Appendix C Air Quality and Greenhouse Gas Impact Analysis

Appendices

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AIR QUALITY AND GREENHOUSE GAS IMPACT ANALYSIS

ONE METRO WEST PROJECT

COSTA MESA, CALIFORNIA

LSA

January 2020

AIR QUALITY AND GREENHOUSE GAS IMPACT ANALYSIS

ONE METRO WEST PROJECT

COSTA MESA, CALIFORNIA

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Project No. RSE1901

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EXECUTIVE SUMMARY

LSA has prepared this air quality and greenhouse gas (GHG) impact analysis for the proposed One Metro West Project (project) in Costa Mesa, California.

The proposed project consists of a mixed-use development that consists of residential, specialty retail, creative office, and recreation uses. The project's objective is to create a mixed-use community to provide housing near jobs in a campus-like setting with on-site amenities and a 1.7-acre open space area with a connection to bicycle trails. The site plan would accommodate 1,057 multifamily residential units, 25,000 square feet (sf) of commercial creative office, a 1,500 sf community center, and 6,000 sf of specialty retail, and would require a General Plan amendment and a zoning change. The project site is currently occupied by a light industrial facility. The project is anticipated to be completed and fully occupied by December 2027.

This air quality and GHG impact analysis provides a discussion of the proposed project, the physical setting of the project area, and the regulatory framework. The report provides data on existing air quality and evaluates potential air quality and GHG impacts associated with the proposed project. Modeled vehicle emissions are consistent with the trip generation data from the *Traffic Impact Analysis Report* (LSA 2020).

Emissions with regional effects during project construction, calculated with the California Emissions Estimator Model (CalEEMod; Version 2016.3.2), indicate that the project would exceed construction emission criteria pollutant thresholds established by the South Coast Air Quality Management District (SCAQMD) and mitigation would be required. Compliance with SCAQMD Rules and Regulations during construction would reduce construction-related air quality impacts from fugitive dust emissions and construction equipment emissions. Standard dust suppression measures recommended by SCAQMD have been identified for short-term construction emissions; however, construction VOC emissions would exceed the SCAQMD threshold due to architectural coating emissions. Construction emissions for the proposed project would not exceed the localized significance thresholds (LSTs) or health risk thresholds.

The net increase in pollutant emissions from project operations, also calculated with CalEEMod, would also not exceed the SCAQMD criteria pollutant thresholds. LSTs would not be exceeded by long-term emissions from project operations. Historical air quality data show that existing carbon monoxide (CO) levels for the project area and the general vicinity do not exceed either State or federal ambient air quality standards. The proposed project would not result in any significant levels of CO concentrations at intersections in the project vicinity.

This study addresses the potential of the project to affect global climate change. Short-term construction and long-term operational emissions of the principal GHGs, including carbon dioxide and methane, are quantified, and their significance relative to the SCAQMD GHG tiered thresholds is discussed. The analysis indicates the project would exceed the SCAQMD Tier 3 bright-line threshold, and would have a significant project level and cumulative impact related to GHG emissions.

The proposed project, as analyzed, would result in air emissions that are consistent with the existing Southern California Association of Governments Regional Comprehensive Plan Guidelines and the SCAQMD Air Quality Management Plan (AQMP). Thus, the proposed project would be consistent with the regional AQMP.

Cumulative construction and operational emissions were found to be less than significant. The proposed project's design features that are also GHG reduction measures result in project consistency with the California Climate Change Scoping Plan, Southern California Association of Government's Regional Transportation Plan/Sustainable Communities Strategy, and the City of Costa Mesa's General Plan. Therefore, the proposed project would not conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the GHG emissions. However, give the project would exceed the Tier 3 bright line threshold, it is concluded that the proposed project's impact related to GHG emissions would be cumulatively considerable.

This evaluation was prepared in conformance with appropriate standards, using procedures and methodologies in the SCAQMD *CEQA Air Quality Handbook* (SCAQMD 1993) and associated updates. Air quality data posted on the respective websites of the California Air Resources Board and the United States Environmental Protection Agency are included to document the local air quality environment.

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

LIST OF ABBREVIATIONS AND ACRONYMS

°F	degrees Fahrenheit
°C	degrees Celsius
µg/m^3	micrograms per cubic meter
AAQS	ambient air quality standards
AB	Assembly Bill
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
AQMP	Air Quality Management Plan
Basin	South Coast Air Basin
BAU	Business As Usual
CAA	Clean Air Act
CAAQS	California ambient air quality standards
CalEEMod	California Emissions Estimator Model
CalRecycle	California Department of Resources Recycling and Recovery
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCR	California Code of Regulations
CEC	California Energy Commission
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CH_4	methane
City	City of Costa Mesa
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
CY	cubic yard
DPM	diesel particulate matter
EO	Executive Order
EPA	United States Environmental Protection Agency
GCC	global climate change
GHG	greenhouse gas
GWh	gigawatt hours
GWP	global warming potential
H_2S	hydrogen sulfide
HFCs	hydrofluorocarbons
hr	hour
I-405	Interstate 405
IPCC	Intergovernmental Panel on Climate Change
lbs/day	pounds per day
LST	localized significance threshold
MEI	maximum exposed individual
mg/m^3	milligrams per cubic meter

MMT	million metric tons
MMT CO_2e	million metric tons of carbon dioxide equivalent
mpg	miles per gallon
mph	miles per hour
MPO	Metropolitan Planning Organization
MT	metric ton(s)
MT CO_2e	metric tons of carbon dioxide equivalent
MT CO_2e/yr	metric tons of carbon dioxide equivalent per year
MT/yr	metric tons per year
N_2O	nitrous oxide
NAAQS	national ambient air quality standards
NHTSA	National Highway Traffic Safety Administration
NO	nitric oxide
NO_2	nitrogen dioxide
NO_X	nitrogen oxides (aka, oxides of nitrogen)
O_3	ozone (or smog)
PFCs	perfluorocarbons
PM	particulate matter
PM_{10}	particulate matter less than 10 microns in size
$PM_{2.5}$	particulate matter less than 2.5 microns in size
ppb	parts per billion
ppm	parts per million
project	One Metro West Project
ROCs	reactive organic compounds
ROGs	reactive organic gases
RPS	Renewables Portfolio Standard
RTP	Regional Transportation Plan
SB	Senate Bill
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCS	Sustainable Communities Strategy
sf	square feet/foot
SF_6	sulfur hexafluoride
SIP	State Implementation Plan
SO_2	sulfur dioxide
SO_X	sulfur oxides (aka, oxides of sulfur)
SRA	Source Receptor Area
State	State of California
TAC	toxic air contaminant
VMT	vehicle miles traveled
VOCs	volatile organic compounds
Working Group	SCAQMD GHG CEQA Significance Threshold Working Group

INTRODUCTION

LSA has prepared this air quality and greenhouse gas (GHG) impact analysis to evaluate the potential air quality and climate change impacts and mitigation measures associated with the development of the proposed One Metro West Project (project), a mixed-use development in Costa Mesa, California.

This report provides a project-specific air quality and climate change impact analysis by examining the impacts of the proposed project on the region and on nearby sensitive uses. This air quality and GHG impact analysis follows guidelines identified by the South Coast Air Quality Management District (SCAQMD) in its *CEQA Air Quality Handbook* (SCAQMD 1993), and associated updates. The City of Costa Mesa (City) is the Lead Agency for the proposed project. Pursuant to the California Environmental Quality Act (CEQA) and its implementing regulations,[1] the Lead Agency has the principal responsibility for implementing and approving a project that may have a significant effect on the environment.

PROJECT LOCATION

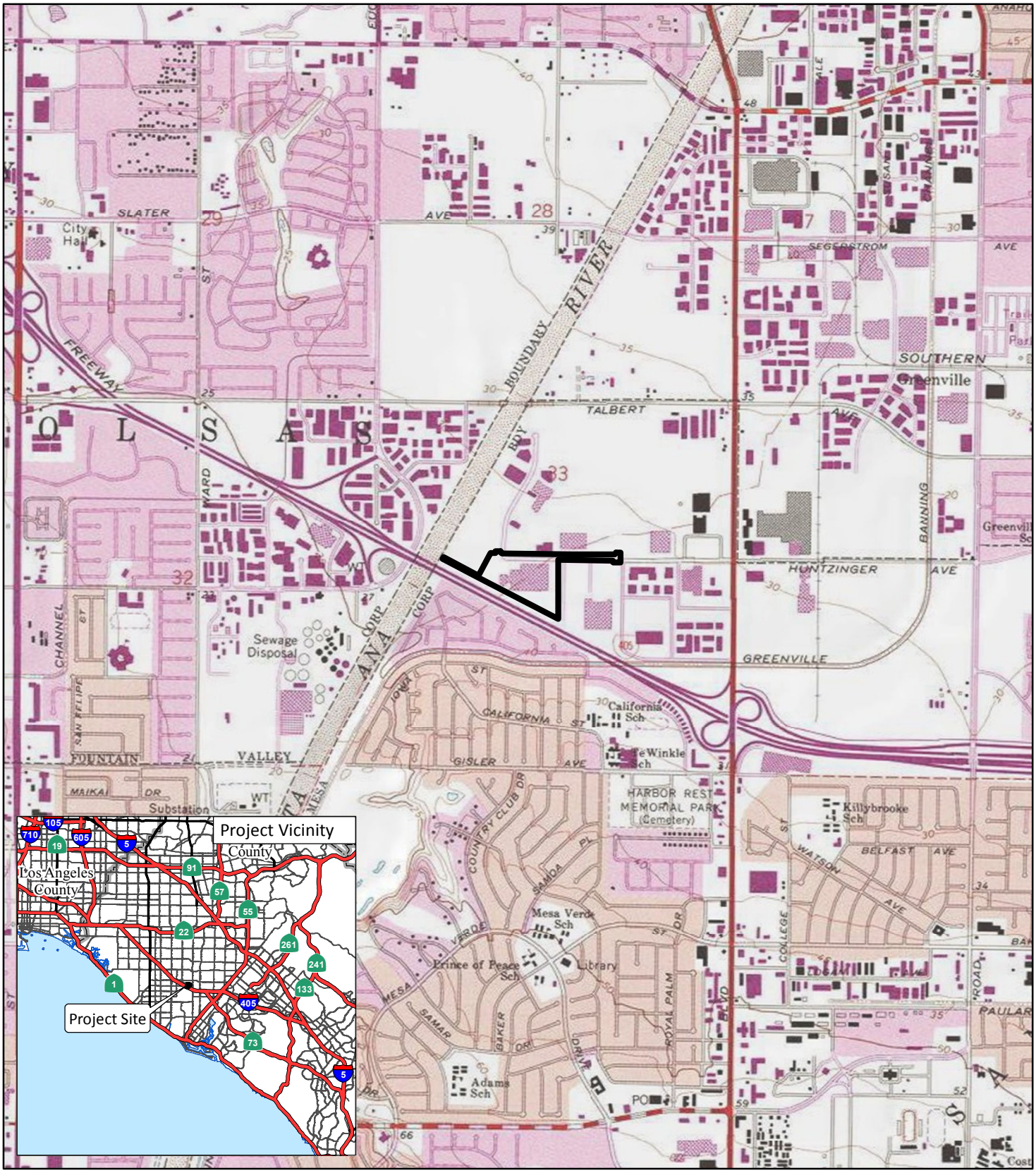
The 15.23-acre project site is at 1683 Sunflower Avenue in Costa Mesa, California (see Figure 1, Regional and Project Site Map). The project site is bounded by Sunflower Avenue to the north, industrial and logistics uses to the west, the San Diego Freeway (Interstate 405 [I-405]) to the south, and the South Coast Collection (also known as SOCO) retail center to the east. The project site is currently occupied by a light industrial facility.

Regional access to the project site is provided by I-405, the Veterans Memorial Freeway (State Route 73), and the Costa Mesa Freeway (State Route 55). Harbor Boulevard and Sunflower Avenue are the major roadways that provide local access.

PROJECT DESCRIPTION

The proposed One Metro West project would construct a mixed-use development consisting of residential, specialty retail, creative office, and recreation uses. The project would develop a mixed-use community with housing near jobs in a campus-like setting, a 1.7-acre open space area, and would provide a connection to bicycle trails. The proposed project would provide 1,057 multifamily residential units, 25,000 square feet (sf) of commercial creative office, a 1,500 sf community center, and 6,000 sf of specialty retail. This project would support up to 2,886 residents (US Census) and 131 employees (SCAG 2001). Figure 2 depicts the project's proposed site plan. Construction would start in 2022 and conclude in 2027, lasting approximately 5 years.

[1] Public Resources Code Sections 21000–21177 and California Code of Regulations Title 14, Division 6, Chapter 3.



LSA

LEGEND

Project Site

FIGURE 1

N

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FEET

SOURCE: USGS 7.5' Quad - Newport Beach (1981), CA

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One Metro West

Regional and Project Site Map

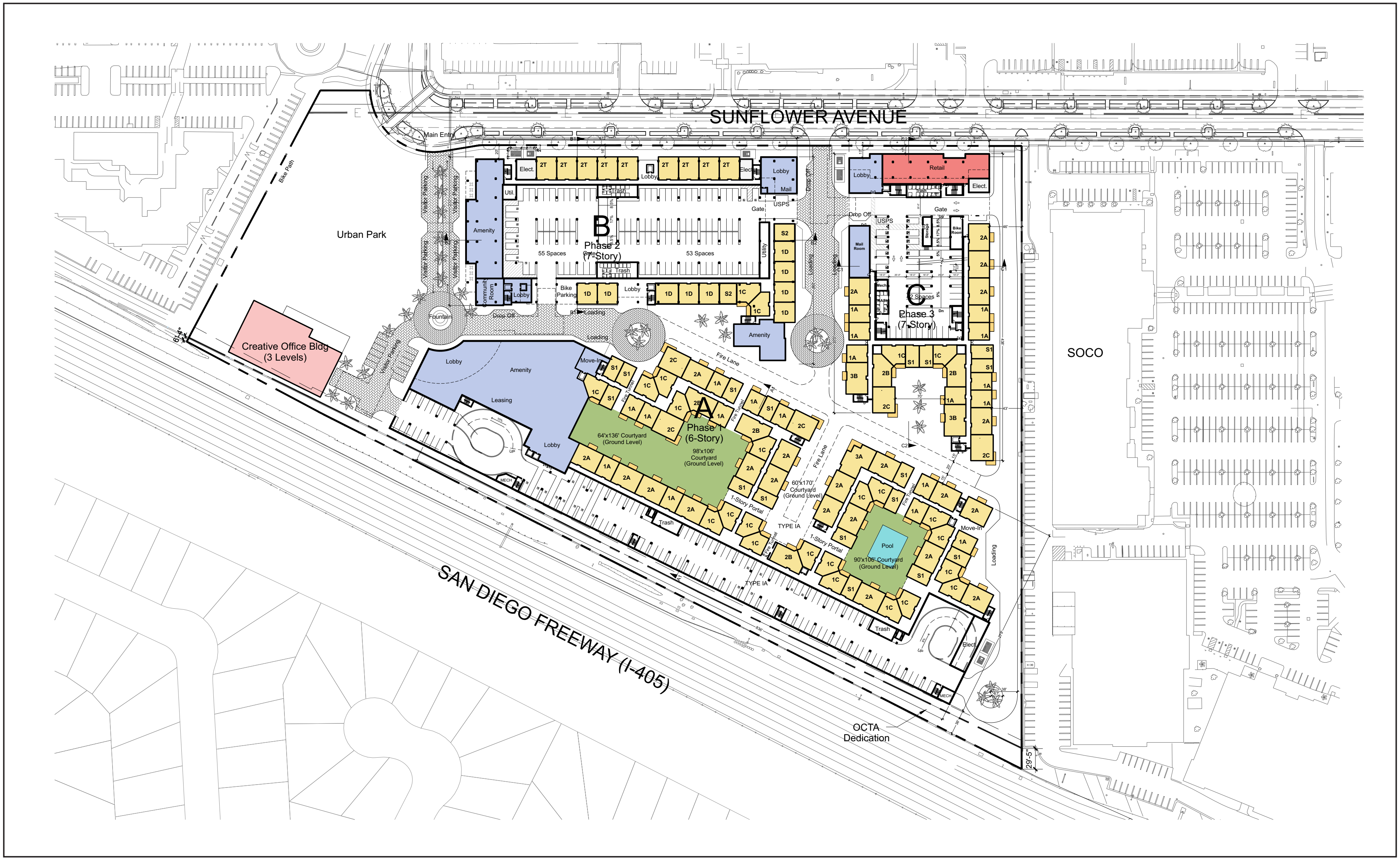

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FIGURE 2

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0 100 200
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SOURCE: TSM Architects, May 2019

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One Metro West

Ground Level Site Plan

In order to redevelop the project site, the existing 345,000 sf, two-story industrial building, associated parking areas, drive aisles, hardscape improvements, and landscaping would be demolished. The site would then be cleared and graded for development of the proposed project.

The project would incorporate energy-saving and sustainable design features and operational programs, including those required by the California Green Building Standards Code (CALGreen; California Code of Regulations, Title 24, Part 11). The proposed project would also incorporate the following design features and attributes that would provide energy efficiency, sustainability, and reduce vehicle miles traveled consistent with Statewide regulations including Senate Bill (SB) 375 and SB 743.

- An Active Transportation Hub will be placed immediately adjacent to the park. The Active Transportation Hub will include bicycle racks and lockers, bicycle storage, repair facilities, and community-wide bike-share programs and events.

- Installation of electric vehicle charging stations at nonresidential and residential buildings. Inclusion of preferential parking for low-emitting, fuel-efficient, and carpool/car share/van vehicles in all parking areas.

- All major appliances (i.e., dishwashers, refrigerators, clothes washers, and dryers) to be provided/installed would be Energy Star-certified appliances or appliances of equivalent energy efficiency.

- To reduce water demands and associated energy use, the project uses would implement a water conservation strategy and demonstrate a minimum 20 percent reduction in indoor water usage compared to baseline water demand (total expected water demand without implementation of the water conservation strategy). Project uses would also be required to implement:

    - A landscaping palette emphasizing drought-tolerant plants consistent with provisions of the State Model Water Efficient Landscape Ordinance and/or City requirements.

    - Water-efficient irrigation techniques consistent with City requirements.

    - Environmental Protection Agency (EPA) Certified WaterSense or equivalent faucets, toilets, and other plumbing fixtures.

The proposed project requires approval of a General Plan amendment and a zoning change. The proposed General Plan Amendment would change the existing “Industrial Park” land use designation to “High Density Residential” to allow a mixed-use development with site-specific base density of 80 dwelling units per acre and a building height of seven stories. The proposed zone change would replace the current “MP-Industrial” zoning designation of the project site with “Planned Development Residential – High Density-Specific Plan (SP)” zoning.

Additionally, the project would include a new Specific Plan and Master Plan. The Specific Plan acts as a bridge between the General Plan and project development. The Specific Plan would be adopted by ordinance by the Costa Mesa City Council. The Specific Plan would function as the regulatory

document for implementing zoning for the entire project site, ensuring the orderly and systematic implementation of the City's General Plan. The Specific Plan would establish the necessary land use plan, development standards, regulations, design guidelines, infrastructure systems, and implementation strategies on which subsequent, project-related development activities would be founded. Upon adoption of the Specific Plan, subsequent project-specific design review plans, detailed site plans, grading and building permits, or any other actions requiring either ministerial or discretionary approvals would be required to demonstrate consistency with the Specific Plan. The One Metro West Master Plan will implement the One Metro West Specific Plan. The Master Plan is intended to provide all the detail not provided by the design standards and design guidelines in the Specific Plan (zoning).

Existing Sensitive Land Uses in the Project Area

Sensitive receptors include residences, schools, hospitals, and similar uses sensitive to air quality. Residential areas are considered to be sensitive to air pollution because residents (including children and the elderly) tend to be at home for extended periods of time, resulting in sustained exposure to any pollutants present. The nearest sensitive receptors would be the residences to the south of I-405, south of the project site boundary, as shown in Figure 3. Additionally, the California Elementary School is approximately 1,500 feet to the south of the project site, also shown on Figure 3.

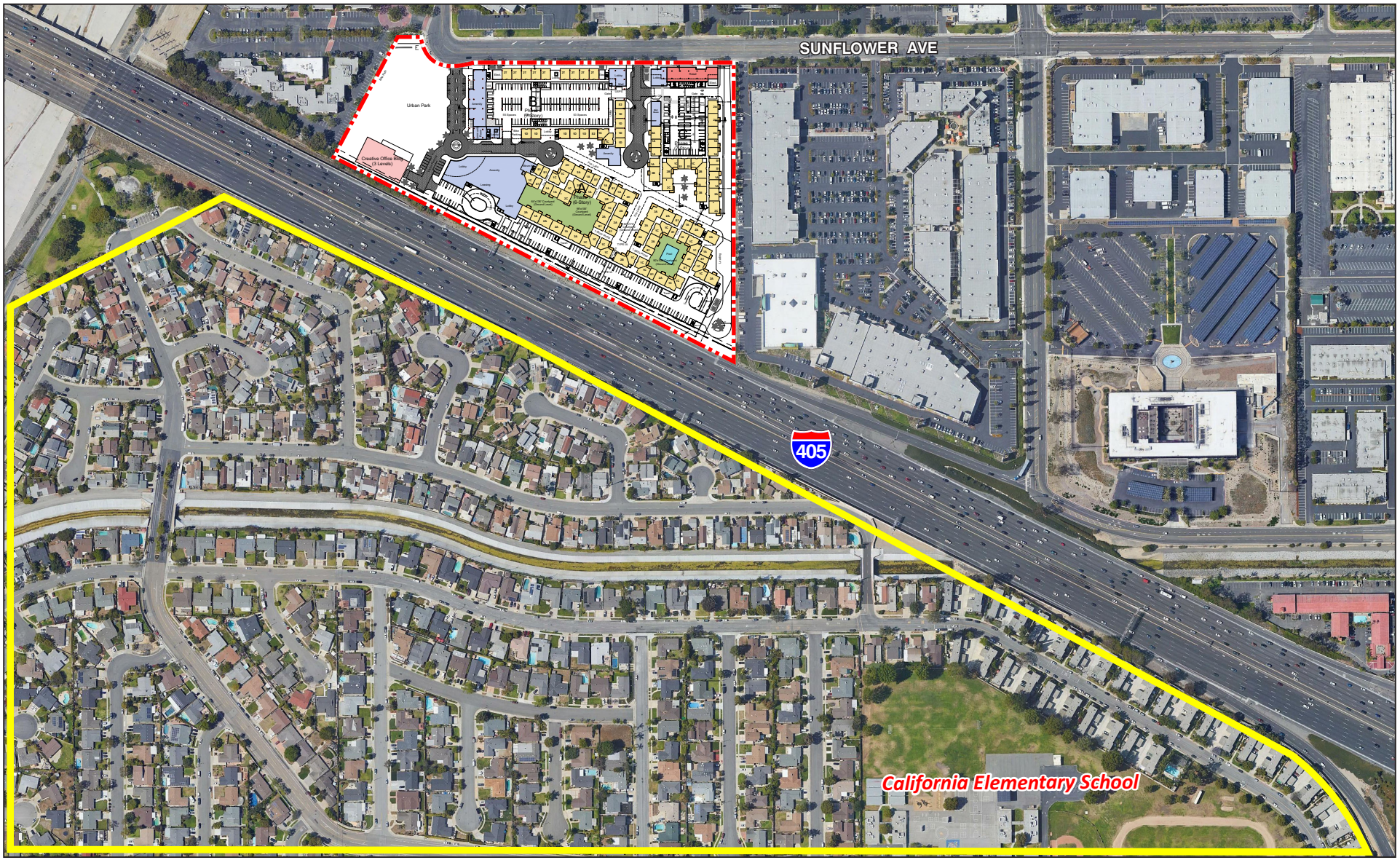

FIGURE 3

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LEGEND

Project Site

Sensitive Receptors

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FEET

SOURCE: Google Earth

One Metro West

Sensitive Receptors

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PROJECT SETTING

The project site is in Costa Mesa, California, which is part of the South Coast Air Basin (Basin) and is under the jurisdiction of SCAQMD.

Both the State and the federal government have established health-based ambient air quality standards (AAQS) for seven air pollutants. As detailed in Table A, these pollutants include ozone (O_3), carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), particulate matter less than 10 microns in size (PM_{10}), particulate matter less than 2.5 microns in size ($PM_{2.5}$), and lead. In addition, the State has set standards for sulfates, hydrogen sulfide (H_2S), vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety.

Table B summarizes the primary health effects and sources of common air pollutants. Because the concentration standards were set at a level that protects public health with an adequate margin of safety (EPA), these health effects would not occur unless the standards are exceeded by a large margin or for a prolonged period of time. State AAQS are as or more stringent than federal AAQS. Among the pollutants, O_3 and particulate matter ($PM_{2.5}$ and PM_{10}) are considered pollutants with regional effects, whereas the others have more localized effects.

The California Clean Air Act (CCAA) provides SCAQMD and other air districts with the authority to manage transportation activities at indirect sources. Indirect sources of pollution include any facility, building, structure, or installation, or combination thereof, that attracts or generates mobile source activity that results in emissions of any pollutant. In addition, the local air districts also manage area source emissions that are generated when minor sources collectively emit a substantial amount of pollution (e.g., motor vehicles at an intersection, a mall, and on highways). SCAQMD also regulates stationary sources of pollution throughout its jurisdictional area. Direct emissions from motor vehicles are regulated by the California Air Resources Board (CARB) and the EPA.

REGIONAL AIR QUALITY

Climate/Meteorology

Air quality in the planning area is not only affected by various emission sources (e.g., mobile and industry), but also by atmospheric conditions (e.g., wind speed, wind direction, temperature, and rainfall). The combination of topography, low mixing height, abundant sunshine, and emissions from the second-largest urban area in the United States gives the Basin some of the worst air pollution in the nation.

Table A: Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[1]		National Standards[2]		
		Concentration[3]	Method[4]	Primary[3,5]	Secondary[3,6]	Method[7]
Ozone (O_3)[8]	1-Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8-Hour	0.070 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM_{10})[9]	24-Hour	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		—		
Fine Particulate Matter ($PM_{2.5}$)[9]	24-Hour	—	—	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 µg/m³	
Carbon Monoxide (CO)	1-Hour	20 ppm (23 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8-Hour	9.0 ppm (10 mg/m³)		9 ppm (10 mg/m³)	—	
	8-Hour (Lake Tahoe)	6 ppm (7 mg/m³)		—	—	
Nitrogen Dioxide (NO_2)[10]	1-Hour	0.18 ppm (339 µg/m³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)		53 ppb (100 µg/m³)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1-Hour	0.25 ppm (655 µg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	—	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)
	3-Hour	—		—	0.5 ppm (1300 µg/m³)	
	24-Hour	0.04 ppm (105 µg/m³)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30-Day Average	1.5 µg/m³	Atomic Absorption	—	—	High-Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m³ (for certain areas)[13]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m³		
Visibility-Reducing Particles[14]	8-Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24-Hour	25 µg/m³	Ion Chromatography			
Hydrogen Sulfide	1-Hour	0.03 ppm (42 µg/m³)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24-Hour	0.01 ppm (26 µg/m³)	Gas Chromatography			

Source: CARB. Ambient Air Quality Standards (2016a)

The footnotes for this table are provided on the following page.

