50	65.70	55.10	86.00	88.20	119.80
3639325.00	64.50	47.30	45.30	56.70	52.80	63.50	58.50	71.80	85.70
3639075.00	39.40	63.70	89.00	97.90	88.40	99.40	99.70	100.20	75.20
3638825.00	97.60	59.80	73.30	84.10	104.60	110.30	115.40	104.10	108.50
3638575.00	98.70	86.20	84.20	112.70	63.50	83.70	87.90	107.20	112.90
3638325.00	111.40	115.00	103.10	70.40	107.90	108.60	117.70	99.40	107.00
3638075.00	100.30	116.50	117.40	99.30	99.70	116.50	122.10	121.80	108.30
3637825.00	118.30	114.80	119.30	119.20	117.40	121.90	124.70	123.60	124.10
3637575.00	118.50	116.80	104.30	119.80	120.20	121.50	123.00	122.50	117.90
3637325.00	118.20	110.90	106.30	117.10	116.60	120.60	121.60	112.60	118.80
3637075.00	110.80	116.90	118.80	119.30	117.40	113.10	110.80	100.40	94.40
3636825.00	113.10	111.00	115.60	107.40	105.80	94.50	84.40	102.70	111.40
3636575.00	118.10	104.90	103.70	99.60	80.80	99.00	117.00	115.40	120.00
3636325.00	105.90	84.30	90.00	77.20	101.50	96.10	113.90	117.50	120.20
3636075.00	70.40	96.00	105.00	88.50	115.10	116.40	117.10	117.20	118.20

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 23
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
(METERS)	484000.00	484250.00	484500.00	484750.00	485000.00	485250.00	485500.00	485750.00	486000.00
3642325.00	111.90	93.60	78.40	101.00	124.00	127.50	128.60	127.60	130.10
3642075.00	69.30	76.50	121.80	124.20	126.00	128.00	128.80	124.00	129.20
3641825.00	91.90	123.10	109.20	122.90	121.40	128.40	129.50	126.60	130.50
3641575.00	122.10	124.80	100.30	122.90	126.20	127.50	128.60	129.70	129.00
3641325.00	122.10	124.70	124.70	124.80	125.20	125.40	127.00	128.00	130.60
3641075.00	123.60	123.50	124.50	124.00	128.00	124.30	122.40	122.40	126.60
3640825.00	114.30	122.60	121.20	123.30	123.40	122.60	123.70	128.60	128.90
3640575.00	104.80	120.10	121.80	120.70	100.20	123.90	123.60	128.30	128.70
3640325.00	87.80	83.40	88.40	119.30	122.20	122.50	127.60	128.40	112.80
3640075.00	95.20	99.90	103.00	108.50	125.30	127.00	128.10	126.30	81.70
3639825.00	110.40	95.00	109.90	74.10	97.70	119.30	83.60	104.60	102.40
3639575.00	110.80	94.30	90.80	69.30	77.00	89.10	86.00	120.00	126.80
3639325.00	92.00	74.30	68.20	78.50	80.50	84.90	114.50	119.20	123.40
3639075.00	77.00	93.90	103.90	108.00	115.10	125.40	125.60	123.30	125.00
3638825.00	121.30	114.00	111.00	121.10	123.40	127.40	133.20	127.30	130.20

3638575.00	122.60	125.60	122.20	122.20	126.70	128.30	132.60	132.40	134.50
3638325.00	123.20	115.80	119.50	119.70	126.30	129.20	131.60	132.00	132.50
3638075.00	103.40	114.20	121.50	123.90	126.70	126.10	130.00	131.50	129.30
3637825.00	123.80	126.20	128.10	129.00	130.90	131.40	130.10	116.50	115.50
3637575.00	120.80	123.70	124.10	126.20	120.50	105.40	111.80	127.90	134.20
3637325.00	118.10	112.80	98.40	104.50	120.10	126.60	131.90	132.60	134.10
3637075.00	92.90	107.90	117.00	109.70	128.60	128.70	127.30	125.20	133.00
3636825.00	117.90	125.50	126.70	128.20	129.80	129.60	131.30	131.70	134.20
3636575.00	120.60	124.60	133.10	129.30	130.30	130.70	131.90	133.10	133.40
3636325.00	119.80	126.00	129.50	130.80	130.20	129.90	130.70	131.00	130.20
3636075.00	120.40	124.10	131.00	128.90	128.10	129.60	128.30	128.30	132.30

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	486250.00	486500.00	486750.00	487000.00	487250.00	487500.00	487750.00	488000.00	488250.00
3642325.00	133.40	129.40	131.80	132.20	131.20	134.40	137.90	140.90	143.50
3642075.00	133.20	132.90	133.80	133.60	136.10	136.00	141.80	143.80	146.90
3641825.00	132.40	133.20	134.70	134.20	137.50	137.90	140.30	144.80	149.60
3641575.00	132.30	132.20	133.60	133.50	137.00	139.30	143.00	146.10	150.10
3641325.00	131.00	130.10	133.50	133.60	138.40	140.00	142.20	146.20	149.80
3641075.00	131.40	134.00	135.50	135.50	137.50	139.60	142.80	145.80	148.20
3640825.00	131.40	134.20	135.30	135.70	137.50	138.60	142.70	144.30	146.90
3640575.00	131.10	133.70	134.70	135.00	137.50	139.20	135.00	130.70	132.20
3640325.00	114.70	119.70	116.00	121.20	130.70	130.60	117.00	115.70	127.40
3640075.00	91.20	79.30	103.20	94.60	108.70	127.70	116.80	125.30	139.80
3639825.00	104.10	114.90	133.70	134.60	123.50	133.10	140.10	143.70	145.80
3639575.00	132.40	132.50	134.00	134.50	137.20	139.00	141.80	145.50	148.10
3639325.00	132.30	132.10	134.40	135.70	137.70	141.90	144.70	146.80	149.50
3639075.00	127.30	133.10	134.00	134.80	139.00	141.70	142.40	145.90	148.20
3638825.00	134.30	132.90	135.00	136.90	138.10	140.10	142.60	144.70	146.30
3638575.00	135.20	135.90	137.10	137.60	138.80	140.50	141.50	144.20	145.20
3638325.00	133.50	134.80	135.40	136.70	137.20	138.00	140.60	142.00	141.90
3638075.00	131.20	132.50	131.50	126.40	128.50	136.50	137.20	137.20	139.80
3637825.00	122.60	129.20	132.20	132.40	136.00	138.10	140.10	142.20	145.40
3637575.00	135.30	135.30	136.60	138.00	140.60	141.80	142.40	144.00	146.80
3637325.00	135.90	136.70	137.30	138.90	140.40	141.80	143.20	144.40	145.80
3637075.00	135.30	137.10	138.00	139.30	139.90	141.80	143.40	144.80	146.20
3636825.00	135.10	136.80	138.20	139.30	140.00	141.50	142.40	144.50	145.10
3636575.00	133.60	135.50	136.60	136.90	138.80	140.90	142.30	143.20	145.00
3636325.00	131.20	134.20	136.20	137.50	138.00	139.50	141.80	142.10	140.50
3636075.00	133.80	135.00	136.00	133.20	137.20	138.30	138.30	138.60	122.30

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)			
	488500.00	488750.00	489000.00	489250.00
3642325.00	148.20	146.90	157.90	164.30
3642075.00	150.80	154.00	157.30	153.10
3641825.00	153.50	156.70	162.00	165.40
3641575.00	153.20	157.00	163.20	164.90
3641325.00	153.40	157.20	159.30	154.50
3641075.00	151.80	153.90	146.50	158.20
3640825.00	144.90	144.30	141.10	154.20
3640575.00	133.40	144.00	153.80	156.70
3640325.00	131.60	138.40	142.50	146.10
3640075.00	136.10	137.30	145.90	157.30
3639825.00	148.30	148.00	135.00	151.30
3639575.00	150.40	154.70	156.60	151.00
3639325.00	151.30	152.90	157.20	150.60
3639075.00	149.30	152.20	154.40	154.60
3638825.00	147.70	149.60	152.20	152.60
3638575.00	147.90	148.30	150.40	149.30
3638325.00	142.80	144.60	147.80	149.00
3638075.00	140.30	142.40	151.80	148.40
3637825.00	145.80	148.40	149.30	149.90
3637575.00	148.10	149.20	151.10	152.60
3637325.00	147.50	149.40	151.30	153.40
3637075.00	147.40	149.30	150.80	144.50
3636825.00	146.90	142.80	137.90	134.80
3636575.00	131.00	130.10	147.60	149.90
3636325.00	132.60	145.50	146.30	145.10
3636075.00	141.70	143.80	142.40	144.30

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	479500.00	479750.00	480000.00	480250.00	480500.00	480750.00	481000.00	481250.00	481500.00
3642325.00	118.70	118.70	118.00	111.90	119.00	120.30	120.30	120.30	123.60
3642075.00	116.40	120.00	119.20	120.30	120.30	120.30	120.30	120.30	119.60
3641825.00	120.00	116.70	119.20	117.90	118.10	120.30	120.30	111.30	111.20
3641575.00	117.30	116.40	119.50	119.20	119.20	120.30	110.10	90.70	105.90
3641325.00	118.10	106.60	119.20	120.10	120.20	119.90	104.50	104.30	108.80
3641075.00	118.10	119.20	120.00	119.80	119.80	119.10	113.50	108.30	111.00
3640825.00	119.80	119.80	119.80	119.80	115.70	118.30	115.70	100.40	102.50
3640575.00	119.80	119.80	119.80	118.30	111.70	119.80	107.70	103.90	103.90
3640325.00	119.80	119.30	116.80	118.30	113.80	113.80	97.30	106.90	106.00
3640075.00	119.80	119.80	119.80	118.00	115.20	115.90	84.30	84.70	102.90
3639825.00	119.80	119.80	119.80	119.80	113.10	116.20	82.80	97.10	96.50
3639575.00	119.80	119.80	119.80	119.80	117.20	116.90	75.60	94.10	91.60

3639325.00	117.60	126.40	128.80	126.90	126.80	116.00	105.40	93.70	102.70
3639075.00	94.30	119.80	117.60	132.00	132.00	129.50	130.50	117.10	117.50
3638825.00	109.10	106.80	117.50	117.20	132.00	132.00	132.00	108.70	116.20
3638575.00	119.80	109.40	117.80	116.20	128.80	132.00	130.50	106.50	117.50
3638325.00	112.00	119.80	119.80	128.90	127.80	121.50	122.90	116.70	110.10
3638075.00	109.90	107.00	107.10	130.90	128.90	129.40	117.60	116.80	111.80
3637825.00	105.40	108.20	112.60	119.40	123.10	124.50	114.30	116.10	114.00
3637575.00	102.60	108.40	112.10	121.70	123.40	111.70	111.70	100.50	115.70
3637325.00	109.90	108.40	114.40	119.90	118.00	116.50	116.30	116.80	104.00
3637075.00	107.30	105.30	118.20	116.40	116.70	116.30	98.90	106.70	118.20
3636825.00	103.30	110.40	112.50	113.90	107.30	105.30	98.10	106.20	110.90
3636575.00	103.00	109.00	110.60	106.80	113.80	91.70	93.50	96.40	108.50
3636325.00	106.80	108.10	96.00	100.90	101.60	87.00	90.10	95.10	116.90
3636075.00	103.80	106.90	85.50	89.40	109.10	103.40	111.60	117.00	117.50

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 481750.00	482000.00	482250.00	482500.00	482750.00	483000.00	483250.00	483500.00	483750.00
3642325.00	124.70	124.70	124.70	120.80	120.80	116.70	117.20	123.50	127.10
3642075.00	119.60	119.60	119.60	115.60	109.40	127.10	123.70	124.70	127.70
3641825.00	110.00	112.10	116.30	119.60	119.80	115.00	119.60	127.10	127.70
3641575.00	111.00	119.60	119.60	119.60	119.80	127.10	119.80	112.70	119.80
3641325.00	116.30	119.60	105.70	97.20	106.00	101.60	116.20	115.10	116.10
3641075.00	112.70	99.90	97.30	105.60	107.90	117.20	112.70	117.10	125.20
3640825.00	104.60	100.70	108.80	112.10	113.90	115.90	115.80	121.50	126.80
3640575.00	100.50	100.50	110.10	116.80	117.10	111.00	120.70	118.00	120.40
3640325.00	95.80	101.80	109.40	116.20	108.90	106.80	103.60	111.70	115.10
3640075.00	102.70	104.50	108.60	115.00	117.40	117.40	99.50	120.30	124.60
3639825.00	99.10	93.50	91.60	112.70	116.80	120.30	120.40	120.50	117.80
3639575.00	98.20	82.50	104.30	117.40	117.40	120.30	120.30	120.50	119.80
3639325.00	102.70	104.30	104.30	106.30	116.10	115.70	120.50	120.50	120.50
3639075.00	117.00	102.80	101.00	97.90	106.50	99.40	99.70	106.00	128.00
3638825.00	101.40	119.00	116.30	116.50	104.60	110.30	115.90	119.40	108.50
3638575.00	104.10	118.70	118.10	112.70	120.20	119.70	121.00	119.40	122.60
3638325.00	115.10	118.00	118.30	120.20	114.20	119.70	117.70	121.90	122.60
3638075.00	118.80	116.50	117.40	119.20	121.30	120.20	122.10	121.80	124.10
3637825.00	118.30	115.70	119.30	119.20	117.40	121.90	124.70	123.60	124.10
3637575.00	118.50	116.80	120.10	119.80	120.20	121.50	123.00	122.50	123.00
3637325.00	119.20	119.20	117.50	117.10	116.60	120.60	121.60	123.70	118.80
3637075.00	119.20	116.90	118.80	119.30	117.40	121.30	121.60	121.10	121.00
3636825.00	118.00	117.60	115.60	112.80	106.10	116.10	121.60	119.30	119.50
3636575.00	118.10	104.90	116.10	115.40	116.70	116.70	117.00	115.40	120.00
3636325.00	116.10	118.20	114.10	118.50	115.40	116.70	115.20	117.50	120.20
3636075.00	117.90	115.80	118.30	118.50	115.10	116.40	117.10	117.20	118.20

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 484000.00	484250.00	484500.00	484750.00	485000.00	485250.00	485500.00	485750.00	486000.00
3642325.00	127.70	127.60	129.00	125.10	124.00	128.00	128.60	127.60	130.10
3642075.00	127.70	127.70	121.80	124.20	126.00	129.10	128.80	128.20	129.20
3641825.00	126.70	123.10	122.20	128.50	128.00	128.40	129.50	126.60	130.50
3641575.00	122.10	124.80	127.70	125.60	126.20	127.50	128.60	130.60	129.00
3641325.00	122.10	124.70	124.70	124.80	125.20	125.40	128.50	128.00	130.60
3641075.00	124.50	125.80	124.50	126.90	128.00	124.30	125.50	122.40	126.60
3640825.00	119.40	122.60	121.20	123.30	123.40	124.20	123.70	128.60	128.90
3640575.00	126.50	120.10	121.80	122.40	125.60	125.30	126.10	128.30	128.70
3640325.00	124.70	126.50	124.80	122.50	122.20	123.80	127.60	133.00	135.50
3640075.00	124.60	124.60	122.30	128.60	125.30	127.00	128.10	128.20	136.70
3639825.00	110.40	124.60	111.50	128.80	128.80	126.80	133.20	131.10	134.10
3639575.00	110.80	117.00	109.90	128.80	128.80	127.40	131.20	130.60	131.20
3639325.00	116.20	124.20	125.20	126.20	132.50	132.50	114.50	119.20	132.00
3639075.00	128.00	126.80	105.30	108.00	126.20	125.40	125.60	124.40	125.00
3638825.00	121.30	127.80	123.30	124.60	126.60	132.60	133.20	133.20	133.50
3638575.00	122.60	125.60	122.20	124.10	127.40	128.30	132.60	132.40	134.50
3638325.00	123.20	115.80	119.50	121.00	126.30	129.20	131.60	132.00	132.50
3638075.00	125.20	119.10	121.50	124.80	128.20	127.80	130.00	131.50	129.30
3637825.00	123.80	126.20	128.10	129.00	130.90	131.40	130.10	129.10	134.40
3637575.00	123.70	123.70	124.10	126.20	131.00	133.50	133.60	127.90	134.20
3637325.00	118.10	123.40	130.20	130.50	123.20	129.70	131.90	132.60	134.10
3637075.00	127.40	130.20	130.20	130.50	128.60	128.70	127.30	133.30	133.00
3636825.00	117.90	125.50	126.70	128.20	129.80	129.60	131.30	131.70	134.20
3636575.00	120.60	124.60	133.10	129.30	130.30	130.70	131.90	133.10	133.40
3636325.00	119.80	126.00	129.50	130.80	130.20	129.90	130.70	131.00	130.20
3636075.00	120.40	124.10	131.00	128.90	128.10	129.60	128.30	128.30	132.30

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 486250.00	486500.00	486750.00	487000.00	487250.00	487500.00	487750.00	488000.00	488250.00
3642325.00	133.40	133.80	131.80	132.20	131.20	134.40	137.90	140.90	143.50
3642075.00	133.20	132.90	133.80	133.60	136.10	136.00	141.80	145.30	146.90
3641825.00	132.40	133.20	134.70	134.20	137.50	137.90	140.30	144.80	149.60
3641575.00	132.30	132.20	133.60	133.50	137.00	139.30	143.00	146.10	150.10
3641325.00	131.00	134.00	133.50	133.60	138.40	140.00	142.20	146.20	149.80
3641075.00	131.40	134.00	135.50	135.50	137.50	139.60	142.80	145.80	148.20
3640825.00	131.40	134.20	135.30	135.70	137.50	138.60	142.70	144.30	146.90
3640575.00	131.10	133.70	134.70	135.00	137.50	139.20	140.80	141.60	142.50

3640325.00	136.70	136.70	135.00	136.20	134.70	134.30	139.00	147.00	139.60
3640075.00	136.70	136.70	135.50	137.80	137.20	131.10	141.50	147.00	146.30
3639825.00	134.50	134.50	133.70	134.60	138.50	137.70	140.40	143.70	145.80
3639575.00	132.40	132.50	134.00	134.50	137.20	139.00	143.30	145.50	148.10
3639325.00	132.30	132.10	134.40	135.70	137.70	141.90	144.70	146.80	149.50
3639075.00	127.30	133.10	134.00	134.80	139.00	141.70	142.40	145.90	148.20
3638825.00	134.30	132.90	135.00	136.90	138.10	140.10	142.60	144.70	146.30
3638575.00	135.20	135.90	137.10	137.60	138.80	140.50	141.50	144.20	145.20
3638325.00	133.50	135.50	135.40	136.70	137.20	138.00	140.60	142.00	141.90
3638075.00	131.20	132.50	133.20	136.50	136.10	136.50	137.20	137.20	141.20
3637825.00	133.80	129.70	132.20	132.40	136.00	138.10	140.10	144.50	145.40
3637575.00	135.30	135.30	136.60	138.00	140.60	141.80	142.40	144.00	146.80
3637325.00	135.90	136.70	137.30	138.90	140.40	141.80	143.20	144.40	145.80
3637075.00	135.30	137.10	138.00	139.30	139.90	141.80	143.40	144.80	146.20
3636825.00	135.10	136.80	138.20	139.30	140.00	141.50	142.40	144.50	145.10
3636575.00	133.60	135.50	136.60	136.90	138.80	140.90	142.30	143.20	145.00
3636325.00	131.20	134.20	136.20	137.50	138.00	139.50	141.80	142.10	140.50
3636075.00	133.80	135.00	136.00	133.20	137.20	138.30	138.30	138.60	143.00

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 488500.00	488750.00	489000.00	489250.00
3642325.00	150.00	287.80	297.70	299.80
3642075.00	150.80	155.50	287.80	299.80
3641825.00	153.50	158.30	264.70	287.80
3641575.00	153.20	157.00	163.20	266.60
3641325.00	153.40	157.20	160.00	160.20
3641075.00	151.80	153.90	157.00	158.20
3640825.00	144.90	149.20	154.70	158.50
3640575.00	133.40	153.20	153.80	156.70
3640325.00	131.60	147.60	142.50	146.10
3640075.00	146.10	144.70	145.90	157.30
3639825.00	148.30	148.00	159.20	162.10
3639575.00	150.40	154.70	156.60	151.00
3639325.00	151.30	152.90	157.20	157.40
3639075.00	149.30	152.20	154.40	154.60
3638825.00	147.70	149.60	152.20	152.60
3638575.00	147.90	148.30	150.40	149.30
3638325.00	142.80	145.60	147.80	149.00
3638075.00	140.30	151.00	152.80	153.40
3637825.00	145.80	148.40	149.30	149.90
3637575.00	148.10	149.20	151.10	152.60
3637325.00	147.50	149.40	151.30	153.40
3637075.00	147.40	149.30	150.80	151.40
3636825.00	146.90	146.40	149.60	153.40
3636575.00	147.00	147.50	148.50	149.90
3636325.00	144.00	145.50	146.30	145.10
3636075.00	141.70	143.80	142.40	144.30

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

484040.0, 484090.0, 484140.0, 484190.0, 484240.0, 484290.0, 484340.0, 484390.0, 484440.0, 484490.0,
484540.0, 484590.0, 484640.0, 484690.0, 484740.0, 484790.0, 484840.0, 484890.0, 484940.0, 484990.0,
485040.0, 485090.0, 485140.0, 485190.0, 485240.0, 485290.0, 485340.0, 485390.0, 485440.0, 485490.0,
485540.0, 485590.0, 485640.0, 485690.0, 485740.0, 485790.0, 485840.0, 485890.0, 485940.0, 485990.0,
486040.0, 486090.0,

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

3639450.0, 3639500.0, 3639550.0, 3639600.0, 3639650.0, 3639700.0, 3639750.0, 3639800.0, 3639850.0, 3639900.0,
3639950.0, 3640000.0, 3640050.0, 3640100.0, 3640150.0, 3640200.0, 3640250.0, 3640300.0,

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 484040.00	484090.00	484140.00	484190.00	484240.00	484290.00	484340.00	484390.00	484440.00
3640300.00	86.50	78.70	78.60	84.20	91.90	95.00	95.80	95.60	88.40
3640250.00	76.40	79.70	91.70	107.40	116.60	119.50	118.80	114.40	110.90
3640200.00	87.40	104.20	112.00	113.70	112.20	105.00	102.00	91.50	90.50
3640150.00	88.60	105.50	115.80	110.30	101.00	99.10	100.80	98.00	90.00
3640100.00	90.90	106.10	116.10	109.60	98.70	98.10	99.90	98.30	102.50
3640050.00	93.10	103.50	116.70	117.80	97.60	97.30	98.40	108.00	103.70
3640000.00	95.10	99.50	118.20	124.20	97.70	95.90	96.60	106.00	105.00
3639950.00	105.60	95.70	110.90	123.70	96.50	97.90	100.80	100.50	108.40
3639900.00	109.40	97.70	96.20	102.90	93.80	95.00	93.90	97.10	99.90
3639850.00	109.30	109.00	96.90	97.10	94.90	93.60	92.90	92.20	92.80
3639800.00	110.20	109.50	108.40	96.00	96.00	92.60	93.30	92.20	108.20
3639750.00	109.90	109.40	108.70	110.80	94.00	94.70	93.20	91.90	107.00
3639700.00	109.70	109.90	109.40	116.50	96.50	92.20	92.00	94.30	96.90
3639650.00	109.60	108.80	106.50	101.00	96.80	89.50	91.00	101.10	101.50
3639600.00	109.30	98.20	93.50	89.60	87.40	87.30	88.00	91.40	93.70
3639550.00	104.00	108.80	111.10	106.70	103.30	90.80	84.60	91.80	99.20
3639500.00	113.70	113.90	112.80	108.60	107.10	88.70	82.10	95.30	89.20
3639450.00	113.90	114.00	113.50	101.20	105.00	83.40	81.00	89.30	88.40

*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 33
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	484490.00	484540.00	484590.00	484640.00	484690.00	484740.00	484790.00	484840.00	484890.00
3640300.00	99.80	104.80	112.10	117.00	122.60	122.30	121.70	121.70	121.80
3640250.00	95.70	94.80	112.00	121.90	122.50	122.50	122.20	122.80	122.50
3640200.00	110.40	113.90	98.40	111.80	109.70	116.50	122.80	122.90	123.80
3640150.00	88.40	113.00	120.70	104.10	114.50	115.20	117.50	123.00	123.70
3640100.00	91.40	86.60	93.50	121.30	110.90	113.00	121.10	123.90	123.70
3640050.00	105.50	101.50	86.10	86.40	92.60	118.50	113.80	114.40	120.60
3640000.00	110.70	101.20	86.70	86.40	85.50	84.40	87.10	123.70	120.50
3639950.00	113.90	94.70	87.90	87.40	86.00	83.80	82.80	84.00	98.30
3639900.00	112.10	93.40	94.50	93.00	87.70	83.10	85.90	91.20	92.40
3639850.00	109.90	92.60	92.70	92.70	90.70	88.50	82.20	78.90	125.50
3639800.00	107.30	95.20	92.90	89.00	94.70	72.70	71.10	116.80	101.10
3639750.00	106.10	107.80	93.10	94.90	94.20	70.20	72.00	120.10	76.80
3639700.00	95.60	92.90	86.70	94.00	86.20	69.80	86.70	110.00	77.00
3639650.00	102.90	93.10	91.40	93.20	78.60	69.00	117.30	99.60	71.30
3639600.00	95.80	101.00	90.70	90.80	73.90	68.70	107.70	82.50	72.60
3639550.00	90.20	91.10	98.40	86.40	81.20	70.90	76.70	77.70	76.80
3639500.00	94.60	96.10	85.70	85.90	78.30	77.60	76.00	78.50	78.50
3639450.00	87.20	86.40	84.20	80.50	76.10	75.00	78.70	78.80	79.80

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 34
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	484940.00	484990.00	485040.00	485090.00	485140.00	485190.00	485240.00	485290.00	485340.00
3640300.00	122.40	122.70	123.30	122.20	122.90	122.40	123.80	123.30	125.00
3640250.00	124.50	123.80	124.00	123.60	124.30	124.10	123.70	124.10	124.90
3640200.00	124.40	125.10	124.10	124.90	124.40	124.90	124.30	125.70	125.00
3640150.00	124.70	125.00	125.60	124.70	125.30	125.70	125.60	125.90	126.40
3640100.00	124.00	125.50	125.50	125.40	127.10	125.70	125.60	125.90	126.30
3640050.00	124.60	125.00	125.20	127.50	126.90	126.50	126.20	126.70	127.10
3640000.00	117.70	123.20	124.90	125.90	126.50	126.70	126.90	127.00	127.20
3639950.00	117.70	124.60	124.10	125.40	126.10	126.40	126.80	127.00	127.10
3639900.00	122.40	124.80	125.70	125.50	126.10	126.20	126.50	127.00	127.00
3639850.00	103.60	102.50	121.30	126.50	126.30	126.30	125.10	124.80	120.70
3639800.00	95.80	83.40	108.90	124.00	123.30	122.20	115.30	104.10	98.60
3639750.00	76.20	77.20	92.20	103.60	107.60	97.40	93.50	96.20	87.80
3639700.00	75.20	75.40	76.70	81.00	84.40	85.50	84.80	84.10	81.90
3639650.00	72.80	74.40	77.70	82.20	81.00	82.80	86.40	82.50	83.10
3639600.00	79.90	79.70	78.70	80.50	84.70	82.10	91.40	89.30	83.00
3639550.00	76.00	79.60	81.30	81.80	87.60	89.90	82.50	82.80	83.30
3639500.00	78.60	81.80	83.60	82.70	83.00	82.80	82.90	85.10	83.70
3639450.00	81.10	82.00	82.50	82.70	87.90	85.40	85.40	85.50	85.70

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 35
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	485390.00	485440.00	485490.00	485540.00	485590.00	485640.00	485690.00	485740.00	485790.00
3640300.00	124.70	125.10	125.80	127.90	128.80	129.90	130.10	129.50	112.70
3640250.00	124.80	124.80	125.60	128.20	128.80	129.30	130.00	128.60	87.80
3640200.00	124.70	125.40	126.40	128.80	128.60	128.50	129.90	128.50	86.20
3640150.00	126.70	127.20	127.50	128.30	128.40	127.80	130.20	128.90	108.70
3640100.00	126.70	127.10	127.60	127.70	128.30	127.40	126.30	128.60	107.90
3640050.00	127.40	127.80	127.90	127.40	126.70	127.20	120.70	117.40	120.60
3640000.00	127.40	127.80	128.20	127.90	123.80	127.80	122.50	111.80	106.50
3639950.00	127.20	127.30	119.40	126.00	107.90	107.00	96.90	91.40	88.90
3639900.00	118.90	124.10	113.00	104.00	95.00	85.20	85.30	86.20	86.50
3639850.00	109.90	100.70	94.10	83.70	84.20	84.70	87.60	93.70	98.70
3639800.00	92.00	87.80	82.70	82.90	88.50	93.00	99.80	118.60	117.90
3639750.00	84.20	84.40	86.60	87.20	91.50	92.00	103.50	118.70	114.10
3639700.00	85.60	91.10	85.30	88.50	87.00	96.00	103.20	112.40	119.50
3639650.00	83.70	84.10	86.30	85.90	86.30	111.20	118.80	119.60	119.80
3639600.00	84.00	91.80	84.50	85.40	101.50	118.00	119.10	119.70	119.80
3639550.00	83.90	83.30	83.80	91.50	116.30	118.00	119.20	119.90	120.90
3639500.00	88.40	83.60	84.10	105.50	117.70	117.90	119.90	120.50	121.80
3639450.00	84.30	83.80	94.40	114.90	115.00	116.90	118.10	120.30	121.60

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 36
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)					
	485840.00	485890.00	485940.00	485990.00	486040.00	486090.00
3640300.00	112.70	99.20	97.40	97.50	90.70	94.20
3640250.00	87.00	96.80	90.40	83.10	84.40	71.90
3640200.00	80.30	85.20	83.40	82.60	81.90	80.80
3640150.00	101.10	92.60	80.70	82.30	81.60	80.50
3640100.00	96.20	92.10	76.60	81.60	83.60	81.40
3640050.00	112.00	102.50	89.20	84.90	91.80	100.60
3640000.00	102.50	97.00	97.10	91.00	90.80	92.20
3639950.00	88.60	88.30	88.60	95.80	97.30	91.00

3639900.00	91.70	96.70	104.30	99.50	99.10	92.70
3639850.00	108.60	114.00	111.70	102.00	100.10	98.70
3639800.00	117.70	115.80	114.40	104.10	99.50	100.70
3639750.00	113.20	118.30	118.60	118.90	120.00	123.50
3639700.00	125.40	126.70	129.80	130.10	130.70	133.70
3639650.00	129.70	130.40	130.90	131.10	131.20	133.20
3639600.00	130.60	130.40	130.90	128.10	129.70	130.50
3639550.00	126.40	124.50	125.40	126.50	126.50	132.20
3639500.00	122.80	124.40	125.20	125.90	125.90	132.00
3639450.00	122.00	123.90	123.60	124.90	125.00	132.40

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	484040.00	484090.00	484140.00	484190.00	484240.00	484290.00	484340.00	484390.00	484440.00
3640300.00	124.70	126.50	126.50	126.50	124.70	123.20	121.80	122.60	124.80
3640250.00	126.50	126.50	124.60	121.40	121.40	121.10	119.00	118.60	112.40
3640200.00	124.60	121.40	117.00	121.40	121.40	121.40	121.40	124.60	124.60
3640150.00	124.60	124.50	115.80	121.40	124.60	124.60	124.60	124.60	124.60
3640100.00	124.60	124.60	116.10	124.60	124.60	124.60	124.60	124.60	121.60
3640050.00	124.60	124.60	124.50	124.60	124.60	124.60	124.60	111.90	121.60
3640000.00	124.60	124.60	124.60	124.20	124.60	124.60	124.60	111.90	116.10
3639950.00	124.60	124.60	124.60	124.10	124.60	124.60	124.60	124.60	116.10
3639900.00	123.70	124.60	124.60	124.60	124.60	124.60	124.60	124.60	116.10
3639850.00	109.30	124.50	124.60	124.60	124.60	124.60	124.60	124.60	124.60
3639800.00	110.20	109.50	116.40	124.60	124.60	124.60	124.60	124.60	109.60
3639750.00	109.90	116.30	117.00	117.00	124.60	124.60	124.60	124.60	109.20
3639700.00	109.70	109.90	117.00	117.00	124.60	124.60	124.60	117.00	109.90
3639650.00	111.10	108.80	117.00	117.00	117.00	124.60	117.00	102.80	106.40
3639600.00	109.30	117.00	117.00	117.00	124.50	124.10	117.00	117.00	109.90
3639550.00	116.40	116.40	116.40	116.40	116.40	117.00	117.00	117.00	101.20
3639500.00	113.70	113.90	116.40	116.40	116.30	117.00	117.00	95.50	106.40
3639450.00	113.90	114.00	113.50	116.40	116.20	117.00	117.00	116.40	101.30