Footnotes:

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM_{10}, $PM_{2.5}$, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once per year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over 3 years, are equal to or less than the standard. Contact the EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of CARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m³ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, the new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
    Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard, the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The CARB has identified lead and vinyl chloride as "toxic air contaminants" with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standards are approved.
14. In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

°C = degrees Celsius
µg/m³ = micrograms per cubic meter
CARB = California Air Resources Board
EPA = United States Environmental Protection Agency
mg/m³ = milligrams per cubic meter
ppb = parts per billion
ppm = parts per million

Table B: Summary of Health Effects of the Major Criteria Air Pollutants

Pollutant	Health Effects	Examples of Sources
Particulate matter ($PM_{2.5}$ and PM_{10}: less than or equal to 2.5 or 10 microns, respectively)	● Hospitalizations for worsened heart diseases ● Emergency room visits for asthma ● Premature death	● Cars and trucks (especially diesel) ● Fireplaces, woodstoves ● Windblown dust from roadways, agriculture, and construction
Ozone (O_3)	● Cough, chest tightness ● Difficulty taking a deep breath ● Worsened asthma symptoms ● Lung inflammation	● Precursor sources:[1] motor vehicles, industrial emissions, and consumer products
Carbon monoxide (CO)	● Chest pain in heart patients[2] ● Headaches, nausea[2] ● Reduced mental alertness[2] ● Death at very high levels[2]	● Any source that burns fuel, such as cars, trucks, construction and farming equipment, and residential heaters and stoves
Nitrogen dioxide (NO_2)	● Increased response to allergens	● See CO sources
Toxic air contaminants	● Cancer ● Chronic eye, lung, or skin irritation ● Neurological and reproductive disorders	● Cars and trucks (especially diesels) ● Industrial sources, such as chrome platers ● Neighborhood businesses, such as dry cleaners and service stations ● Building materials and products

Source: CARB Fact Sheet: Air Pollution and Health. Website: www.arb.ca.gov/research/health/fs/fs1/fs1.htm (accessed June 2019)

[1] Ozone is not generated directly by these sources. Rather, chemicals emitted by these precursor sources react with sunlight to form ozone in the atmosphere.

[2] Health effects from CO exposures occur at levels considerably higher than ambient.

CARB = California Air Resources Board

The annual average temperature varies little throughout the Basin, ranging from the low to middle 60s, measured in degrees Fahrenheit (°F). With a more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas. The climatological station closest to the site is the Santa Ana Fire Station (Western Regional Climate Center). The monthly average maximum temperature recorded at this station ranged from 66.1°F in January to 84.7°F in August, with an annual average maximum of 75.8°F. The monthly average minimum temperature recorded at this station ranged from 43.1°F in January to 61.6°F in August, with an annual average minimum of 52.0°F. January is typically the coldest month, and July and August are typically the warmest months in this area of the Basin.

The majority of annual rainfall in the Basin occurs between November and April. Summer rainfall is minimal and is generally limited to scattered thundershowers in coastal regions and slightly heavier showers in the eastern portion of the Basin and along the coastal side of the mountains. Santa Ana Fire Station's monitored precipitation shows that average monthly rainfall varied from 3.05 inches in February to 0.49 inch or less from May to October, with an annual total of 13.69 inches. Patterns in monthly and yearly rainfall totals are unpredictable due to fluctuations in the weather.

The Basin experiences a persistent temperature inversion (increasing temperature with increasing altitude) as a result of the Pacific high. This inversion limits the vertical dispersion of air contaminants, holding them relatively near the ground. As the sun warms the ground and the lower air layer, the temperature of the lower air layer approaches the temperature of the base of the

inversion (upper) layer until the inversion layer finally breaks, allowing vertical mixing with the lower layer. This phenomenon is observed in midafternoon to late afternoon on hot summer days, when the smog appears to clear up suddenly. Winter inversions frequently break by midmorning.

Winds in the project area blow predominantly from the south-southwest, with relatively low velocities. Wind speeds in the project area average about 5 miles per hour (mph). Summer wind speeds average slightly higher than winter wind speeds. Low average wind speeds, together with a persistent temperature inversion, limit the vertical dispersion of air pollutants throughout the Basin. Strong, dry, north, or northeasterly winds, known as Santa Ana winds, occur during the fall and winter months, dispersing air contaminants. The Santa Ana conditions tend to last for several days at a time.

The combination of stagnant wind conditions and low inversions produces the greatest pollutant concentrations. On days of no inversion or high wind speeds, ambient air pollutant concentrations are the lowest. During periods of low inversions and low wind speeds, air pollutants generated in urbanized areas are transported predominantly onshore into Riverside and San Bernardino counties. In the winter, the greatest pollution problems are CO and nitrogen oxides (NO_X) because of extremely low inversions and air stagnation during the night and early morning hours. In the summer, the longer daylight hours and the brighter sunshine combine to cause a reaction between hydrocarbons and NO_X to form photochemical smog.

Description of Global Climate Change and its Sources

Global climate change (GCC) is the observed increase in the average temperature of the Earth's atmosphere and oceans along with other significant changes in climate (e.g., precipitation or wind) that last for an extended period of time. The term "global climate change" is often used interchangeably with the term "global warming," but "global climate change" is preferred to "global warming" because it helps convey that there are other changes in addition to rising temperatures.

Climate change refers to any change in measures of weather (e.g., temperature, precipitation, or wind) lasting for an extended period (decades or longer). Climate change may result from natural factors (e.g., changes in the sun's intensity), natural processes within the climate system (e.g., changes in ocean circulation), or human activities (e.g., the burning of fossil fuels, land clearing, or agriculture). The primary observed effect of GCC has been a rise in the average global tropospheric[1] temperature of 0.36°F per decade, determined from meteorological measurements worldwide between 1990 and 2005. Climate change modeling shows that further warming may occur, which may induce additional changes in the global climate system during the current century. Changes to the global climate system, ecosystems, and the environment of the State could include higher sea levels, drier or wetter weather, changes in ocean salinity, changes in wind patterns, or more energetic aspects of extreme weather, including droughts, heavy precipitation, heat waves, extreme cold, and increased intensity of tropical cyclones. Specific effects in the State might include a decline

[1] The troposphere is the zone of the atmosphere characterized by water vapor, weather, winds, and decreasing temperature with increasing altitude.

in the Sierra Nevada snowpack, erosion of the State's coastline, and seawater intrusion in the Sacramento-San Joaquin River Delta.

Global surface temperatures have risen by 1.33°F ±0.32°F over the last 100 years. The rate of warming over the last 50 years is almost double that over the last 100 years (Intergovernmental Panel on Climate Change [IPCC] 2013). The latest projections, based on state-of-the-art climate models, indicate that temperatures in the State are expected to rise 3–10.5°F by the end of the century (State of California 2013). The prevailing scientific opinion on climate change is that "most of the warming observed over the last 60 years is attributable to human activities" (IPCC 2013). Increased amounts of carbon dioxide (CO_2) and other GHGs are the primary causes of the human-induced component of warming. The observed warming effect associated with the presence of GHGs in the atmosphere (from either natural or human sources) is often referred to as the greenhouse effect.[1]

GHGs are present in the atmosphere naturally, are released by natural sources, or are formed from secondary reactions taking place in the atmosphere. The gases that are widely seen as the principal contributors to human-induced GCC are:[2]

- CO_2
- Methane (CH_4)
- Nitrous oxide (N_2O)
- Hydrofluorocarbons (HFCs)
- Perfluorocarbons (PFCs)
- Sulfur hexafluoride (SF_6)

Over the last 200 years, human activities have caused substantial quantities of GHGs to be released into the atmosphere. These extra emissions are increasing GHG concentrations in the atmosphere and enhancing the natural greenhouse effect. While GHGs produced by human activities include naturally occurring GHGs (e.g., CO_2, CH_4, and N_2O), some gases (e.g., HFCs, PFCs, and SF_6) are completely new to the atmosphere. Certain other gases (e.g., water vapor) are short-lived in the atmosphere compared to these GHGs that remain in the atmosphere for significant periods of time, contributing to climate change in the long term. Water vapor is generally excluded from the list of GHGs, because it is short-lived in the atmosphere and its atmospheric concentrations are largely determined by natural processes (e.g., oceanic evaporation). For the purposes of this air quality study, the term "GHGs" will refer collectively to the six gases identified in the bulleted list provided above.

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1 The temperature on Earth is regulated by a system commonly known as the "greenhouse effect." Just as the glass in a greenhouse allows heat from sunlight in and reduces the amount of heat that escapes, GHGs such as CO_2, CH_4, and N_2O in the atmosphere keep the Earth at a relatively even temperature. Without the greenhouse effect, the Earth would be a frozen globe; thus, the *naturally occurring* greenhouse effect is necessary to keep our planet at a comfortable temperature.

2 The GHGs listed are consistent with the definition in Assembly Bill 32 (Government Code 38505), as discussed later in this section.

These GHGs vary considerably in terms of global warming potential (GWP), which is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. GWP is based on several factors, including the relative effectiveness of a gas in absorbing infrared radiation and the length of time that the gas remains in the atmosphere ("atmospheric lifetime"). The GWP of each gas is measured relative to CO_2, the most abundant GHG. The definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of CO_2 over a specified time period. For example, N_2O is from 265 to 298 times more potent at contributing to global warming than CO_2. GHG emissions are typically measured in terms of metric tons[1] of "CO_2 equivalents" (MT CO_2e). Table C identifies the GWP for each GHG analyzed in this report. The EPA and CARB use GWP values from the 2007 IPCC Fourth Assessment Report (AR4). The IPCC has published the 2013 IPCC Fifth Assessment Report with updated GWP values.

Table C: Global Warming Potential for Select Greenhouse Gases

Greenhouse Gas	Atmospheric Lifetime (Years)	Global Warming Potential (100-year Time Horizon)[1]
Carbon Dioxide (CO_2)	~100[2]	1 (by definition)
Methane (CH_4)	12	25–34
Nitrous Oxide (N_2O)	121	265–298

Sources: CARB. California's Climate Change Scoping Plan (2017a) and IPCC

[1] The 100-year global warming potential estimates are from Section 8.7.1.2 of The Global Warming Potential Concept in the IPCC 2013 Fifth Assessment Report (AR5). Website: www.ipcc.ch/site/assets/uploads/2018/02/WG1AR5_Chapter08_FINAL.pdf, and Section 2.10.2 of The Direct Global Warming Potentials in the IPCC 2007 Fourth Assessment Report (AR4) (Website: www.ipcc.ch/site/assets/uploads/2018/05/ar4_wg1_full_report-1.pdf) (both accessed June 2019). The EPA and CARB use GWP values from the 2007 IPCC Fourth Assessment Report (AR4).

[2] CO_2 has a variable atmospheric lifetime and cannot be readily approximated as a single number.

CARB = California Air Resources Board
CO_2 = carbon dioxide
EPA = United States Environmental Protection Agency
GWP = global warming potential
IPCC = Intergovernmental Panel on Climate Change

The following discussion summarizes the characteristics of the six primary GHGs.

Carbon Dioxide

In the atmosphere, carbon generally exists in its oxidized form, as CO_2. Natural sources of CO_2 include the respiration (breathing) of humans, animals, and plants; volcanic outgassing; decomposition of organic matter; and evaporation from the oceans. Human-caused sources of CO_2 include the combustion of fossil fuels and wood, waste incineration, mineral production, and deforestation. The Earth maintains a natural carbon balance, and when concentrations of CO_2 are upset, the system gradually returns to its natural state through natural processes. Natural changes to the carbon cycle work slowly, especially compared to the rapid rate at which humans are adding CO_2 to the atmosphere. Natural removal processes (e.g., photosynthesis by land- and ocean-dwelling plant species) cannot keep pace with this extra input of human-made CO_2; consequently,

[1] A metric ton is equivalent to 1.1 tons.

the gas is building up in the atmosphere. The concentration of CO_2 in the atmosphere has risen approximately 30 percent since the late 1800s[1].

The transportation sector remained the largest source of GHG emissions in 2016, representing 41 percent of the State's GHG emission inventory (CARB 2018). The largest emissions category within the transportation sector is on-road, which consists of passenger vehicles (cars, motorcycles, and light-duty trucks) and heavy-duty trucks and buses. Emissions from on-road sources constitute more than 92 percent of the transportation sector total. Industry and electricity generation were the State's second- and third-largest categories of GHG emissions, respectively.

Methane

CH_4 is produced when organic matter decomposes in environments lacking sufficient oxygen to produce CO_2. Natural sources of CH_4 include fires, geologic processes, and bacteria that produce CH_4 in a variety of settings (most notably, wetlands) (University of New Hampshire 2010). Anthropogenic sources include rice cultivation, livestock, landfills and waste treatment, biomass burning, and fossil fuel combustion (e.g., the burning of coal, oil, and natural gas). As with CO_2, the major removal process of atmospheric CH_4—a chemical breakdown in the atmosphere—cannot keep pace with source emissions, and CH_4 concentrations in the atmosphere are increasing.

Nitrous Oxide

N_2O is produced naturally by a wide variety of biological sources, particularly microbial action in soils and water. Tropical soils and oceans account for the majority of natural source emissions. N_2O is also a product of the reaction that occurs between nitrogen and oxygen during fuel combustion. Both mobile and stationary combustion sources emit N_2O. The quantity of N_2O emitted varies according to the type of fuel, technology, and pollution control device used, as well as maintenance and operating practices. Agricultural soil management and fossil fuel combustion are the primary sources of human-generated N_2O emissions in the State.

Hydrofluorocarbons, Perfluorocarbons, and Sulfur Hexafluoride

HFCs are primarily used as substitutes for O_3-depleting substances regulated under the Montreal Protocol.[2] PFCs and SF_6 are emitted from various industrial processes, including aluminum smelting, semiconductor manufacturing, electric power transmission and distribution, and magnesium casting. There is no aluminum or magnesium production in the State; however, the rapid growth in the semiconductor industry, which is active in the State, has led to greater use of PFCs. However, there are no known project-related emissions of these three GHGs; therefore, these substances are not discussed further in this analysis.

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1 California Climate Change. Climate Action Team Report to Governor Schwarzenegger and the Legislature. Website: www.climatechange.ca.gov/climate_action_team/reports/2006report/2006-04-03_FINAL_CAT_REPORT.PDF (accessed May 2019).

2 The Montreal Protocol is an international treaty that was approved on January 1, 1989, and was designated to protect the ozone layer by phasing out the production of several groups of halogenated hydrocarbons that are believed to be responsible for O_3 depletion and are also potent GHGs.

Emissions Sources and Inventories

An emissions inventory that identifies and quantifies the primary human-generated sources and sinks of GHGs is a well-recognized and useful tool for addressing climate change. This section summarizes the latest information on national, State, and local GHG emission inventories. However, because GHGs persist for a long time in the atmosphere (Table C), accumulate over time, and are generally well mixed, their impact on the atmosphere and climate cannot be tied to a specific point of emission.

United States Emissions

In 2017, the United States emitted approximately 6.5 billion MT CO_2e. Total United States emissions have decreased by 0.5 percent from 2016 to 2017. This decrease was largely driven by a decrease in emissions from fossil fuel combustion, which was a result of multiple factors including continued shift from coal to natural gas and increased use of renewables in the electric power sector, and milder weather that contributed to less overall electricity use. GHG emissions in 2017 were 13 percent below 2005 levels (EPA 2019).

State of California Emissions

According to CARB emission inventory estimates, the State emitted 429.4 million metric tons of CO_2e (MMT CO_2e) emissions in 2016. This is a decrease of 12 MMT CO_2e from 2015, a 13 percent decrease since peak levels in 2004, and 2 MMT CO_2e below the 1990 level and the State's 2020 GHG target (CARB 2018).

The CARB estimates that transportation was the source of approximately 36 percent of the State's GHG emissions in 2016, followed by electricity generation (both in-State and out-of-State) at 20 percent, and industrial sources at 21 percent. The remaining sources of GHG emissions were residential and commercial activities at 9 percent, agriculture at 8 percent, high-GWP gases at 4 percent, and recycling and waste at 2 percent (CARB 2018).

Air Pollution Constituents and Attainment Status

The CARB coordinates and oversees both State and federal air pollution control programs in the State. The CARB oversees activities of local air quality management agencies and maintains air quality monitoring stations throughout the State in conjunction with the EPA and local air districts. The CARB has divided the State into 15 air basins based on meteorological and topographical factors of air pollution. Data collected at these stations are used by the CARB and the EPA to classify air basins as attainment, nonattainment, nonattainment-transitional, or unclassified, based on air quality data for the most recent 3 calendar years compared with the AAQS.

Attainment areas may be:

- Attainment/Unclassified ("Unclassifiable" in some lists), which have never violated the air quality standard of interest or do not have enough monitoring data to establish attainment or nonattainment status;

- Attainment-Maintenance (national ambient air quality standards [NAAQS] only), which violated a NAAQS that is currently in use (was nonattainment) in or after 1990, but now attains the standard and is officially redesignated as Attainment by the EPA with a Maintenance State Implementation Plan (SIP); or

- Attainment (usually only for California ambient air quality standards [CAAQS], but sometimes for NAAQS), which have adequate monitoring data to show attainment, have never been nonattainment, or, for NAAQS, have completed the official Maintenance period.

Nonattainment areas are imposed with additional restrictions as required by the EPA. The air quality data are also used to monitor progress in attaining air quality standards. Table D lists the attainment status for the criteria pollutants in the Basin.

Table D: Attainment Status of Criteria Pollutants in the South Coast Air Basin

Pollutant	State	Federal
O_3	Nonattainment (1-hour) Nonattainment (8-hour)	Extreme Nonattainment (1-hour) Extreme Nonattainment (8-hour)
PM_{10}	Nonattainment (24-hour) Nonattainment (Annual)	Attainment/Maintenance (24-hour)
$PM_{2.5}$	Nonattainment (Annual)	Serious Nonattainment (24-hour) Moderate Nonattainment (Annual)
CO	Attainment (1-hour) Attainment (8-hour)	Attainment/Maintenance (1-hour) Attainment/Maintenance (8-hour)
NO_2	Attainment (1-hour) Attainment (Annual)	Unclassified/Attainment (1-hour) Attainment/Maintenance (Annual)
SO_2	Attainment (1-hour) Attainment (24-hour)	Unclassified/Attainment (1-hour) Unclassified/Attainment (Annual)
Lead	Attainment[1] (30-day average)	Attainment[1] (3-month rolling)
All Others	Attainment/Unclassified	N/A

Source 1: South Coast Air Quality Management District. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Air Basin Website: www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf (accessed June 2019).
Source 2: EPA. Nonattainment Areas for Criteria Pollutants (Green Book). Website: www.epa.gov/green-book (accessed June 2019).
[1] Only the Los Angeles County portion of the Basin is in nonattainment for lead.
CO = carbon monoxide
EPA = United States Environmental Protection Agency
N/A = not applicable
NO_2 = nitrogen dioxide
O_3 = ozone
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
SCAQMD = South Coast Air Quality Management District
SO_2 = sulfur dioxide

Ozone

O_3 (smog) is formed by photochemical reactions between oxides of nitrogen and reactive organic gases (ROGs) rather than being directly emitted. O_3 is a pungent, colorless gas typical of Southern California smog. Elevated O_3 concentrations result in reduced lung function, particularly during vigorous physical activity. This health problem is particularly acute in sensitive receptors (e.g., the sick, the elderly, and young children). O_3 levels peak during summer and early fall. The entire Basin is designated as a nonattainment area for the State 1-hour and 8-hour O_3 standards. The EPA has officially designated the status for most of the Basin regarding the 8-hour O_3 standard as "Extreme Nonattainment," which means the Basin has until 2024 to attain the federal 8-hour O_3 standard.

Carbon Monoxide

CO is formed by the incomplete combustion of fossil fuels, almost entirely from automobiles. CO is a colorless, odorless gas that can cause dizziness, fatigue, and impairments to central nervous system functions. The entire Basin is in attainment for the State standards for CO. The Basin is designated as an "Attainment/Maintenance" area under the federal CO standards.

Nitrogen Oxides

NO_2, a reddish brown gas, and nitric oxide (NO), a colorless, odorless gas, are formed from fuel combustion under high temperature or pressure. These compounds are referred to as nitrogen oxides, or NO_X. NO_X is a primary component of the photochemical smog reaction. It also contributes to other pollution problems, including a high concentration of fine particulate matter, poor visibility, and acid deposition (i.e., acid rain). NO_2 decreases lung function and may reduce resistance to infection. The entire Basin is designated as attainment for the State NO_2 standard, as an "Unclassified/Attainment" area under the federal 1-hour NO_2 standard, and as an "Attainment/ Maintenance" area under the federal annual NO_2 standard.

Sulfur Dioxide

SO_2 is a colorless irritating gas formed primarily from incomplete combustion of fuels containing sulfur. Industrial facilities also contribute to gaseous SO_2 levels. SO_2 irritates the respiratory tract, can injure lung tissue when combined with fine particulate matter, and reduces visibility and the level of sunlight. The entire Basin is in attainment with both federal and State SO_2 standards.

Lead

Lead is found in old paints and coatings, plumbing, and a variety of other materials. Once in the bloodstream, lead can cause damage to the brain, the nervous system, and other body systems. Children are highly susceptible to the effects of lead. The portion of the Basin in which the project site is located is in attainment with both federal and State standards.

Particulate Matter

Particulate matter is the term used for a mixture of solid particles and liquid droplets found in the air. Coarse particles (PM_{10}) derive from a variety of sources, including windblown dust and grinding operations. Fuel combustion and the resultant exhaust from power plants, diesel buses, and trucks are primarily responsible for fine particle ($PM_{2.5}$) levels. Fine particles can also form in the atmosphere through chemical reactions. PM_{10} can accumulate in the respiratory system and aggravate health problems (e.g., asthma). The EPA's scientific review concluded that $PM_{2.5}$ particles, which penetrate deeply into the lungs, are more likely than coarse particles to contribute to the health effects listed in a number of recently published community epidemiological studies at concentrations that extend well below those allowed by the current PM_{10} standards. These health effects include premature death and increased hospital admissions and emergency room visits (primarily for the elderly and individuals with cardiopulmonary disease); increased respiratory symptoms and disease (children and individuals with cardiopulmonary disease [e.g., asthma]); decreased lung functions (particularly in children and individuals with asthma); and alterations in lung tissue and structure and in respiratory tract defense mechanisms. The Basin is designated

nonattainment for the federal and State $PM_{2.5}$ standards and State PM_{10} standard, and attainment/ maintenance for the federal PM_{10} standard.

Volatile Organic Compounds

Volatile organic compounds (VOCs; also known as ROGs, and reactive organic compounds) form from the combustion of fuels and the evaporation of organic solvents. VOCs are not defined as criteria pollutants; however, because VOCs accumulate in the atmosphere more quickly during the winter when sunlight is limited and photochemical reactions are slower, they are a prime component of the photochemical smog reaction. There are no attainment designations for VOCs.

Sulfates

Sulfates occur in combination with metal and/or hydrogen ions. In California, emissions of sulfur compounds occur primarily from the combustion of petroleum-derived fuels (e.g., gasoline and diesel fuel) that contain sulfur. This sulfur is oxidized to SO_2 during the combustion process and subsequently is converted to sulfate compounds in the atmosphere. The conversion of SO_2 to sulfates takes place comparatively rapidly and completely in urban areas of the State due to regional meteorological features. The entire Basin is in attainment for the State standard for sulfates.

Hydrogen Sulfide

H_2S is a colorless gas with the odor of rotten eggs. H_2S forms during bacterial decomposition of sulfur-containing organic substances. In addition, H_2S can be present in sewer gas and some natural gas and can be emitted as the result of geothermal energy exploitation. In 1984, a CARB committee concluded that the ambient standard for H_2S is adequate to protect public health and to significantly reduce odor annoyance. The entire Basin is unclassified for the State standard for H_2S.

Visibility-Reducing Particles

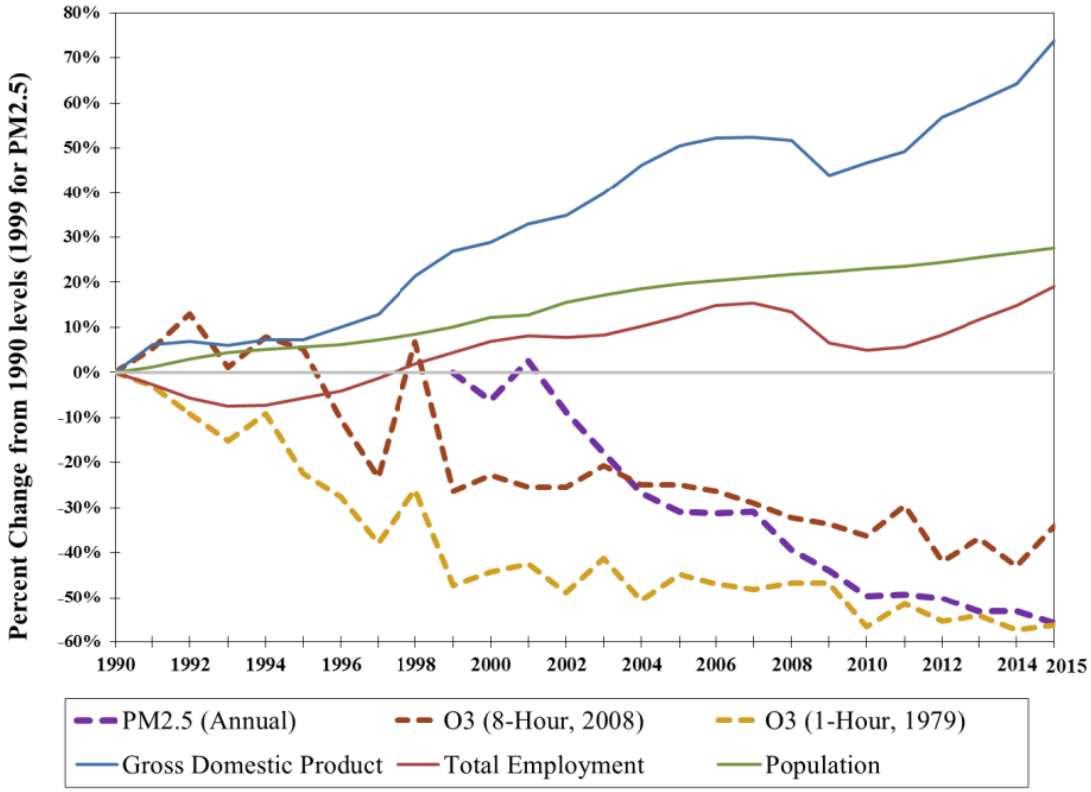
Visibility-reducing particles consist of suspended particulate matter, which is a complex mixture of tiny particles that consists of dry, solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary greatly in shape, size, and chemical composition and can be made up of many different materials (e.g., metals, soot, soil, dust, and salt). The statewide standard is intended to limit the frequency and the severity of visibility impairment due to regional haze. The entire Basin is unclassified for the State standard for visibility-reducing particles.

REGIONAL AIR QUALITY TRENDS

Criteria Pollutants

As previously discussed, the project is under the jurisdiction of the SCAQMD, which is responsible for formulating and implementing the air quality management plan (AQMP) for the Basin in order to bring the area into compliance with federal and State air quality standards. Air quality in the Basin has improved as a result of the development of SCAQMD rules and control programs and the development and application of cleaner technology. Ambient levels of O_3, NO_x, VOC, and CO have been generally decreasing since 1975. The levels of PM_{10} and $PM_{2.5}$ in the air have decreased since 1975 and direct emissions of $PM_{2.5}$ have decreased, although direct emissions of PM_{10} have shown little change. As stated in the SCAQMD 2016 AQMP for the Basin, the overall population of the

region is expected to continue to increase beyond 2023. Despite this population growth, air quality has improved significantly over the years, primarily due to the impacts of air quality control programs at the local, State, and federal levels. Figure 4 shows the trends since 1990 of the 8-hour O_3 levels, 1-hour O_3 levels, and annual average $PM_{2.5}$ concentrations (since 1999) compared to the regional gross domestic product, total employment, and population. The 2007–2009 recession decreased gross domestic product and employment, but they have recovered, as shown on Figure 4.



Source: South Coast Air Quality Management District. Website: www.aqmd.gov/docs/default-source/air-quality/air-toxic-studies/mates-iv/mates-iv-final-draft-report-4-1-15.pdf (accessed May 2019).