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	484490.00	484540.00	484590.00	484640.00	484690.00	484740.00	484790.00	484840.00	484890.00
3640300.00	123.20	123.20	123.20	123.20	122.60	122.30	121.70	121.70	121.80
3640250.00	124.20	124.20	123.20	121.90	122.50	122.50	122.20	122.80	122.50
3640200.00	121.20	121.20	125.80	123.20	124.20	124.20	122.80	122.90	123.80
3640150.00	127.80	121.60	120.70	126.30	122.30	123.70	123.80	123.00	123.70
3640100.00	126.30	128.60	128.60	122.30	126.30	126.70	123.50	123.90	123.70
3640050.00	122.30	122.30	128.80	128.80	128.80	126.30	128.60	128.80	128.00
3640000.00	110.70	122.30	128.80	128.80	128.80	128.80	128.80	127.80	128.80
3639950.00	116.10	127.80	128.80	128.80	128.80	128.80	128.80	128.80	128.80
3639900.00	115.00	127.80	128.60	128.80	128.80	128.80	128.80	128.80	128.80
3639850.00	112.70	127.80	128.60	128.80	128.80	128.80	128.80	128.80	127.60
3639800.00	111.50	116.10	128.00	128.80	128.80	128.80	128.80	127.60	128.80
3639750.00	109.90	108.30	127.60	127.80	128.80	128.80	128.80	126.20	128.80
3639700.00	112.70	125.60	128.00	127.60	128.80	128.80	128.80	127.60	128.80
3639650.00	106.40	120.00	127.40	127.60	128.80	128.80	120.00	127.60	128.80
3639600.00	106.40	101.00	126.20	127.60	128.80	128.80	125.20	128.80	128.80
3639550.00	106.40	120.00	119.80	127.60	127.60	128.80	128.80	128.80	128.80
3639500.00	101.20	96.10	126.20	127.40	127.60	128.80	128.80	128.80	128.80
3639450.00	101.60	120.00	125.20	127.40	127.60	127.60	127.60	127.60	127.60

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	484940.00	484990.00	485040.00	485090.00	485140.00	485190.00	485240.00	485290.00	485340.00
3640300.00	122.40	122.70	123.30	122.20	123.70	122.40	123.80	123.30	125.00
3640250.00	124.50	123.80	124.00	123.60	124.30	124.10	123.70	125.90	124.90
3640200.00	124.40	125.10	124.10	124.90	124.40	124.90	124.30	125.70	125.00
3640150.00	124.70	125.00	125.60	124.70	125.30	125.70	125.60	125.90	126.40
3640100.00	124.00	125.50	125.50	125.40	127.10	125.70	125.60	125.90	126.30
3640050.00	124.60	125.00	125.20	127.50	126.90	126.50	126.20	126.70	127.10
3640000.00	128.80	125.60	124.90	127.60	126.50	126.70	126.90	127.00	127.20
3639950.00	128.80	124.60	124.10	125.40	126.10	126.40	126.80	127.00	127.10
3639900.00	128.80	125.90	125.70	125.50	126.10	126.20	126.50	127.00	127.00
3639850.00	128.80	128.80	126.60	126.50	126.30	126.30	125.10	124.80	127.30
3639800.00	128.80	128.80	128.80	124.00	125.10	125.70	127.10	128.70	128.70
3639750.00	128.80	128.80	128.80	127.60	126.80	127.80	128.70	128.70	128.70
3639700.00	128.80	128.80	128.80	128.80	128.80	128.80	128.80	128.80	128.70
3639650.00	128.80	128.80	128.80	128.80	128.80	128.80	128.70	128.70	128.70
3639600.00	128.80	128.80	128.80	128.80	128.80	128.80	127.40	127.50	128.70
3639550.00	128.80	128.80	128.80	128.80	127.60	127.30	127.80	128.70	128.70
3639500.00	128.80	128.80	127.60	127.60	127.60	127.40	127.40	127.40	127.40
3639450.00	127.60	127.60	127.60	127.40	126.50	126.60	132.50	132.50	127.30

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	485390.00	485440.00	485490.00	485540.00	485590.00	485640.00	485690.00	485740.00	485790.00
3640300.00	124.70	127.10	125.80	129.60	128.80	129.90	130.10	132.90	135.50
3640250.00	124.80	126.90	125.60	129.10	128.80	129.30	133.20	133.20	135.50
3640200.00	124.70	127.20	126.40	128.80	128.60	128.50	132.70	132.80	135.50
3640150.00	126.70	127.20	127.50	128.30	128.40	127.80	130.20	132.10	134.10
3640100.00	126.70	127.10	127.60	127.70	128.30	127.40	129.20	128.60	133.20
3640050.00	127.40	127.80	127.90	127.40	126.70	127.20	132.40	132.70	128.90
3640000.00	127.40	127.80	128.40	127.90	128.00	127.80	128.10	132.70	132.90
3639950.00	127.20	127.30	128.70	126.00	130.10	132.70	133.20	133.90	135.40
3639900.00	128.40	126.80	128.70	128.70	133.00	133.50	134.10	134.10	134.10
3639850.00	128.70	128.70	130.10	133.20	133.20	134.10	134.10	134.10	134.10
3639800.00	128.70	130.30	132.90	133.20	132.70	132.60	131.30	118.60	117.90
3639750.00	130.50	130.70	130.90	132.40	131.30	131.30	131.10	118.70	130.70
3639700.00	130.50	130.50	131.20	131.30	131.30	131.30	131.30	130.90	130.60
3639650.00	130.60	130.90	131.20	131.30	131.30	130.50	118.80	130.60	130.70
3639600.00	130.60	130.50	131.30	131.30	130.70	118.00	119.10	130.60	130.90
3639550.00	130.60	130.90	131.30	131.20	118.00	118.00	119.20	130.60	130.60
3639500.00	126.50	130.70	131.20	119.80	117.70	117.90	119.90	120.50	130.50
3639450.00	132.50	131.20	130.40	115.80	115.00	116.90	120.70	120.30	121.60

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 41
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	485840.00	485890.00	485940.00	485990.00	486040.00	486090.00
3640300.00	135.50	135.50	135.50	136.40	136.70	136.70
3640250.00	135.50	135.50	136.40	136.70	136.70	136.70
3640200.00	136.40	136.40	136.50	136.70	136.70	136.70
3640150.00	135.50	135.50	136.50	136.70	136.70	136.70
3640100.00	135.50	135.50	136.70	136.70	136.70	136.70
3640050.00	132.70	135.30	135.50	136.40	135.90	135.50
3640000.00	133.20	135.40	135.50	135.50	135.50	135.50
3639950.00	135.50	135.50	135.50	134.10	134.10	135.50
3639900.00	134.10	134.10	134.10	134.10	134.10	134.50
3639850.00	131.00	129.50	134.10	134.10	134.10	134.50
3639800.00	117.70	130.90	134.10	134.10	134.30	134.50
3639750.00	131.30	131.30	132.90	134.10	134.10	134.10
3639700.00	130.00	130.20	129.80	130.10	130.70	133.70
3639650.00	129.70	130.40	130.90	131.10	131.20	133.20
3639600.00	130.60	130.40	130.90	131.30	131.10	131.90
3639550.00	130.60	131.20	131.20	126.50	132.30	132.20
3639500.00	130.60	124.40	125.20	125.90	132.40	132.00
3639450.00	123.20	124.90	123.60	124.90	132.50	132.40

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 42
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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1111111111 1111111111 1111111111 1111111111 1111111111
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1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 11111
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METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2013 1 1 1
AND END DATE: 2013 12 31 24

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 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 43
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: MetData\722931.SFC Met Version: 14134
Profile file: MetData\722931.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93107 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2009 Year: 2009