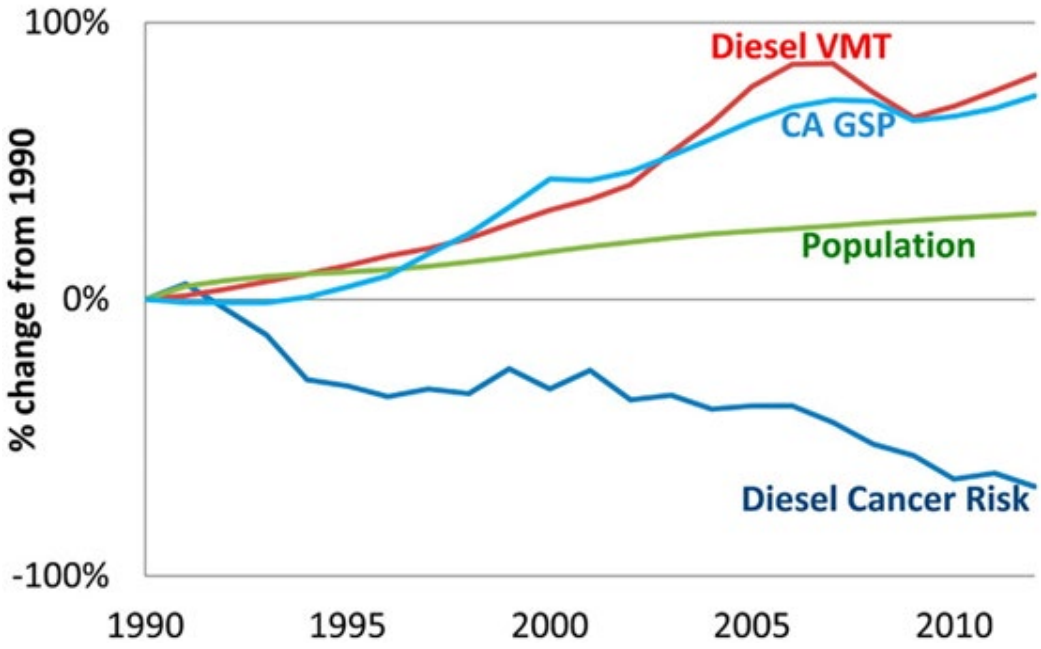
Figure 4: South Coast Air Basin Percent Change in Air Quality and Demographic Data

However, the O_3 and $PM_{2.5}$ levels continue to trend downward despite increasing economic activity and population, demonstrating that it is possible to maintain a healthy economy while improving public health through air quality improvements.

Toxic Air Contaminants Trends

In 1984, CARB adopted regulations to reduce toxic air contaminant (TAC) emissions from mobile and stationary sources, as well as consumer products. A CARB study showed that ambient concentrations and emissions of the seven TACs responsible for the most cancer risk from airborne exposure declined by 76 percent between 1990 and 2012 (Propper et al. 2015). Concentrations of diesel particulate matter, a key TAC, declined by 68 percent between 1990 and 2012, despite a

31 percent increase in State population and an 81 percent increase in diesel vehicle miles traveled (VMT), as shown on Figure 5. The study also found that the significant reductions in cancer risk to California residents from the implementation of air toxics controls are likely to continue. SCAQMD has conducted four *Multiple Air Toxics Exposure Study in the South Coast Air Basin* (MATES) studies that document a decrease in cancer risk of 57 percent between the last two editions (i.e., between 2005 and 2015).



Source: Propper et al. 2015. Website: pubs.acs.org/doi/full/10.1021/acs.est.5b02766 (accessed May 2019).

Figure 5: California Population, Gross State Product (GSP), Diesel Cancer Risk, and Diesel Vehicle Miles Traveled (VMT)

LOCAL AIR QUALITY

SCAQMD, together with the CARB, maintains ambient air quality monitoring stations in the Basin. The air quality monitoring station closest to the site is the Costa Mesa Station at 2850 Mesa Verde Drive East, 1.25 miles south of the project site. CO, NO_2, O_3, and SO_2 were monitored at this station through 2017. The closest station that monitors the remaining pollutants (PM_{10} and $PM_{2.5}$) is the Anaheim-Pampas Lane Station at 1630 West Pampas Lane, approximately 9.5 miles north of the project site. The air quality trends from these stations are used to represent the ambient air quality in the project area. The ambient air quality data in Table E show that pollutant levels are below the applicable State and federal standards most of the time. Ozone exceeds standards 1 to 4 days a year, PM_{10} 2 to 4 days a year, $PM_{2.5}$ 1 to 4 days a year.

Table E: Ambient Air Quality Monitored in the Project Vicinity

Pollutant	Standard	2016	2017	2018
Carbon Monoxide (CO) – Costa Mesa Monitoring Station for 2016 and 2017, Anaheim Station for 2018				
Maximum 1-hour concentration (ppm)		2.1	1.7	2.1
Number of days exceeded:	State: > 20 ppm	0	0	0
	Federal: > 35 ppm	0	0	0
Maximum 8-hour concentration (ppm)		1.7	1.4	1.7
Number of days exceeded:	State: ≥ 9.0 ppm	0	0	0
	Federal: ≥ 9 ppm	0	0	0
Ozone (O_3) – Costa Mesa Monitoring Station for 2016 and 2017, Anaheim Station for 2018				
Maximum 1-hour concentration (ppm)		0.090	0.088	0.112
Number of days exceeded:	State: > 0.09 ppm	0	0	1
Maximum 8-hour concentration (ppm)		0.069	0.080	0.071
Number of days exceeded:	State: > 0.07 ppm	0	4	1
	Federal: > 0.07 ppm	0	4	1
Coarse Particulates (PM_{10}) – Anaheim Monitoring Station				
Maximum 24-hour concentration (µg/m³)		74	95	94
Number of days exceeded:	State: > 50 µg/m³	4	4	2
	Federal: > 150 µg/m³	0	0	0
Annual arithmetic average concentration (µg/m³)		27.4	26.1	26.5
Exceeded for the year:	State: > 20 µg/m³	Yes	Yes	Yes
Fine Particulates ($PM_{2.5}$) – Anaheim Monitoring Station				
Maximum 24-hour concentration (µg/m³)		44.4	54.7	63.1
Number of days exceeded:	Federal: > 35 µg/m³	1	1	4
Annual arithmetic average concentration (µg/m³)		9.4	11.2	10.9
Exceeded for the year:	State: > 12 µg/m³	No	No	No
	Federal: > 15 µg/m³	No	No	No
Nitrogen Dioxide (NO_2) – Costa Mesa Monitoring Station for 2016 and 2017, Anaheim Station for 2018				
Maximum 1-hour concentration (ppb)		60	45	66
Number of days exceeded:	State: > 180 ppb	0	0	0
	Federal: > 100 ppb	0	0	0
Annual arithmetic average concentration (ppb)		10	7.8	11.5
Exceeded for the year:	State: > 30 ppb	No	No	No
	Federal: > 53 ppb	No	No	No
Sulfur Dioxide (SO_2) – Costa Mesa Monitoring Station				
Maximum 1-hour concentration (ppb)		3.3	1.7	N/A
Number of days exceeded:	State: > 250 ppb	0	0	0
	Federal: > 75 ppb	0	0	0

Source 1: United States Environmental Protection Agency. AirData Air Quality Monitors. Website: www.epa.gov/airdata/ad_maps.html (accessed June 2019)

Source 2: California Air Resources Board. iADAM: Air Quality Data Statistics. Website: www.arb.ca.gov/adam (accessed June 2019).

µg/m³ = micrograms per cubic meter

N/A = not available

ppb = parts per billion

ppm = parts per million

REGULATORY SETTINGS

Federal Regulations/Standards

Pursuant to the federal Clean Air Act (CAA) of 1970, the EPA established the NAAQS. The NAAQS were established for six major pollutants, termed "criteria" pollutants. Criteria pollutants are defined as those pollutants for which the federal and State governments have established AAQS, or criteria, for outdoor concentrations to protect public health.

The EPA has designated the Southern California Association of Governments (SCAG) as the Metropolitan Planning Organization (MPO) responsible for ensuring compliance with the requirements of the CAA for the Basin.

The United States has historically had a voluntary approach to reducing GHG emissions; however, on April 2, 2007, the United States Supreme Court ruled that the EPA has the authority to regulate CO_2 emissions under the CAA. While there currently are no adopted federal regulations for the control or reduction of GHG emissions, the USEPA commenced several actions in 2009 to implement a regulatory approach to global climate change.

This includes the 2009 USEPA final rule for mandatory reporting of GHGs from large GHG emission sources in the United States. Additionally, the USEPA Administrator signed an endangerment finding action in 2009 under the Clean Air Act, finding that six GHGs (CO_2, CH_4, N_2O, HFCs, PFCs, SF_6) constitute a threat to public health and welfare, and that the combined emissions from motor vehicles cause and contribute to global climate change, leading to national GHG emission standards. State Agencies, Regulations, and Standards

In 1967, the State Legislature passed the Mulford-Carrell Act, which combined two Department of Health bureaus (i.e., the Bureau of Air Sanitation and the Motor Vehicle Pollution Control Board) to establish the CARB. Since its formation, the CARB has worked with the public, the business sector, and local governments to find solutions to the State's air pollution problems.

California adopted the CCAA in 1988. The CARB administers the CAAQS for the 10 air pollutants designated in the CCAA. These 10 State air pollutants are the six criteria pollutants designated by the federal CAA as well as four others: visibility-reducing particulates, H_2S, sulfates, and vinyl chloride.

CARB is the lead agency for implementing climate change regulations in the State. Since its formation, CARB has worked with the public, the business sector, and local governments to find solutions to California's air pollution problems. Key efforts by the State are described below.

Assembly Bill 1493 (2002)

In a response to the transportation sector's significant contribution to California's GHG emissions, Assembly Bill (AB) 1493 was enacted on July 22, 2002. AB 1493 requires CARB to set GHG emission standards for passenger vehicles and light duty trucks (and other vehicles whose primary use is noncommercial personal transportation in the State) manufactured in 2009 and all subsequent model years. These standards (starting in model years 2009 to 2016) were approved by CARB in 2004, but the needed waiver of CAA Preemption was not granted by the USEPA until June 30, 2009.

CARB responded by amending its original regulation, now referred to as Low Emission Vehicle III, to take effect for model years starting in 2017 to 2025.

*Executive Order S-3-05 (2005)*Governor Arnold Schwarzenegger signed Executive Order (EO) S-3-05 on June 1, 2005, which proclaimed that California is vulnerable to the impacts of climate change. To combat those concerns, the executive order established California's GHG emissions reduction targets, which established the following goals:

- State GHG emissions should be reduced to 2000 levels by 2010;
- State GHG emissions should be reduced to 1990 levels by 2020; and
- State GHG emissions should be reduced to 80 percent below 1990 levels by 2050.

The Secretary of the California Environmental Protection Agency (CalEPA) is required to coordinate efforts of various State agencies in order to collectively and efficiently reduce GHG emissions. A biannual progress report must be submitted to the Governor and State Legislature disclosing the progress made toward GHG emission reduction targets. In addition, another biannual report must be submitted illustrating the impacts of climate change on California's water supply, public health, agriculture, the coastline, and forestry, and report possible mitigation and adaptation plans to address these impacts.

The Secretary of CalEPA leads the Climate Action Team (CAT) made up of representatives from State agencies as well as numerous other boards and departments. The CAT members work to coordinate Statewide efforts to implement global warming emission reduction programs and the State's Climate Adaptation Strategy. The CAT is also responsible for reporting on the progress made toward meeting the statewide GHG targets that were established in the executive order and further defined under AB 32, the "Global Warming Solutions Act of 2006." The first CAT Report to the Governor and the Legislature was released in March 2006, which it laid out 46 specific emission reduction strategies for reducing GHG emissions and reaching the targets established in the Executive Order. The CAT Report to the Governor and Legislature; the most recent was released in December 2010.

*Assembly Bill 32 (2006), California Global Warming Solutions Act*California's major initiative for reducing GHG emissions is AB 32, passed by the State legislature on August 31, 2006. This effort aims at reducing GHG emissions to 1990 levels by 2020. CARB has established the level of GHG emissions in 1990 at 427 MMT CO_2e. The annual emissions target of 427 MMT requires the reduction of 169 MMT from the State has projected business-as-usual 2020 emissions of 596 MMT. AB 32 requires CARB to prepare a Scoping Plan that outlines the main State strategies for meeting the 2020 deadline and to reduce GHGs that contribute to global climate change. The Scoping Plan was approved by CARB on December 11, 2008, and contains the main strategies California will implement to achieve the reduction of approximately 169 MMT CO_2e per year, or approximately 30 percent, from the State's projected 2020 emission level of 596 MMT CO_2e under a business-as-usual scenario (this is a reduction of 42 MMT CO_2e, or almost 10 percent from 2002–2004 average emissions). The Scoping Plan also includes CARB-recommended GHG reductions for each emissions

sector of the State's GHG inventory. The Scoping Plan calls for the largest reductions in GHG emissions to be achieved by implementing the following measures and standards:

- Improved emissions standards for light-duty vehicles (estimated annual reduction of 31.7 MMT CO_2e);
- The Low-Carbon Fuel Standard (15.0 MMT CO_2e per year);
- Energy efficiency measures in buildings and appliances and the widespread development of combined heat and power systems (26.3 MMT CO_2e per year); and
- A renewable portfolio standard for electricity production (21.3 MMT CO_2e per year).

The Scoping Plan identifies 18 emission reduction measures that address cap-and-trade programs, vehicle gas standards, energy efficiency, low carbon fuel standards, renewable energy, regional transportation-related GHG targets, vehicle efficiency measures, goods movement, solar roof programs, industrial emissions, high-speed rail, green building strategies, recycling, sustainable forests, water, and air. The measures would result in a total annual reduction of 174 MMT CO_2e by 2020.

On August 24, 2011, CARB unanimously approved both the new supplemental assessment and reapproved its Scoping Plan, which provides the overall roadmap and rule measures to carry out AB 32. CARB also approved a more robust CEQA equivalent document supporting the supplemental analysis of the cap-and-trade program. The cap-and-trade took effect on January 1, 2012, with an enforceable compliance obligation that began January 1, 2013.

CARB has not yet determined what amount of GHG reductions it recommends from local government operations and local land use decisions; however, the Scoping Plan states that land use planning and urban growth decisions will play an important role in the State's GHG reductions because local governments have primary authority to plan, zone, approve, and permit how land is developed to accommodate population growth and the changing needs of their jurisdictions (meanwhile, CARB is also developing an additional protocol for community emissions). CARB further acknowledges that decisions on how land is used will have large impacts on the GHG emissions that will result from the transportation, housing, industry, forestry, water, agriculture, electricity, and natural gas emission sectors. The Scoping Plan states that the ultimate GHG reduction assignment to local government operations is to be determined. With regard to land use planning, the Scoping Plan expects an approximately 5.0 MMT CO_2e annual reduction due to implementation of Senate Bill (SB) 375.

In addition to reducing GHG emissions to 1990 levels by 2020, AB 32 directed CARB and the CAT to identify a list of "discrete early action GHG reduction measures" that could be adopted and made enforceable by January 1, 2010. On January 18, 2007, Governor Schwarzenegger signed EO S-1-07, further solidifying California's dedication to reducing GHGs by setting a new Low Carbon Fuel Standard. The Executive Order sets a target to reduce the carbon intensity of California transportation fuels by at least 10 percent by 2020 and directs CARB to consider the Low Carbon Fuel Standard as a discrete early action measure. In 2011, U.S. District Court Judge Lawrence O'Neil issued an injunction preventing implementation of the Low Carbon Fuel Standard, ruling that it is

unconstitutional. In 2012, the Ninth Circuit Court of Appeal stayed the District Court's injunction, allowing implementation of the Low Carbon Fuel Standard. The Ninth Circuit decided to uphold the Low Carbon Fuel Standard.

In June 2007, CARB approved a list of 37 early action measures, including three discrete early action measures (Low Carbon Fuel Standard, Restrictions on GWP Refrigerants, and Landfill CH_4 Capture).[1] Discrete early action measures are measures that were required to be adopted as regulations and made effective no later than January 1, 2010, the date established by Health and Safety Code Section 38560.5. CARB adopted additional early action measures in October 2007 that tripled the number of discrete early action measures. These measures relate to truck efficiency, port electrification, reduction of PFCs from the semiconductor industry, reduction of propellants in consumer products, proper tire inflation, and SF_6 reductions from the non-electricity sector. The combination of early action measures is estimated to reduce annual statewide GHG emissions by nearly 16 MMT.[2]

CARB approved the First Update to the Climate Change Scoping Plan on May 22, 2014. The First Update identifies opportunities to leverage existing and new funds to further drive GHG emission reductions through strategic planning and targeted low carbon investments. The First Update defines CARB climate change priorities until 2020, and also sets the groundwork to reach long-term goals set forth in EOs S-3-05 and B-16-2012. The Update highlights California's progress toward meeting the "near-term" 2020 GHG emission reduction goals as defined in the initial Scoping Plan. It also evaluates how to align the State's "longer-term" GHG reduction strategies with other State policy priorities for water, waste, natural resources, clean energy, transportation, and land use. CARB released a second update to the Scoping Plan, the 2017 Scoping Plan,[3] to reflect the 2030 target set by EO B-30-15 and codified by SB 32.

*Senate Bill 97 (2007)*SB 97, signed by the Governor in August 2007 (Chapter 185, Statutes of 2007; Public Resources Code, Sections 21083.05 and 21097), acknowledges climate change is a prominent environmental issue that requires analysis under CEQA. This bill directed the OPR to prepare, develop, and transmit to the California Resources Agency guidelines for mitigating GHG emissions or the effects of GHG emissions, as required by CEQA.

The California Natural Resources Agency adopted the amendments to the *State CEQA Guidelines* in November 2018, which went into effect in December 2018. The amendments do not identify a threshold of significance for GHG emissions, nor do they prescribe assessment methodologies or specific mitigation measures. The amendments encourage lead agencies to consider many factors in performing a CEQA analysis, but preserve the discretion granted by CEQA to lead agencies in making their own determinations based on substantial evidence. The amendments also encourage public

1 CARB. 2007. *Expanded List of Early Action Measures to Reduce Greenhouse Gas Emissions in California Recommended for Board Consideration*. October. Website: ww3.arb.ca.gov/cc/ccea/meetings/ea_final_report.pdf (accessed July 2019).

2 CARB. 2007. "ARB approves tripling of early action measures required under AB 32" News Release 07-46. October 25. Website: ww3.arb.ca.gov/newsrel/nr102507.htm (accessed July 2019).

3 CARB. 2017. *California's 2017 Climate Change Scoping Plan*. November. Website: ww3.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf (accessed July 2019).

agencies to make use of programmatic mitigation plans and programs when they perform individual project analyses.

Senate Bill 375 (2008) SB 375, the Sustainable Communities and Climate Protection Act, which establishes mechanisms for the development of regional targets for reducing passenger vehicle GHG emissions, was adopted by the State on September 30, 2008. On September 23, 2010, the ARB adopted the vehicular GHG emissions reduction targets that had been developed in consultation with the Metropolitan Planning Organization (MPOs); the targets require a 6 to 15 percent reduction by 2020 and between 13 to 19 percent reduction by 2035 for each MPO. SB 375 recognizes the importance of achieving significant GHG emissions reductions by working with cities and counties to change land use patterns and improve transportation alternatives. Through the SB 375 process, MPOs such as SCAG will work with local jurisdictions in the development of Sustainable Communities Strategies designed to integrate development patterns and the transportation network in a way that reduces GHG emissions while meeting housing needs and other regional planning objectives. Pursuant to SB 375, the SCAG reduction targets for per capita vehicular emissions are 8 percent by 2020 and 13 percent by 2035.

*Executive Order B-30-15 (2015)*Governor Jerry Brown signed EO B-30-15 on April 29, 2015, which added the immediate target of the following:

- GHG emissions should be reduced to 40 percent below 1990 levels by 2030.

All State agencies with jurisdiction over sources of GHG emissions were directed to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 targets. CARB was directed to update the AB 32 Scoping Plan to reflect the 2030 target, and therefore, is moving forward with the update process. The mid-term target is critical to help frame the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure needed to continue reducing emissions.

*Senate Bill 350 (2015) Clean Energy and Pollution Reduction Act*SB 350 signed by Governor Jerry Brown on October 7, 2015, updates and enhances AB 32 by introducing the following set of objectives in clean energy, clean air, and pollution reduction for 2030:

- Raise California's renewable portfolio standard from 33 percent to 50 percent; and
- Increasing energy efficiency in buildings by 50 percent by the year 2030.

The 50 percent renewable energy standard will be implemented by the California Public Utilities Commission for the private utilities and by the California Energy Commission for municipal utilities. Each utility must submit a procurement plan showing it will purchase clean energy to displace other non-renewable resources. The 50 percent increase in energy efficiency in buildings must be achieved through the use of existing energy efficiency retrofit funding and regulatory tools already available to state energy agencies under existing law. The addition made by this legislation requires state energy agencies to plan for, and implement those programs in a manner that achieves the energy efficiency target.

*Senate Bill 32, California Global Warming Solutions Act of 2016, and Assembly Bill 197*In summer 2016, the Legislature passed, and the Governor signed, SB 32, and AB 197. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in Governor Brown's April 2015 EO B-30-15. SB 32 builds on AB 32 and keeps us on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels, consistent with an IPCC analysis of the emissions trajectory that would stabilize atmospheric GHG concentrations at 450 parts per million CO_2e and reduce the likelihood of catastrophic impacts from climate change.

The companion bill to SB 32, AB 197, provides additional direction to CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 meant to provide easier public access to air emissions data that are collected by CARB was posted in December 2016.

*Senate Bill 100*On September 10, 2018, Governor Brown signed SB 100, which raises California's Renewables Portfolio Standard (RPS) requirements to 60 percent by 2030, with interim targets, and 100 percent by 2045. The bill also establishes a state policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all state agencies by December 31, 2045. Under the bill, the state cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

*Executive Order B-55-18*EO B-55-18, signed September 10, 2018, sets a goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." EO B-55-18 directs CARB to work with relevant state agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal. The goal of carbon neutrality by 2045 is in addition to other statewide goals, meaning not only should emissions be reduced to 80 percent below 1990 levels by 2050, but that, by no later than 2045, the remaining emissions be offset by equivalent net removals of GHGs from the atmosphere, including through sequestration in forests, soils, and other natural landscapes.

*Title 24, Building Standards Code and CALGreen Code*In November 2008, the California Building Standards Commission established the California Green Building Standards (CALGreen) Code, which sets performance standards for residential and nonresidential development to reduce environmental impacts and encourage sustainable construction practices. The CALGreen Code addresses energy efficiency, water conservation, material conservation, planning and design, and overall environmental quality. The CALGreen Code was most recently updated in 2016 to include new mandatory measures for residential as well as nonresidential uses; the new measures took effect on January 1, 2017.

*Cap and Trade*The development of a cap-and-trade program was included as a key reduction measure of the CARB AB 32 Climate Change Scoping Plan. The cap-and-trade program will help put California on the path to meet its goal of reducing GHG emissions to 1990 levels by 2020 and ultimately achieving an 80 percent reduction from 1990 levels by 2050. The cap-and-trade emissions trading program developed by CARB took effect on January 1, 2012, with enforceable compliance obligations beginning January 1, 2013. The cap-and-trade program aims to regulate GHG emissions from the largest producers in the State by setting a statewide firm limit, or cap, on allowable annual

GHG emissions. The cap was set in 2013 at approximately 2 percent below the emissions forecast for 2020. In 2014, the cap declined approximately 2 percent. Beginning in 2015 and continuing through 2020, the cap has been declining approximately 3 percent annually. CARB administered the first auction on November 14, 2012, with many of the qualified bidders representing corporations or organizations that produce large amounts of GHG emissions, including energy companies, agriculture and food industries, steel mills, cement companies, and universities. On January 1, 2015, compliance obligation began for distributors of transportation fuels, natural gas, and other fuels. California is working closely with British Columbia, Ontario, Quebec, and Manitoba through the Western Climate Initiative to develop harmonized cap-and-trade programs that will deliver cost-effective emission reductions. Two lawsuits have been filed against cap-and-trade, but the cap-and-trade program will be implemented as is until further notice.[1]

Regional Air Quality Planning Framework

The 1976 Lewis Air Quality Management Act established SCAQMD and other air districts throughout the State. The federal CAA Amendments of 1977 required that each state adopt an implementation plan outlining pollution control measures to attain the federal standards in nonattainment areas of the state.

The CARB is responsible for incorporating Air Quality Management Plans (AQMPs) for local air basins into a SIP for EPA approval. Significant authority for air quality control within them has been given to local air districts that regulate stationary-source emissions and develop local nonattainment plans.

California Air Resources Board Handbook and Technical Advisory

CARB has developed an *Air Quality and Land Use Handbook* (CARB 2005) and a supplement, *Strategies to Reduce Air Pollution Exposure Near High-Volume Roadways: Technical Advisory* (CARB 2017b), that are intended to serve as general reference guides for evaluating and reducing air pollution impacts associated with new projects that are part of the land use decision-making process. According to the CARB Handbook, recent air pollution studies have shown an association between both respiratory and other noncancer health effects and proximity to high-traffic roadways. Other studies have shown that diesel exhaust and other cancer-causing chemicals emitted from cars and trucks are responsible for much of the overall cancer risk from airborne toxics in California. The CARB Handbook recommends that planning agencies recognize that the configuration of distribution centers can reduce population exposure and risk. For example, avoiding siting new sensitive land uses within 500 feet of a freeway, urban roads with 100,000 or more vehicles per day, or rural roads with 50,000 or more vehicles per day.

Regional Air Quality Management Plan

SCAQMD and SCAG are responsible for formulating and implementing the AQMP for the Basin. The main purpose of an AQMP is to bring the area into compliance with federal and State air quality

[1] CARB. 2014. Cap and Trade Program. Website: www.arb.ca.gov/cc/capandtrade/capandtrade.htm (accessed July 2019).

standards. SCAQMD prepares a new AQMP every 3 years, updating the previous plan and 20-year horizon.

The latest plan is the 2016 AQMP (SCAQMD 2017), which incorporates the latest scientific and technological information and planning assumptions, including the 2016 Regional Transportation Plan/Sustainable Communities Strategy and updated emission inventory methodologies for various source categories. The 2016 AQMP included the integrated strategies and measures needed to meet the NAAQS, implementation of new technology measures, and demonstrations of attainment of the 1-hour and 8-hour O_3 NAAQS as well as the latest 24-hour and annual $PM_{2.5}$ standards. Key elements of the 2016 AQMP include:

- Calculation and credit for co-benefits from other planning efforts (e.g., climate, energy, and transportation)
- A strategy with fair-share emission reductions at the federal, State, and local levels
- Investment in strategies and technologies meeting multiple air quality objectives
- Identification of new partnerships and significant funding for incentives to accelerate deployment of zero and near-zero technologies
- Enhanced socioeconomic assessment, including an expanded environmental justice analysis
- Attainment of the 24-hour $PM_{2.5}$ standard in 2019 with no additional measures
- Attainment of the annual $PM_{2.5}$ standard by 2025 with implementation of a portion of the O_3 strategy
- Attainment of the 1-hour O_3 standard by 2022 with no reliance on "black box" future technology (CAA Section 182(e)(5) measures)

SCAQMD adopts rules and regulations to implement portions of the AQMP. Several of these rules may apply to project construction or operation. For example, SCAQMD Rule 403 requires the implementation of the best available fugitive dust control measure during active construction periods capable of generating fugitive dust emissions from on-site earth-moving activities, construction/demolition activities, and construction equipment travel on paved and unpaved roads.

Although SCAQMD is responsible for regional air quality planning efforts, it does not have the authority to directly regulate the air quality issues associated with new development projects within the Basin, such as the proposed project. Instead, SCAQMD published the *CEQA Air Quality Handbook* (1993) to assist lead agencies, as well as consultants, project proponents, and other interested parties, in evaluating potential air quality impacts of projects proposed in the Basin. The *CEQA Air Quality Handbook* provides standards, methodologies, and procedures for conducting air quality analyses in EIRs and was used extensively in the preparation of this analysis. SCAQMD is currently in the process of replacing the *CEQA Air Quality Handbook* with the *Air Quality Analysis Guidance Handbook*.[1]

[1] South Coast Air Quality Management District (SCAQMD). Air Quality Analysis Handbook. Website: www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook (accessed May 2019).

To assist the CEQA practitioner in conducting an air quality analysis in the interim while the replacement *Air Quality Analysis Guidance Handbook* is being prepared, supplemental guidance/ information is provided on the SCAQMD website and includes: (1) Emission FACtors (EMFAC) on-road vehicle emission factors, (2) background CO concentrations, (3) localized significance thresholds (LSTs), (4) mitigation measures and control efficiencies, (5) mobile source toxics analysis, (6) off-road mobile source emission factors, (7) $PM_{2.5}$ significance thresholds and calculation methodology, and (8) updated SCAQMD Air Quality Significance Thresholds. SCAQMD also recommends using approved models to calculate emissions from land use projects, such as the California Emissions Estimator Model (CalEEMod). These recommendations were followed in the preparation of this analysis.

The following SCAQMD rules and regulations would be applicable to the proposed project:

- SCAQMD Rule 403 requires projects to incorporate fugitive dust control measures.
- SCAQMD Rule 1108 limits the VOC content of asphalt.
- SCAQMD Rule 1113 limits the VOC content of architectural coatings.
- SCAQMD Rule 1143 limits the VOC content of solvents used during construction.

Local Regulations

City of Costa Mesa General Plan 2015-2035

Land Use Element. The City's General Plan Land Use Element serves as the long-range planning guide for development in Costa Mesa by indicating the location and extent of development to be allowed. The objectives and policies relevant to the proposed project include:

Goal LU-1: A Balanced Community with a Mix of Land Uses to Meet Resident and Business Needs

Objective LU-1A: Establish and maintain a balance of land uses throughout the community to preserve the residential character of the City at a level no greater than can be supported by the infrastructure.

Policy LU-1.3: Strongly encourage the development of residential uses and owner-occupied housing (single-family detached residences, condominiums, townhouses) where feasible to improve the balance between rental and ownership housing opportunities.

Goal LU-4: New Development that Is Sensitive to Costa Mesa's Environmental Resources

Objective LU-4A: Encourage new development and redevelopment that protects and improves the quality of Costa Mesa's natural environment and resources.

Policy LU-4.6: Incorporate the principles of sustainability into land use planning, infrastructure, and development processes to reduce GHG emissions consistent with State goals.

Goal LU-6: Economically Viable and Productive Land Uses that Increase the City's Tax Base

Objective LU- 6A: Ensure the long-term productivity and viability of the community's economic base.

Policy LU-6.5: Encourage revitalization of existing, older commercial and industrial areas in the Westside with new mixed-use development consisting of ownership housing stock and live/work units

The proposed project would also be required to comply with the applicable policies contained within the Conservation Element of the City of Costa Mesa's General Plan as follows:

- Policy CON-4.A.2: Encourage businesses, industries, and residents to reduce the impact of direct, indirect, and cumulative impacts of stationary and non-stationary pollution sources.
- Policy CON-4.A.3: Require that sensitive uses such as schools, childcare centers, parks and playgrounds, housing, and community gathering places are protected from adverse impacts of emissions.
- Policy CON-4.A.5: Encourage compact development, infill development, and a mix of uses that are in proximity to transit, pedestrian, and bicycling infrastructures.
- Policy CON-4.A.6: Enhance bicycling and walking infrastructure, and support public bus service, pursuant to the Circulation Element's goals, objectives, and policies.

THRESHOLDS OF SIGNIFICANCE

Certain air districts (e.g., SCAQMD) have created guidelines and requirements to conduct air quality analysis. SCAQMD's current guidelines, the *CEQA Air Quality Handbook* (SCAQMD 1993) with associated updates, were followed in this assessment of air quality and GHG emissions impacts for the proposed project.

Based on the *California Environmental Quality Act Statue and Guidelines,* Appendix G, Public Resources Code Sections 15000–15387 (California Natural Resources Agency 2018), a project would normally be considered to have a significant effect on air quality if the project would violate any CAAQS, contribute substantially to an existing air quality violation, expose sensitive receptors to substantial pollutants concentrations, or conflict with adopted environmental plans and goals of the community in which it is located.

POLLUTANTS WITH REGIONAL EFFECTS

SCAQMD has established daily emissions thresholds for construction and operation of a proposed project in the Basin. The emissions thresholds were established based on the attainment status of the Basin with regard to air quality standards for specific criteria pollutants. Because the concentration standards were set at a level that protects public health with an adequate margin of safety (SCAQMD 2017), these emissions thresholds are regarded as conservative and would overstate an individual project's contribution to health risks.

Regional Emissions Thresholds

The City uses the SCAQMD *CEQA Air Quality Handbook* to identify potentially significant impacts on air quality. For the purposes of this analysis, an impact is considered significant if a project:

1. Generates total emissions (direct and indirect) in excess of the thresholds given in Table F;

2. Generates a violation of any ambient air quality standard when added to the local background; or

3. Does not conform with the applicable attainment or maintenance plan(s).

Table F lists the CEQA significance thresholds for construction and operational emissions established for the Basin.

Projects in the Basin with construction- or operation-related emissions that exceed any of these emission thresholds would be considered significant under SCAQMD guidelines. These thresholds, which SCAQMD developed and that apply throughout the Basin, apply as both project and cumulative thresholds. If a project exceeds these standards, it is considered to have a project-specific and cumulative impact.

Table F: Regional Thresholds for Construction and Operational Emissions

Emissions Source	Pollutant Emissions Threshold (lbs/day)					
	VOC	NO_x	CO	PM_{10}	$PM_{2.5}$	SO_x
Construction	75	100	550	150	55	150
Operations	55	55	550	150	55	150

Source: SCAQMD. Air Quality Significance Thresholds. Website: www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf (accessed June 2019)

CO = carbon monoxide
lbs/day = pounds per day
NOx = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in size
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
SCAQMD = South Coast Air Quality Management District
SO_X = sulfur oxides
VOC = volatile organic compounds

Local Microscale Concentration Standards

The significance of localized project impacts under CEQA depends on whether ambient CO levels in the vicinity of the project are above or below State and federal CO standards. Because ambient CO levels are below the standards throughout the Basin, a project would be considered to have a significant CO impact if project emissions result in an exceedance of one or more of the 1-hour or 8-hour standards. The following are applicable local emission concentration standards for CO:

- California State 1-hour CO standard of 20 parts per million (ppm)
- California State 8-hour CO standard of 9 ppm

HEALTH RISK

Both the State and federal governments have established health-based ambient air quality standards (AAQS) for seven air pollutants. For other air pollutants without defined significance standards, the definition of substantial pollutant concentrations varies. For TACs, "substantial" is taken to mean that the individual health risk exceeds a threshold considered to be a prudent risk management level.

The following limits for maximum individual cancer risk (MICR) and noncancer acute and chronic Hazard Index (HI) from project emissions of TACs are considered appropriate for use in determining the health risk for projects in the Basin:

- **MICR:** MICR is the estimated probability of a maximum exposed individual (MEI) contracting cancer as a result of exposure to TACs over a period of 30 years for adults and 9 years for children in residential locations. As a conservative measure, the SCAQMD does not recognize indoor adjustments for residents. However, the typical person spends the majority of their time

indoors versus remaining outdoors 24 hours per day, 350 days per year. [1] The MICR calculations include multi-pathway consideration, when applicable.

The cumulative increase in MICR that is the sum of the calculated MICR values for all TACs would be considered significant if it would result in an increased MICR greater than 10 in 1 million (1.0×10^{-5}) for any resident.

- **Chronic HI:** Chronic HI is the ratio of the estimated long-term level of exposure to a TAC for a potential MEI to its chronic reference exposure level. The chronic HI calculations include multi-pathway consideration, when applicable. The project would be considered significant if the cumulative increase in total chronic HI for any target organ system would exceed 1.0 for any resident.

- **Acute HI:** Acute HI is the ratio of the estimated maximum 1-hour concentration of a TAC for a potential MEI to its acute reference exposure level. The project would be considered significant if the cumulative increase in total acute HI for any target organ system would exceed 1.0 for any resident.

LOCALIZED IMPACTS ANALYSIS

SCAQMD published its *Final Localized Significance Threshold Methodology* in June 2003 and updated it in July 2008 (SCAQMD 2008), recommending that all air quality analyses include an assessment of both construction and operational impacts on the air quality of nearby sensitive receptors. LSTs represent the maximum emissions from a project site that are not expected to result in an exceedance of the most stringent applicable NAAQS or the CAAQS for CO, NO_2, PM_{10} and $PM_{2.5}$, as shown in Table A.

Land uses that are considered more sensitive to changes in air quality than others are referred to as sensitive receptors. Land uses such as schools, hospitals, and convalescent homes are considered to be sensitive to poor air quality because the very young, the old, and the infirm are more susceptible to respiratory infections and other air quality-related health problem than the general public. Residential homes are considered sensitive because people in residential areas are often at home for extended period of time, so they could be exposed to pollutants for extended periods. As described above, the closest sensitive receptors are south of the project site across I-405, approximately 300 feet from the boundary of the project site. The California Elementary School is approximately 1,500 feet from the project site.

LST analyses only apply to CO, NO_2, PM_{10}, and $PM_{2.5}$ emissions during construction and operation, and are at the discretion of the lead agency. Screening-level analysis of LSTs is only recommended for construction activities at project sites that are 5 acres or less. SCAQMD recommends that an LST analysis for any project greater than 5 acres should perform air quality dispersion modeling to assess

[1] In May 1991, the California Air Resources Board Research Division, in association with the University of California, Berkeley, published research findings entitled: *Activity Patterns of California Residents*. The findings of that study indicate that on average, adults and adolescents in California spent almost 15 hours per day inside their homes, and 6 hours in other indoor locations, for a total of 21 hours (87 percent of the day). About 2 hours per day were spent in transit, and just over 1 hour per day was spent in outdoor locations.

impacts to nearby sensitive receptors. Thus, dispersion modeling would be required for CO, NO_2, PM_{10}, and $PM_{2.5}$ emissions for this project. NO_X to NO_2 conversion would be accounted for during the modeling to determine the maximum NO_2 concentrations at the nearest sensitive receptors.

SCAQMD has developed methodology to assess the potential for localized emissions to cause an exceedance of applicable ambient air quality standards. In the case of CO and NO_2, which are in attainment for the basin, if ambient levels are below the standards, a project would be considered to have a significant impact if project emissions would result in an exceedance of one or more of these standards. If ambient levels already exceed a State or federal standard, then project emissions would be considered significant if they increase ambient concentrations by a measurable amount. This would apply to PM_{10} and $PM_{2.5}$, both of which are nonattainment pollutants (SCAQMD 2006). For these two, the significance criteria are the pollutant concentration thresholds presented in SCAQMD Rules 403 and 1301. The Rule 403 threshold of 10.4 µg/m^3 applies to construction emissions. The Rule 1301 threshold of 2.5 µg/m^3 applies to operational activities.

For operational emissions, CalEEMod does not distinguish on-site emissions from off-site emissions. By design, the LST analysis only includes on-site sources; however, CalEEMod does not separate on-site and off-site emissions for operational sources. Thus, the operational LST analysis includes all on-site, project-related stationary sources and a percentage of the project-related mobile sources that estimates the amount of project-related vehicle traffic that would occur on site. To avoid the need for every air quality analysis to perform air dispersion modeling, SCAQMD performed air dispersion modeling to create look-up tables that correlate pollutant emissions rates with project size to screen out projects that are unlikely to generate enough emissions to result in a locally significant concentration of any criteria pollutant. These look-up tables can also be used as screening criteria for larger projects to determine whether dispersion modeling may be required. LSTs are based on the ambient concentrations of that pollutant within the project Source Receptor Area (SRA) and the distance to the nearest sensitive receptor.

Table G lists the applicable LST emission rates for project operations.

Table G: Localized Significance Thresholds

On-site Emissions Sources	Pollutant Emissions (lbs/day)			
	NO_X	**CO**	**PM_{10}**	**$PM_{2.5}$**
Construction Emissions	AAQS minus the ambient concentration (see Table K)			
Operational Emissions	200	2,349	13	5

Source: Compiled by LSA (June 2019).
Note: Source Receptor Area – North Coastal Orange County, 5 acres, receptors at 300 feet.
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size

GREENHOUSE GAS EMISSIONS

State CEQA Guidelines Section 15064(b) provides that the "determination of whether a project may have a significant effect on the environment calls for careful judgment on the part of the public agency involved, based to the extent possible on scientific and factual data," and further, states that an "ironclad definition of significant effect is not always possible because the significance of an activity may vary with the setting."

Appendix G of the *State CEQA Guidelines* includes significance thresholds for GHG emissions. A project would normally have a significant effect on the environment if it would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or

- Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

The *State CEQA Guidelines* do not establish a threshold of significance for GHG impacts; instead, lead agencies have the discretion to establish significance thresholds for their respective jurisdictions. A lead agency may look to thresholds developed by other public agencies or other expert entities, such as the California Air Pollution Control Officers Association, so long as the threshold chosen is supported by substantial evidence. SCAG, SCAQMD, and the City have not adopted a GHG significance threshold applicable to the proposed project.

Background on Greenhouse Gas Thresholds

In 2014, the California Supreme Court considered the CEQA issue of determining the significance of GHG emissions in its decision, *Center for Biological Diversity v. California Department of Fish and Wildlife and Newhall Land and Farming* (*CBD v. CDFW*). The Court questioned a common CEQA approach to GHG analyses for development projects that compares project emissions to the reductions from business as usual (BAU) that would be needed statewide to reduce emissions to 1990 levels by 2020, as required by AB 32. The Court upheld the BAU method as valid in theory, but concluded that the BAU method was improperly applied in the case of the Newhall Project because the target for the project was incorrectly deemed consistent with the statewide emission target of 29 percent below BAU for the year 2020. In other words, the Court said that the percentage below BAU target developed by the AB 32 Scoping Plan is intended as a measure of the GHG reduction effort required by the State as a whole, and it cannot necessarily be applied to the impacts of a specific project in a specific location. The Court provided some guidance to evaluating the cumulative significance of a proposed land use project's GHG emissions, but noted that none of the approaches could be guaranteed to satisfy CEQA for a particular project. The Court's suggested "pathways to compliance" include:

1. Use a geographically specific GHG emission reduction plan (e.g., climate action plan) that outlines how the jurisdiction will reduce emissions consistent with State reduction targets, to provide the basis for streamlining project-level CEQA analysis, as described in CEQA § 15183.5.

2. Use the Scoping Plan's BAU reduction goal, but provide substantial evidence to bridge the gap between the statewide goal and the project's emissions reductions.

3. Assess consistency with AB 32's goal in whole or part by looking to compliance with regulatory programs designed to reduce GHG emissions from particular activities; as an example, the Court points out that projects consistent with an SB 375 Sustainable Communities Strategy may need to re-evaluate GHG emissions from cars and light trucks.

4. Rely on existing numerical thresholds of significance for GHG emissions, such as those developed by an air district.

The City has not adopted a Climate Action Plan as described in the first pathway, nor is the second or third pathway practical for this project. SCAQMD proposed a Tier 3 screening level threshold for projects such that if project GHG emissions fall below 3,000 MT CO_2e annually, the project is considered to comply with the GHG emission reduction strategy as mandated by AB 32. If a project's GHG emissions exceed the GHG screening threshold, the project would move to Tier 4, which establishes the following efficiency targets:

- 4.8 MT CO_2e per Service Population (SP) for project-level threshold
- 6.6 MT CO_2e per SP for plan-level threshold (all sectors)

Service Population is defined as the combination of all people living and working on the project site.

If the project fails to meet any of these emissions reduction targets and efficiency targets, the project would move to Tier 5. Tier 5 would require implementation of off-site GHG mitigation, including purchasing GHG emission offsets, to reduce GHG emission impacts for the life of the project (30 years) to less than 3,000 MT CO_2e annually.

IMPACTS AND MITIGATION

Air pollutant emissions associated with the project would occur over the short term from construction activities and over the long term from operational activities including project-related vehicular trips and energy consumption (e.g., electricity and natural gas usage). The purpose of this air quality and GHG analysis is to review reasonably foreseeable worst-case, air quality and GHG impacts due to construction and occupancy of the project and to develop programmatic mitigation measures to address potential impacts.

CONSTRUCTION IMPACTS

Equipment Exhaust and Fugitive Dust

Construction activities produce emissions from various combustion sources (equipment engines, electrical generators, and motor vehicles transporting the construction crew). Exhaust emissions from construction activities envisioned on site would vary daily as construction activity levels change.

Project construction impacts were evaluated for the project by estimating the construction equipment that would be used during each construction activity, the hours of use for that construction equipment, the quantities of earth and debris to be moved, and on-road vehicle trips (worker, soil hauling, and vendor trips). To accomplish this, the project engineer, the developer, and LSA worked together to develop a preliminary grading plan, construction equipment list, and a reasonably foreseeable construction activities phasing plan indicative of incremental development. The analysis using the preliminary construction planning allows for a project-level analysis and mitigation associated with construction activities.

Construction would start in January 2022 and conclude in January 2027, lasting approximately 5 years. An existing 343,300 sf building and a 178,000 sf parking lot would be demolished. Construction would require approximately 91,000 cubic yards (CY) of fill and 194,000 CY of soil removal. Three mixed-use buildings, one office building, and an urban park would be constructed with two levels of subterranean parking and a seven level parking structure along I-405. There are 79,000 sf of hardscape (e.g., concrete curb, walkways) planned.

Fugitive Dust

Fugitive dust emissions are generally associated with land clearing and exposure of soils to the air and wind, as well as cut-and-fill grading operations. Dust generated during construction varies substantially on a day-to-day basis, depending on the level of activity, the specific operations, and weather conditions at the time of analysis.

The construction calculations prepared for this project assumed that dust control measures would be employed to comply with SCAQMD Rule 403 regarding the control of emissions of fugitive dust documented in the Standard Conditions Section below. The total construction emissions as shown below (i.e., fugitive-dust emissions and construction-equipment exhausts), are those that would occur on a peak day. The Rule 403 measures that were incorporated in the CalEEMod analysis are:

- Water active sites at least thrice daily (locations where grading is to occur shall be thoroughly watered prior to earthmoving).
- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 2 feet (0.6 meter) of freeboard (vertical space between the top of the load and the top of the trailer) in accordance with the requirements of California Vehicle Code Section 23114.
- Reduce traffic speeds on all unpaved roads to 15 mph or less.

CalEEMod defaults are assumed to represent the daily construction activities, on-road construction fleet mix, and off-site trip lengths. Table H lists the tentative project construction phases and durations for the proposed project. Construction phase durations are proportioned from the CalEEMod defaults so that the overall duration matches the project plans. To be conservative it was assumed that each phase would overlap with the subsequent phase.

Table H: Tentative Project Construction Schedule

Phase Name	Number of Days
Demolition	66
Site Preparation	33
Grading	99
Building Construction	990
Paving	66
Architectural Coating	66

Source: One Metro West Plans.

The most recent version of CalEEMod (Version 2016.3.2) was used to develop the construction equipment inventory and calculate the construction emissions. Table I lists the estimated construction equipment that would be used during project construction as estimated by CalEEMod default values.

The emissions rates shown in Table J are from the CalEEMod output tables listed as "Mitigated Construction," even though the only measures that have been applied to the analysis are the required construction emissions control measures, or standard conditions. They are also the combination of the on- and off-site emissions.

Architectural coatings contain VOCs that are part of the O_3 precursors. Based on the proposed project, it is estimated that application of the architectural coatings for the proposed peak construction day would result in a peak of 105 pounds per day (lbs/day) of VOC. Therefore, VOC emissions from the architectural coating application would exceed the SCAQMD VOC threshold of 75 lbs/day. Additionally, NO_X emissions would be 112 lbs/day which would also exceed the SCAQMD threshold of 100 lbs/day. Therefore, mitigation would be required to reduce this impact.

Table I: Diesel Construction Equipment Used by Construction Phase

Construction Phase	Off-Road Equipment Type	Off-Road Equipment Unit Amount	Hours Used per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	1	8	81	0.73
	Excavators	3	8	158	0.38
	Rubber Tired Dozers	2	8	247	0.4
Site Preparation	Rubber Tired Dozers	3	8	247	0.4
	Tractors/Loaders/Backhoes	4	8	97	0.37
Grading	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.4
	Tractors/Loaders/Backhoes	2	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
	Forklifts	3	8	89	0.2
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
Architectural Coating	Air Compressors	1	6	78	0.48
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38

Source: One Metro West Plans.

Table J: Short-Term Regional Peak Day Construction Emissions

Construction Phase	Total Regional Pollutant Emissions (lbs/day)				Fugitive PM_{10}	Exhaust PM_{10}	Fugitive $PM_{2.5}$	Exhaust $PM_{2.5}$
	VOC	NO_X	CO	SO_X				
Demolition	3	31	23	<1	3	1	<1	1
Site Preparation	3	33	20	<1	7	2	4	1
Grading	4	79	35	<1	7	1	3	1
Building Construction	5	24	39	<1	9	<1	3	<1
Paving	<1	9	15	<1	<1	<1	<1	<1
Architectural Coating	105	1	7	<1	3	<1	<1	<1
Peak Daily	**110**	**112**	**74**	**<1**	**17**		**8**	
SCAQMD Thresholds	**75**	**100**	**550**	**150**	**150**		**55**	
Exceeds Thresholds?	**Yes**	**Yes**	**No**	**No**	**No**		**No**	

Source: Compiled by LSA (January 2020).
Note: Assumes every phase overlaps with the subsequent phase and the Building Construction, Paving, and Architectural Coating phases overlap. PM_{10} and $PM_{2.5}$ fugitive emissions are from the Mitigated results - the only "mitigation" applied in this modeling are required dust control measures per SCAQMD Rule 403.
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SCAQMD = South Coast Air Quality Management District
SO_X = sulfur oxides
VOC = volatile organic compounds

Implementation of Mitigation Measure AIR-1 would require the construction equipment meet enhanced standards as follows:

Mitigation Measure AIR-1 The project contractor(s) shall use construction equipment that meets EPA Tier 3 level of emission controls fitted with Level 2 Diesel Particulate Filters (DPF) for all construction equipment 50 horsepower or more.

Implementation of Mitigation Measure AIR-2 would require the use of architectural coating as follows:

Mitigation Measure AIR-2 The project contractor shall only use interior paints with low volatile organic compound (VOC) content with a maximum concentration of 30 grams per liter (g/L) for residential building architectural coating to reduce VOC emissions. All building and site plans shall note use of paints with a low VOC content with a maximum concentration of 30 g/L verified by the City of Costa Mesa prior to issuance of any construction permits and during interior coating activities.

Emission results with implementation of Mitigation Measures AIR-1 and AIR-2 are shown in Table K.

Table K: Short-Term Regional Peak Day Construction Emissions With Mitigation

Construction Phase	Total Regional Pollutant Emissions (lbs/day)				Fugitive PM_{10}	Exhaust PM_{10}	Fugitive $PM_{2.5}$	Exhaust $PM_{2.5}$
	VOC	NO_X	CO	SO_X				
Demolition	1	24	27	<1	3	<1	<1	<1
Site Preparation	1	19	23	<1	7	<1	4	<1
Grading	3	73	39	<1	7	<1	3	<1
Building Construction	4	24	41	<1	9	<1	3	<1
Paving	<1	11	18	<1	<1	<1	<1	<1
Architectural Coating	105	2	7	<1	3	<1	<1	<1
Peak Daily	**109**	**92**	80	**<1**	**17**		8	
SCAQMD Thresholds	**75**	**100**	**550**	**150**	**150**		**55**	
Exceeds Thresholds?	**Yes**	**No**	**No**	**No**	**No**		**No**	

Source: Compiled by LSA (January 2020).
Note: Assumes every phase overlaps with the subsequent phase and the Building Construction, Paving, and Architectural Coating phases overlap. All emissions are from the Mitigated results - the measures applied in this modeling are required dust control measures per SCAQMD Rule 403 and EPA Tier 3 and DPF Level 2 compliance.
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SCAQMD = South Coast Air Quality Management District
SO_X = sulfur oxides
VOC = volatile organic compounds

As shown in Table K, emissions of NO_X would be reduced to below the SCAQMD standard. However, VOC emissions would remain significant and unavoidable. Architectural coating activities associated with project construction would comply with the VOC limits contained in SCAQMD Rule 1113 and Mitigation Measure AIR-2. No feasible measures exist to reduce VOC impacts from coatings to a less than significant level. No other exceedances of any criteria pollutants are expected.

Localized Impacts Analysis

A local significant impact may occur if a project were to generate pollutant concentrations to a degree that would significantly affect the sensitive receptors near the project site to the south of I-405.

The American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) is an EPA-approved air dispersion model that was used to calculate localized pollutant concentrations for construction and operational activity. Because precise construction phasing information is not available at this time, construction activities were modeled as an area source for the entire 15.23-acre project site to represent the fugitive dust and a cluster of volume sources to represent the equipment exhaust.

For purposes of this construction emission analysis, discrete receptor points were placed at the nearest residential receptors to the south of I-405 and the receptor grids were used for all other residential receptors within 500 meters (1,640 feet) from the project site for emissions of NO_2, CO, PM_{10}, and $PM_{2.5}$.

The urban option of the model was selected and receptor height was conservatively set at 1.5 meters (5 feet) (consistent with the document Final Localized Significance Threshold Methodology, SCAQMD 2003). For PM_{10} and $PM_{2.5}$, a source release height of 2 feet was used, consistent with SCAQMD methodology. For emissions of NO_X and CO released during construction activity, a source release height of 3.66 meters (12 feet) was used.

The emission rates for CO, NO_2, PM_{10}, and $PM_{2.5}$ from CalEEMod were used (and averaged over the appropriate time period and disturbance area). A summary of calculations from both the AERMOD output and calculations for the actual concentration for each pollutant are available for review in Appendix B.

Table L shows that the concentrations of all pollutants from construction emissions would be lower than the AAQS for all residences within 500 meters (1,640 feet) from the boundary of the proposed project.

Table L: Construction Localized Significance Threshold Modeling Results

Pollutant	AAQS	Ambient Concentration	Threshold	Maximum Concentration Increase	Over/ (Under) Threshold	Adverse Concentration
CO (1-Hour)	20 ppm	2.1 ppm	17.9 ppm	0.4 ppm	(17.5 ppm)	No
CO (8-Hour)	9.0 ppm	1.7 ppm	7.3 ppm	0.1 ppm	(7.2 ppm)	No
NO_2 (1-hour)	0.18 ppm	<0.1 ppm	0.1 ppm	<0.1 ppm	(0.1 ppm)	No
NO_2 (annual)	0.03 ppm	<0.1 ppm	<0.1 ppm	<0.1 ppm	(<0.1 ppm)	No
PM_{10} (24-hour)			10.4 µg/m³	3.3 µg/m³	(7.1 µg/m³)	No
PM_{10} (annual)			1.0 µg/m³	0.1 µg/m³	(0.9 µg/m³)	No
$PM_{2.5}$ (24-hour)			10.4 µg/m³	2.9 µg/m³	(7.5 µg/m³)	No
$PM_{2.5}$ (annual)			1.0 µg/m³	<0.1 µg/m³	(1.0 µg/m³)	No

Source: Compiled by LSA (January 2020).
Note: Results based on the unmitigated emissions from Table J; results would be lower with the implementation of Mitigation Measure AIR-1. Because both PM_{10} and $PM_{2.5}$ are in non-attainment, their thresholds are not based on AAQS exceedance, but rather a violation of SCAQMD Rule 403.
AAQS = ambient air quality standards
CO = carbon monoxide
µg/m³ = microgram of pollutant per cubic meter of air
ppm = parts per million
NO_2 = nitrogen dioxide
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SCAQMD = South Coast Air Quality Management District

Odors from Construction Activities

Heavy-duty equipment in the project area would emit odors during construction, primarily from the equipment exhaust. However, the construction activity would cease to occur after construction is completed. No other sources of objectionable odors have been identified for the proposed project, and no mitigation measures are required.

SCAQMD Rule 402 regarding nuisances states: "A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property." The proposed residential uses are not anticipated to emit any objectionable odors. Therefore, objectionable odors posing a health risk to potential on-site and existing off-site uses would not occur as a result of the proposed project.

Construction Impacts to Off-site Residents

The greatest potential for toxic air contaminant (TAC) emissions during construction activities would be related to emissions of diesel particulate matter (DPM) associated with heavy equipment operations during demolition, grading, and trenching activities. In addition, while incidental amounts of substances containing TACs—such as oils, solvents, and paints—could be used, these products would comply with all applicable SCAQMD rules for their manufacture and use and would not contribute substantially to overall health risks from TACs. According to SCAQMD methodology, health effects from carcinogenic TACs are usually described in terms of individual cancer risk. Individual cancer risk is the likelihood that a person exposed to concentrations of TACs over a 30-year residential lifetime will contract cancer, based on the use of standard risk-assessment methodology. The SCAQMD *CEQA Air Quality Handbook* recommends that sensitive receptors located within 0.25 mile of a facility that emits TACs be considered in an evaluation of TAC related health impacts. Sensitive receptors located beyond the 0.25 mile distance are generally not required to be evaluated due to atmospheric mixing and dispersion of pollutants.