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
------------------------------------------------------------------------------------------------
09 01 01   1 01   -5.8 0.103 -9.000 -9.000 -999.   80.     17.1 0.21  1.32  1.00   1.76 341.   10.0 281.4   2.0
09 01 01   1 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25  1.32  1.00   0.00   0.   10.0 281.4   2.0
09 01 01   1 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25  1.32  1.00   0.00   0.   10.0 278.1   2.0
09 01 01   1 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25  1.32  1.00   0.00   0.   10.0 278.1   2.0
09 01 01   1 05  -13.7 0.126 -9.000 -9.000 -999.  107.     12.9 0.23  1.32  1.00   2.36  43.   10.0 278.8   2.0
09 01 01   1 06   -7.6 0.094 -9.000 -9.000 -999.   69.      9.6 0.23  1.32  1.00   1.76  32.   10.0 278.8   2.0
09 01 01   1 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25  1.32  1.00   0.00   0.   10.0 277.0   2.0
09 01 01   1 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25  1.32  0.50   0.00   0.   10.0 281.4   2.0
09 01 01   1 09   43.9 0.223  0.454  0.011   76.  252.    -22.4 0.21  1.32  0.30   1.76 307.   10.0 284.2   2.0
09 01 01   1 10   97.0 0.297  0.758  0.008  160.  387.    -24.0 0.21  1.32  0.23   2.36 331.   10.0 285.4   2.0
09 01 01   1 11  137.1 0.306  0.980  0.008  245.  405.    -18.6 0.21  1.32  0.21   2.36 324.   10.0 289.2   2.0
09 01 01   1 12  149.7 0.251  1.157  0.009  369.  303.     -9.4 0.21  1.32  0.20   1.76 346.   10.0 291.4   2.0
09 01 01   1 13  147.0 0.402  1.247  0.007  470.  611.    -39.2 0.21  1.32  0.20   3.36 323.   10.0 291.4   2.0
```

09 01 01 1 14 123.1 0.388 1.276 0.007 601. 579. -42.1 0.19 1.32 0.21 3.36 289. 10.0 289.9 2.0
09 01 01 1 15 80.6 0.385 1.155 0.007 681. 574. -63.2 0.21 1.32 0.24 3.36 312. 10.0 289.9 2.0
09 01 01 1 16 21.3 0.314 0.746 0.007 694. 426. -129.9 0.21 1.32 0.33 2.86 304. 10.0 287.5 2.0
09 01 01 1 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25 1.32 0.61 999.00 999. -9.0 283.8 2.0
09 01 01 1 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25 1.32 1.00 0.00 0. 10.0 283.1 2.0
09 01 01 1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25 1.32 1.00 0.00 0. 10.0 283.1 2.0
09 01 01 1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25 1.32 1.00 0.00 0. 10.0 282.5 2.0
09 01 01 1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25 1.32 1.00 0.00 0. 10.0 282.5 2.0
09 01 01 1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25 1.32 1.00 0.00 0. 10.0 282.5 2.0
09 01 01 1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25 1.32 1.00 0.00 0. 10.0 282.0 2.0
09 01 01 1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25 1.32 1.00 0.00 0. 10.0 282.0 2.0

First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
09 01 01 01 10.0 1 341. 1.76 281.5 99.0 -99.00 -99.00

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

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 44
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 479500.00	479750.00	480000.00	480250.00	480500.00	480750.00	481000.00	481250.00	481500.00
3642325.00	0.00035	0.00036	0.00037	0.00038	0.00039	0.00047	0.00051	0.00051	0.00053
3642075.00	0.00037	0.00039	0.00041	0.00041	0.00045	0.00048	0.00046	0.00051	0.00058
3641825.00	0.00039	0.00039	0.00044	0.00046	0.00049	0.00043	0.00046	0.00054	0.00069
3641575.00	0.00040	0.00041	0.00043	0.00048	0.00049	0.00047	0.00056	0.00066	0.00070
3641325.00	0.00040	0.00044	0.00044	0.00043	0.00046	0.00050	0.00061	0.00070	0.00074
3641075.00	0.00047	0.00047	0.00046	0.00048	0.00051	0.00055	0.00062	0.00067	0.00070
3640825.00	0.00053	0.00055	0.00057	0.00063	0.00073	0.00068	0.00074	0.00089	0.00095
3640575.00	0.00063	0.00066	0.00078	0.00088	0.00090	0.00090	0.00103	0.00112	0.00120
3640325.00	0.00074	0.00085	0.00095	0.00101	0.00104	0.00118	0.00128	0.00137	0.00152
3640075.00	0.00076	0.00087	0.00100	0.00103	0.00116	0.00135	0.00147	0.00163	0.00183
3639825.00	0.00080	0.00089	0.00102	0.00118	0.00131	0.00146	0.00162	0.00182	0.00207
3639575.00	0.00086	0.00093	0.00105	0.00121	0.00138	0.00150	0.00172	0.00196	0.00229
3639325.00	0.00094	0.00099	0.00108	0.00124	0.00139	0.00158	0.00180	0.00201	0.00226
3639075.00	0.00110	0.00111	0.00130	0.00127	0.00141	0.00166	0.00180	0.00205	0.00223
3638825.00	0.00112	0.00125	0.00137	0.00147	0.00150	0.00165	0.00187	0.00229	0.00252
3638575.00	0.00116	0.00134	0.00145	0.00156	0.00177	0.00189	0.00204	0.00223	0.00239
3638325.00	0.00127	0.00136	0.00148	0.00148	0.00139	0.00161	0.00185	0.00185	0.00207
3638075.00	0.00123	0.00129	0.00134	0.00131	0.00121	0.00140	0.00154	0.00173	0.00179
3637825.00	0.00111	0.00115	0.00118	0.00118	0.00119	0.00133	0.00136	0.00141	0.00137
3637575.00	0.00101	0.00104	0.00108	0.00105	0.00104	0.00109	0.00106	0.00114	0.00107
3637325.00	0.00090	0.00092	0.00092	0.00086	0.00082	0.00089	0.00096	0.00102	0.00107
3637075.00	0.00077	0.00075	0.00072	0.00069	0.00072	0.00084	0.00090	0.00093	0.00093
3636825.00	0.00063	0.00061	0.00062	0.00067	0.00075	0.00080	0.00083	0.00085	0.00082
3636575.00	0.00056	0.00059	0.00064	0.00068	0.00071	0.00072	0.00074	0.00074	0.00071
3636325.00	0.00054	0.00059	0.00062	0.00063	0.00064	0.00064	0.00065	0.00065	0.00064
3636075.00	0.00054	0.00056	0.00056	0.00057	0.00055	0.00055	0.00055	0.00055	0.00053

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 45
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 481750.00	482000.00	482250.00	482500.00	482750.00	483000.00	483250.00	483500.00	483750.00
3642325.00	0.00053	0.00056	0.00059	0.00072	0.00076	0.00069	0.00069	0.00064	0.00062
3642075.00	0.00065	0.00069	0.00076	0.00078	0.00088	0.00089	0.00087	0.00076	0.00092
3641825.00	0.00078	0.00084	0.00088	0.00090	0.00095	0.00106	0.00108	0.00108	0.00103
3641575.00	0.00079	0.00087	0.00099	0.00099	0.00102	0.00110	0.00126	0.00134	0.00134
3641325.00	0.00075	0.00079	0.00104	0.00125	0.00140	0.00152	0.00160	0.00150	0.00168
3641075.00	0.00078	0.00105	0.00117	0.00131	0.00151	0.00173	0.00186	0.00176	0.00177
3640825.00	0.00104	0.00116	0.00125	0.00136	0.00150	0.00167	0.00195	0.00191	0.00193
3640575.00	0.00131	0.00143	0.00152	0.00154	0.00160	0.00213	0.00281	0.00247	0.00394
3640325.00	0.00168	0.00185	0.00198	0.00199	0.00257	0.00310	0.00389	0.00413	0.00702
3640075.00	0.00206	0.00230	0.00261	0.00310	0.00341	0.00411	0.00587	0.00770	0.01104
3639825.00	0.00237	0.00274	0.00321	0.00384	0.00470	0.00516	0.00686	0.00955	0.00925
3639575.00	0.00262	0.00305	0.00342	0.00394	0.00487	0.00563	0.00815	0.01065	0.00858
3639325.00	0.00268	0.00291	0.00333	0.00401	0.00464	0.00579	0.00690	0.00915	0.01282
3639075.00	0.00254	0.00309	0.00376	0.00437	0.00509	0.00605	0.00721	0.00860	0.00938
3638825.00	0.00286	0.00295	0.00345	0.00399	0.00452	0.00481	0.00470	0.00581	0.00557
3638575.00	0.00262	0.00283	0.00306	0.00315	0.00323	0.00362	0.00373	0.00362	0.00312
3638325.00	0.00219	0.00224	0.00248	0.00239	0.00248	0.00252	0.00208	0.00274	0.00241
3638075.00	0.00183	0.00166	0.00162	0.00198	0.00206	0.00174	0.00138	0.00123	0.00164
3637825.00	0.00125	0.00135	0.00132	0.00137	0.00141	0.00114	0.00093	0.00087	0.00076
3637575.00	0.00109	0.00119	0.00138	0.00111	0.00101	0.00091	0.00077	0.00069	0.00076
3637325.00	0.00101	0.00112	0.00113	0.00093	0.00092	0.00073	0.00062	0.00072	0.00060
3637075.00	0.00096	0.00085	0.00079	0.00076	0.00071	0.00066	0.00065	0.00063	0.00060
3636825.00	0.00078	0.00078	0.00073	0.00071	0.00063	0.00059	0.00054	0.00051	0.00047
3636575.00	0.00064	0.00070	0.00064	0.00058	0.00051	0.00048	0.00038	0.00039	0.00035
3636325.00	0.00062	0.00057	0.00052	0.00046	0.00043	0.00040	0.00034	0.00033	0.00031
3636075.00	0.00050	0.00047	0.00043	0.00039	0.00033	0.00029	0.00029	0.00030	0.00029

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 46
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	484000.00	484250.00	484500.00	484750.00	485000.00	485250.00	485500.00	485750.00	486000.00
3642325.00	0.00079	0.00084	0.00087	0.00097	0.00082	0.00079	0.00079	0.00081	0.00074
3642075.00	0.00092	0.00097	0.00087	0.00089	0.00091	0.00090	0.00090	0.00099	0.00085
3641825.00	0.00116	0.00096	0.00125	0.00109	0.00119	0.00104	0.00101	0.00106	0.00093
3641575.00	0.00112	0.00111	0.00163	0.00133	0.00127	0.00125	0.00121	0.00113	0.00107
3641325.00	0.00138	0.00136	0.00146	0.00158	0.00160	0.00159	0.00147	0.00134	0.00115
3641075.00	0.00167	0.00180	0.00189	0.00206	0.00189	0.00199	0.00196	0.00178	0.00145
3640825.00	0.00286	0.00248	0.00285	0.00282	0.00273	0.00259	0.00227	0.00182	0.00163
3640575.00	0.00535	0.00408	0.00428	0.00433	0.00660	0.00325	0.00294	0.00231	0.00202
3640325.00	0.01061	0.01866	0.01917	0.00756	0.00572	0.00480	0.00362	0.00310	0.00446
3640075.00	0.03170	0.08898	0.07198	0.02789	0.00864	0.00623	0.00514	0.00481	0.00894
3639825.00	0.01712	0.13875	0.05514	0.12736	0.07355	0.01439	0.02907	0.04825	0.05131
3639575.00	0.01538	0.03850	0.14185	0.13442	0.13461	0.13508	0.11454	0.01045	0.00612
3639325.00	0.01856	0.02909	0.12224	0.11880	0.12301	0.11702	0.01609	0.00797	0.00514
3639075.00	0.01123	0.01493	0.01896	0.01684	0.01130	0.00709	0.00632	0.00518	0.00385
3638825.00	0.00338	0.00422	0.00628	0.00525	0.00509	0.00454	0.00364	0.00370	0.00278
3638575.00	0.00194	0.00164	0.00235	0.00329	0.00336	0.00337	0.00296	0.00268	0.00221
3638325.00	0.00129	0.00173	0.00187	0.00254	0.00264	0.00267	0.00252	0.00232	0.00204
3638075.00	0.00161	0.00134	0.00131	0.00164	0.00206	0.00242	0.00227	0.00204	0.00199
3637825.00	0.00073	0.00067	0.00084	0.00112	0.00143	0.00175	0.00196	0.00285	0.00263
3637575.00	0.00064	0.00060	0.00083	0.00104	0.00160	0.00277	0.00283	0.00183	0.00144
3637325.00	0.00057	0.00070	0.00113	0.00145	0.00135	0.00140	0.00142	0.00145	0.00134
3637075.00	0.00059	0.00064	0.00079	0.00118	0.00089	0.00110	0.00142	0.00160	0.00129
3636825.00	0.00043	0.00039	0.00053	0.00066	0.00075	0.00092	0.00109	0.00120	0.00115
3636575.00	0.00036	0.00037	0.00039	0.00058	0.00066	0.00078	0.00091	0.00104	0.00107
3636325.00	0.00033	0.00033	0.00039	0.00050	0.00060	0.00070	0.00082	0.00097	0.00107
3636075.00	0.00030	0.00031	0.00034	0.00049	0.00058	0.00063	0.00077	0.00090	0.00093

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43

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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	486250.00	486500.00	486750.00	487000.00	487250.00	487500.00	487750.00	488000.00	488250.00
3642325.00	0.00068	0.00070	0.00062	0.00057	0.00054	0.00046	0.00038	0.00033	0.00028
3642075.00	0.00075	0.00069	0.00063	0.00059	0.00050	0.00044	0.00036	0.00031	0.00026
3641825.00	0.00083	0.00074	0.00067	0.00060	0.00049	0.00044	0.00038	0.00031	0.00027
3641575.00	0.00091	0.00083	0.00072	0.00063	0.00053	0.00046	0.00038	0.00033	0.00029
3641325.00	0.00103	0.00095	0.00077	0.00069	0.00055	0.00047	0.00041	0.00036	0.00032
3641075.00	0.00116	0.00096	0.00082	0.00071	0.00060	0.00052	0.00046	0.00042	0.00039
3640825.00	0.00133	0.00108	0.00092	0.00079	0.00069	0.00064	0.00056	0.00054	0.00050
3640575.00	0.00165	0.00132	0.00108	0.00096	0.00085	0.00079	0.00082	0.00084	0.00074
3640325.00	0.00349	0.00235	0.00231	0.00183	0.00122	0.00111	0.00151	0.00144	0.00102
3640075.00	0.00655	0.00456	0.00390	0.00329	0.00261	0.00143	0.00171	0.00123	0.00076
3639825.00	0.01043	0.00473	0.00205	0.00166	0.00192	0.00126	0.00094	0.00077	0.00066
3639575.00	0.00385	0.00275	0.00206	0.00167	0.00132	0.00110	0.00091	0.00075	0.00064
3639325.00	0.00320	0.00247	0.00188	0.00153	0.00126	0.00100	0.00084	0.00072	0.00062
3639075.00	0.00298	0.00209	0.00171	0.00142	0.00114	0.00096	0.00085	0.00073	0.00064
3638825.00	0.00212	0.00181	0.00144	0.00120	0.00102	0.00088	0.00076	0.00068	0.00061
3638575.00	0.00182	0.00154	0.00125	0.00106	0.00092	0.00079	0.00071	0.00061	0.00055
3638325.00	0.00175	0.00144	0.00122	0.00101	0.00088	0.00077	0.00066	0.00059	0.00055
3638075.00	0.00167	0.00145	0.00125	0.00120	0.00098	0.00075	0.00067	0.00060	0.00053
3637825.00	0.00193	0.00144	0.00122	0.00101	0.00082	0.00070	0.00062	0.00054	0.00046
3637575.00	0.00127	0.00115	0.00103	0.00091	0.00073	0.00063	0.00057	0.00051	0.00045
3637325.00	0.00117	0.00102	0.00094	0.00085	0.00075	0.00062	0.00054	0.00049	0.00045
3637075.00	0.00112	0.00096	0.00084	0.00078	0.00073	0.00064	0.00053	0.00047	0.00042
3636825.00	0.00108	0.00093	0.00080	0.00071	0.00068	0.00063	0.00057	0.00047	0.00042
3636575.00	0.00106	0.00093	0.00081	0.00071	0.00064	0.00060	0.00056	0.00051	0.00042
3636325.00	0.00105	0.00093	0.00080	0.00069	0.00061	0.00056	0.00053	0.00051	0.00048
3636075.00	0.00091	0.00087	0.00079	0.00076	0.00061	0.00054	0.00051	0.00051	0.00068

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43

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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)			
	488500.00	488750.00	489000.00	489250.00
3642325.00	0.00023	0.00022	0.00017	0.00015
3642075.00	0.00023	0.00021	0.00020	0.00020
3641825.00	0.00024	0.00022	0.00019	0.00017
3641575.00	0.00026	0.00023	0.00020	0.00020
3641325.00	0.00029	0.00027	0.00026	0.00029
3641075.00	0.00036	0.00035	0.00039	0.00028
3640825.00	0.00048	0.00045	0.00045	0.00033
3640575.00	0.00069	0.00051	0.00041	0.00037
3640325.00	0.00086	0.00068	0.00058	0.00050
3640075.00	0.00075	0.00067	0.00051	0.00039
3639825.00	0.00057	0.00052	0.00063	0.00042