Construction-related activities would result in short-term emissions of DPM from the off-road heavy-duty diesel equipment exhaust. Based on the construction schedule shown in Table H, the LST AERMOD construction modeling, and the unmitigated on-site construction exhaust emissions from the CalEEMod analysis (shown in Table J and Appendix A), construction of the proposed project would not result in any substantial, long-term (i.e., 30-year) health risk levels to the residents near the project site, as shown in Table M. As shown in Table K, with implementation of mitigation measure AIR-1, exhaust emissions of PM_{10} and $PM_{2.5}$ would be substantially reduced, resulting in a similar reduction in the health risk levels, also shown in Table M. See Appendix C for the worksheets. In addition, there would be no residual emissions or corresponding individual cancer risk after construction. As a result, construction TAC emissions would have a less than significant impact.

Table M: Construction Health Risk Levels for Residents Near the Project Site

Location	Maximum Cancer Risk (risk per million)	Maximum Noncancer Chronic Risk (Hazard Index)
Unmitigated Maximum Exposed Individual	2.8 per million	0.003
Maximum Exposed Individual with implementation of Mitigation Measure AIR-1	2.0 per million	0.002
SCAQMD Significance Threshold	**10**	**1.0**
Significant?	**No**	**No**

Source: Compiled by LSA (January 2020).
SCAQMD = South Coast Air Quality Management District

Naturally Occurring Asbestos

The proposed project site is in Orange County, which is not among the counties that are found to have serpentine and ultramafic rock in their soils.[1] Therefore, the potential risk for naturally occurring asbestos during project construction is small and would be less than significant.

OPERATIONS IMPACTS

Long-Term Project Operational Emissions

Project operational impacts were evaluated for the project by analyzing air pollutant emission impacts from net increases in both area and mobile-source emissions. The area source emission categories include sources such as consumer products, fireplaces, and landscaping equipment. The existing light industrial land use was modeled using the trip rate from the *Traffic Impact Analysis Report* (LSA 2020) of 428 peak daily trips and CalEEMod defaults for other parameters. The "historical" energy option was enabled to represent the energy use based on the age of the existing building.

Based on the *Traffic Impact Analysis Report* (LSA 2020), the new residences would generate 7,103 trips, the office use 244 trips, the retail use 641 trips, the community center 43 trips, and the public park 1 trip, all on a peak day. Project trips would be reduced by 803 trips due to internal capture. As the amount of project-related daily trips would vary from weekday to weekend and the traffic impact peak day is a weekday (when there is more non-project-related traffic on surrounding roads), the trip rates for Saturday and Sunday were proportioned from the peak day. The project would not include any fireplaces in any of the residences. Table N shows long-term operational emissions associated with the proposed project. Energy source emissions would include natural gas consumption for heating.

While the project would include numerous "green" features that would reduce energy use and associated emissions, the incorporation of these features in this analysis did not result in a noticeable reduction in criteria pollutant emissions.

[1] California Department of Conservation. Asbestos. Website: www.conservation.ca.gov/cgs/Pages/HazardousMinerals/asbestos2.aspx (accessed June 2019).

Table N: Opening Year Regional Operational Emissions

Source	Pollutant Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Existing Operational Emissions						
Area	8	<1	<1	0	<1	<1
Energy	<1	2	2	<1	<1	<1
Mobile	<1	2	8	<1	4	1
Warehouse Equipment	<1	3	5	<1	<1	<1
Total Existing Emissions	**9**	**7**	**15**	**<1**	**4**	**1**
Proposed Project Operational Emissions						
Area	26	1	87	<1	<1	<1
Energy	<1	3	1	<1	<1	<1
Mobile	9	33	112	<1	53	14
Total Project Emissions	**35**	**37**	**200**	**<1**	**53**	**15**
Net Operational Emissions	**26**	**30**	**185**	**<1**	**49**	**14**
SCAQMD Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Compiled by LSA (January 2020).
CO = carbon monoxide
lbs/day = pounds per day
NO_x = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SCAQMD = South Coast Air Quality Management District
SO_X = sulfur oxides
VOC = volatile organic compounds

Localized Impacts Analysis

Table O shows the calculated emissions for the proposed operational activities compared with the appropriate LSTs. By design, the localized impacts analysis only includes on-site sources; however, the CalEEMod outputs do not separate on-site and off-site emissions for mobile sources. For a worst-case scenario assessment, the emissions shown in Table O include all on-site project-related stationary sources and 5 percent of the project-related new mobile sources, which is an estimate of the amount of project-related new vehicle traffic that would occur on site. A total of 5 percent is considered conservative because the average round-trip lengths assumed are 14.7 miles for home-work, 5.9 miles for home-shopping, and 8.7 miles for other types of trips. It is unlikely that the average on-site distance driven including within the parking structure and exiting the site would be more than 2,000 feet, which is approximately 4 percent of the total miles traveled. Considering the total trip length included in CalEEMod, the 5 percent assumption is conservative.

Table O: Long-Term Operational Localized Impacts Analysis

Emissions Sources	NO_X	CO	PM_{10}	$PM_{2.5}$
On-Site Emissions	2	91	2	<1
LST	**200**	**2,349**	**13**	**5**
Significant Emissions?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (January 2020).
SRA: North Coastal Orange County, 5 acres, 300 foot distance, on-site traffic 5 percent of total
CO = carbon monoxide
LST = localized significance threshold
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size

Table O shows that the operational emission rates would not exceed the LSTs for sensitive receptors in the project area. Therefore, the proposed operational activity would not result in a locally significant air quality impact.

The project would not include the use of diesel generators or other significant sources of TAC emissions. Therefore, the project would not result in significant operational health risk impacts to the residents near the project site.

Odors from Operational Activities

Land uses and industrial operations that are associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. No sources of objectionable odors have been identified for the proposed project; therefore, the impacts associated with odors would be less than significant, and no mitigation measures are required.

Long-Term Microscale (CO Hot Spot) Analysis

Vehicular trips associated with the proposed project would contribute to congestion at intersections and along roadway segments in the project vicinity. Localized air quality impacts would occur when emissions from vehicular traffic increase as a result of the proposed project. The primary mobile-source pollutant of local concern is CO, a direct function of vehicle idling time and, thus, of traffic flow conditions. CO transport is extremely limited; under normal meteorological conditions, CO disperses rapidly with distance from the source. However, under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthful levels, affecting local sensitive receptors (e.g., residents, schoolchildren, the elderly, and hospital patients). Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service or with extremely high traffic volumes. In areas with high ambient background CO concentrations, modeling is recommended to determine a project's effect on local CO levels.

At the time of the publishing of the *1993 Handbook*, the Basin was designated nonattainment under the CAAQS and NAAQS for CO. With the turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities, CO concentrations in the Basin and in California have steadily declined. In 2007, SCAQMD was designated in attainment for CO under both the CAAQS and NAAQS. As identified within SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide, peak carbon monoxide concentrations in the Basin were a result of unusual meteorological and topographical conditions and not a result of congestion at a particular intersection. A CO hot spot analysis was conducted at four busy intersections in Los Angeles County at the peak morning and afternoon periods and did not predict a violation of CO standards.[1] Under existing and future vehicle emission rates, a project would have to increase traffic

[1] The four intersections were Long Beach Boulevard/Imperial Highway; Wilshire Boulevard/Veteran Avenue; Sunset Boulevard/Highland Avenue; and La Cienega Boulevard/Century Boulevard. The busiest intersection evaluated (Wilshire Boulevard/Veteran Avenue) had a daily traffic volume of approximately 100,000 vehicles and level of service (LOS) E in the morning peak hour and LOS F in the evening peak hour.

volumes at a single intersection by more than 44,000 vehicles per hour—or 24,000 vehicles per hour where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (BAAQMD 2017). One of the top four worst intersections in the Basin (i.e., Sunset Boulevard/Highland Avenue)[1] is in the city of Los Angeles, approximately 37 miles northwest of the proposed project. Because the SCAQMD modeled intersections do not exceed the CO standards, intersections within the proposed project study area with lesser volumes of traffic and under less extreme conditions would not exceed the CO standards. Buildout of the proposed project would not produce the volume of traffic, 7,103 peak daily trips as described in the *Traffic Impact Analysis Report* (LSA 2020), required to generate a CO hot spot. Therefore, implementation of the proposed project would not be expected to result in CO hot spots, and impacts would be less than significant. No mitigation is required.

Operational Emissions Conclusions

Tables N and O show that daily operational emissions for the proposed project would not exceed the daily thresholds of any criteria pollutant established by SCAQMD. Thus, during project operation there would be no air quality impacts.

ASSESSMENT OF PROJECT-RELATED HEALTH IMPACTS

Although the emissions from project operations are not expected to exceed the SCAQMD's numeric regional mass daily emission thresholds, this does not in itself constitute a less than significant health impact to the future residents on the project site and within the Basin.

The SCAQMD's numeric regional mass daily emission thresholds are based in part on Section 180 (e) of the CAA. It should be noted that the numeric regional mass daily emission thresholds have not changed since their adoption as part of the *CEQA Air Quality Handbook* published by SCAQMD in 1993 (over 20 years ago). The numeric regional mass daily emission thresholds are also intended to provide a means of consistency in significance determination within the environmental review process.

Notwithstanding, simply exceeding the SCAQMD's numeric regional mass daily emission thresholds does not constitute a particular health impact to an individual nearby. The reason for this is that the mass daily emission thresholds are in lbs/day emitted into the air, whereas health effects are determined based on the concentration of a pollutant in the air at a particular location (e.g., ppm by volume of air or µg/$m^3$of air). CAAQS and NAAQS were developed to protect the most susceptible population groups from adverse health effects and were established in terms of ppm or µg/m^3 for the applicable emissions.

For this reason, the SCAQMD developed a methodology to assist lead agencies in analyzing localized air quality impacts from a proposed project as they relate to CO, NO_X, $PM_{2.5}$, and PM_{10}. This methodology is collectively referred to as the LST. LSTs differ from the numeric regional mass daily

[1] The intersection of Sunset Boulevard/Highland Avenue is within the city of Los Angeles and is used to represent a condition where there is a high volume of traffic during the a.m. and p.m. peak hours to demonstrate that intersections that are below the volume of traffic at this particular intersection, under less severe atmospheric conditions (i.e., where vertical and horizontal air does not mix), would not result in CO hot spots.

emission thresholds in that LSTs are based on (1) the amount of emissions generated from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable NAAQS or CAAQS, and (2) the ambient concentrations of the pollutant and the relative distance to the nearest sensitive receptor (the SCAQMD performed air dispersion modeling to determine what amount of emissions generated a particular concentration at a particular distance).

This air quality analysis evaluated the project's localized impact to air quality for emissions of CO, NO_X, $PM_{2.5}$, and PM_{10} by comparing the project's on-site emissions to the SCAQMD's applicable LST thresholds. As shown in Tables L and O, the project would not result in emissions that exceed the SCAQMD's LSTs. Therefore, the project emissions would not be expected to exceed the most stringent applicable NAAQS or CAAQS for NO_X, $PM_{2.5}$, and PM_{10}. It should be noted that the AAQS are developed and represent levels at which the most susceptible persons (children and the elderly) are protected. In other words, the AAQS are purposefully set low to protect children, the elderly, and those with existing respiratory problems.

Furthermore, as described on page 18, air quality trends for emissions of NO_X, VOCs, and O_3 (which is a byproduct of NO_X and VOCs) have been trending downward within the Basin even as development has increased over the last several years. Therefore, since the project will not exceed the SCAQMD's applicable numeric regional mass daily emission thresholds, the project would not result in any Basin-wide increase in health effects.

As noted in the Brief of Amicus Curiae by the SCAQMD (2015), the SCAQMD has acknowledged that for criteria pollutants, it would be extremely difficult, if not impossible, to quantify health impacts for various reasons, including modeling limitations as well as where in the atmosphere air pollutants interact and form. Furthermore, as noted in the Brief of Amicus Curiae by the San Joaquin Valley Unified Air Pollution Control District (SJVAPCD) (2015), the SJVAPCD has acknowledged that currently available modeling tools are not equipped to provide a meaningful analysis of the correlation between an individual development project's air emissions and specific human health impacts. (See page 4 of the SJVAPCD Brief of Amicus Curiae).

Additionally, the SCAQMD acknowledges that health effects quantification from O_3, as an example, is correlated with the increases in ambient level of O_3 in the air (concentration) that an individual person breathes. The SCAQMD goes on to state that it would take a large amount of additional emissions to result in a modeled increase in ambient O_3 levels over the entire region. The SCAQMD states that based on its own modeling in its 2012 AQMP, a reduction of 432 tons (864,000 lbs) per day of NO_X and a reduction of 187 tons (374,000 lbs) per day of VOCs would reduce O_3 levels at the highest monitored site by only 9 ppb. As such, the SCAQMD concludes that it is not currently possible to accurately quantify O_3-related health impacts caused by NO_X or VOC emissions from relatively small projects (defined as projects with a regional scope) due to photochemistry and regional model limitations (see page 11 of the SCAQMD Brief of Amicus Curiae).

To underscore this point, the SCAQMD goes on to state that it has only been able to correlate potential health outcomes for very large emissions sources. As part of its rulemaking activity, specifically 6,620 lbs/day of NO_X and 89,180 lbs/day of VOCs were expected to result in approximately 20 premature deaths per year and 89,947 school absences due to O_3.

The proposed project does not generate anywhere near 6,620 lbs/day of NO_X or 89,190 lbs/day of VOC emissions. As shown in Tables J, K, and N, the project would generate a maximum of 112 lbs/day of NO_X during construction (1.7 percent of 6,620 lbs/day) without mitigation, a maximum of 92 lbs/day of NO_X during construction (1.5 percent of 6,620 lbs/day) with mitigation, and up to 37 lbs/day of NO_X during operations (0.6 percent of 6,620 lbs/day), respectively. The project would also generate a maximum of 110 lbs/day of VOC emissions during construction and 35 lbs/day of VOC emissions during operations (0.12 percent and 0.04 percent of 89,190 lbs/day, respectively).

Therefore, the project's emissions are not sufficiently high enough to use a regional modeling program to correlate health effects on a Basin-wide level. Further, the SJVAPCD acknowledges the same:

> "…the Air District is simply not equipped to analyze and to what extent the criteria pollutant emissions of an individual CEQA project directly impact human health in a particular area…even for projects with relatively high levels of emissions of criteria pollutant precursor emissions." (See page 8 of the SJVAPCD Brief of Amicus Curiae.)

Notwithstanding, as previously noted, this air quality analysis does include a site-specific localized impact analysis that correlates potential project health impacts on a local level to immediately adjacent land uses. The SCAQMD Brief of Amicus Curiae and SJVAPCD Brief of Amicus Curiae are incorporated by reference into this report and into the environmental documentation for this project, including all references therein.

Current scientific, technological, and modeling limitations prevent the relation of expected adverse air quality impacts to likely health consequences.

GREENHOUSE GAS EMISSIONS

Emissions estimates for the proposed project are discussed below. Bearing in mind that CEQA does not require "perfection" but instead "adequacy, completeness, and a good faith effort at full disclosure," the analysis below is based on methodologies and information available to the City and the applicant at the time this analysis was prepared. Estimation of GHG emissions in the future does not account for all changes in technology that may reduce such emissions; therefore, the estimates are based on past performance and represent a scenario that is worse than that which is likely to be encountered (after future energy-efficient technologies have been implemented). While information is presented below to assist the public and decision-makers in understanding the project's potential contribution to GCC impacts, the information available to the City is not sufficiently detailed to allow a direct comparison between particular project characteristics and particular climate change impacts, nor between any particular proposed mitigation measure and any reduction in climate change impacts.

Construction and operation of the proposed project would generate GHG emissions, with the majority of energy consumption (and associated generation of GHG emissions) occurring during the project's operation (as opposed to during its construction). Typically, more than 80 percent of the total energy consumption takes place during the use of buildings, and less than 20 percent of energy is consumed during construction (United Nations Environment Programme 2007).

Overall, the following activities associated with the proposed project could directly or indirectly contribute to the generation of GHG emissions.

- **Construction Activities:** During construction of the project, GHGs would be emitted through the operation of construction equipment and from worker and vendor vehicles, each of which typically uses fossil-based fuels to operate. The combustion of fossil-based fuels creates GHGs (e.g., CO_2, CH_4, and N_2O). Furthermore, CH_4 is emitted during the fueling of heavy equipment.

- **Gas, Electricity, and Water Use:** Natural gas use results in the emission of two GHGs: CH_4 (the major component of natural gas) and CO_2 (from the combustion of natural gas). Electricity use can result in GHG production if the electricity is generated by combusting fossil fuel. California's water conveyance system is energy-intensive. Approximately 19 percent of the state's electricity and 30 percent of its non-power plant natural gas is used to store, convey, conserve, and treat water and wastewater. (CEC 2015).

- **Solid Waste Disposal:** Solid waste generated by the project could contribute to GHG emissions in a variety of ways. Landfilling and other methods of disposal use energy for transporting and managing the waste, and they produce additional GHGs to varying degrees. Landfilling, the most common waste management practice, results in the release of CH_4 from the anaerobic decomposition of organic materials. CH_4 is 25 times more potent a GHG than CO_2. However, landfill CH_4 can also be a source of energy. In addition, many materials in landfills do not decompose fully, and the carbon that remains is sequestered in the landfill and not released into the atmosphere.

- **Motor Vehicle Use:** Transportation associated with the proposed project would result in GHG emissions from the combustion of fossil fuels in automobile and truck engines.

The project construction emissions, calculated with CalEEMod using the same methodology as described above for the criteria pollutant emissions, are shown in Table P (details are provided in the CalEEMod output in Appendix A).

GHG emissions from vehicular traffic, energy consumption, water conveyance and treatment, and waste generation were also calculated using CalEEMod using the same methodology as described above for the criteria pollutant emissions. Based on SCAQMD guidance, construction emissions were amortized over 30 years (a typical project lifetime) and added to the total project operational emissions as shown in Table Q. The existing light industrial land use was modeled using the trip rate from the *Traffic Impact Analysis Report* (LSA 2020) of 428 peak daily trips and CalEEMod defaults for other parameters. The "historical" energy option was enabled to represent energy use from buildings constructed under previous building codes. The resulting emissions represent the existing level of GHG emissions in order to determine the net change in emissions associated with the project. The GHG emission estimates presented in Table Q show the emissions associated with the level of development envisioned by the proposed project at opening.

Table P: Short-Term Construction Greenhouse Gas Emissions

Construction Phase	Total Emissions per Phase (MT/yr)			Total Emissions per Phase (MT CO_2e/yr)
	CO_2	CH_4	N_2O	
2022				
Demolition	299	<1	0	300
Site Preparation	58	<1	0	58
Grading	1,053	<1	0	1,057
Building Construction	371	<1	0	372
2023				
Building Construction	1,510	<1	0	1,513
2024				
Building Construction	1,485	<1	0	1,488
2025				
Building Construction	1,444	<1	0	1,447
2026				
Building Construction	785	<1	0	787
Architectural Coatings	49	<1	0	49
Paving	70	<1	0	70
2027				
Architectural Coatings	15	<1	0	15
Total Emissions For Entire Construction Process				**7,157 MT CO_2e**
Total Construction Emissions Amortized over 30 years				**239 MT CO_2e**

Source: Compiled by LSA (January 2020).
CH_4 = methane
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
MT = metric tons
MT/yr = metric tons per year
N_2O = nitrous oxide

Table Q: Long-Term Operational Greenhouse Gas Emissions

Source	Pollutant Emissions (MT/yr)					
	Bio-CO_2	NBio-CO_2	Total CO_2	CH_4	N_2O	CO_2e
Existing Operational Emissions						
Area	0	<1	<1	<1	0	<1
Energy	0	1,519	1,519	<1	<1	1,526
Mobile	0	606	606	<1	0	607
Warehouse Equipment	0	70	70	<1	0	70
Waste	87	0	87	5	0	215
Water	25	331	357	3	<1	441
Total Existing Emissions	**112**	**2,527**	**2,639**	**8**	**0**	**2,860**
Proposed Project						
Construction Emissions Amortized over 30 Years	0	238	238	<1	0	239
Proposed Operational Emissions						
Area	0	18	18	<1	0	18
Energy	0	3,366	3,366	<1	<1	3,380
Mobile	0	7,425	7,425	<1	0	7,432
Waste	111	0	111	7	0	274
Water	19	400	419	2	<1	482
Total Proposed Emissions	**130**	**9,196**	**9,325**	**9**	**0**	**11,825**
Net Increase in GHG Emissions						**8,965**
SCAQMD Threshold						**3,000**
Emissions Exceed Threshold?						**Yes**

Source: Compiled by LSA (January 2020).
Bio-CO_2 = biologically generated CO_2
CH_4 = methane
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
GHG = greenhouse gas
MT/yr = metric tons per year
N_2O = nitrous oxide
NBio-CO_2 = non-biologically generated CO_2
SCAQMD = South Coast Air Quality Management District

The project would incorporate energy-saving and sustainable design features and operational programs, including those required by the California Green Building Standards Code (CALGreen; California Code of Regulations, Title 24, Part 11). The proposed project would also incorporate the following design features and attributes that would provide energy efficiency, sustainability, and reduce vehicle miles traveled consistent with Statewide regulations including Senate Bill (SB) 375 and SB 743.

- An Active Transportation Hub will be placed immediately adjacent to the park. The Active Transportation Hub will include bicycle racks and lockers, bicycle storage, repair facilities, and community-wide bike-share programs and events.

- Installation of electric vehicle charging stations at nonresidential and residential buildings. Inclusion of preferential parking for low-emitting, fuel-efficient, and carpool/car share/van vehicles in all parking areas.

- All major appliances (i.e., dishwashers, refrigerators, clothes washers, and dryers) to be provided/installed would be Energy Star-certified appliances or appliances of equivalent energy efficiency.

- To reduce water demands and associated energy use, the project uses would implement a water conservation strategy and demonstrate a minimum 20 percent reduction in indoor water usage compared to baseline water demand (total expected water demand without implementation of the water conservation strategy). Project uses would also be required to implement:
    - A landscaping palette emphasizing drought-tolerant plants consistent with provisions of the State Model Water Efficient Landscape Ordinance and/or City requirements.
    - Water-efficient irrigation techniques consistent with City requirements.
    - Environmental Protection Agency (EPA) Certified WaterSense or equivalent faucets, toilets, and other plumbing fixtures.

As shown in Table Q, with the effect of these project features included, the proposed project would generate a net increase of 8,965 MT CO_2e per year. This would exceed the SCAQMD's Tier 3 threshold of 3,000 MT CO_2e per year; therefore, project-related GHG impacts would be significant. To further reduce emissions, the following mitigation measures would be required:

Mitigation Measure GHG-1 The applicant/developer shall design the proposed parking areas to provide preferential parking for low-emitting, fuel-efficient, and carpool/van vehicles. At a minimum, the number of preferential parking spaces shall be equal to the Tier 2 Nonresidential Voluntary Measures of California's Green Building Standards Code Section A5.106.5.1.2.

Mitigation Measure GHG-2 The applicant/developer shall design the proposed parking areas to provide electric vehicle (EV) charging stations. At a minimum, the number of EV charging stations shall be equal to the Tier 2 Nonresidential Voluntary Measures of California's Green Building Standards Code Section A5.106.5.3.2

With implementation of Mitigation Measures GHG-1 and GHG-2 and the mobile source reduction features included as part of the project as outlined above, the project would implement all applicable and feasible GHG reduction measures as project design features. The resulting emissions are shown in Table R. As shown in Table R, below, with implementation of Mitigation Measures GHG-1 and GHG-2, emissions would remain above the Tier 3 threshold of 3,000 MT CO_2e per year. Therefore, GHG impacts when compared to the Tier 3 SCAQMD standard would be considered significant and unavoidable.

The determination of significance is based on the Tier 3 threshold; however, for informational purposes, an analysis of the applicable Tier 4 GHG efficiency target has been conducted. The applicable Tier 4 GHG efficiency target is 4.8 MT CO_2e per Service Population (SP). SP is defined as the combination of all residents and employees of the project. Based on a rate of 2.73 residents per dwelling unit, the project would support up to 2,886 residents (US Census 2018) and would include approximately 131 employees (SCAG 2001) for a total SP of 3,017, as shown in Table S.

Table R: Long-Term Operational Greenhouse Gas Emissions With Mitigation

Source	Pollutant Emissions (MT/yr)					
	Bio-CO_2	NBio-CO_2	Total CO_2	CH_4	N_2O	CO_2e
Total Existing Emissions	**112**	**2,527**	**2,639**	**8**	**0**	**2,860**
Proposed Project						
Construction Emissions Amortized over 30 Years	0	238	238	<1	0	239
Proposed Operational Emissions with Mitigation						
Area	0	18	18	<1	0	18
Energy	0	3,366	3,366	<1	<1	3,380
Mobile	0	5,174	5,174	<1	0	5,179
Waste	111	0	111	7	0	274
Water	19	400	418	2	<1	482
Total Proposed Emissions	**130**	**9,196**	**9,325**	**9**	**0**	**9,572**
					Net Increase in GHG Emissions	**6,712**
					SCAQMD Threshold	**3,000**
					Emissions Exceed Threshold?	**Yes**

Source: Compiled by LSA (January 2020).
Bio-CO_2 = biologically generated CO_2
CH_4 = methane
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
GHG = greenhouse gas
MT/yr = metric tons per year
N_2O = nitrous oxide
NBio-CO_2 = non-biologically generated CO_2
SCAQMD = South Coast Air Quality Management District

Table S: Service Population Determination

Residential Land Use	Size	Unit	Residents per Dwelling	Total Residents
Apartment	1,057	du	2.73	2,886
Non-Residential Land Use			**Square Feet per Employee**	**Total Employees**
Creative Office (Low-Rise Office)	25	TSF	287	88
Specialty Retail (Other Retail)	6	TSF	325	9
Community Center (Flex Space)	1.5	TSF	466	7
Leasing Office	NA	NA	NA	27
			Total Employees	131
			Service Population	3,017

Source: SCAG. 2001. *Employment Density Study*, Natelson, October 2001. Website: www.mwcog.org/file.aspx?A=QTTlTR24POOOUIw5mPNzK8F4d8djdJe4LF9Exj6lXOU%3D (accessed January 2020).
du = dwelling unit
NA = Not Applicable
SCAG = Southern California Association of Governments
TSF = thousand square feet

Therefore, with Mitigation Measures GHG-1 and GHG-2, the project would result in an efficiency level of 2.22 MT CO_2e per SP (6,712 MT CO_2e divided by the 3,017 SP). Thus, the net increase of GHG emissions from the proposed project per SP would be less than the Tier 4 efficiency target of 4.8 MT CO_2e per SP.

GHG REDUCTION PLAN CONSISTENCY

As described below, the proposed project's design features that are also GHG reduction measures result in project consistency with the California Climate Change Scoping Plan, the City of Costa Mesa's General Plan, and the Southern California Association of Government's Regional Transportation Plan/Sustainable Communities Strategy. Therefore, the proposed project would not conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the GHG emissions.

Scoping Plan Consistency

The CARB's Scoping Plan (CARB 2017) outlines the main State strategies for meeting the emission reduction targets and to reduce GHGs that contribute to global climate change. Pursuant to AB 32, the Scoping Plan must "*identify and make recommendations on direct emission reduction measures, alternative compliance mechanisms, market-based compliance mechanisms, and potential monetary and nonmonetary incentives*" in order to achieve the 2020 goal, and achieve "*the maximum technologically feasible and cost-effective greenhouse gas emission reductions*" by 2020 and maintain and continue reductions beyond 2020.

The companion bill to SB 32, AB 197, provides additional direction to CARB on the following areas related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197, meant to provide easier public access to air emissions data that are collected by CARB, was posted in December 2016. The measures applicable to the proposed project include energy efficiency measures, water conservation and efficiency measures, and transportation and motor vehicle measures, as discussed below.