3639575.00	0.00056	0.00047	0.00042	0.00043
3639325.00	0.00055	0.00049	0.00042	0.00044

3639075.00	0.00058	0.00051	0.00045	0.00042
3638825.00	0.00055	0.00050	0.00045	0.00042
3638575.00	0.00050	0.00047	0.00043	0.00041
3638325.00	0.00050	0.00045	0.00040	0.00038
3638075.00	0.00049	0.00044	0.00036	0.00035
3637825.00	0.00042	0.00039	0.00036	0.00033
3637575.00	0.00040	0.00036	0.00033	0.00031
3637325.00	0.00040	0.00036	0.00032	0.00029
3637075.00	0.00040	0.00035	0.00032	0.00032
3636825.00	0.00038	0.00039	0.00038	0.00037
3636575.00	0.00049	0.00047	0.00033	0.00030
3636325.00	0.00048	0.00034	0.00033	0.00032
3636075.00	0.00043	0.00036	0.00033	0.00031

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	484040.00	484090.00	484140.00	484190.00	484240.00	484290.00	484340.00	484390.00	484440.00
3640300.00	0.01275	0.01348	0.01594	0.02011	0.02852	0.03653	0.03778	0.03482	0.02650
3640250.00	0.01553	0.02058	0.03239	0.02585	0.02567	0.02483	0.02577	0.02938	0.03225
3640200.00	0.02631	0.04019	0.03126	0.03109	0.03479	0.05250	0.06694	0.11744	0.11412
3640150.00	0.03444	0.04256	0.02995	0.03959	0.07633	0.08990	0.08099	0.09918	0.12110
3640100.00	0.03959	0.04340	0.03102	0.04321	0.09431	0.10122	0.09065	0.10151	0.07395
3640050.00	0.04118	0.05162	0.03096	0.03182	0.10575	0.11155	0.10322	0.05373	0.07058
3640000.00	0.03808	0.06229	0.02914	0.02663	0.10575	0.13452	0.12400	0.06221	0.06684
3639950.00	0.02535	0.04733	0.02863	0.02607	0.11902	0.10757	0.09108	0.09538	0.05617
3639900.00	0.01973	0.03597	0.06165	0.06208	0.13341	0.15362	0.14386	0.12155	0.10127
3639850.00	0.01947	0.02196	0.04241	0.06906	0.13866	0.13626	0.13866	0.13987	0.14418
3639800.00	0.01812	0.02044	0.02413	0.04648	0.08594	0.12741	0.13829	0.13938	0.05920
3639750.00	0.01789	0.01980	0.02258	0.02276	0.05156	0.12441	0.13434	0.13737	0.06347
3639700.00	0.01764	0.01880	0.02103	0.01651	0.04401	0.05966	0.12527	0.14574	0.12610
3639650.00	0.01737	0.01937	0.02349	0.03207	0.04004	0.04789	0.11495	0.08713	0.09041
3639600.00	0.01733	0.02466	0.02777	0.03060	0.03462	0.04245	0.08492	0.12964	0.14576
3639550.00	0.02048	0.01883	0.01839	0.02481	0.03246	0.04311	0.06170	0.12845	0.10348
3639500.00	0.01415	0.01499	0.01696	0.02252	0.02702	0.04073	0.05686	0.14758	0.13246
3639450.00	0.01398	0.01487	0.01637	0.02908	0.02949	0.03766	0.06293	0.12212	0.13049

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	484490.00	484540.00	484590.00	484640.00	484690.00	484740.00	484790.00	484840.00	484890.00
3640300.00	0.02464	0.01852	0.01260	0.00983	0.00765	0.00737	0.00719	0.00690	0.00661
3640250.00	0.08348	0.03923	0.01613	0.00999	0.00903	0.00844	0.00805	0.00749	0.00722
3640200.00	0.03808	0.03151	0.05554	0.01881	0.01807	0.01229	0.00908	0.00849	0.00779
3640150.00	0.11739	0.03684	0.02777	0.04642	0.01825	0.01540	0.01278	0.00972	0.00886
3640100.00	0.12765	0.11939	0.12773	0.02844	0.03342	0.02057	0.01329	0.01096	0.01014
3640050.00	0.06216	0.08222	0.12176	0.11859	0.12012	0.02858	0.02250	0.01872	0.01319
3640000.00	0.04879	0.08833	0.12695	0.12486	0.12138	0.11610	0.11083	0.02526	0.01730
3639950.00	0.04384	0.15425	0.13175	0.13010	0.12698	0.12270	0.11814	0.11261	0.07582
3639900.00	0.04838	0.14715	0.15415	0.14443	0.13206	0.12636	0.12485	0.12588	0.11868
3639850.00	0.05461	0.14583	0.14636	0.14588	0.13944	0.13400	0.12655	0.12203	0.02930
3639800.00	0.06359	0.16967	0.14877	0.13950	0.15960	0.12861	0.12678	0.04020	0.08825
3639750.00	0.06869	0.06338	0.15082	0.16575	0.15672	0.13030	0.12954	0.03757	0.12709
3639700.00	0.15549	0.14967	0.13874	0.15691	0.13887	0.13190	0.13840	0.05698	0.13067
3639650.00	0.08469	0.15074	0.14704	0.15372	0.13523	0.13312	0.04380	0.11128	0.13224
3639600.00	0.14893	0.10031	0.14581	0.14720	0.13465	0.13403	0.06777	0.13811	0.13424
3639550.00	0.13974	0.14469	0.11926	0.14068	0.13751	0.13473	0.13619	0.13646	0.13593
3639500.00	0.15629	0.14332	0.13835	0.13977	0.13586	0.13598	0.13559	0.13636	0.13618
3639450.00	0.13403	0.13611	0.13608	0.13500	0.13398	0.13396	0.13513	0.13508	0.13530

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	484940.00	484990.00	485040.00	485090.00	485140.00	485190.00	485240.00	485290.00	485340.00
3640300.00	0.00624	0.00595	0.00562	0.00561	0.00529	0.00520	0.00482	0.00475	0.00438
3640250.00	0.00647	0.00633	0.00602	0.00584	0.00549	0.00532	0.00520	0.00498	0.00471
3640200.00	0.00724	0.00672	0.00659	0.00612	0.00595	0.00562	0.00551	0.00510	0.00506
3640150.00	0.00804	0.00749	0.00694	0.00676	0.00631	0.00596	0.00575	0.00549	0.00524
3640100.00	0.00929	0.00823	0.00770	0.00728	0.00655	0.00653	0.00627	0.00598	0.00571
3640050.00	0.01040	0.00939	0.00866	0.00755	0.00726	0.00699	0.00674	0.00638	0.00608
3640000.00	0.01544	0.01132	0.00980	0.00882	0.00813	0.00765	0.00726	0.00695	0.00667

3639950.00 |	0.01836	0.01237	0.01132	0.00998	0.00912	0.00855	0.00807	0.00772	0.00746
3639900.00 |	0.01905	0.01417	0.01214	0.01112	0.01016	0.00960	0.00913	0.00872	0.00849
3639850.00 |	0.06165	0.04526	0.01617	0.01219	0.01137	0.01080	0.01089	0.01082	0.01229
3639800.00 |	0.13326	0.10949	0.03262	0.01532	0.01447	0.01445	0.01864	0.03262	0.04383
3639750.00 |	0.12386	0.11889	0.11588	0.04665	0.03487	0.06284	0.11349	0.10968	0.11296
3639700.00 |	0.12858	0.12648	0.12381	0.12085	0.11911	0.12085	0.12129	0.12128	0.12029
3639650.00 |	0.13174	0.13110	0.13062	0.13057	0.12781	0.12726	0.12889	0.12570	0.12515
3639600.00 |	0.13589	0.13512	0.13376	0.13303	0.13355	0.13030	0.13894	0.13354	0.12642
3639550.00 |	0.13530	0.13596	0.13584	0.13474	0.13753	0.13883	0.12991	0.12820	0.12626
3639500.00 |	0.13584	0.13670	0.13687	0.13497	0.13346	0.13146	0.12956	0.12871	0.12511
3639450.00 |	0.13556	0.13543	0.13476	0.13356	0.13621	0.13173	0.12952	0.12703	0.12384

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS) |	X-COORD (METERS) 485390.00	485440.00	485490.00	485540.00	485590.00	485640.00	485690.00	485740.00	485790.00
3640300.00 |	0.00431	0.00415	0.00397	0.00364	0.00346	0.00327	0.00317	0.00313	0.00527
3640250.00 |	0.00460	0.00449	0.00427	0.00386	0.00370	0.00355	0.00340	0.00344	0.00723
3640200.00 |	0.00496	0.00473	0.00447	0.00406	0.00398	0.00389	0.00365	0.00370	0.00785
3640150.00 |	0.00503	0.00482	0.00466	0.00443	0.00431	0.00428	0.00390	0.00395	0.00766
3640100.00 |	0.00546	0.00524	0.00502	0.00488	0.00468	0.00469	0.00473	0.00432	0.00870
3640050.00 |	0.00583	0.00560	0.00543	0.00537	0.00534	0.00514	0.00623	0.00689	0.00599
3640000.00 |	0.00642	0.00616	0.00592	0.00581	0.00645	0.00555	0.00648	0.00968	0.01186
3639950.00 |	0.00722	0.00699	0.00889	0.00688	0.01378	0.01414	0.01806	0.01811	0.01801
3639900.00 |	0.01094	0.00884	0.01321	0.01936	0.02242	0.02071	0.02181	0.02409	0.02872
3639850.00 |	0.01889	0.02706	0.02820	0.02537	0.02715	0.03080	0.04640	0.09984	0.07193
3639800.00 |	0.04336	0.03735	0.03549	0.04321	0.08928	0.10936	0.07262	0.02761	0.02792
3639750.00 |	0.11021	0.10737	0.10899	0.11156	0.11678	0.11631	0.05664	0.02770	0.03066
3639700.00 |	0.12171	0.12662	0.11815	0.11807	0.11245	0.09383	0.03724	0.02026	0.01364
3639650.00 |	0.12418	0.12227	0.12012	0.11448	0.10206	0.02364	0.01426	0.01229	0.01110
3639600.00 |	0.12483	0.13054	0.11713	0.10864	0.04473	0.01562	0.01283	0.01115	0.01010
3639550.00 |	0.12372	0.11931	0.11266	0.09326	0.01822	0.01434	0.01194	0.01039	0.00913
3639500.00 |	0.12490	0.11585	0.10431	0.03317	0.01561	0.01339	0.01096	0.00962	0.00839
3639450.00 |	0.11828	0.10987	0.06227	0.01865	0.01589	0.01294	0.01098	0.00914	0.00800

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS) |	X-COORD (METERS) 485840.00	485890.00	485940.00	485990.00	486040.00	486090.00
3640300.00 |	0.00511	0.00633	0.00615	0.00595	0.00572	0.00558
3640250.00 |	0.00696	0.00693	0.00664	0.00611	0.00597	0.00527
3640200.00 |	0.00723	0.00728	0.00693	0.00666	0.00640	0.00612
3640150.00 |	0.00866	0.00850	0.00751	0.00737	0.00708	0.00673
3640100.00 |	0.01005	0.00969	0.00825	0.00833	0.00817	0.00761
3640050.00 |	0.00815	0.01097	0.01093	0.01012	0.01045	0.00961
3640000.00 |	0.01352	0.01463	0.01462	0.01407	0.01346	0.01227
3639950.00 |	0.01858	0.01926	0.02110	0.03123	0.02916	0.01815
3639900.00 |	0.04165	0.06538	0.03892	0.05913	0.05548	0.02932
3639850.00 |	0.03698	0.02931	0.03132	0.05311	0.05613	0.03193
3639800.00 |	0.02769	0.02878	0.02929	0.04560	0.05861	0.02850
3639750.00 |	0.03059	0.02499	0.02438	0.02203	0.01970	0.00921
3639700.00 |	0.01037	0.00921	0.00827	0.00766	0.00725	0.00608
3639650.00 |	0.00742	0.00682	0.00648	0.00626	0.00603	0.00542
3639600.00 |	0.00663	0.00627	0.00592	0.00616	0.00568	0.00532
3639550.00 |	0.00706	0.00702	0.00650	0.00603	0.00579	0.00475
3639500.00 |	0.00751	0.00670	0.00620	0.00580	0.00556	0.00449
3639450.00 |	0.00732	0.00647	0.00618	0.00565	0.00540	0.00421

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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS) |	X-COORD (METERS) 479500.00	479750.00	480000.00	480250.00	480500.00
3642325.0 |	0.00500c(13122824)	0.00524b(13110724)	0.00564b(13083024)	0.00638b(13121124)	0.00738b(13121124)
3642075.0 |	0.00676b(13112024)	0.00588b(13031124)	0.00553c(13122824)	0.00549b(13110724)	0.00559b(13083024)
3641825.0 |	0.00725b(13112024)	0.00825b(13112024)	0.00783b(13112024)	0.00649b(13112024)	0.00615c(13122824)
3641575.0 |	0.00763c(13040924)	0.00822c(13040924)	0.00783c(13040924)	0.00819b(13112024)	0.00782b(13112024)
3641325.0 |	0.00647c(13040924)	0.00763c(13040924)	0.00760c(13040924)	0.00757c(13040924)	0.00801c(13040924)

3641075.0 | 0.00635c(13040924) 0.00677c(13040924) 0.00686c(13040924) 0.00747c(13040924) 0.00813c(13040924)
3640825.0 | 0.00735c(13122924) 0.00740c(13122924) 0.00738c(13122924) 0.00787c(13040924) 0.00998c(13040924)
3640575.0 | 0.00838c(13122924) 0.00879c(13122924) 0.01060c(13122924) 0.01217c(13122924) 0.01282c(13122924)
3640325.0 | 0.00796c(13020924) 0.00895c(13020924) 0.01017c(13122924) 0.01131c(13122924) 0.01160c(13122924)
3640075.0 | 0.00766c(13020924) 0.00871c(13020924) 0.00992c(13020924) 0.01020c(13020924) 0.01111c(13020924)
3639825.0 | 0.00740c(13032324) 0.00816c(13032324) 0.00918c(13032324) 0.01043c(13032324) 0.01193c(13032324)
3639575.0 | 0.00674b(13092824) 0.00700b(13092824) 0.00772b(13092824) 0.00877b(13092824) 0.00994b(13031024)
3639325.0 | 0.00805b(13092824) 0.00799b(13092824) 0.00823b(13092824) 0.00925b(13031024) 0.01022b(13031024)
3639075.0 | 0.00769c(13013124) 0.00760b(13021124) 0.00940b(13021124) 0.00883b(13021124) 0.00992b(13021124)
3638825.0 | 0.00863b(13021124) 0.01010c(13112324) 0.01180c(13112324) 0.01354c(13112324) 0.01217c(13112324)
3638575.0 | 0.00977c(13112324) 0.01156b(13010424) 0.01305b(13010424) 0.01312b(13010424) 0.01409b(13010424)
3638325.0 | 0.01004b(13021124) 0.01060b(13021124) 0.01205b(13021124) 0.01152b(13021124) 0.01052c(13100724)
3638075.0 | 0.01129c(13100724) 0.01203c(13100724) 0.01182c(13100724) 0.01082c(13112324) 0.00983c(13112324)
3637825.0 | 0.00996c(13112324) 0.01076c(13112324) 0.01073c(13112324) 0.01055c(13112424) 0.01197c(13112424)
3637575.0 | 0.00987c(13112424) 0.01135c(13112424) 0.01276c(13112424) 0.01243c(13112424) 0.01130c(13112424)
3637325.0 | 0.01166c(13112424) 0.01130c(13112424) 0.00979c(13112424) 0.00985b(13111024) 0.01093b(13111024)
3637075.0 | 0.00788c(13112424) 0.00844b(13111024) 0.00948b(13111024) 0.00890b(13111024) 0.00796b(13111024)
3636825.0 | 0.00763b(13111024) 0.00777b(13111024) 0.00742b(13030724) 0.00838b(13030724) 0.00879b(13021424)
3636575.0 | 0.00684b(13030724) 0.00775b(13030724) 0.00782b(13030724) 0.00885b(13021424) 0.01050b(13021424)
3636325.0 | 0.00741b(13030724) 0.00736b(13021424) 0.00876b(13021424) 0.00987b(13021424) 0.01014b(13021424)
3636075.0 | 0.00732b(13021424) 0.00836b(13021424) 0.00899b(13021424) 0.00909b(13021424) 0.00804b(13021424)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD | X-COORD (METERS)
(METERS) | 480750.00 481000.00 481250.00 481500.00 481750.00

3642325.0 | 0.00826b(13121124) 0.00762b(13121124) 0.00808 (13092524) 0.00961 (13092524) 0.00910 (13092524)
3642075.0 | 0.00756b(13121124) 0.00779b(13121124) 0.00799b(13121124) 0.00816 (13092524) 0.01106 (13092524)
3641825.0 | 0.00507c(13122824) 0.00561b(13121124) 0.00817b(13121124) 0.01144b(13121124) 0.01173b(13121124)
3641575.0 | 0.00634b(13112024) 0.00623c(13122824) 0.00728c(13122824) 0.00909b(13121124) 0.01209b(13121124)
3641325.0 | 0.00816c(13040924) 0.00913b(13112024) 0.00936b(13112024) 0.00779b(13112024) 0.00735c(13122824)
3641075.0 | 0.00893c(13040924) 0.01020c(13040924) 0.01079c(13040924) 0.01037c(13040924) 0.00986c(13040924)
3640825.0 | 0.00973c(13040924) 0.01093c(13040924) 0.01384c(13040924) 0.01511c(13040924) 0.01605c(13040924)
3640575.0 | 0.01175c(13122924) 0.01361c(13122924) 0.01474c(13122924) 0.01537c(13040924) 0.01742c(13040924)
3640325.0 | 0.01315c(13122924) 0.01434c(13122924) 0.01572c(13122924) 0.01712c(13122924) 0.01875c(13122924)
3640075.0 | 0.01235c(13020924) 0.01296c(13020924) 0.01381c(13020924) 0.01486c(13020924) 0.01609c(13020924)
3639825.0 | 0.01214c(13032324) 0.01289c(13032324) 0.01384c(13032324) 0.01493c(13032324) 0.01601c(13032324)
3639575.0 | 0.01065b(13031024) 0.01231b(13031024) 0.01382b(13031024) 0.01591b(13031024) 0.01735b(13031024)
3639325.0 | 0.01131b(13031024) 0.01253b(13031024) 0.01340b(13031024) 0.01442b(13031024) 0.01666b(13031024)
3639075.0 | 0.01196b(13021124) 0.01283b(13021124) 0.01456c(13112324) 0.01565c(13112324) 0.01749c(13112324)
3638825.0 | 0.01303c(13112324) 0.01433c(13112324) 0.01711c(13112324) 0.01777c(13112324) 0.01913c(13112324)
3638575.0 | 0.01321b(13021124) 0.01392b(13021124) 0.01551c(13100724) 0.01713c(13100724) 0.01903c(13100724)
3638325.0 | 0.01332c(13100724) 0.01425c(13100724) 0.01432c(13112324) 0.01548c(13112324) 0.01808c(13101924)
3638075.0 | 0.01160c(13112324) 0.01301c(13112424) 0.01733c(13101924) 0.01814c(13101924) 0.01755b(13111024)
3637825.0 | 0.01495c(13101924) 0.01462c(13112424) 0.01450b(13111024) 0.01557b(13111024) 0.01318b(13111024)
3637575.0 | 0.01214b(13111024) 0.01326b(13111024) 0.01274b(13111024) 0.01077b(13111024) 0.01180b(13021424)
3637325.0 | 0.01094b(13111024) 0.01049b(13111024) 0.01175b(13021424) 0.01426b(13021424) 0.01304b(13021424)
3637075.0 | 0.00932b(13030724) 0.01151b(13021424) 0.01350b(13021424) 0.01328b(13021424) 0.01308b(13021424)
3636825.0 | 0.01115b(13021424) 0.01245b(13021424) 0.01250b(13021424) 0.01155b(13021424) 0.00953b(13021424)
3636575.0 | 0.01128b(13021424) 0.01106b(13021424) 0.01026b(13021424) 0.00861b(13021424) 0.00763b(13121324)
3636325.0 | 0.00970b(13021424) 0.00887b(13021424) 0.00791b(13021424) 0.00819b(13121324) 0.00704b(13121324)
3636075.0 | 0.00725b(13021424) 0.00661b(13021424) 0.00676b(13121324) 0.00581b(13042024) 0.00610b(13122224)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)				
(METERS)	482000.00	482250.00	482500.00	482750.00	483000.00
3642325.0	0.00723 (13092524)	0.00626b(13052824)	0.00746b(13052824)	0.01014b(13062024)	0.00820b(13062024)
3642075.0	0.01174 (13092524)	0.01037 (13092524)	0.00816b(13052824)	0.00991b(13062024)	0.01131b(13062024)
3641825.0	0.01375 (13092524)	0.01523 (13092524)	0.01235 (13092524)	0.01013 (13092524)	0.01221b(13062024)
3641575.0	0.01331b(13121124)	0.01384 (13092524)	0.01512 (13092524)	0.01396 (13092524)	0.01200 (13092524)
3641325.0	0.00974b(13121124)	0.01501b(13121124)	0.01801b(13121124)	0.02024 (13092524)	0.02119 (13092524)
3641075.0	0.01118b(13112024)	0.01115b(13121124)	0.01639b(13121124)	0.02080b(13121124)	0.02252b(13121124)
3640825.0	0.01679c(13040924)	0.01601c(13040924)	0.01482b(13112024)	0.01437b(13062024)	0.01810b(13121124)
3640575.0	0.01978c(13040924)	0.02212c(13040924)	0.02130c(13040924)	0.01892c(13040924)	0.02133c(13040924)
3640325.0	0.02059c(13122924)	0.02142c(13122924)	0.02074c(13040924)	0.02783c(13040924)	0.03326c(13040924)
3640075.0	0.01757c(13122924)	0.01969c(13122924)	0.02328c(13122924)	0.02549c(13040924)	0.03042c(13040924)
3639825.0	0.01723c(13032324)	0.01890c(13020924)	0.02104c(13020924)	0.02494b(13011624)	0.02640c(13112724)
3639575.0	0.01923b(13031024)	0.01996b(13031024)	0.02136c(13112724)	0.02696c(13112724)	0.02991c(13112724)
3639325.0	0.01690b(13031024)	0.01893c(13112324)	0.02255c(13112324)	0.02550b(13031024)	0.03288b(13031024)
3639075.0	0.02094c(13112324)	0.02475c(13112324)	0.02710c(13112324)	0.02981c(13112324)	0.03416c(13112324)
3638825.0	0.01833c(13112324)	0.02177c(13100724)	0.02555c(13100724)	0.02767c(13100724)	0.02977b(13111024)
3638575.0	0.01880c(13100724)	0.02168b(13111024)	0.02315c(13101924)	0.02431b(13111024)	0.02959b(13111024)
3638325.0	0.02050c(13101924)	0.02140b(13111024)	0.02140b(13111024)	0.02260b(13111024)	0.02384b(13021424)
3638075.0	0.01687b(13111024)	0.01578b(13111024)	0.01953b(13021424)	0.02298b(13021424)	0.01982b(13021424)
3637825.0	0.01309b(13021424)	0.01324b(13021424)	0.01470b(13021424)	0.01651b(13021424)	0.01333b(13021424)
3637575.0	0.01396b(13021424)	0.01789b(13021424)	0.01324b(13021424)	0.01144b(13021424)	0.00989c(13101424)
3637325.0	0.01485b(13021424)	0.01487b(13021424)	0.00973b(13021424)	0.01049c(13101424)	0.00908b(13010824)
3637075.0	0.01064b(13021424)	0.00824b(13122224)	0.00890b(13121324)	0.00882b(13010824)	0.01124b(13010824)
3636825.0	0.00897b(13121324)	0.00874b(13121324)	0.00902b(13010824)	0.01171b(13010824)	0.00961b(13010824)
3636575.0	0.00815b(13121324)	0.00793b(13122224)	0.01026b(13010824)	0.00957b(13010824)	0.00774b(13010824)
3636325.0	0.00700b(13122224)	0.00891b(13010824)	0.00935b(13010824)	0.00766b(13010824)	0.00729b(13010824)
3636075.0	0.00776b(13010824)	0.00942b(13010824)	0.00798b(13010824)	0.00585b(13010824)	0.00613b(13010824)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)				
(METERS)	483250.00	483500.00	483750.00	484000.00	484250.00
3642325.0	0.01006b(13051924)	0.00861b(13051924)	0.00643b(13040624)	0.00976b(13040724)	0.00884b(13040724)
3642075.0	0.00905b(13062024)	0.00971b(13051924)	0.01320b(13051924)	0.01091b(13040724)	0.01019b(13040724)
3641825.0	0.01270b(13062024)	0.01468b(13051924)	0.01345b(13051924)	0.01313b(13040724)	0.01001b(13040724)
3641575.0	0.01342b(13062024)	0.01389b(13062024)	0.01688b(13051924)	0.01030b(13040724)	0.01115b(13040724)
3641325.0	0.01821 (13092524)	0.01353b(13062024)	0.01781b(13051924)	0.01106b(13040724)	0.01255b(13040724)
3641075.0	0.02458 (13092524)	0.01790 (13092524)	0.01569c(13031724)	0.01296 (13050524)	0.01492b(13040724)
3640825.0	0.02251b(13121124)	0.02098 (13092524)	0.01712 (13092524)	0.02148c(13031724)	0.01867b(13040724)
3640575.0	0.02667b(13062024)	0.02157b(13121124)	0.03920 (13092524)	0.05032 (13092524)	0.02777b(13040724)
3640325.0	0.04006c(13040924)	0.03693c(13040924)	0.05577c(13040924)	0.07996b(13062024)	0.09407 (13092524)
3640075.0	0.04227c(13040924)	0.05071c(13040924)	0.06108c(13040924)	0.12906c(13040924)	0.15990c(13040924)
3639825.0	0.03606c(13112724)	0.04727c(13112724)	0.03590c(13112724)	0.05937c(13122924)	0.28092b(13010824)
3639575.0	0.04140c(13112724)	0.04956c(13112724)	0.03294c(13112724)	0.05782c(13112724)	0.13111b(13031024)
3639325.0	0.03741b(13031024)	0.04696b(13031024)	0.06404b(13031024)	0.08604b(13031024)	0.11047b(13010824)
3639075.0	0.03996c(13112324)	0.04643c(13112324)	0.04839b(13010824)	0.06468b(13111024)	0.10793b(13021424)
3638825.0	0.02933c(13112424)	0.04292b(13111024)	0.04251b(13021424)	0.02159b(13021424)	0.03375b(13021424)

3638575.0 | 0.03119b(13111024) 0.03764b(13021424) 0.03135b(13021424) 0.01805b(13021424) 0.01495b(13012424)
3638325.0 | 0.02135b(13021424) 0.03429b(13021424) 0.02930b(13021424) 0.01369b(13012424) 0.01617b(13012424)
3638075.0 | 0.01562b(13021424) 0.01230b(13021424) 0.02096b(13021424) 0.01839b(13012424) 0.01367b(13012424)
3637825.0 | 0.00910c(13101424) 0.00970b(13021424) 0.00919b(13012424) 0.01214b(13012424) 0.00731b(13012424)
3637575.0 | 0.00883b(13010824) 0.00826b(13021424) 0.01224b(13012424) 0.01081b(13012424) 0.00629c(13102024)
3637325.0 | 0.00771b(13021424) 0.00879b(13012424) 0.01201b(13012424) 0.00878c(13102024) 0.00912c(13102024)
3637075.0 | 0.00796b(13021424) 0.00996b(13012424) 0.01083b(13012424) 0.01109c(13102024) 0.00963b(13092824)
3636825.0 | 0.00795b(13010824) 0.00979b(13012424) 0.00860b(13012424) 0.00842c(13102024) 0.00551b(13092824)
3636575.0 | 0.00657b(13012424) 0.00889b(13012424) 0.00637b(13012424) 0.00714c(13102024) 0.00586b(13092824)
3636325.0 | 0.00739 (13122724) 0.00774b(13012424) 0.00601c(13102024) 0.00680c(13102024) 0.00545b(13092824)
3636075.0 | 0.00712b(13012424) 0.00673b(13012424) 0.00621c(13102024) 0.00617c(13102024) 0.00569b(13092824)

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 484500.00	484750.00	485000.00	485250.00	485500.00
3642325.0	0.00830b(13021824)	0.01049b(13100124)	0.00882b(13100124)	0.00781 (13012724)	0.00813 (13012724)
3642075.0	0.00754b(13040724)	0.00918b(13100124)	0.00936b(13100124)	0.00848 (13012724)	0.00881 (13012724)
3641825.0	0.01155b(13021824)	0.01053b(13100124)	0.01162b(13100124)	0.00961 (13012724)	0.00954 (13012724)
3641575.0	0.01400b(13021824)	0.01234b(13100124)	0.01062b(13100124)	0.01150 (13012724)	0.01067 (13012724)
3641325.0	0.01158b(13100124)	0.01361b(13100124)	0.01318 (13012724)	0.01374 (13012724)	0.01229 (13012724)
3641075.0	0.01447b(13100124)	0.01584b(13100124)	0.01478 (13012724)	0.01539 (13012724)	0.01662 (13012724)
3640825.0	0.02051b(13100124)	0.01833b(13100124)	0.01980 (13012724)	0.01956 (13012724)	0.01878 (13012724)
3640575.0	0.02454b(13100124)	0.02736 (13012724)	0.04656 (13012724)	0.02192 (13012724)	0.01985 (13012724)
3640325.0	0.08642c(13100324)	0.03725 (13012724)	0.02998 (13012724)	0.02421 (13012724)	0.01877 (13012724)
3640075.0	0.13245b(13021824)	0.09439c(13100324)	0.03170 (13012724)	0.02220 (13012724)	0.02177 (13012724)
3639825.0	0.08354c(13040924)	0.20061b(13082824)	0.17898c(13100324)	0.03726b(13100224)	0.09510c(13080324)
3639575.0	0.25453b(13010824)	0.22730b(13010824)	0.22290b(13082824)	0.23147b(13072224)	0.22010b(13072224)
3639325.0	0.23823b(13010824)	0.23722b(13010824)	0.24766b(13082824)	0.24666b(13082824)	0.05491b(13071324)
3639075.0	0.08054b(13021424)	0.06650b(13021424)	0.05042b(13082824)	0.03057b(13082824)	0.02949b(13082824)
3638825.0	0.03288b(13021424)	0.02321b(13091324)	0.02324b(13091124)	0.02208b(13082824)	0.01820c(13102424)
3638575.0	0.01279b(13081724)	0.01716b(13082524)	0.01795b(13091124)	0.01726b(13091124)	0.01629m(13090824)
3638325.0	0.01219b(13081724)	0.01524b(13051424)	0.01621b(13091324)	0.01613b(13091124)	0.01398m(13090824)
3638075.0	0.01011b(13081724)	0.01080b(13082524)	0.01335b(13091324)	0.01534b(13091324)	0.01361b(13091124)
3637825.0	0.00765b(13081724)	0.00750b(13081724)	0.00922b(13091124)	0.01229b(13091324)	0.01295b(13091124)
3637575.0	0.00824b(13080424)	0.00793c(13071724)	0.01266b(13051424)	0.02174b(13091324)	0.02306b(13091324)
3637325.0	0.01219b(13080424)	0.01396c(13102024)	0.01223b(13051424)	0.01076b(13091324)	0.01149b(13091324)
3637075.0	0.00984b(13080424)	0.01079c(13102024)	0.00742b(13082524)	0.00801b(13082524)	0.01183b(13091324)
3636825.0	0.00702b(13080424)	0.00688b(13081724)	0.00628c(13071724)	0.00734b(13051424)	0.00911b(13091324)
3636575.0	0.00552b(13080424)	0.00643b(13081724)	0.00615c(13071724)	0.00692b(13082524)	0.00775b(13091324)
3636325.0	0.00615b(13080424)	0.00588b(13081724)	0.00604c(13071724)	0.00688b(13051424)	0.00645b(13051424)
3636075.0	0.00575b(13080424)	0.00558b(13081724)	0.00615c(13071724)	0.00636b(13082524)	0.00694b(13051424)

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 485750.00	486000.00	486250.00	486500.00	486750.00
3642325.0	0.00821 (13012724)	0.00783 (13012724)	0.00764 (13012724)	0.00687 (13012724)	0.00548 (13012724)

3642075.0 | 0.00994 (13012724) 0.00908 (13012724) 0.00765 (13012724) 0.00635 (13012724) 0.00554b(13042224)
3641825.0 | 0.01028 (13012724) 0.00951 (13012724) 0.00769 (13012724) 0.00646 (13012724) 0.00587 (13012724)
3641575.0 | 0.01077 (13012724) 0.01021 (13012724) 0.00833 (13012724) 0.00743 (13012724) 0.00608 (13012724)
3641325.0 | 0.01249 (13012724) 0.01082 (13012724) 0.00910 (13012724) 0.00827 (13012724) 0.00605 (13012724)
3641075.0 | 0.01659 (13012724) 0.01218 (13012724) 0.00952 (13012724) 0.00742 (13012724) 0.00584 (13012724)
3640825.0 | 0.01459 (13012724) 0.01166 (13012724) 0.01065 (13012724) 0.00718 (13012724) 0.00616c(13042424)
3640575.0 | 0.01502 (13012724) 0.01274 (13012724) 0.01051 (13012724) 0.00854c(13080324) 0.00781c(13080324)
3640325.0 | 0.01639 (13012724) 0.02956c(13080324) 0.02599c(13080324) 0.02062b(13081424) 0.03152b(13081424)
3640075.0 | 0.01972 (13012724) 0.04634c(13080324) 0.06902b(13081424) 0.05909c(13080324) 0.06403c(13080324)
3639825.0 | 0.14105c(13080324) 0.16863c(13080324) 0.09193c(13080324) 0.04436b(13030524) 0.02232b(13030524)
3639575.0 | 0.04412b(13030524) 0.02902b(13030524) 0.02109b(13030524) 0.01760b(13030524) 0.01452b(13030524)
3639325.0 | 0.02995b(13071324) 0.02193b(13081724) 0.01497b(13071324) 0.01385b(13072824) 0.01245b(13072824)
3639075.0 | 0.02320b(13082824) 0.01866b(13072224) 0.01504b(13072224) 0.00941b(13051124) 0.00966b(13071324)
3638825.0 | 0.02110b(13082824) 0.01464c(13102424) 0.01164b(13072224) 0.01225b(13072224) 0.00814b(13051124)
3638575.0 | 0.01508b(13082824) 0.01506c(13102424) 0.01174c(13102424) 0.00943b(13072224) 0.00962b(13072224)
3638325.0 | 0.01455m(13090824) 0.01250b(13082824) 0.01363c(13102424) 0.01087c(13102424) 0.00790b(13040424)
3638075.0 | 0.01288m(13090824) 0.01379m(13090824) 0.01195b(13072124) 0.01259c(13102424) 0.01051c(13102424)
3637825.0 | 0.01885b(13082824) 0.02186b(13082824) 0.01684b(13082824) 0.01238b(13072124) 0.01134c(13102424)
3637575.0 | 0.01222b(13091124) 0.00987b(13102524) 0.00958m(13090824) 0.00860b(13072124) 0.00931b(13072124)
3637325.0 | 0.00976b(13091324) 0.00901b(13091124) 0.00889b(13102524) 0.00843b(13102524) 0.00785b(13072124)
3637075.0 | 0.01373b(13091324) 0.00908b(13091124) 0.00795b(13102524) 0.00817b(13102524) 0.00729b(13102524)
3636825.0 | 0.01082b(13091324) 0.00856b(13091324) 0.00763b(13091124) 0.00761b(13102524) 0.00754b(13102524)
3636575.0 | 0.00911b(13091324) 0.00950b(13091324) 0.00723b(13091124) 0.00661m(13090824) 0.00750b(13102524)
3636325.0 | 0.00867b(13091324) 0.01085b(13091324) 0.00861b(13091324) 0.00665b(13091124) 0.00654m(13090824)
3636075.0 | 0.00855b(13091324) 0.00903b(13091324) 0.00871b(13091324) 0.00655b(13090324) 0.00579c(13071724)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)				
	487000.00	487250.00	487500.00	487750.00	488000.00
3642325.0	0.00484b(13042224)	0.00495b(13032524)	0.00462b(13032524)	0.00422b(13032524)	0.00423b(13032524)