Energy efficient measures are intended to maximize energy efficiency building and appliance standards, pursue additional efficiency efforts including new technologies and new policy and implementation mechanisms, and pursue comparable investment in energy efficiency from all retail providers of electricity in California. In addition, these measures are designed to expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings. The proposed project would be constructed to the optional California Green Building Standards Code (CALGreen Code) Tier 1 and 2 measures. Therefore, the proposed project would not conflict with energy efficient measures.

Water conservation and efficiency measures are intended to continue efficiency programs and use cleaner energy sources to move and treat water. Increasing the efficiency of water transport and reducing water use would reduce GHG emissions. The proposed project would comply with the CALGreen Code Tier 1 and 2 measures and would include low-flow plumbing fixtures, drought-tolerant landscaping, and other features that would reduce water demand. Therefore, the proposed project would not conflict with any of the water conservation and efficiency measures.

The goal of transportation and motor vehicle measures is to develop regional GHG emissions reduction targets for passenger vehicles. Specific regional emission targets for transportation emissions would not directly apply to the proposed project. The project would promote initiatives to reduce vehicle trips and vehicle miles traveled and would increase the use of alternate means of

transportation. Therefore, the proposed project would not conflict with the identified transportation and motor vehicle measures.

A summary of the proposed project's consistency with the 2035 Scoping Plan's mitigation measures identified in Appendix B of the 2017 Scoping Plan is shown in Table T below.

Table T: Project Consistency with Applicable 2017 Scoping Plan Appendix B Measures

2017 Scoping Plan Appendix B Measures	Project Consistency
Dedicate on-site parking for shared vehicles.	***Consistent***. The proposed project would include preferential parking for low-emitting, fuel-efficient, and carpool/car share/van vehicles in all parking areas and electric vehicle charging stations at nonresidential and residential buildings.
Require cool roofs and "cool parking" that promotes cool surface treatment for new parking facilities as well as existing surface lots undergoing resurfacing.	***Consistent***. The proposed project would incorporate cool roof materials and meet the CALGreen Code Tier 1 and 2 measures for roof slope.
Require solar-ready roofs.	***Consistent***. The proposed project would include provisions for PV solar panel on roofs, as specified in Title 24 Part 6 and the CALGreen Code Tier 1 and 2 measures.
Require low-water landscaping in new developments (see CALGreen Divisions 4.3 and 5.3 and the Model Water Efficient Landscape Ordinance [MWELO], which is referenced in CALGreen). Require water efficient landscape maintenance to conserve water and reduce landscape waste.	***Consistent***. The proposed project would include new low-water landscaping and trees throughout the project site. Additionally, weather-based smart irrigation controllers would be used.
Encourage new construction, including municipal building construction, to achieve third-party green building certifications, such as the GreenPoint Rated program, LEED rating system, or Living Building Challenge.	***Consistent***. The proposed project would be constructed to Title 24 Part 6 and CALGreen Code Tier 1 and 2 measures.
Expand urban forestry and green infrastructure in new land development.	***Consistent***. The proposed project would include new low-water landscaping and trees throughout the project site. Additionally, weather-based smart irrigation controllers would be used.
Provide electric outlets to promote the use of electric landscape maintenance equipment to the extent feasible on parks and public/quasi-public lands.	***Consistent***. The proposed project would provide outdoor electric outlets to promote the use of electric landscape equipment.
Require the landscaping design for parking lots to utilize tree cover and compost/mulch.	***Consistent***. The proposed project would include new low-water landscaping and trees throughout the project site. Additionally, weather-based smart irrigation controllers would be used.

Source: LSA (September 2019).
CALGreen Code = California Green Building Standards Code

The proposed project would not conflict with applicable Statewide action measures. Therefore, the proposed project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

Air Quality Management Plan Consistency

A consistency determination plays an essential role in local agency project review by linking local planning and unique individual projects to the air quality plans. A consistency determination fulfills the CEQA goal of fully informing local agency decision-makers of the environmental costs of the project under consideration at a stage early enough to ensure that air quality concerns are addressed. Only new or amended General Plan elements, Specific Plans, and significantly unique projects need to undergo a consistency review because the air quality plan strategy is based on projections from local General Plans.

The AQMP is based on regional growth projections developed by SCAG. The proposed project is a mixed-use development that would not be defined as a regionally significant project under CEQA; therefore, it does not meet SCAG's Intergovernmental Review criteria.

Consistency with the 2016 AQMP would be achieved if the project is consistent with the goals, objectives, and assumptions in this plan to achieve the federal and State air quality standards. Per the SCAQMD *CEQA Air Quality Handbook* (1993), there are two main indicators of a project's consistency with the AQMP: (1) whether the project would increase the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the 2016 AQMP; and (2) whether the project would exceed the 2016 AQMP's assumptions for 2040 or yearly increments based on the year of project buildout and phasing.

With respect to determining the proposed project consistency with AQMP growth assumptions, the projections in the AQMP for achieving air quality goals are based on assumptions in SCAG's 2016 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) regarding population, housing, and growth trends. According to the 2016 RTP/SCS, the forecasted population and employment for Costa Mesa in 2012 was 111,200 residents and 84,400 employees and in 2040 is anticipated to have a population and employment of 116,400 residents and 93,200 employees (SCAG 2019). Therefore, the forecasted population for Costa Mesa will grow by approximately 5,200 residents and 8,800 employees between 2012 and 2040. The US Census reports 2.74 residents per dwelling unit in Costa Mesa; therefore, development of the project site with 1,057 new dwelling units could house 2,886 residents. Thus, the residents of the proposed project would account for approximately 56 percent of the population growth forecasted by SCAG in Costa Mesa between 2012 and 2040.

As described in the traffic analysis, the community location would encourage alternative mode use as it will be designed around the existing Santa Ana River Trail. The community will include vanpool/carpool parking, electric vehicle charging stations, rideshare amenities, and bicycle share opportunities. The community implements many of the characteristics that are identified as GHG reduction measures in the Scoping Plan and other regulatory guidance documents.

The project would also be compliant with the latest Title 24 – Green Building Standards which require solar ready rooftops, increased insulation, low flow fixtures, and energy efficient appliances. In general, the project would promote environmentally sustainable development principles by providing a mix of land uses close to employment centers. As previously described, the community

would provide a mix of uses that are in close proximity to a network of alternate mode amenities, including the existing Santa Ana River Trail. These attributes of the project are consistent with the goals identified in the AQMP.

The proposed project is within an activity center with employment and a commercial center with a regional audience. This makes the proposed project a potential node of trip attractions with opportunities for external trips to be satisfied before community vehicles reach the wider roadway network. Thus, the proposed project has the potential to reduce automobile trips compared to an isolated development. As shown in Table N, operation of the project would not result in an exceedance of the SCAQMD's thresholds for criteria pollutants; therefore, the project is not expected to result in a violation of air quality standards. Due to these factors, it can be concluded that the proposed project would be consistent with the projections in the AQMP.

Costa Mesa General Plan Consistency

The City's General Plan Land Use Element serves as the long-range planning guide for development in Costa Mesa by indicating the location and extent of development to be allowed. A summary of the proposed project's consistency with the applicable air quality related goals, objectives, and policies of the City of Costa Mesa General Plan 2015–2035 is shown in Table U below.

Table U: Project Consistency with the City of Costa Mesa's General Plan

City of Costa Mesa General Plan 2015–2035	Project Consistency
Land Use Element	
Goal LU-1: A Balanced Community with a Mix of Land Uses to Meet Resident and Business Needs	
Objective LU-1A: Establish and maintain a balance of land uses throughout the community to preserve the residential character of the City at a level no greater than can be supported by the infrastructure. **Policy LU-1.3:** Strongly encourage the development of residential uses and owner-occupied housing (single-family detached residences, condominiums, townhouses) where feasible to improve the balance between rental and ownership housing opportunities.	***Consistent***. The proposed project would be designed to improve the balance between rental and ownership housing opportunities. The proposed project would include a balance of residential, retail, and park uses and include an active transportation hub adjacent to the park that would include bicycle racks and lockers, bicycle storage, repair facilities, and community-wide bike-share programs and events.
Goal LU-4: New Development that Is Sensitive to Costa Mesa's Environmental Resources	
Objective LU-4A: Encourage new development and redevelopment that protects and improves the quality of Costa Mesa's natural environment and resources. **Policy LU-4.6:** Incorporate the principles of sustainability into land use planning, infrastructure, and development processes to reduce GHG emissions consistent with State goals.	***Consistent***. The proposed project would be constructed to Title 24 Part 6 and CALGreen Code Tier 1 and 2 measures. Additionally, all major appliances (i.e., dishwashers, refrigerators, clothes washers, and dryers) to be provided/installed would be Energy Star-certified appliances or appliances of equivalent energy efficiency.
Conservation Element	
Policy CON-4.A.2: Encourage businesses, industries, and residents to reduce the impact of direct, indirect, and cumulative impacts of stationary and non-stationary pollution sources.	***Consistent***. The proposed project would be constructed to Title 24 Part 6 and CALGreen Code Tier 1 and 2 measures, thus minimizing the impacts from project pollution sources.

Table U: Project Consistency with the City of Costa Mesa's General Plan

City of Costa Mesa General Plan 2015–2035	Project Consistency
Policy CON-4.A.3: Require that sensitive uses such as schools, childcare centers, parks and playgrounds, housing, and community gathering places are protected from adverse impacts of emissions.	***Consistent***. The proposed project would be designed to protect the future residents and workers from adverse impacts of emissions from vehicles traveling on Interstate 405 and surrounding roadways by locating residential buildings away from these vehicles and placing the large parking garage in a position to block the emissions.
Policy CON-4.A.5: Encourage compact development, infill development, and a mix of uses that are in proximity to transit, pedestrian, and bicycling infrastructures.	***Consistent***. The proposed project is an infill development that would include an active transportation hub adjacent to the park that would include bicycle racks and lockers, bicycle storage, repair facilities, and community-wide bike-share programs and events.
Policy CON-4.A.6: Enhance bicycling and walking infrastructure, and support public bus service, pursuant to the Circulation Element's goals, objectives, and policies.	***Consistent***. The proposed project would enhance bicycling and walking infrastructure by including an active transportation hub adjacent to the park that would include bicycle racks and lockers, bicycle storage, repair facilities, and community-wide bike-share programs and events.

Source: LSA (September 2019).
CALGreen Code = California Green Building Standards Code

Regional Transportation Plan/Sustainable Communities Strategy

Table V provides an assessment of the proposed project's relationship to pertinent 2016–2040 SCAG RTP/SCS goals. The RTP/SCS goals are directed toward transit, transportation and mobility, and protection of the environment and health of residents. The consistency analysis below focuses on the broad, policy-oriented goals of the 2016–2040 RTP/SCS to determine consistency between the two plans.

Table V: Consistency with SCAG's 2016–2040 RTP/SCS Goals

RTP/SCS Goal	Project Compliance with Goal
RTP/SCS G1: Align the plan investments and policies with improving regional economic development and competitiveness.	***Not Applicable:*** This is not a project-specific goal and is therefore not applicable.
RTP/SCS G2: Maximize mobility and accessibility for all people and goods in the region. **RTP/SCS G3:** Ensure travel safety and reliability for all people and goods in the region. **RTP/SCS G4:** Preserve and ensure a sustainable regional transportation system. **RTP/SCS G5:** Maximize the productivity of our transportation system**.**	***Consistent:*** Project implementation would ensure that mobility, accessibility, travel safety, and reliability for people and goods would be maximized. The proposed vehicular and pedestrian improvements would be implemented and maintained to meet the needs of the public, future, employees, and patrons. Improvements are expected to increase pedestrian connectivity and visual experience; increase cyclist safety; and enhance site access. Improvements to Sunflower Avenue along the project frontage would reduce vehicle lanes from four lanes to two lanes and provide dedicated bicycle lanes protected by landscaped medians. Additionally, the project would improve

Table V: Consistency with SCAG's 2016–2040 RTP/SCS Goals

RTP/SCS Goal	Project Compliance with Goal
	the bicycle trail connection from the project site east to the Santa Ana River Trail. All modes of public and commercial transportation throughout the project site would be required to follow safety standards set by State, regional, and local regulatory documents.
RTP/SCS G6: Protect the environment and health of our residents by improving air quality and encouraging active transportation (non-motorized transportation, such as bicycling and walking).	***Consistent:*** The CEQA process ensures that non-exempt projects at all levels of government in California consider all potential environmental impacts. The various technical environmental documents appropriately address the potential environmental impacts related to development of the proposed project. For example, this report addresses air quality and global climate change impacts that would occur as a result of implementation of the project, and provides mitigation measures and regulatory requirements to reduce any impacts, as applicable and feasible. The reduction of energy use, improvement of air quality, and promotion of more environmentally sustainable development would be encouraged through the enhancement of pedestrian and bicycle connections, green design techniques for buildings, and other energy-reducing techniques. For example, the proposed project would be required to comply with the most recent Building and Energy Efficiency Standards and the CALGreen Code. Compliance with these provisions would be ensured through the City's processes for reviewing development and checking building plans. Advancement to the pedestrian and bicycling connection to the Santa Ana River Trail will be created via the Class-I bike trail located to the west of the project site. Bikeway and sidewalk improvement would be made along Sunflower and Hyland Avenues. Bicycle facilities such as bike storage, lockers, repair facilities, and bike-related community events would be hosted at the project. Patrons would also be able to safely and conveniently walk from the parking areas to the common area and buildings via the decorative aggregate paving of the parking areas. Parking and access pathways throughout the site would comply with the Americans With Disabilities Act (ADA). Project implementation would also maximize the protection of the environment and potential improvement of air quality by locating residences near retail amenities and an employment center.
RTP/SCS G7: Actively encourage and create incentives for energy efficiency, where possible.	***Consistent:*** Energy-saving and sustainable design features and operational programs would be incorporated into the proposed project, including those required by the CALGreen Code (CCR, Title 24, Part 11). The project would also incorporate design features and attributes by promoting energy efficiency and sustainability. Redevelopment and revitalization of the project site promotes efficient use of scarce real property. Further, redevelopment and reuse of the site supports sustainable and efficient use of

Table V: Consistency with SCAG's 2016–2040 RTP/SCS Goals

RTP/SCS Goal	Project Compliance with Goal
	resources by taking advantage of currently available utilities and public services. To reduce water demands and associated energy use, the project uses would be required to implement a water conservation strategy and demonstrate a minimum 20 percent reduction in indoor water usage when compared to baseline water demand (total expected water demand without implementation of the water conservation strategy). Project uses would also be required to implement: ● A landscaping palette emphasizing drought-tolerant plants consistent with provisions of the State Model Water Efficient Landscape Ordinance and/or City requirements. ● Water-efficient irrigation techniques consistent with City requirements. The project would implement U.S. Environmental Protection Agency (EPA) Certified WaterSense or equivalent faucets, toilets, and other plumbing fixtures.
RTP/SCS G8: Encourage land use and growth patterns that facilitate transit and active transportation.	***Consistent:*** See responses to RTP/SCS Goals G2 through G6.
RTP/SCS G9: Maximize the security of the regional transportation system through improved system monitoring, rapid recovery planning, and coordination with other security agencies.	***Not Applicable:*** This is not a project-specific goal and is therefore not applicable.

Source: LSA (September 2019).
CALGreen Code = California Green Building Standards Code
CCR = California Code of Regulations
CEQA = California Environmental Quality Act
RTP/SCS = Regional Transportation Plan/Sustainable Communities Strategy
SCAG = Southern California Association of Governments

As demonstrated above, the proposed project is consistent with the goals identified in SCAG's 2016–2040 RTP/SCS.

Conclusion

For the reasons outlined above, implementation of the proposed project would not conflict with a land use plan, policy, or regulation adopted for the purpose of reducing GHG emissions.

STANDARD CONDITIONS

Construction

The project is required to comply with regional rules that assist in reducing short-term air pollutant emissions. SCAQMD Rule 403 requires that fugitive dust be controlled with best-available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source (SCAQMD 2005). In addition, SCAQMD Rule 403 requires

implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off site. Applicable dust suppression techniques from Rule 403 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus, the PM_{10} component). Compliance with these rules would reduce impacts on nearby sensitive receptors (SCAQMD Rule 403). As shown in Table J, implementation of Rule 403 measures results in dust emissions below SCAQMD thresholds.

The applicable Rule 403 measures are as follows:

- Apply nontoxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).
- Water active sites at least twice daily (locations where grading is to occur shall be thoroughly watered prior to earthmoving).
- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 2 feet (0.6 meter) of freeboard (vertical space between the top of the load and the top of the trailer) in accordance with the requirements of California Vehicle Code Section 23114.
- Pave construction access roads at least 100 feet (30.5 meters) onto the site from the main road.
- Reduce traffic speeds on all unpaved roads to 15 mph or less.

The applicable California Department of Resources Recycling and Recovery (CalRecycle) Sustainable (Green) Building Program Measures are:

- Recycle/reuse at least 50 percent of the construction material (including, but not limited to, soil, mulch, vegetation, concrete, lumber, metal, and cardboard) (CalRecycle n.d.).
- Use "green building materials" such as those materials that are rapidly renewable or resource-efficient, and recycled and manufactured in an environmentally friendly way, for at least 10 percent of the project, as specified on the CalRecycle website.

Operations

The proposed project is required to comply with Title 24 of the California Code of Regulations established by the CEC regarding energy conservation and green building standards.

MIGITATION MEASURES

Construction

As shown in Table J, the project would exceed the daily emissions thresholds for VOC and NOx.

Implementation of Mitigation Measure AIR-1 would require project construction equipment to meet enhanced emission standards as follows:

Mitigation Measure AIR-1 The project contractor(s) shall use construction equipment that meets EPA Tier 3 level of emission controls fitted with Level 2 Diesel

Particulate Filters (DPF) for all construction equipment 50 horsepower or more.

Implementation of Mitigation Measure AIR-2 would require the use of architectural coating as follows:

Mitigation Measure AIR-2 The project contractor shall only use interior paints with low volatile organic compound (VOC) content with a maximum concentration of 30 grams per liter (g/L) for residential building architectural coating to reduce VOC emissions. All building and site plans shall note use of paints with a low VOC content with a maximum concentration of 30 g/L verified by the City of Costa Mesa prior to issuance of any construction permits and during interior coating activities.

As shown in Table K, with implementation of Mitigation Measure AIR-1, emissions of NOx would be reduced to a less-than–significant level. Mitigation Measure AIR-2 would lead to a reduction of only a small fraction in VOC emissions and would not reduce emissions to under the 75 lbs/day threshold. There is no feasible mitigation for the application of architectural coatings that would reduce the 105 lbs/day to below 75 lbs/day; therefore, VOC emissions during construction would remain significant and unavoidable.

Operation

Mitigation Measure GHG-1 The applicant/developer shall design the proposed parking areas to provide preferential parking for low-emitting, fuel-efficient, and carpool/van vehicles. At a minimum, the number of preferential parking spaces shall be equal to the Tier 2 Nonresidential Voluntary Measures of California's Green Building Standards Code Section A5.106.5.1.2.

Mitigation Measure GHG-2 The applicant/developer shall design the proposed parking areas to provide electric vehicle (EV) charging stations. At a minimum, the number of EV charging stations shall be equal to the Tier 2 Nonresidential Voluntary Measures of California's Green Building Standards Code Section A5.106.5.3.2.

CUMULATIVE IMPACTS

The project would contribute criteria pollutants to the area during temporary project construction. A number of individual projects in the area may be under construction simultaneously with the proposed project. Depending on construction schedules and actual implementation of projects in the area, generation of fugitive dust and pollutant emissions during construction could result in substantial short-term increases in air pollutants. However, each project would be required to comply with SCAQMD's standard construction measures. The proposed project's short-term construction emissions with mitigation would not exceed the significance thresholds except for VOC. Therefore, it would have a significant short-term construction cumulative impact.

Similarly, the project's long-term operational emissions would not exceed SCAQMD's criteria pollutant thresholds. Again, each project would be required to comply with SCAQMD's operational emissions thresholds, which are designed to accomplish regional emissions goals. Therefore, the proposed project would not result in a significant cumulative impact related to long-term air quality emissions.

The proposed project's GHG emissions would exceed the SCAQMD Tier 3 threshold of 3,000 MT CO_2e per year; therefore, project-related GHG impacts would be significant. As outlined above, the project would implement all applicable and feasible GHG reduction measures as project design features and would implement all feasible mitigation measures. However, GHG impacts when compared to the Tier 3 SCAQMD standard would be considered significant and unavoidable. The project would exceed the SCAQMD Tier 3 bright-line threshold and therefore, would have a significant project level and cumulative impact related to GHG emissions.

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APPENDIX A

CALEEMOD PRINTOUTS

Construction and Demolition Debris Weight to Volume Conversion

Note: These numbers are used throughout this training

	Volume	Weight (pounds)	Weight (tons)
Trash[2]			
Residential waste (uncompacted at curb)	1 cubic yard	150 – 300	.075 – .15
Commercial-industrial waste (uncompacted)	1 cubic yard	300 – 600	.15 – .30
Mixed Waste[1]	1 cubic yard	350	.175
Asphalt[3]	1 square yard 1 inch thick	110 - 115	0.055 – 0.057
Asphalt[3]	1 cubic yard	4,050 – 4,140	2.025 – 2.07
Cans & Bottles[2]			
Aluminum cans (whole)	1 cubic yard	50 – 75	.025 – .038
Glass bottles (whole bottles)	1 cubic yard	500 – 700	.25 – .35
Plastic bottles (soda bottles)	1 cubic yard	30 – 40	.015 – .02
Corrugated Cardboard[1]			
Uncompacted	1 cubic yard	50 – 150	.025 – .075
Compacted	1 cubic yard	300 – 500	.15 – .25
Concrete[4]	1 cubic yard	4,050	2
Rubble[1]	1 cubic yard	1,400	.7
Drywall[1]	1 cubic yard	500	.25
Scrap Metal[1] (loose light iron sheet metal)	1 cubic yard	1,000	.5
Wood – pallets[2]	1 cubic yard	286	.143
Wood – pallets[2] (Each)	1 Unit	30 – 50	.015 – .025
Scrap Wood[1]	1 cubic yard	300	.15

1 US Green Building Council. "LEED Reference Guide for Green Building Design and Construction 2009 Edition, Section 6- Calculations, Table 2- Solid Waste Conversion Factors. Page 360.

2 US Environmental Protection Agency. "Measuring Recycling. A Guide for State and Local Governments." September 1997 Appendix B. Standard Volume-to-Weight Conversion Factors pp. 59 – 62. W ww.epa.gov/epawaste/conserve/tools/recmeas/docs/guide_b.pdf

3 Asphalt Pavement Association of Michigan (4,050 lbs/yd^3) and LEED EB v. 2.0 Reference Guide (p. 256) Table 2 Volume to Weight Conversions (115 lbs per yd^2 or 4,140 lbs per yd^3).

4 Reade Advanced Materials, Providence RI 401.433.7000 www.reade.com/Particle_Briefings/spec_gra2.html

What WasteCap Resource Solutions uses:

Material	Volume	Weight (pounds)	Weight (tons)	Cubic Yards Per Ton
Trash	1 cubic yard	350	.175	5.71
Cans & Bottles	1 cubic yard	50	.025	40
Cardboard	1 cubic yard	100	.05	20
Asphalt	1 cubic yard	4,140	2.07	0.48
Rubble	1 cubic yard	1,400	.7	1.43
Drywall	1 cubic yard	500	.25	4
Scrap Metal	1 cubic yard	1,000	.5	2
Scrap Wood	1 cubic yard	300	.15	6.66

One Metro West Existing Condition - Orange County, Annual

One Metro West Existing Condition

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	345.41	1000sqft	7.93	345,410.00	0
Parking Lot	178.00	1000sqft	4.09	178,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**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 - Existing condition

Vehicle Trips - Trip rates from project traffic study based on driveway counts (peak hours and daily) collected on September 11, 2019.

Energy Use -

Operational Off-Road Equipment - Estimated the number of forklifts based on "typical" industrial use.

Table Name	Column Name	Default Value	New Value

tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	PhaseEndDate	3/14/2022	2/28/2022
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleTrips	ST_TR	1.32	1.24
tblVehicleTrips	SU_TR	0.68	1.24
tblVehicleTrips	WD_TR	6.97	1.24

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2022	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
Maximum	**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

	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	tons/yr										MT/yr					
2022	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

Maximum	**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**

	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**

Quarter	**Start Date**	**End Date**	**Maximum Unmitigated ROG + NOX (tons/quarter)**	**Maximum Mitigated ROG + NOX (tons/quarter)**
		Highest		

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	tons/yr										MT/yr					
Area	1.4228	6.0000e-005	6.6600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0130	0.0130	3.0000e-005	0.0000	0.0138
Energy	0.0412	0.3742	0.3143	2.2500e-003		0.0284	0.0284		0.0284	0.0284	0.0000	1,519.2958	1,519.2958	0.0537	0.0170	1,525.6945
Mobile	0.0954	0.3922	1.4359	6.5500e-003	0.7194	4.4800e-003	0.7239	0.1926	4.1500e-003	0.1968	0.0000	606.4334	606.4334	0.0227	0.0000	607.0010
Offroad	0.0452	0.4256	0.5896	7.9000e-004		0.0228	0.0228		0.0210	0.0210	0.0000	69.8315	69.8315	0.0226	0.0000	70.3961
Waste						0.0000	0.0000		0.0000	0.0000	86.9431	0.0000	86.9431	5.1382	0.0000	215.3978
Water						0.0000	0.0000		0.0000	0.0000	25.3410	331.3874	356.7284	2.6164	0.0643	441.2971
Total	**1.6046**	**1.1921**	**2.3464**	**9.5900e-003**	**0.7194**	**0.0557**	**0.7751**	**0.1926**	**0.0536**	**0.2462**	**112.2841**	**2,526.9610**	**2,639.2451**	**7.8537**	**0.0813**	**2,859.8003**

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	tons/yr										MT/yr					
Area	1.4228	6.0000e-005	6.6600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0130	0.0130	3.0000e-005	0.0000	0.0138
Energy	0.0412	0.3742	0.3143	2.2500e-003		0.0284	0.0284		0.0284	0.0284	0.0000	1,519.2958	1,519.2958	0.0537	0.0170	1,525.6945
Mobile	0.0954	0.3922	1.4359	6.5500e-003	0.7194	4.4800e-003	0.7239	0.1926	4.1500e-003	0.1968	0.0000	606.4334	606.4334	0.0227	0.0000	607.0010
Offroad	0.0452	0.4256	0.5896	7.9000e-004		0.0228	0.0228		0.0210	0.0210	0.0000	69.8315	69.8315	0.0226	0.0000	70.3961
Waste						0.0000	0.0000		0.0000	0.0000	86.9431	0.0000	86.9431	5.1382	0.0000	215.3978
Water						0.0000	0.0000		0.0000	0.0000	25.3410	331.3874	356.7284	2.6164	0.0643	441.2971
Total	**1.6046**	**1.1921**	**2.3464**	**9.5900e-003**	**0.7194**	**0.0557**	**0.7751**	**0.1926**	**0.0536**	**0.2462**	**112.2841**	**2,526.9610**	**2,639.2451**	**7.8537**	**0.0813**	**2,859.8003**

	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	Site Preparation	Site Preparation	3/1/2022	2/28/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.09

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	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
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 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	tons/yr										MT/yr					
Fugitive Dust	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	tons/yr										MT/yr					

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**

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	tons/yr										MT/yr					
Fugitive Dust	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	tons/yr										MT/yr					
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	tons/yr										MT/yr					
Mitigated	0.0954	0.3922	1.4359	6.5500e-003	0.7194	4.4800e-003	0.7239	0.1926	4.1500e-003	0.1968	0.0000	606.4334	606.4334	0.0227	0.0000	607.0010
Unmitigated	0.0954	0.3922	1.4359	6.5500e-003	0.7194	4.4800e-003	0.7239	0.1926	4.1500e-003	0.1968	0.0000	606.4334	606.4334	0.0227	0.0000	607.0010

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	428.31	428.31	428.31	1,896,668	1,896,668
Parking Lot	0.00	0.00	0.00		
Total	428.31	428.31	428.31	1,896,668	1,896,668

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	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Parking Lot	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818