3642075.0	0.00489b(13071424)	0.00444b(13032524)	0.00468b(13032524)	0.00410b(13032524)	0.00349b(13032524)
3641825.0	0.00492b(13032524)	0.00449b(13032524)	0.00480b(13032524)	0.00404b(13032524)	0.00303c(13070124)
3641575.0	0.00543b(13032524)	0.00498b(13032524)	0.00423b(13032524)	0.00322c(13070124)	0.00293 (13100924)
3641325.0	0.00574b(13032524)	0.00440b(13032524)	0.00362c(13020824)	0.00354 (13100924)	0.00325 (13100924)
3641075.0	0.00536c(13042424)	0.00450c(13020824)	0.00412 (13100924)	0.00389b(13081424)	0.00445b(13081424)
3640825.0	0.00539c(13020824)	0.00554c(13080324)	0.00608b(13081424)	0.00610b(13081424)	0.00661b(13060924)
3640575.0	0.00818b(13081424)	0.00883b(13081424)	0.00915b(13072524)	0.01212b(13072524)	0.01320c(13080324)
3640325.0	0.02366c(13080324)	0.01537b(13072524)	0.01478c(13080324)	0.02610c(13080324)	0.02786c(13080324)
3640075.0	0.05732c(13080324)	0.04513c(13080324)	0.01758b(13030524)	0.02408c(13080324)	0.01688b(13030524)
3639825.0	0.01950b(13030524)	0.02421b(13030524)	0.01721b(13030524)	0.01309b(13030524)	0.01095b(13030524)
3639575.0	0.01239b(13030524)	0.01055b(13072824)	0.00951b(13072824)	0.00853b(13072824)	0.00754b(13072824)
3639325.0	0.01143b(13072824)	0.01036b(13072824)	0.00898b(13072824)	0.00796b(13072824)	0.00709b(13072824)
3639075.0	0.00907b(13071324)	0.00759b(13081724)	0.00677b(13081724)	0.00633b(13081724)	0.00547b(13081724)
3638825.0	0.00716b(13051124)	0.00647b(13071324)	0.00616b(13071324)	0.00579b(13071324)	0.00529b(13050924)
3638575.0	0.00875b(13072224)	0.00599b(13051124)	0.00556b(13111824)	0.00471b(13072324)	0.00474b(13050924)
3638325.0	0.00842b(13072224)	0.00899b(13072224)	0.00760b(13072224)	0.00530b(13111824)	0.00502b(13111824)
3638075.0	0.00947b(13082824)	0.00931b(13072224)	0.00841b(13072224)	0.00853b(13072224)	0.00672b(13072224)
3637825.0	0.00965c(13102424)	0.00620b(13082824)	0.00562c(13062824)	0.00617b(13072224)	0.00689b(13072224)
3637575.0	0.00940c(13102424)	0.00801c(13102424)	0.00550c(13102424)	0.00471c(13062824)	0.00417b(13072224)
3637325.0	0.00857b(13072124)	0.00834c(13102424)	0.00747c(13102424)	0.00540c(13102424)	0.00424b(13082824)
3637075.0	0.00737b(13072124)	0.00820b(13072124)	0.00755c(13102424)	0.00693c(13102424)	0.00524c(13102424)
3636825.0	0.00606b(13080124)	0.00729b(13072124)	0.00746b(13072124)	0.00692c(13102424)	0.00648c(13102424)
3636575.0	0.00715b(13102524)	0.00602b(13080124)	0.00711b(13072124)	0.00701b(13072124)	0.00634c(13102424)
3636325.0	0.00701b(13102524)	0.00624b(13102524)	0.00584b(13080124)	0.00669b(13072124)	0.00692b(13072124)

3636075.0 | 0.00711b(13102524) 0.00665b(13102524) 0.00543b(13102524) 0.00577b(13080124) 0.00728b(13072124)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)				
	488250.00	488500.00	488750.00	489000.00	489250.00

3642325.0 | 0.00350b(13032524) 0.00261c(13070124) 0.00225c(13020824) 0.00179 (13100924) 0.00173 (13100924)
3642075.0 | 0.00279c(13070124) 0.00221c(13020824) 0.00212 (13100924) 0.00200 (13100924) 0.00225b(13072524)
3641825.0 | 0.00244 (13100924) 0.00241 (13100924) 0.00230b(13072524) 0.00223b(13072524) 0.00209b(13072524)
3641575.0 | 0.00282 (13100924) 0.00270b(13072524) 0.00259b(13072524) 0.00221b(13072524) 0.00232 (13100924)
3641325.0 | 0.00313b(13072524) 0.00329b(13081424) 0.00312b(13081424) 0.00281b(13091924) 0.00398b(13072524)
3641075.0 | 0.00471b(13081424) 0.00436b(13060924) 0.00494b(13072524) 0.00684b(13072524) 0.00412b(13072524)
3640825.0 | 0.00729b(13072524) 0.00725b(13072524) 0.00703c(13080324) 0.00753c(13080324) 0.00472c(13080324)
3640575.0 | 0.01178c(13080324) 0.01045c(13080324) 0.00730c(13080324) 0.00537c(13080324) 0.00459c(13080324)
3640325.0 | 0.01711c(13080324) 0.01302c(13080324) 0.00939b(13030524) 0.00843b(13030524) 0.00749b(13030524)
3640075.0 | 0.01184b(13030524) 0.01254b(13030524) 0.01175b(13030524) 0.00918b(13030524) 0.00671b(13030524)
3639825.0 | 0.00952b(13030524) 0.00830b(13030524) 0.00786b(13030524) 0.01015b(13030524) 0.00659b(13030524)
3639575.0 | 0.00683b(13072824) 0.00622b(13072824) 0.00542b(13072824) 0.00495b(13072824) 0.00525b(13072824)
3639325.0 | 0.00630b(13072824) 0.00586b(13072824) 0.00557b(13072824) 0.00504b(13072824) 0.00566b(13072824)
3639075.0 | 0.00488b(13081724) 0.00445b(13081724) 0.00400b(13081224) 0.00379b(13081224) 0.00379b(13081224)
3638825.0 | 0.00484b(13081724) 0.00471b(13081724) 0.00441b(13081724) 0.00400b(13081724) 0.00377b(13081724)
3638575.0 | 0.00489b(13050924) 0.00466b(13050924) 0.00445b(13050924) 0.00400b(13050924) 0.00375b(13050924)
3638325.0 | 0.00418c(13090624) 0.00425b(13072324) 0.00431b(13072324) 0.00420b(13050924) 0.00416b(13050924)
3638075.0 | 0.00524b(13111824) 0.00512b(13111824) 0.00385b(13111824) 0.00304b(13072324) 0.00356b(13072324)
3637825.0 | 0.00603b(13072224) 0.00458b(13072224) 0.00390b(13070224) 0.00373b(13111824) 0.00311b(13070624)
3637575.0 | 0.00514b(13072224) 0.00565b(13072224) 0.00487b(13072224) 0.00358b(13072224) 0.00348b(13070224)
3637325.0 | 0.00404c(13062824) 0.00406b(13072224) 0.00489b(13072224) 0.00490b(13072224) 0.00391b(13072224)
3637075.0 | 0.00389b(13082824) 0.00384c(13062824) 0.00292b(13072224) 0.00391b(13072224) 0.00574b(13072224)
3636825.0 | 0.00515c(13102424) 0.00357b(13082824) 0.00415c(13062824) 0.00425c(13062824) 0.00550b(13072224)
3636575.0 | 0.00610c(13102424) 0.00588c(13102424) 0.00528c(13090524) 0.00336b(13082824) 0.00325c(13062824)
3636325.0 | 0.00608c(13102424) 0.00660c(13102424) 0.00491c(13102424) 0.00341c(13102424) 0.00349b(13082824)
3636075.0 | 0.01196b(13072124) 0.00556c(13102424) 0.00554c(13102424) 0.00493c(13102424) 0.00361c(13102424)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 62
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)				
	484040.00	484090.00	484140.00	484190.00	484240.00

3640300.0 | 0.08442b(13062024) 0.07883b(13062024) 0.08253b(13062024) 0.09986 (13092524) 0.12671b(13021824)
3640250.0 | 0.08891b(13062024) 0.09881b(13112024) 0.11957b(13112024) 0.08210b(13021824) 0.06121b(13021824)
3640200.0 | 0.12553c(13040924) 0.11130c(13040924) 0.07001b(13112024) 0.06507b(13021824) 0.07336b(13021824)
3640150.0 | 0.13857c(13040924) 0.10782c(13040924) 0.06189c(13010624) 0.07784b(13112024) 0.14109c(13040924)
3640100.0 | 0.14938c(13040924) 0.10728c(13040924) 0.06353c(13010624) 0.08352c(13040924) 0.16829c(13040924)
3640050.0 | 0.14888c(13040924) 0.12931c(13040924) 0.06390c(13010624) 0.06142c(13010624) 0.18428c(13040924)
3640000.0 | 0.13317b(13011624) 0.16253c(13040924) 0.06126c(13010624) 0.05229c(13010624) 0.18881b(13011624)
3639950.0 | 0.08805c(13040924) 0.16440b(13010824) 0.07404c(13040924) 0.05317c(13010624) 0.21592b(13010824)
3639900.0 | 0.06934c(13040924) 0.12447c(13122924) 0.18910b(13011624) 0.13737b(13011624) 0.25330b(13010824)
3639850.0 | 0.06651c(13122924) 0.07390c(13122924) 0.14595b(13010824) 0.19083b(13010824) 0.27458b(13010824)
3639800.0 | 0.06128c(13122924) 0.06823c(13122924) 0.07626c(13122924) 0.15092b(13010824) 0.22170b(13011624)

3639750.0 | 0.06174c(13112724) 0.06581c(13112724) 0.07138c(13112724) 0.06697c(13122924) 0.15844b(13010824)
3639700.0 | 0.06207c(13112724) 0.06352c(13112724) 0.06778c(13112724) 0.04745c(13112724) 0.14098b(13010824)
3639650.0 | 0.06235c(13112724) 0.06731c(13112724) 0.07899c(13112724) 0.10868b(13010824) 0.13160b(13010824)
3639600.0 | 0.06370c(13112724) 0.09316b(13010824) 0.10161b(13010824) 0.10540b(13010824) 0.11452b(13031024)
3639550.0 | 0.07839c(13112724) 0.06873c(13112724) 0.06369c(13112724) 0.08533b(13031024) 0.11147b(13031024)
3639500.0 | 0.05273b(13031024) 0.05413b(13031024) 0.05988b(13031024) 0.08048b(13031024) 0.09398b(13031024)
3639450.0 | 0.05485b(13031024) 0.05586b(13031024) 0.05891b(13031024) 0.11169b(13031024) 0.10605b(13031024)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 484290.00	484340.00	484390.00	484440.00	484490.00
3640300.0	0.15413b(13021824)	0.15452b(13021824)	0.14067c(13100324)	0.11136c(13100324)	0.10796c(13100324)
3640250.0	0.05773b(13040724)	0.06059b(13040724)	0.07173b(13021824)	0.08524b(13021824)	0.23003c(13100324)
3640200.0	0.11058b(13021824)	0.13458b(13021824)	0.21175c(13100324)	0.21319c(13100324)	0.08806b(13021824)
3640150.0	0.15374c(13040924)	0.14499b(13021824)	0.17279b(13021824)	0.21018c(13100324)	0.21138c(13100324)
3640100.0	0.17024c(13040924)	0.14987c(13040924)	0.16836b(13021824)	0.13748b(13021824)	0.21767c(13100324)
3640050.0	0.18615c(13040924)	0.16941c(13040924)	0.09611b(13021824)	0.12602b(13021824)	0.11423b(13021824)
3640000.0	0.22384b(13010824)	0.20171b(13011624)	0.10441b(13021824)	0.11454b(13021824)	0.08512b(13021824)
3639950.0	0.18980b(13011624)	0.15537c(13040924)	0.15635c(13040924)	0.09240b(13021824)	0.07124b(13021824)
3639900.0	0.27755b(13010824)	0.25211b(13010824)	0.20261b(13011624)	0.16501b(13011624)	0.07503b(13021824)
3639850.0	0.25635b(13010824)	0.25037b(13010824)	0.24341b(13010824)	0.24363b(13010824)	0.08317c(13040924)
3639800.0	0.25104b(13010824)	0.25738b(13010824)	0.24894b(13010824)	0.09490c(13040924)	0.09959c(13040924)
3639750.0	0.26577b(13010824)	0.25807b(13010824)	0.25032b(13010824)	0.10468b(13011624)	0.10980b(13011624)
3639700.0	0.17164b(13010824)	0.24693b(13010824)	0.27106b(13010824)	0.22348b(13010824)	0.26864b(13010824)
3639650.0	0.14449b(13031024)	0.23896b(13010824)	0.16526b(13011624)	0.16085b(13011624)	0.14367b(13011624)
3639600.0	0.13345b(13031024)	0.22171b(13031024)	0.24873b(13010824)	0.26729b(13010824)	0.26439b(13010824)
3639550.0	0.14260b(13031024)	0.18172b(13010824)	0.25475b(13031024)	0.19968b(13031024)	0.25441b(13010824)
3639500.0	0.13873b(13031024)	0.17741b(13010824)	0.29781b(13010824)	0.25464b(13010824)	0.29240b(13010824)
3639450.0	0.12975b(13031024)	0.19618b(13010824)	0.25589b(13010824)	0.25694b(13010824)	0.25532b(13010824)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 484540.00	484590.00	484640.00	484690.00	484740.00
3640300.0	0.07997c(13100324)	0.05379 (13012724)	0.04359 (13012724)	0.03486 (13012724)	0.03438 (13012724)
3640250.0	0.15970c(13100324)	0.06517c(13100324)	0.03864c(13100324)	0.03684 (13012724)	0.03553 (13012724)
3640200.0	0.07395c(13100324)	0.18349c(13100324)	0.07233c(13100324)	0.07333c(13100324)	0.04705c(13100324)
3640150.0	0.07759b(13021824)	0.05787b(13040724)	0.13509c(13100324)	0.06466c(13100324)	0.05636c(13100324)
3640100.0	0.21229c(13100324)	0.23993c(13100324)	0.05598c(13100324)	0.09070c(13100324)	0.07087c(13100324)
3640050.0	0.15060c(13100324)	0.21472c(13100324)	0.21861c(13100324)	0.23888c(13100324)	0.06410c(13100324)
3640000.0	0.15113c(13100324)	0.21266c(13100324)	0.21559c(13100324)	0.21662c(13100324)	0.21667c(13100324)
3639950.0	0.23861c(13100324)	0.21164c(13100324)	0.21418c(13100324)	0.21436c(13100324)	0.21288c(13100324)
3639900.0	0.22820b(13010824)	0.23708c(13100324)	0.22848c(13100324)	0.21432c(13100324)	0.20898c(13100324)
3639850.0	0.23227b(13010824)	0.22741b(13082824)	0.22834b(13082824)	0.21841b(13082824)	0.21428c(13100324)
3639800.0	0.27942b(13010824)	0.23708b(13010824)	0.21999b(13082824)	0.25545b(13082824)	0.20416b(13082824)
3639750.0	0.09531c(13040924)	0.24591b(13010824)	0.26676b(13010824)	0.25415b(13082824)	0.20962b(13082824)
3639700.0	0.25379b(13010824)	0.22792b(13010824)	0.25703b(13010824)	0.22459b(13082824)	0.21409b(13082824)

3639650.0 | 0.26027b(13010824) 0.24826b(13010824) 0.25656b(13010824) 0.22031b(13010824) 0.21766b(13082824)
3639600.0 | 0.17115c(13013124) 0.25227b(13010824) 0.25118b(13010824) 0.22670b(13010824) 0.22334b(13010824)
3639550.0 | 0.26000b(13010824) 0.20928b(13010824) 0.24579b(13010824) 0.23748b(13010824) 0.23168b(13010824)
3639500.0 | 0.26295b(13010824) 0.24952b(13010824) 0.24960b(13010824) 0.24088b(13010824) 0.24001b(13010824)
3639450.0 | 0.25392b(13010824) 0.24993b(13010824) 0.24560b(13010824) 0.24278b(13010824) 0.24171b(13010824)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 484790.00	484840.00	484890.00	484940.00	484990.00
3640300.0	0.03409 (13012724)	0.03325 (13012724)	0.03257 (13012724)	0.03141 (13012724)	0.03020 (13012724)
3640250.0	0.03474 (13012724)	0.03322 (13012724)	0.03313 (13012724)	0.03045 (13012724)	0.03015 (13012724)
3640200.0	0.03534 (13012724)	0.03458 (13012724)	0.03311 (13012724)	0.03181 (13012724)	0.03001 (13012724)
3640150.0	0.04604c(13100324)	0.03629 (13012724)	0.03494 (13012724)	0.03296 (13012724)	0.03117 (13012724)
3640100.0	0.04327c(13100324)	0.03764 (13012724)	0.03711 (13012724)	0.03534 (13012724)	0.03160 (13012724)
3640050.0	0.07125c(13100324)	0.06009c(13100324)	0.04472 (13012724)	0.03619 (13012724)	0.03273 (13012724)
3640000.0	0.22195c(13100324)	0.05142b(13100224)	0.05077 (13012724)	0.04728 (13012724)	0.03504 (13012724)
3639950.0	0.21273c(13100324)	0.21463c(13100324)	0.18178c(13100324)	0.04932c(13100324)	0.03399 (13012724)
3639900.0	0.21434c(13100324)	0.22812c(13100324)	0.23246c(13100324)	0.04312b(13072524)	0.03545 (13012724)
3639850.0	0.20590c(13100324)	0.20409c(13100324)	0.04780b(13100224)	0.13265c(13100324)	0.12302c(13100324)
3639800.0	0.20177b(13082824)	0.06265b(13100224)	0.15528c(13100324)	0.23150c(13100324)	0.20481c(13100324)
3639750.0	0.20873b(13082824)	0.05383b(13030524)	0.20471b(13082824)	0.20467b(13072224)	0.19958b(13072224)
3639700.0	0.22615b(13082824)	0.07981c(13020924)	0.21269b(13082824)	0.20876b(13072224)	0.20780b(13072224)
3639650.0	0.06024c(13012524)	0.18502b(13082824)	0.21721b(13082824)	0.21538b(13082824)	0.21288b(13072224)
3639600.0	0.10193b(13021124)	0.22930b(13082824)	0.22259b(13082824)	0.22491b(13082824)	0.22194b(13082824)
3639550.0	0.23250b(13010824)	0.23158b(13010824)	0.22895b(13010824)	0.22763b(13082824)	0.22826b(13082824)
3639500.0	0.23807b(13010824)	0.23715b(13010824)	0.23473b(13010824)	0.23355b(13082824)	0.23574b(13082824)
3639450.0	0.24194b(13010824)	0.24005b(13010824)	0.23891b(13010824)	0.23968b(13082824)	0.24047b(13082824)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 485040.00	485090.00	485140.00	485190.00	485240.00
3640300.0	0.02856 (13012724)	0.02845 (13012724)	0.02671 (13012724)	0.02574 (13012724)	0.02369 (13012724)
3640250.0	0.02882 (13012724)	0.02799 (13012724)	0.02608 (13012724)	0.02486 (13012724)	0.02408 (13012724)
3640200.0	0.02960 (13012724)	0.02753 (13012724)	0.02635 (13012724)	0.02464 (13012724)	0.02394 (13012724)
3640150.0	0.02902 (13012724)	0.02812 (13012724)	0.02597 (13012724)	0.02431 (13012724)	0.02319 (13012724)
3640100.0	0.02964 (13012724)	0.02782 (13012724)	0.02486 (13012724)	0.02439 (13012724)	0.02322 (13012724)
3640050.0	0.03019 (13012724)	0.02632 (13012724)	0.02511 (13012724)	0.02386 (13012724)	0.02298 (13012724)
3640000.0	0.03079 (13012724)	0.02785 (13012724)	0.02551 (13012724)	0.02420c(13100324)	0.02294c(13100324)
3639950.0	0.03225 (13012724)	0.02866 (13012724)	0.02655c(13100324)	0.02526c(13100324)	0.02399c(13100324)
3639900.0	0.03172 (13012724)	0.02960b(13072524)	0.02736b(13072524)	0.02624b(13030524)	0.02526b(13030524)
3639850.0	0.04016b(13072524)	0.03173b(13072524)	0.02992b(13072524)	0.02844b(13030524)	0.02849b(13030524)
3639800.0	0.07872c(13100324)	0.03727b(13072524)	0.03538b(13072524)	0.03501b(13030524)	0.04702b(13100224)
3639750.0	0.22085c(13100324)	0.10872c(13100324)	0.07903c(13100324)	0.15232c(13100324)	0.21544c(13080324)
3639700.0	0.20198b(13072224)	0.19787b(13021124)	0.19821c(13080324)	0.20332c(13080324)	0.20601c(13080324)
3639650.0	0.21314b(13021124)	0.21583b(13021124)	0.21326b(13021124)	0.20787b(13021124)	0.20914c(13080324)
3639600.0	0.21938b(13021124)	0.21888b(13021124)	0.22220b(13010824)	0.21966b(13010824)	0.23505b(13072224)

3639550.0 | 0.22651b(13010824) 0.22764b(13010824) 0.23524b(13010824) 0.23925b(13010824) 0.22223b(13010824)
3639500.0 | 0.23583b(13082824) 0.23392b(13010824) 0.23215b(13010824) 0.22809b(13010824) 0.22652b(13072224)
3639450.0 | 0.23992b(13082824) 0.23732b(13082824) 0.24266b(13082824) 0.23234b(13082824) 0.23195b(13072224)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 485290.00	485340.00	485390.00	485440.00	485490.00
3640300.0	0.02324 (13012724)	0.02163 (13012724)	0.02134 (13012724)	0.02069 (13012724)	0.01993 (13012724)
3640250.0	0.02300 (13012724)	0.02187 (13012724)	0.02148 (13012724)	0.02112 (13012724)	0.02044 (13012724)
3640200.0	0.02216 (13012724)	0.02197 (13012724)	0.02178 (13012724)	0.02120 (13012724)	0.02059 (13012724)
3640150.0	0.02212 (13012724)	0.02133 (13012724)	0.02097 (13012724)	0.02078 (13012724)	0.02073 (13012724)
3640100.0	0.02231 (13012724)	0.02180 (13012724)	0.02166 (13012724)	0.02169 (13012724)	0.02159 (13012724)
3640050.0	0.02222 (13012724)	0.02193 (13012724)	0.02210 (13012724)	0.02226 (13012724)	0.02240 (13012724)
3640000.0	0.02259 (13012724)	0.02274 (13012724)	0.02323 (13012724)	0.02346 (13012724)	0.02325 (13012724)
3639950.0	0.02342 (13012724)	0.02407 (13012724)	0.02485 (13012724)	0.02524 (13012724)	0.03271 (13012724)
3639900.0	0.02478 (13012724)	0.02596 (13012724)	0.03567 (13012724)	0.03023 (13012724)	0.04480 (13012724)
3639850.0	0.02908 (13012724)	0.03588 (13012724)	0.05810 (13012724)	0.08840 (13012724)	0.08858b(13081424)
3639800.0	0.09144c(13100324)	0.12992b(13100224)	0.13521c(13080324)	0.12970c(13080324)	0.11827c(13080324)
3639750.0	0.21486c(13080324)	0.21608c(13080324)	0.21405c(13080324)	0.21811c(13080324)	0.22472c(13080324)
3639700.0	0.20870c(13080324)	0.20936c(13080324)	0.21805c(13080324)	0.23567c(13080324)	0.22351c(13080324)
3639650.0	0.20677c(13080324)	0.21071c(13080324)	0.21444c(13080324)	0.21755c(13080324)	0.22350c(13080324)
3639600.0	0.22938b(13072224)	0.21697b(13072224)	0.21624b(13072224)	0.23355c(13080324)	0.21633c(13080324)
3639550.0	0.22571b(13072224)	0.22853b(13072224)	0.22927b(13072224)	0.22669b(13072224)	0.22450b(13072224)
3639500.0	0.23250b(13072224)	0.23327b(13072224)	0.24431b(13072224)	0.23567b(13072224)	0.23462b(13072224)
3639450.0	0.23399b(13072224)	0.23672b(13072224)	0.23668b(13072224)	0.23788b(13072224)	0.22511b(13072224)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 68
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 485540.00	485590.00	485640.00	485690.00	485740.00
3640300.0	0.01855 (13012724)	0.01786 (13012724)	0.01713 (13012724)	0.01667 (13012724)	0.01626 (13012724)
3640250.0	0.01888 (13012724)	0.01845 (13012724)	0.01797 (13012724)	0.01715 (13012724)	0.01689 (13012724)
3640200.0	0.01925 (13012724)	0.01923 (13012724)	0.01893 (13012724)	0.01755 (13012724)	0.01721 (13012724)
3640150.0	0.02030 (13012724)	0.02002 (13012724)	0.01985 (13012724)	0.01776 (13012724)	0.01740 (13012724)
3640100.0	0.02147 (13012724)	0.02077 (13012724)	0.02059 (13012724)	0.02019 (13012724)	0.01819 (13012724)
3640050.0	0.02252 (13012724)	0.02251 (13012724)	0.02139 (13012724)	0.02500 (13012724)	0.02733c(13080324)
3640000.0	0.02311 (13012724)	0.02576 (13012724)	0.02221 (13012724)	0.02483 (13012724)	0.04029c(13080324)
3639950.0	0.02602 (13012724)	0.05123c(13080324)	0.05370b(13060924)	0.06502b(13081424)	0.06542c(13080324)
3639900.0	0.06531b(13060924)	0.07546b(13081424)	0.07051b(13060924)	0.07188c(13080324)	0.07603c(13080324)
3639850.0	0.08097c(13080324)	0.08566c(13080324)	0.09077c(13080324)	0.12323b(13100224)	0.21980c(13080324)
3639800.0	0.11835c(13080324)	0.21137c(13080324)	0.24428c(13080324)	0.19288c(13080324)	0.06853b(13030524)
3639750.0	0.22915c(13080324)	0.24522c(13080324)	0.25011c(13080324)	0.15468c(13080324)	0.07402b(13030524)
3639700.0	0.23299c(13080324)	0.23153c(13080324)	0.24184c(13080324)	0.13018c(13080324)	0.06785b(13030524)
3639650.0	0.22454c(13080324)	0.22676c(13080324)	0.07901b(13072524)	0.05418b(13030524)	0.04949b(13030524)
3639600.0	0.21928c(13080324)	0.14950c(13080324)	0.05641b(13030524)	0.05037b(13030524)	0.04646b(13030524)
3639550.0	0.23757b(13072224)	0.06067b(13030524)	0.05250b(13030524)	0.04701b(13030524)	0.04328b(13030524)
3639500.0	0.10921b(13072224)	0.05294b(13030524)	0.04856b(13030524)	0.04237b(13030524)	0.03902b(13030524)

3639450.0 | 0.05779b(13081724) 0.05240b(13081724) 0.04482b(13030524) 0.03990b(13030524)
0.03470b(13081724)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 69
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 485790.00	485840.00	485890.00	485940.00	485990.00
3640300.0	0.03029c(13080324)	0.03023c(13080324)	0.03939c(13080324)	0.03923c(13080324)	0.03908c(13080324)
3640250.0	0.04175c(13080324)	0.04110c(13080324)	0.04188c(13080324)	0.04129c(13080324)	0.03932c(13080324)
3640200.0	0.04361c(13080324)	0.04094c(13080324)	0.04246c(13080324)	0.04161c(13080324)	0.04101c(13080324)
3640150.0	0.04063c(13080324)	0.04622c(13080324)	0.04622c(13080324)	0.04242c(13080324)	0.04258c(13080324)
3640100.0	0.04296c(13080324)	0.04897c(13080324)	0.04869c(13080324)	0.04297c(13080324)	0.04469c(13080324)
3640050.0	0.02365 (13012724)	0.03834c(13080324)	0.05188c(13080324)	0.05226c(13080324)	0.05045b(13081424)
3640000.0	0.05187c(13080324)	0.05781c(13080324)	0.05983c(13080324)	0.06120b(13032524)	0.06580b(13081424)
3639950.0	0.06592c(13080324)	0.06704c(13080324)	0.07330b(13081424)	0.08398b(13081424)	0.11457b(13100224)
3639900.0	0.08613b(13100224)	0.12493b(13100224)	0.18075c(13080324)	0.12815c(13080324)	0.18557c(13080324)
3639850.0	0.18642c(13080324)	0.10907c(13080324)	0.08005c(13080324)	0.09563c(13080324)	0.17618c(13080324)
3639800.0	0.07244b(13030524)	0.07465b(13030524)	0.08055b(13030524)	0.08453b(13030524)	0.14455c(13080324)
3639750.0	0.08698b(13030524)	0.08796b(13030524)	0.07121b(13030524)	0.06984b(13030524)	0.06789b(13030524)
3639700.0	0.05057b(13030524)	0.04027b(13030524)	0.03736b(13030524)	0.03378b(13030524)	0.03247b(13030524)
3639650.0	0.04673b(13030524)	0.03366b(13030524)	0.03182b(13030524)	0.03034b(13030524)	0.02927b(13030524)
3639600.0	0.04401b(13030524)	0.03106b(13030524)	0.02993b(13030524)	0.02843b(13030524)	0.02934b(13030524)
3639550.0	0.03974b(13030524)	0.03217b(13030524)	0.03245b(13030524)	0.03030b(13030524)	0.02822b(13030524)
3639500.0	0.03530b(13030524)	0.03241b(13030524)	0.02938b(13030524)	0.02786b(13081724)	0.02683b(13081724)
3639450.0	0.03189b(13081724)	0.03078b(13081724)	0.02794b(13081724)	0.02811b(13081724)	0.02633b(13081724)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
PAGE 70
*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,
A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 486040.00	486090.00
3640300.0	0.03869c(13080324)	0.03860c(13080324)
3640250.0	0.03939c(13080324)	0.03482c(13080324)
3640200.0	0.04012c(13080324)	0.03882c(13080324)
3640150.0	0.04154c(13080324)	0.04044c(13080324)
3640100.0	0.04536b(13081424)	0.04579b(13081424)
3640050.0	0.05615b(13081424)	0.06040b(13081424)
3640000.0	0.07264b(13081424)	0.08243b(13081424)
3639950.0	0.13915c(13080324)	0.14275c(13080324)
3639900.0	0.19860c(13080324)	0.19682c(13080324)
3639850.0	0.19703c(13080324)	0.18981c(13080324)
3639800.0	0.18316c(13080324)	0.14979c(13080324)
3639750.0	0.06402b(13030524)	0.04591b(13030524)
3639700.0	0.03109b(13030524)	0.02787b(13030524)
3639650.0	0.02825b(13030524)	0.02602b(13030524)
3639600.0	0.02722b(13030524)	0.02580b(13030524)
3639550.0	0.02721b(13030524)	0.02269b(13030524)
3639500.0	0.02652b(13081724)	0.02032b(13030524)
3639450.0	0.02590b(13081724)	0.01820b(13081724)

*** AERMOD - VERSION 18081 *** *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc *** 03/20/19
*** AERMET - VERSION 14134 *** *** *** 10:12:43
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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV RURAL

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
ALL	1ST HIGHEST VALUE IS	0.16967 AT (484540.00, 3639800.00, 95.20, 116.10, 0.00) GC UCART2
	2ND HIGHEST VALUE IS	0.16575 AT (484640.00, 3639750.00, 94.90, 127.80, 0.00) GC UCART2
	3RD HIGHEST VALUE IS	0.15960 AT (484690.00, 3639800.00, 94.70, 128.80, 0.00) GC UCART2
	4TH HIGHEST VALUE IS	0.15691 AT (484640.00, 3639700.00, 94.00, 127.60, 0.00) GC UCART2
	5TH HIGHEST VALUE IS	0.15672 AT (484690.00, 3639750.00, 94.20, 128.80, 0.00) GC UCART2
	6TH HIGHEST VALUE IS	0.15629 AT (484490.00, 3639500.00, 94.60, 101.20, 0.00) GC UCART2

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       7TH HIGHEST VALUE IS      0.15549 AT (  484490.00,  3639700.00,    95.60,   112.70,    0.00)  GC  UCART2
       8TH HIGHEST VALUE IS      0.15425 AT (  484540.00,  3639950.00,    94.70,   127.80,    0.00)  GC  UCART2
       9TH HIGHEST VALUE IS      0.15415 AT (  484590.00,  3639900.00,    94.50,   128.60,    0.00)  GC  UCART2
      10TH HIGHEST VALUE IS      0.15372 AT (  484640.00,  3639650.00,    93.20,   127.60,    0.00)  GC  UCART2

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

 *** AERMOD - VERSION  18081 ***   *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc        ***
03/20/19
 *** AERMET - VERSION  14134 ***   ***                                                      ***        10:12:43
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 *** MODELOPTs:    NonDFAULT  CONC  FLAT and  ELEV  RURAL

                                     *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

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

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

ALL     HIGH   1ST HIGH VALUE IS       0.29781b ON 13010824: AT (  484390.00,  3639500.00,    95.30,    95.50,    0.00)  GC
UCART2

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

 *** AERMOD - VERSION  18081 ***   *** F:\Work\STP 29 - 3 Roots\AQ_GHG\PM Modeling\3Roots\3Roots.isc        ***
03/20/19
 *** AERMET - VERSION  14134 ***   ***                                                      ***        10:12:43
                                                                                            PAGE  73
 *** MODELOPTs:    NonDFAULT  CONC  FLAT and  ELEV  RURAL

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

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

 A Total of           0 Fatal Error Message(s)
 A Total of           2 Warning Message(s)
 A Total of       11311 Informational Message(s)

 A Total of        8760 Hours Were Processed

 A Total of        1692 Calm Hours Identified

 A Total of         411 Missing Hours Identified (  4.69 Percent)

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

   ********   WARNING MESSAGES   ********
 RE W213    378      RECART: ELEV Input Inconsistent With Option: Input Ignored       UCART1
 RE W213    633      RECART: ELEV Input Inconsistent With Option: Input Ignored       UCART2

   *************************************
   *** AERMOD Finishes Successfully ***
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