5.0 Energy Detail

Historical Energy Use: Y

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,111.9399	1,111.9399	0.0459	9.5000e-003	1,115.9179
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,111.9399	1,111.9399	0.0459	9.5000e-003	1,115.9179
NaturalGas Mitigated	0.0412	0.3742	0.3143	2.2500e-003		0.0284	0.0284		0.0284	0.0284	0.0000	407.3559	407.3559	7.8100e-003	7.4700e-003	409.7766
NaturalGas Unmitigated	0.0412	0.3742	0.3143	2.2500e-003		0.0284	0.0284		0.0284	0.0284	0.0000	407.3559	407.3559	7.8100e-003	7.4700e-003	409.7766

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	tons/yr										MT/yr					
General Light Industry	7.63356e+006	0.0412	0.3742	0.3143	2.2500e-003		0.0284	0.0284		0.0284	0.0284	0.0000	407.3559	407.3559	7.8100e-003	7.4700e-003	409.7766

Parking Lot	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	0.0000
Total		**0.0412**	**0.3742**	**0.3143**	**2.2500e-003**		**0.0284**	**0.0284**		**0.0284**	**0.0284**	**0.0000**	**407.3559**	**407.3559**	**7.8100e-003**	**7.4700e-003**	**409.7766**

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	tons/yr										MT/yr					
General Light Industry	7.63356e+006	0.0412	0.3742	0.3143	2.2500e-003		0.0284	0.0284		0.0284	0.0284	0.0000	407.3559	407.3559	7.8100e-003	7.4700e-003	409.7766
Parking Lot	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	0.0000
Total		**0.0412**	**0.3742**	**0.3143**	**2.2500e-003**		**0.0284**	**0.0284**		**0.0284**	**0.0284**	**0.0000**	**407.3559**	**407.3559**	**7.8100e-003**	**7.4700e-003**	**409.7766**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	3.33321e+006	1,062.0310	0.0439	9.0700e-003	1,065.8305
Parking Lot	156640	49.9089	2.0600e-003	4.3000e-004	50.0874
Total		**1,111.9399**	**0.0459**	**9.5000e-003**	**1,115.9179**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	3.33321e+006	1,062.0310	0.0439	9.0700e-003	1,065.8305
Parking Lot	156640	49.9089	2.0600e-003	4.3000e-004	50.0874
Total		**1,111.9399**	**0.0459**	**9.5000e-003**	**1,115.9179**

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	tons/yr										MT/yr					
Mitigated	1.4228	6.0000e-005	6.6600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0130	0.0130	3.0000e-005	0.0000	0.0138
Unmitigated	1.4228	6.0000e-005	6.6600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0130	0.0130	3.0000e-005	0.0000	0.0138

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	tons/yr										MT/yr					
Architectural Coating	0.1626					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.1000e-004	6.0000e-005	6.6600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0130	0.0130	3.0000e-005	0.0000	0.0138
Total	**1.4228**	**6.0000e-005**	**6.6600e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0130**	**0.0130**	**3.0000e-005**	**0.0000**	**0.0138**

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	tons/yr										MT/yr					
Architectural Coating	0.1626					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.1000e-004	6.0000e-005	6.6600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0130	0.0130	3.0000e-005	0.0000	0.0138
Total	**1.4228**	**6.0000e-005**	**6.6600e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0130**	**0.0130**	**3.0000e-005**	**0.0000**	**0.0138**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	356.7284	2.6164	0.0643	441.2971
Unmitigated	356.7284	2.6164	0.0643	441.2971

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	79.8761 / 0	356.7284	2.6164	0.0643	441.2971
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**356.7284**	**2.6164**	**0.0643**	**441.2971**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	79.8761 / 0	356.7284	2.6164	0.0643	441.2971
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000

Total		**356.7284**	**2.6164**	**0.0643**	**441.2971**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	86.9431	5.1382	0.0000	215.3978
Unmitigated	86.9431	5.1382	0.0000	215.3978

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	428.31	86.9431	5.1382	0.0000	215.3978
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**86.9431**	**5.1382**	**0.0000**	**215.3978**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	428.31	86.9431	5.1382	0.0000	215.3978
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**86.9431**	**5.1382**	**0.0000**	**215.3978**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	4	8.00	260	89	0.20	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	0.0452	0.4256	0.5896	7.9000e-004		0.0228	0.0228		0.0210	0.0210	0.0000	69.8315	69.8315	0.0226	0.0000	70.3961
Total	**0.0452**	**0.4256**	**0.5896**	**7.9000e-004**		**0.0228**	**0.0228**		**0.0210**	**0.0210**	**0.0000**	**69.8315**	**69.8315**	**0.0226**	**0.0000**	**70.3961**

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

One Metro West Existing Condition

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	345.41	1000sqft	7.93	345,410.00	0
Parking Lot	178.00	1000sqft	4.09	178,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**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 - Existing condition

Vehicle Trips - Trip rates from project traffic study based on driveway counts (peak hours and daily) collected on September 11, 2019.

Energy Use -

Operational Off-Road Equipment - Estimated the number of forklifts based on "typical" industrial use.

Table Name	Column Name	Default Value	New Value

tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	PhaseEndDate	3/14/2022	2/28/2022
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleTrips	ST_TR	1.32	1.24
tblVehicleTrips	SU_TR	0.68	1.24
tblVehicleTrips	WD_TR	6.97	1.24

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					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	1.6139	0.0000	0.0000	1.4847	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**	**1.6139**	**0.0000**	**0.0000**	**1.4847**	**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					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	1.6139	0.0000	0.0000	1.4847	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**	**1.6139**	**0.0000**	**0.0000**	**1.4847**	**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	7.7979	4.8000e-004	0.0533	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1146	0.1146	3.0000e-004		0.1220
Energy	0.2255	2.0504	1.7223	0.0123		0.1558	0.1558		0.1558	0.1558		2,460.4548	2,460.4548	0.0472	0.0451	2,475.0761
Mobile	0.5481	2.0627	8.2089	0.0372	4.0235	0.0246	4.0481	1.0759	0.0228	1.0987		3,791.3994	3,791.3994	0.1384		3,794.8583
Offroad	0.3476	3.2742	4.5350	6.1100e-003		0.1753	0.1753		0.1613	0.1613		592.1233	592.1233	0.1915		596.9109
Total	**8.9190**	**7.3877**	**14.5195**	**0.0556**	**4.0235**	**0.3559**	**4.3794**	**1.0759**	**0.3401**	**1.4160**		**6,844.0920**	**6,844.0920**	**0.3773**	**0.0451**	**6,866.9673**

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	7.7979	4.8000e-004	0.0533	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1146	0.1146	3.0000e-004		0.1220

Energy	0.2255	2.0504	1.7223	0.0123		0.1558	0.1558		0.1558	0.1558		2,460.4548	2,460.4548	0.0472	0.0451	2,475.0761
Mobile	0.5481	2.0627	8.2089	0.0372	4.0235	0.0246	4.0481	1.0759	0.0228	1.0987		3,791.3994	3,791.3994	0.1384		3,794.8583
Offroad	0.3476	3.2742	4.5350	6.1100e-003		0.1753	0.1753		0.1613	0.1613		592.1233	592.1233	0.1915		596.9109
Total	**8.9190**	**7.3877**	**14.5195**	**0.0556**	**4.0235**	**0.3559**	**4.3794**	**1.0759**	**0.3401**	**1.4160**		**6,844.0920**	**6,844.0920**	**0.3773**	**0.0451**	**6,866.9673**

	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	Site Preparation	Site Preparation	3/1/2022	2/28/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.09

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	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
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 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					
Fugitive Dust	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**

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	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	0.5481	2.0627	8.2089	0.0372	4.0235	0.0246	4.0481	1.0759	0.0228	1.0987		3,791.3994	3,791.3994	0.1384		3,794.8583
Unmitigated	0.5481	2.0627	8.2089	0.0372	4.0235	0.0246	4.0481	1.0759	0.0228	1.0987		3,791.3994	3,791.3994	0.1384		3,794.8583

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	428.31	428.31	428.31	1,896,668	1,896,668
Parking Lot	0.00	0.00	0.00		
Total	428.31	428.31	428.31	1,896,668	1,896,668

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	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Parking Lot	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818

5.0 Energy Detail

Historical Energy Use: Y

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	0.2255	2.0504	1.7223	0.0123		0.1558	0.1558		0.1558	0.1558		2,460.4548	2,460.4548	0.0472	0.0451	2,475.0761
NaturalGas Unmitigated	0.2255	2.0504	1.7223	0.0123		0.1558	0.1558		0.1558	0.1558		2,460.4548	2,460.4548	0.0472	0.0451	2,475.0761

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	20913.9	0.2255	2.0504	1.7223	0.0123		0.1558	0.1558		0.1558	0.1558		2,460.4548	2,460.4548	0.0472	0.0451	2,475.0761
Parking Lot	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		**0.2255**	**2.0504**	**1.7223**	**0.0123**		**0.1558**	**0.1558**		**0.1558**	**0.1558**		**2,460.4548**	**2,460.4548**	**0.0472**	**0.0451**	**2,475.0761**

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	20.9139	0.2255	2.0504	1.7223	0.0123		0.1558	0.1558		0.1558	0.1558		2,460.4548	2,460.4548	0.0472	0.0451	2,475.0761
Parking Lot	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		**0.2255**	**2.0504**	**1.7223**	**0.0123**		**0.1558**	**0.1558**		**0.1558**	**0.1558**		**2,460.4548**	**2,460.4548**	**0.0472**	**0.0451**	**2,475.0761**

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	7.7979	4.8000e-004	0.0533	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1146	0.1146	3.0000e-004		0.1220
Unmitigated	7.7979	4.8000e-004	0.0533	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1146	0.1146	3.0000e-004		0.1220

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	0.8908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.9100e-003	4.8000e-004	0.0533	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1146	0.1146	3.0000e-004		0.1220
Total	**7.7979**	**4.8000e-004**	**0.0533**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1146**	**0.1146**	**3.0000e-004**		**0.1220**

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	0.8908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.9100e-003	4.8000e-004	0.0533	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1146	0.1146	3.0000e-004		0.1220
Total	**7.7979**	**4.8000e-004**	**0.0533**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1146**	**0.1146**	**3.0000e-004**		**0.1220**

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
Forklifts	4	8.00	260	89	0.20	Diesel

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	0.3476	3.2742	4.5350	6.1100e-003		0.1753	0.1753		0.1613	0.1613		592.1233	592.1233	0.1915		596.9109
Total	**0.3476**	**3.2742**	**4.5350**	**6.1100e-003**		**0.1753**	**0.1753**		**0.1613**	**0.1613**		**592.1233**	**592.1233**	**0.1915**		**596.9109**

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

One Metro West Existing Condition

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	345.41	1000sqft	7.93	345,410.00	0
Parking Lot	178.00	1000sqft	4.09	178,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**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 - Existing condition

Vehicle Trips - Trip rates from project traffic study based on driveway counts (peak hours and daily) collected on September 11, 2019.

Energy Use -

Operational Off-Road Equipment - Estimated the number of forklifts based on "typical" industrial use.

Table Name	Column Name	Default Value	New Value

tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	PhaseEndDate	3/14/2022	2/28/2022
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleTrips	ST_TR	1.32	1.24
tblVehicleTrips	SU_TR	0.68	1.24
tblVehicleTrips	WD_TR	6.97	1.24

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					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	1.6139	0.0000	0.0000	1.4847	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**	**1.6139**	**0.0000**	**0.0000**	**1.4847**	**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					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	1.6139	0.0000	0.0000	1.4847	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**	**1.6139**	**0.0000**	**0.0000**	**1.4847**	**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	7.7979	4.8000e-004	0.0533	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1146	0.1146	3.0000e-004		0.1220
Energy	0.2255	2.0504	1.7223	0.0123		0.1558	0.1558		0.1558	0.1558		2,460.4548	2,460.4548	0.0472	0.0451	2,475.0761
Mobile	0.5378	2.1211	7.7649	0.0356	4.0235	0.0247	4.0482	1.0759	0.0229	1.0987		3,631.0761	3,631.0761	0.1377		3,634.5192
Offroad	0.3476	3.2742	4.5350	6.1100e-003		0.1753	0.1753		0.1613	0.1613		592.1233	592.1233	0.1915		596.9109
Total	**8.9088**	**7.4461**	**14.0755**	**0.0540**	**4.0235**	**0.3560**	**4.3795**	**1.0759**	**0.3402**	**1.4160**		**6,683.7688**	**6,683.7688**	**0.3767**	**0.0451**	**6,706.6282**

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	7.7979	4.8000e-004	0.0533	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1146	0.1146	3.0000e-004		0.1220

Energy	0.2255	2.0504	1.7223	0.0123		0.1558	0.1558		0.1558	0.1558		2,460.4548	2,460.4548	0.0472	0.0451	2,475.0761
Mobile	0.5378	2.1211	7.7649	0.0356	4.0235	0.0247	4.0482	1.0759	0.0229	1.0987		3,631.0761	3,631.0761	0.1377		3,634.5192
Offroad	0.3476	3.2742	4.5350	6.1100e-003		0.1753	0.1753		0.1613	0.1613		592.1233	592.1233	0.1915		596.9109
Total	**8.9088**	**7.4461**	**14.0755**	**0.0540**	**4.0235**	**0.3560**	**4.3795**	**1.0759**	**0.3402**	**1.4160**		**6,683.7688**	**6,683.7688**	**0.3767**	**0.0451**	**6,706.6282**

	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	Site Preparation	Site Preparation	3/1/2022	2/28/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.09

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	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
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 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					
Fugitive Dust	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**

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	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	0.5378	2.1211	7.7649	0.0356	4.0235	0.0247	4.0482	1.0759	0.0229	1.0987		3,631.0761	3,631.0761	0.1377		3,634.5192
Unmitigated	0.5378	2.1211	7.7649	0.0356	4.0235	0.0247	4.0482	1.0759	0.0229	1.0987		3,631.0761	3,631.0761	0.1377		3,634.5192

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	428.31	428.31	428.31	1,896,668	1,896,668
Parking Lot	0.00	0.00	0.00		
Total	428.31	428.31	428.31	1,896,668	1,896,668

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	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Parking Lot	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818

5.0 Energy Detail

Historical Energy Use: Y

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	0.2255	2.0504	1.7223	0.0123		0.1558	0.1558		0.1558	0.1558		2,460.4548	2,460.4548	0.0472	0.0451	2,475.0761
NaturalGas Unmitigated	0.2255	2.0504	1.7223	0.0123		0.1558	0.1558		0.1558	0.1558		2,460.4548	2,460.4548	0.0472	0.0451	2,475.0761

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	20913.9	0.2255	2.0504	1.7223	0.0123		0.1558	0.1558		0.1558	0.1558		2,460.4548	2,460.4548	0.0472	0.0451	2,475.0761
Parking Lot	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		**0.2255**	**2.0504**	**1.7223**	**0.0123**		**0.1558**	**0.1558**		**0.1558**	**0.1558**		**2,460.4548**	**2,460.4548**	**0.0472**	**0.0451**	**2,475.0761**

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	20.9139	0.2255	2.0504	1.7223	0.0123		0.1558	0.1558		0.1558	0.1558		2,460.4548	2,460.4548	0.0472	0.0451	2,475.0761
Parking Lot	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		**0.2255**	**2.0504**	**1.7223**	**0.0123**		**0.1558**	**0.1558**		**0.1558**	**0.1558**		**2,460.4548**	**2,460.4548**	**0.0472**	**0.0451**	**2,475.0761**

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	7.7979	4.8000e-004	0.0533	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1146	0.1146	3.0000e-004		0.1220
Unmitigated	7.7979	4.8000e-004	0.0533	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1146	0.1146	3.0000e-004		0.1220

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	0.8908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.9100e-003	4.8000e-004	0.0533	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1146	0.1146	3.0000e-004		0.1220
Total	**7.7979**	**4.8000e-004**	**0.0533**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1146**	**0.1146**	**3.0000e-004**		**0.1220**

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	0.8908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.9100e-003	4.8000e-004	0.0533	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1146	0.1146	3.0000e-004		0.1220
Total	**7.7979**	**4.8000e-004**	**0.0533**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1146**	**0.1146**	**3.0000e-004**		**0.1220**

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
Forklifts	4	8.00	260	89	0.20	Diesel

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	0.3476	3.2742	4.5350	6.1100e-003		0.1753	0.1753		0.1613	0.1613		592.1233	592.1233	0.1915		596.9109
Total	**0.3476**	**3.2742**	**4.5350**	**6.1100e-003**		**0.1753**	**0.1753**		**0.1613**	**0.1613**		**592.1233**	**592.1233**	**0.1915**		**596.9109**

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

One Metro West - Orange County, Annual

One Metro West

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.57	25,000.00	0
Library	1.50	1000sqft	0.03	1,500.00	0
Enclosed Parking with Elevator	1,196.00	Space	0.00	478,400.00	0
Unenclosed Parking with Elevator	779.00	Space	2.97	311,600.00	0
City Park	1.70	Acre	1.70	74,052.00	0
Condo/Townhouse High Rise	1,057.00	Dwelling Unit	9.82	1,057,000.00	2897
Supermarket	6.00	1000sqft	0.14	6,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total site is 15.23 net acres, there would be two levels of enclosed subterranean parking. Library represents the Community Center. The population amount was set to match the US Census data.

Construction Phase - Schedule based on start date of Jan. 2022, completion in Jan. 2027. The default CalEEMod schedule phase durations were proportioned to achieve the 5-year duration.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - This equipment would be shared with the Demolition-Parking Lot phase.

Off-road Equipment -

Off-road Equipment - Equipment per project plans.

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Corrected the Building Construction worker & vendor trips per day per CalEEMod documentation. All asphalt demolishion material will be recycled onsite.

Demolition - From project plans. 343,300 sf of building and 178,000sf of asphalt parking lot will be demolished. Calrecycle asphalt factor-0.61 tons/CY

Grading - For 15 acre site, assume "total acres graded" would be the total area disturbed up to twice in any one day.

Architectural Coating - Assume all architectural coatings compliant with SCAQMD Rule 1113.

Vehicle Trips - Weekday trip rates from project traffic study for the peak day, weekend rates proportioned from the CalEEMod defaults. The Community Center is represented by the Library land use.

Woodstoves - No residences have a woodstove or fireplace per project plans.

Area Coating - Assume all architectural coatings compliant with SCAQMD Rule 1113.

Sequestration - Estimated the number of trees from the site plan.

Construction Off-road Equipment Mitigation - Dust control measures as required by SCAQMD Rule 403. Assume all equipment would be at least EPA Tier 3 and have Level 3 DPF.

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation - Project plans specify a 20% indoor water use reduction, the outdoor reduction estimated based on planned features.

Waste Mitigation -

Operational Off-Road Equipment -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50

tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	300.00	990.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	30.00	99.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	10.00	33.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	898.45	0.00
tblFireplaces	NumberNoFireplace	105.70	1,057.00
tblFireplaces	NumberWood	52.85	0.00
tblGrading	AcresOfGrading	49.50	30.00
tblGrading	MaterialExported	0.00	194,000.00
tblGrading	MaterialImported	0.00	91,400.00

tblLandUse	LotAcreage	10.76	0.00
tblLandUse	LotAcreage	7.01	2.97
tblLandUse	LotAcreage	16.52	9.82
tblLandUse	Population	3,023.00	2,897.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSequestration	NumberOfNewTrees	0.00	50.00
tblTripsAndVMT	VendorTripNumber	260.00	118.00
tblTripsAndVMT	WorkerTripNumber	1,134.00	773.00
tblVehicleTrips	ST_TR	22.75	8.45
tblVehicleTrips	ST_TR	4.31	6.24
tblVehicleTrips	ST_TR	2.46	1.96
tblVehicleTrips	ST_TR	46.55	21.47
tblVehicleTrips	ST_TR	177.59	166.93
tblVehicleTrips	SU_TR	16.74	6.22
tblVehicleTrips	SU_TR	3.43	4.96
tblVehicleTrips	SU_TR	1.05	0.83
tblVehicleTrips	SU_TR	25.49	11.76
tblVehicleTrips	SU_TR	166.44	156.45
tblVehicleTrips	WD_TR	1.89	0.70
tblVehicleTrips	WD_TR	4.18	6.05
tblVehicleTrips	WD_TR	11.03	8.77
tblVehicleTrips	WD_TR	56.24	25.94
tblVehicleTrips	WD_TR	102.24	96.10
tblWoodstoves	NumberCatalytic	52.85	0.00
tblWoodstoves	NumberNoncatalytic	52.85	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2022	0.5670	7.2815	4.7202	0.0186	1.3500	0.1916	1.5416	0.5042	0.1779	0.6822	0.0000	1,780.9631	1,780.9631	0.2569	0.0000	1,787.3862
2023	0.5647	3.1108	4.9849	0.0165	1.1997	0.0992	1.2990	0.3208	0.0933	0.4141	0.0000	1,510.2906	1,510.2906	0.1148	0.0000	1,513.1612
2024	0.5387	2.9799	4.8288	0.0162	1.2090	0.0885	1.2975	0.3233	0.0832	0.4064	0.0000	1,485.0650	1,485.0650	0.1133	0.0000	1,487.8986
2025	0.5086	2.8125	4.6385	0.0158	1.2044	0.0769	1.2813	0.3221	0.0722	0.3943	0.0000	1,444.0776	1,444.0776	0.1109	0.0000	1,446.8494
2026	2.9317	1.8692	3.1524	9.9200e-003	0.7368	0.0581	0.7949	0.1969	0.0544	0.2513	0.0000	904.2439	904.2439	0.0833	0.0000	906.3254
2027	0.8396	0.0118	0.0493	1.7000e-004	0.0199	5.2000e-004	0.0205	5.2900e-003	5.2000e-004	5.8100e-003	0.0000	15.2954	15.2954	3.2000e-004	0.0000	15.3034
Maximum	**2.9317**	**7.2815**	**4.9849**	**0.0186**	**1.3500**	**0.1916**	**1.5416**	**0.5042**	**0.1779**	**0.6822**	**0.0000**	**1,780.9631**	**1,780.9631**	**0.2569**	**0.0000**	**1,787.3862**

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	tons/yr										MT/yr					
2022	0.3251	6.2512	5.3018	0.0186	0.8506	0.0804	0.9310	0.2842	0.0799	0.3641	0.0000	1,780.9625	1,780.9625	0.2569	0.0000	1,787.3856
2023	0.4479	3.0901	5.1968	0.0165	1.1997	0.0670	1.2668	0.3208	0.0664	0.3872	0.0000	1,510.2903	1,510.2903	0.1148	0.0000	1,513.1608
2024	0.4342	3.0824	5.0524	0.0162	1.2090	0.0674	1.2763	0.3233	0.0668	0.3900	0.0000	1,485.0646	1,485.0646	0.1133	0.0000	1,487.8982

2025	0.4181	3.0417	4.8720	0.0158	1.2044	0.0670	1.2714	0.3221	0.0664	0.3885	0.0000	1,444.0772	1,444.0772	0.1109	0.0000	1,446.8490
2026	2.8670	2.0914	3.3724	9.9200e-003	0.7368	0.0487	0.7856	0.1969	0.0484	0.2453	0.0000	904.2436	904.2436	0.0833	0.0000	906.3251
2027	0.8388	0.0135	0.0494	1.7000e-004	0.0199	4.9000e-004	0.0204	5.2900e-003	4.8000e-004	5.7800e-003	0.0000	15.2954	15.2954	3.2000e-004	0.0000	15.3033
Maximum	**2.8670**	**6.2512**	**5.3018**	**0.0186**	**1.2090**	**0.0804**	**1.2763**	**0.3233**	**0.0799**	**0.3900**	**0.0000**	**1,780.9625**	**1,780.9625**	**0.2569**	**0.0000**	**1,787.3856**

	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	**10.41**	**2.74**	**-6.57**	**0.00**	**8.73**	**35.70**	**10.96**	**13.16**	**31.81**	**17.32**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-3-2022**	**4-2-2022**	2.0372	1.4509
2	**4-3-2022**	**7-2-2022**	1.9167	1.5386
3	**7-3-2022**	**10-2-2022**	2.6920	2.4750
4	**10-3-2022**	**1-2-2023**	1.1263	1.0432
5	**1-3-2023**	**4-2-2023**	0.9132	0.8792
6	**4-3-2023**	**7-2-2023**	0.9091	0.8748
7	**7-3-2023**	**10-2-2023**	0.9194	0.8847
8	**10-3-2023**	**1-2-2024**	0.9329	0.8988
9	**1-3-2024**	**4-2-2024**	0.8774	0.8769
10	**4-3-2024**	**7-2-2024**	0.8637	0.8632
11	**7-3-2024**	**10-2-2024**	0.8735	0.8730
12	**10-3-2024**	**1-2-2025**	0.8863	0.8866
13	**1-3-2025**	**4-2-2025**	0.8223	0.8565
14	**4-3-2025**	**7-2-2025**	0.8184	0.8529
15	**7-3-2025**	**10-2-2025**	0.8277	0.8626
16	**10-3-2025**	**1-2-2026**	0.8407	0.8756
17	**1-3-2026**	**4-2-2026**	0.8127	0.8468
18	**4-3-2026**	**7-2-2026**	0.8091	0.8436

19	**7-3-2026**	**10-2-2026**	0.4236	0.4919
20	**10-3-2026**	**1-2-2027**	2.8082	2.8277
21	**1-3-2027**	**4-2-2027**	0.7607	0.7614
		Highest	2.8082	2.8277

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	tons/yr										MT/yr					
Area	4.6617	0.1257	10.9157	5.8000e-004		0.0605	0.0605		0.0605	0.0605	0.0000	17.8556	17.8556	0.0172	0.0000	18.2851
Energy	0.0672	0.5754	0.2526	3.6700e-003		0.0464	0.0464		0.0464	0.0464	0.0000	3,366.4265	3,366.4265	0.1243	0.0353	3,380.0428
Mobile	1.3727	5.5231	18.2608	0.0802	8.6988	0.0560	8.7548	2.3294	0.0519	2.3813	0.0000	7,425.1000	7,425.1000	0.2848	0.0000	7,432.2206
Waste						0.0000	0.0000		0.0000	0.0000	110.5976	0.0000	110.5976	6.5361	0.0000	274.0009
Water						0.0000	0.0000		0.0000	0.0000	23.5078	478.2554	501.7632	2.4342	0.0611	580.8253
Total	**6.1016**	**6.2241**	**29.4291**	**0.0844**	**8.6988**	**0.1629**	**8.8617**	**2.3294**	**0.1588**	**2.4882**	**134.1054**	**11,287.6376**	**11,421.7429**	**9.3966**	**0.0964**	**11,685.3747**

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	tons/yr										MT/yr					

Area	4.6617	0.1257	10.9157	5.8000e-004		0.0605	0.0605		0.0605	0.0605	0.0000	17.8556	17.8556	0.0172	0.0000	18.2851
Energy	0.0672	0.5754	0.2526	3.6700e-003		0.0464	0.0464		0.0464	0.0464	0.0000	3,366.4265	3,366.4265	0.1243	0.0353	3,380.0428
Mobile	1.1884	4.6670	13.4968	0.0558	5.9376	0.0403	5.9778	1.5900	0.0373	1.6273	0.0000	5,174.1086	5,174.1086	0.2063	0.0000	5,179.2648
Waste						0.0000	0.0000		0.0000	0.0000	110.5976	0.0000	110.5976	6.5361	0.0000	274.0009
Water						0.0000	0.0000		0.0000	0.0000	18.8062	399.6885	418.4947	1.9481	0.0490	481.8055
Total	**5.9173**	**5.3681**	**24.6652**	**0.0601**	**5.9376**	**0.1472**	**6.0848**	**1.5900**	**0.1442**	**1.7342**	**129.4038**	**8,958.0793**	**9,087.4831**	**8.8319**	**0.0843**	**9,333.3991**

	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	**3.02**	**13.75**	**16.19**	**28.82**	**31.74**	**9.65**	**31.34**	**31.74**	**9.18**	**30.30**	**3.51**	**20.64**	**20.44**	**6.01**	**12.54**	**20.13**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	35.4000
Total	**35.4000**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description

1	Demolition-Building	Demolition	1/3/2022	4/4/2022	5	66	
2	Demolition-Parking Lot	Demolition	1/3/2022	4/4/2022	5	66	
3	Site Preparation	Site Preparation	4/5/2022	5/19/2022	5	33	
4	Grading	Grading	5/20/2022	10/5/2022	5	99	
5	Building Construction	Building Construction	10/6/2022	7/22/2026	5	990	
6	Paving	Paving	7/23/2026	10/22/2026	5	66	
7	Architectural Coating	Architectural Coating	10/23/2026	1/22/2027	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 30

Acres of Paving: 2.97

Residential Indoor: 2,140,425; Residential Outdoor: 713,475; Non-Residential Indoor: 48,750; Non-Residential Outdoor: 16,250; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition-Building	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition-Building	Excavators	3	8.00	158	0.38
Demolition-Building	Rubber Tired Dozers	2	8.00	247	0.40
Demolition-Parking Lot	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition-Parking Lot	Excavators	3	8.00	158	0.38
Demolition-Parking Lot	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
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
Demolition-Building	6	15.00	0.00	1,561.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition-Parking Lot	6	15.00	0.00	199.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	24,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	773.00	118.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	227.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition-Building - 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	tons/yr										MT/yr					
Fugitive Dust					0.1690	0.0000	0.1690	0.0256	0.0000	0.0256	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0871	0.8487	0.6796	1.2800e-003		0.0410	0.0410		0.0381	0.0381	0.0000	112.1678	112.1678	0.0315	0.0000	112.9554
Total	**0.0871**	**0.8487**	**0.6796**	**1.2800e-003**	**0.1690**	**0.0410**	**0.2100**	**0.0256**	**0.0381**	**0.0637**	**0.0000**	**112.1678**	**112.1678**	**0.0315**	**0.0000**	**112.9554**

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	tons/yr										MT/yr					
Hauling	5.3900e-003	0.1878	0.0559	5.8000e-004	0.0134	5.4000e-004	0.0139	3.6700e-003	5.2000e-004	4.1900e-003	0.0000	58.4993	58.4993	6.1600e-003	0.0000	58.6534
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	1.7200e-003	1.1000e-003	0.0133	5.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.3720	4.3720	9.0000e-005	0.0000	4.3742
Total	**7.1100e-003**	**0.1889**	**0.0692**	**6.3000e-004**	**0.0188**	**5.8000e-004**	**0.0194**	**5.1100e-003**	**5.5000e-004**	**5.6700e-003**	**0.0000**	**62.8713**	**62.8713**	**6.2500e-003**	**0.0000**	**63.0276**

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	tons/yr										MT/yr					
Fugitive Dust					0.0659	0.0000	0.0659	9.9800e-003	0.0000	9.9800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.6043	0.8142	1.2800e-003		0.0142	0.0142		0.0142	0.0142	0.0000	112.1676	112.1676	0.0315	0.0000	112.9553
Total	**0.0305**	**0.6043**	**0.8142**	**1.2800e-003**	**0.0659**	**0.0142**	**0.0801**	**9.9800e-003**	**0.0142**	**0.0242**	**0.0000**	**112.1676**	**112.1676**	**0.0315**	**0.0000**	**112.9553**

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	tons/yr										MT/yr					
Hauling	5.3900e-003	0.1878	0.0559	5.8000e-004	0.0134	5.4000e-004	0.0139	3.6700e-003	5.2000e-004	4.1900e-003	0.0000	58.4993	58.4993	6.1600e-003	0.0000	58.6534
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	1.7200e-003	1.1000e-003	0.0133	5.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.3720	4.3720	9.0000e-005	0.0000	4.3742
Total	**7.1100e-003**	**0.1889**	**0.0692**	**6.3000e-004**	**0.0188**	**5.8000e-004**	**0.0194**	**5.1100e-003**	**5.5000e-004**	**5.6700e-003**	**0.0000**	**62.8713**	**62.8713**	**6.2500e-003**	**0.0000**	**63.0276**

3.3 Demolition-Parking Lot - 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	tons/yr										MT/yr					

Fugitive Dust					0.0215	0.0000	0.0215	3.2600e-003	0.0000	3.2600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0871	0.8487	0.6796	1.2800e-003		0.0410	0.0410		0.0381	0.0381	0.0000	112.1678	112.1678	0.0315	0.0000	112.9554
Total	**0.0871**	**0.8487**	**0.6796**	**1.2800e-003**	**0.0215**	**0.0410**	**0.0625**	**3.2600e-003**	**0.0381**	**0.0414**	**0.0000**	**112.1678**	**112.1678**	**0.0315**	**0.0000**	**112.9554**

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	tons/yr										MT/yr					
Hauling	6.9000e-004	0.0239	7.1300e-003	7.0000e-005	1.7100e-003	7.0000e-005	1.7700e-003	4.7000e-004	7.0000e-005	5.3000e-004	0.0000	7.4576	7.4576	7.9000e-004	0.0000	7.4773
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	1.7200e-003	1.1000e-003	0.0133	5.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.3720	4.3720	9.0000e-005	0.0000	4.3742
Total	**2.4100e-003**	**0.0250**	**0.0204**	**1.2000e-004**	**7.1400e-003**	**1.1000e-004**	**7.2400e-003**	**1.9100e-003**	**1.0000e-004**	**2.0100e-003**	**0.0000**	**11.8296**	**11.8296**	**8.8000e-004**	**0.0000**	**11.8515**

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	tons/yr										MT/yr					
Fugitive Dust					8.3900e-003	0.0000	8.3900e-003	1.2700e-003	0.0000	1.2700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.6043	0.8142	1.2800e-003		0.0142	0.0142		0.0142	0.0142	0.0000	112.1676	112.1676	0.0315	0.0000	112.9553

Total	**0.0305**	**0.6043**	**0.8142**	**1.2800e-003**	**8.3900e-003**	**0.0142**	**0.0226**	**1.2700e-003**	**0.0142**	**0.0155**	**0.0000**	**112.1676**	**112.1676**	**0.0315**	**0.0000**	**112.9553**

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	tons/yr										MT/yr					
Hauling	6.9000e-004	0.0239	7.1300e-003	7.0000e-005	1.7100e-003	7.0000e-005	1.7700e-003	4.7000e-004	7.0000e-005	5.3000e-004	0.0000	7.4576	7.4576	7.9000e-004	0.0000	7.4773
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	1.7200e-003	1.1000e-003	0.0133	5.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.3720	4.3720	9.0000e-005	0.0000	4.3742
Total	**2.4100e-003**	**0.0250**	**0.0204**	**1.2000e-004**	**7.1400e-003**	**1.1000e-004**	**7.2400e-003**	**1.9100e-003**	**1.0000e-004**	**2.0100e-003**	**0.0000**	**11.8296**	**11.8296**	**8.8000e-004**	**0.0000**	**11.8515**

3.4 Site Preparation - 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	tons/yr										MT/yr					
Fugitive Dust					0.2981	0.0000	0.2981	0.1639	0.0000	0.1639	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0523	0.5459	0.3250	6.3000e-004		0.0266	0.0266		0.0245	0.0245	0.0000	55.1750	55.1750	0.0178	0.0000	55.6211
Total	**0.0523**	**0.5459**	**0.3250**	**6.3000e-004**	**0.2981**	**0.0266**	**0.3247**	**0.1639**	**0.0245**	**0.1883**	**0.0000**	**55.1750**	**55.1750**	**0.0178**	**0.0000**	**55.6211**

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	tons/yr										MT/yr					
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	1.0300e-003	6.6000e-004	7.9500e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6232	2.6232	5.0000e-005	0.0000	2.6245
Total	**1.0300e-003**	**6.6000e-004**	**7.9500e-003**	**3.0000e-005**	**3.2600e-003**	**2.0000e-005**	**3.2800e-003**	**8.7000e-004**	**2.0000e-005**	**8.9000e-004**	**0.0000**	**2.6232**	**2.6232**	**5.0000e-005**	**0.0000**	**2.6245**

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	tons/yr										MT/yr					
Fugitive Dust					0.1163	0.0000	0.1163	0.0639	0.0000	0.0639	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.3146	0.3788	6.3000e-004		7.8100e-003	7.8100e-003		7.8100e-003	7.8100e-003	0.0000	55.1749	55.1749	0.0178	0.0000	55.6211
Total	**0.0154**	**0.3146**	**0.3788**	**6.3000e-004**	**0.1163**	**7.8100e-003**	**0.1241**	**0.0639**	**7.8100e-003**	**0.0717**	**0.0000**	**55.1749**	**55.1749**	**0.0178**	**0.0000**	**55.6211**

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	tons/yr										MT/yr					
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	1.0300e-003	6.6000e-004	7.9500e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6232	2.6232	5.0000e-005	0.0000	2.6245
Total	**1.0300e-003**	**6.6000e-004**	**7.9500e-003**	**3.0000e-005**	**3.2600e-003**	**2.0000e-005**	**3.2800e-003**	**8.7000e-004**	**2.0000e-005**	**8.9000e-004**	**0.0000**	**2.6232**	**2.6232**	**5.0000e-005**	**0.0000**	**2.6245**

3.5 Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.3301	0.0000	0.3301	0.1680	0.0000	0.1680	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0983	1.0374	0.8064	1.5700e-003		0.0464	0.0464		0.0427	0.0427	0.0000	137.8973	137.8973	0.0446	0.0000	139.0122
Total	**0.0983**	**1.0374**	**0.8064**	**1.5700e-003**	**0.3301**	**0.0464**	**0.3765**	**0.1680**	**0.0427**	**0.2107**	**0.0000**	**137.8973**	**137.8973**	**0.0446**	**0.0000**	**139.0122**

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	tons/yr										MT/yr					

Hauling	0.0838	2.9176	0.8689	8.9500e-003	0.2078	8.4400e-003	0.2162	0.0570	8.0700e-003	0.0651	0.0000	908.7817	908.7817	0.0958	0.0000	911.1755
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	2.5700e-003	1.6600e-003	0.0199	7.0000e-005	8.1500e-003	5.0000e-005	8.2000e-003	2.1600e-003	5.0000e-005	2.2100e-003	0.0000	6.5580	6.5580	1.3000e-004	0.0000	6.5613
Total	**0.0863**	**2.9192**	**0.8888**	**9.0200e-003**	**0.2160**	**8.4900e-003**	**0.2244**	**0.0591**	**8.1200e-003**	**0.0673**	**0.0000**	**915.3397**	**915.3397**	**0.0959**	**0.0000**	**917.7369**

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	tons/yr										MT/yr					
Fugitive Dust					0.1288	0.0000	0.1288	0.0655	0.0000	0.0655	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0385	0.7703	1.0180	1.5700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	137.8971	137.8971	0.0446	0.0000	139.0121
Total	**0.0385**	**0.7703**	**1.0180**	**1.5700e-003**	**0.1288**	**0.0186**	**0.1474**	**0.0655**	**0.0186**	**0.0842**	**0.0000**	**137.8971**	**137.8971**	**0.0446**	**0.0000**	**139.0121**

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	tons/yr										MT/yr					
Hauling	0.0838	2.9176	0.8689	8.9500e-003	0.2078	8.4400e-003	0.2162	0.0570	8.0700e-003	0.0651	0.0000	908.7817	908.7817	0.0958	0.0000	911.1755
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	2.5700e-003	1.6600e-003	0.0199	7.0000e-005	8.1500e-003	5.0000e-005	8.2000e-003	2.1600e-003	5.0000e-005	2.2100e-003	0.0000	6.5580	6.5580	1.3000e-004	0.0000	6.5613
Total	**0.0863**	**2.9192**	**0.8888**	**9.0200e-003**	**0.2160**	**8.4900e-003**	**0.2244**	**0.0591**	**8.1200e-003**	**0.0673**	**0.0000**	**915.3397**	**915.3397**	**0.0959**	**0.0000**	**917.7369**

3.6 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	tons/yr										MT/yr					
Off-Road	0.0529	0.4841	0.5073	8.3000e-004		0.0251	0.0251		0.0236	0.0236	0.0000	71.8348	71.8348	0.0172	0.0000	72.2651
Total	**0.0529**	**0.4841**	**0.5073**	**8.3000e-004**		**0.0251**	**0.0251**		**0.0236**	**0.0236**	**0.0000**	**71.8348**	**71.8348**	**0.0172**	**0.0000**	**72.2651**

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	tons/yr										MT/yr					
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	9.3800e-003	0.3294	0.0943	8.8000e-004	0.0230	6.3000e-004	0.0237	6.6400e-003	6.0000e-004	7.2400e-003	0.0000	87.4075	87.4075	6.9200e-003	0.0000	87.5804
Worker	0.0831	0.0535	0.6417	2.3400e-003	0.2631	1.7000e-003	0.2648	0.0699	1.5700e-003	0.0714	0.0000	211.6492	211.6492	4.2700e-003	0.0000	211.7560
Total	**0.0925**	**0.3828**	**0.7360**	**3.2200e-003**	**0.2861**	**2.3300e-003**	**0.2884**	**0.0765**	**2.1700e-003**	**0.0787**	**0.0000**	**299.0567**	**299.0567**	**0.0112**	**0.0000**	**299.3364**

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	tons/yr										MT/yr					
Off-Road	0.0209	0.4410	0.5541	8.3000e-004		0.0140	0.0140		0.0140	0.0140	0.0000	71.8347	71.8347	0.0172	0.0000	72.2650
Total	**0.0209**	**0.4410**	**0.5541**	**8.3000e-004**		**0.0140**	**0.0140**		**0.0140**	**0.0140**	**0.0000**	**71.8347**	**71.8347**	**0.0172**	**0.0000**	**72.2650**

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	tons/yr										MT/yr					
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	9.3800e-003	0.3294	0.0943	8.8000e-004	0.0230	6.3000e-004	0.0237	6.6400e-003	6.0000e-004	7.2400e-003	0.0000	87.4075	87.4075	6.9200e-003	0.0000	87.5804
Worker	0.0831	0.0535	0.6417	2.3400e-003	0.2631	1.7000e-003	0.2648	0.0699	1.5700e-003	0.0714	0.0000	211.6492	211.6492	4.2700e-003	0.0000	211.7560
Total	**0.0925**	**0.3828**	**0.7360**	**3.2200e-003**	**0.2861**	**2.3300e-003**	**0.2884**	**0.0765**	**2.1700e-003**	**0.0787**	**0.0000**	**299.0567**	**299.0567**	**0.0112**	**0.0000**	**299.3364**

3.6 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	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	**0.2045**	**1.8700**	**2.1117**	**3.5000e-003**		**0.0910**	**0.0910**		**0.0856**	**0.0856**	**0.0000**	**301.3462**	**301.3462**	**0.0717**	**0.0000**	**303.1383**

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	tons/yr										MT/yr					
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	0.0300	1.0372	0.3665	3.5800e-003	0.0966	1.2700e-003	0.0978	0.0279	1.2100e-003	0.0291	0.0000	355.4738	355.4738	0.0269	0.0000	356.1462
Worker	0.3303	0.2036	2.5067	9.4300e-003	1.1032	7.0100e-003	1.1102	0.2930	6.4500e-003	0.2994	0.0000	853.4707	853.4707	0.0162	0.0000	853.8767
Total	**0.3603**	**1.2407**	**2.8732**	**0.0130**	**1.1998**	**8.2800e-003**	**1.2080**	**0.3208**	**7.6600e-003**	**0.3285**	**0.0000**	**1,208.9445**	**1,208.9445**	**0.0431**	**0.0000**	**1,210.0229**

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	tons/yr										MT/yr					
Off-Road	0.0876	1.8494	2.3236	3.5000e-003		0.0587	0.0587		0.0587	0.0587	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	**0.0876**	**1.8494**	**2.3236**	**3.5000e-003**		**0.0587**	**0.0587**		**0.0587**	**0.0587**	**0.0000**	**301.3458**	**301.3458**	**0.0717**	**0.0000**	**303.1380**

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	tons/yr										MT/yr					
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	0.0300	1.0372	0.3665	3.5800e-003	0.0966	1.2700e-003	0.0978	0.0279	1.2100e-003	0.0291	0.0000	355.4738	355.4738	0.0269	0.0000	356.1462
Worker	0.3303	0.2036	2.5067	9.4300e-003	1.1032	7.0100e-003	1.1102	0.2930	6.4500e-003	0.2994	0.0000	853.4707	853.4707	0.0162	0.0000	853.8767
Total	**0.3603**	**1.2407**	**2.8732**	**0.0130**	**1.1998**	**8.2800e-003**	**1.2080**	**0.3208**	**7.6600e-003**	**0.3285**	**0.0000**	**1,208.9445**	**1,208.9445**	**0.0431**	**0.0000**	**1,210.0229**

3.6 Building Construction - 2024

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	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

Total	**0.1928**	**1.7611**	**2.1179**	**3.5300e-003**		**0.0803**	**0.0803**		**0.0756**	**0.0756**	**0.0000**	**303.7223**	**303.7223**	**0.0718**	**0.0000**	**305.5179**

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	tons/yr										MT/yr					
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	0.0292	1.0319	0.3615	3.5800e-003	0.0973	1.2500e-003	0.0986	0.0281	1.1900e-003	0.0293	0.0000	355.3809	355.3809	0.0267	0.0000	356.0478
Worker	0.3168	0.1868	2.3495	9.1200e-003	1.1117	6.9400e-003	1.1186	0.2952	6.3900e-003	0.3016	0.0000	825.9617	825.9617	0.0149	0.0000	826.3329
Total	**0.3459**	**1.2187**	**2.7110**	**0.0127**	**1.2090**	**8.1900e-003**	**1.2172**	**0.3233**	**7.5800e-003**	**0.3309**	**0.0000**	**1,181.3427**	**1,181.3427**	**0.0415**	**0.0000**	**1,182.3807**

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	tons/yr										MT/yr					
Off-Road	0.0883	1.8636	2.3415	3.5300e-003		0.0592	0.0592		0.0592	0.0592	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	**0.0883**	**1.8636**	**2.3415**	**3.5300e-003**		**0.0592**	**0.0592**		**0.0592**	**0.0592**	**0.0000**	**303.7220**	**303.7220**	**0.0718**	**0.0000**	**305.5175**

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	tons/yr										MT/yr					
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	0.0292	1.0319	0.3615	3.5800e-003	0.0973	1.2500e-003	0.0986	0.0281	1.1900e-003	0.0293	0.0000	355.3809	355.3809	0.0267	0.0000	356.0478
Worker	0.3168	0.1868	2.3495	9.1200e-003	1.1117	6.9400e-003	1.1186	0.2952	6.3900e-003	0.3016	0.0000	825.9617	825.9617	0.0149	0.0000	826.3329
Total	**0.3459**	**1.2187**	**2.7110**	**0.0127**	**1.2090**	**8.1900e-003**	**1.2172**	**0.3233**	**7.5800e-003**	**0.3309**	**0.0000**	**1,181.3427**	**1,181.3427**	**0.0415**	**0.0000**	**1,182.3807**

3.6 Building Construction - 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	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

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	tons/yr										MT/yr					
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	0.0283	1.0145	0.3557	3.5400e-003	0.0969	1.2200e-003	0.0982	0.0280	1.1600e-003	0.0291	0.0000	351.8554	351.8554	0.0262	0.0000	352.5106
Worker	0.3019	0.1707	2.1837	8.7200e-003	1.1074	6.8300e-003	1.1143	0.2941	6.2800e-003	0.3004	0.0000	789.5673	789.5673	0.0135	0.0000	789.9053
Total	**0.3302**	**1.1852**	**2.5395**	**0.0123**	**1.2044**	**8.0500e-003**	**1.2124**	**0.3221**	**7.4400e-003**	**0.3295**	**0.0000**	**1,141.4227**	**1,141.4227**	**0.0397**	**0.0000**	**1,142.4159**

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	tons/yr										MT/yr					
Off-Road	0.0879	1.8565	2.3325	3.5200e-003		0.0590	0.0590		0.0590	0.0590	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.0879**	**1.8565**	**2.3325**	**3.5200e-003**		**0.0590**	**0.0590**		**0.0590**	**0.0590**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

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	tons/yr										MT/yr					
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	0.0283	1.0145	0.3557	3.5400e-003	0.0969	1.2200e-003	0.0982	0.0280	1.1600e-003	0.0291	0.0000	351.8554	351.8554	0.0262	0.0000	352.5106
Worker	0.3019	0.1707	2.1837	8.7200e-003	1.1074	6.8300e-003	1.1143	0.2941	6.2800e-003	0.3004	0.0000	789.5673	789.5673	0.0135	0.0000	789.9053
Total	**0.3302**	**1.1852**	**2.5395**	**0.0123**	**1.2044**	**8.0500e-003**	**1.2124**	**0.3221**	**7.4400e-003**	**0.3295**	**0.0000**	**1,141.4227**	**1,141.4227**	**0.0397**	**0.0000**	**1,142.4159**

3.6 Building Construction - 2026

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	tons/yr										MT/yr					
Off-Road	0.0991	0.9041	1.1661	1.9500e-003		0.0383	0.0383		0.0360	0.0360	0.0000	168.1416	168.1416	0.0395	0.0000	169.1297
Total	**0.0991**	**0.9041**	**1.1661**	**1.9500e-003**		**0.0383**	**0.0383**		**0.0360**	**0.0360**	**0.0000**	**168.1416**	**168.1416**	**0.0395**	**0.0000**	**169.1297**

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	tons/yr										MT/yr					
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	0.0153	0.5561	0.1960	1.9500e-003	0.0539	6.6000e-004	0.0545	0.0155	6.3000e-004	0.0162	0.0000	194.3184	194.3184	0.0144	0.0000	194.6773
Worker	0.1611	0.0876	1.1387	4.6700e-003	0.6152	3.6800e-003	0.6189	0.1634	3.3900e-003	0.1668	0.0000	422.7902	422.7902	6.9000e-003	0.0000	422.9627
Total	**0.1765**	**0.6437**	**1.3346**	**6.6200e-003**	**0.6691**	**4.3400e-003**	**0.6734**	**0.1789**	**4.0200e-003**	**0.1829**	**0.0000**	**617.1085**	**617.1085**	**0.0213**	**0.0000**	**617.6401**

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	tons/yr										MT/yr					
Off-Road	0.0489	1.0314	1.2959	1.9500e-003		0.0328	0.0328		0.0328	0.0328	0.0000	168.1414	168.1414	0.0395	0.0000	169.1295
Total	**0.0489**	**1.0314**	**1.2959**	**1.9500e-003**		**0.0328**	**0.0328**		**0.0328**	**0.0328**	**0.0000**	**168.1414**	**168.1414**	**0.0395**	**0.0000**	**169.1295**

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	tons/yr										MT/yr					
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	0.0153	0.5561	0.1960	1.9500e-003	0.0539	6.6000e-004	0.0545	0.0155	6.3000e-004	0.0162	0.0000	194.3184	194.3184	0.0144	0.0000	194.6773
Worker	0.1611	0.0876	1.1387	4.6700e-003	0.6152	3.6800e-003	0.6189	0.1634	3.3900e-003	0.1668	0.0000	422.7902	422.7902	6.9000e-003	0.0000	422.9627

Total	**0.1765**	**0.6437**	**1.3346**	**6.6200e-003**	**0.6691**	**4.3400e-003**	**0.6734**	**0.1789**	**4.0200e-003**	**0.1829**	**0.0000**	**617.1085**	**617.1085**	**0.0213**	**0.0000**	**617.6401**

3.7 Paving - 2026

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	tons/yr										MT/yr					
Off-Road	0.0302	0.2832	0.4811	7.5000e-004		0.0138	0.0138		0.0127	0.0127	0.0000	66.0635	66.0635	0.0214	0.0000	66.5977
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0302**	**0.2832**	**0.4811**	**7.5000e-004**		**0.0138**	**0.0138**		**0.0127**	**0.0127**	**0.0000**	**66.0635**	**66.0635**	**0.0214**	**0.0000**	**66.5977**

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	tons/yr										MT/yr					
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	1.4200e-003	7.7000e-004	0.0101	4.0000e-005	5.4300e-003	3.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4700e-003	0.0000	3.7343	3.7343	6.0000e-005	0.0000	3.7359
Total	**1.4200e-003**	**7.7000e-004**	**0.0101**	**4.0000e-005**	**5.4300e-003**	**3.0000e-005**	**5.4700e-003**	**1.4400e-003**	**3.0000e-005**	**1.4700e-003**	**0.0000**	**3.7343**	**3.7343**	**6.0000e-005**	**0.0000**	**3.7359**

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	tons/yr										MT/yr					
Off-Road	0.0185	0.3727	0.5708	7.5000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	66.0635	66.0635	0.0214	0.0000	66.5976
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0185**	**0.3727**	**0.5708**	**7.5000e-004**		**0.0101**	**0.0101**		**0.0101**	**0.0101**	**0.0000**	**66.0635**	**66.0635**	**0.0214**	**0.0000**	**66.5976**

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	tons/yr										MT/yr					
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	1.4200e-003	7.7000e-004	0.0101	4.0000e-005	5.4300e-003	3.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4700e-003	0.0000	3.7343	3.7343	6.0000e-005	0.0000	3.7359
Total	**1.4200e-003**	**7.7000e-004**	**0.0101**	**4.0000e-005**	**5.4300e-003**	**3.0000e-005**	**5.4700e-003**	**1.4400e-003**	**3.0000e-005**	**1.4700e-003**	**0.0000**	**3.7343**	**3.7343**	**6.0000e-005**	**0.0000**	**3.7359**

3.8 Architectural Coating - 2026

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	tons/yr										MT/yr					
Archit. Coating	2.6039					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2700e-003	0.0286	0.0452	7.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	6.3831	6.3831	3.5000e-004	0.0000	6.3918
Total	**2.6082**	**0.0286**	**0.0452**	**7.0000e-005**		**1.2900e-003**	**1.2900e-003**		**1.2900e-003**	**1.2900e-003**	**0.0000**	**6.3831**	**6.3831**	**3.5000e-004**	**0.0000**	**6.3918**

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	tons/yr										MT/yr					
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	0.0163	8.8700e-003	0.1153	4.7000e-004	0.0623	3.7000e-004	0.0627	0.0165	3.4000e-004	0.0169	0.0000	42.8128	42.8128	7.0000e-004	0.0000	42.8302
Total	**0.0163**	**8.8700e-003**	**0.1153**	**4.7000e-004**	**0.0623**	**3.7000e-004**	**0.0627**	**0.0165**	**3.4000e-004**	**0.0169**	**0.0000**	**42.8128**	**42.8128**	**7.0000e-004**	**0.0000**	**42.8302**

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	tons/yr										MT/yr					

Archit. Coating	2.6039					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e-003	0.0339	0.0458	7.0000e-005		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003	0.0000	6.3831	6.3831	3.5000e-004	0.0000	6.3918
Total	**2.6054**	**0.0339**	**0.0458**	**7.0000e-005**		**1.1900e-003**	**1.1900e-003**		**1.1900e-003**	**1.1900e-003**	**0.0000**	**6.3831**	**6.3831**	**3.5000e-004**	**0.0000**	**6.3918**

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	tons/yr										MT/yr					
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	0.0163	8.8700e-003	0.1153	4.7000e-004	0.0623	3.7000e-004	0.0627	0.0165	3.4000e-004	0.0169	0.0000	42.8128	42.8128	7.0000e-004	0.0000	42.8302
Total	**0.0163**	**8.8700e-003**	**0.1153**	**4.7000e-004**	**0.0623**	**3.7000e-004**	**0.0627**	**0.0165**	**3.4000e-004**	**0.0169**	**0.0000**	**42.8128**	**42.8128**	**7.0000e-004**	**0.0000**	**42.8302**

3.8 Architectural Coating - 2027

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	tons/yr										MT/yr					
Archit. Coating	0.8333					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3700e-003	9.1600e-003	0.0145	2.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	2.0426	2.0426	1.1000e-004	0.0000	2.0454

Total	**0.8346**	**9.1600e-003**	**0.0145**	**2.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**2.0426**	**2.0426**	**1.1000e-004**	**0.0000**	**2.0454**

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	tons/yr										MT/yr					
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	5.0100e-003	2.6300e-003	0.0348	1.5000e-004	0.0199	1.1000e-004	0.0201	5.2900e-003	1.0000e-004	5.4000e-003	0.0000	13.2528	13.2528	2.1000e-004	0.0000	13.2580
Total	**5.0100e-003**	**2.6300e-003**	**0.0348**	**1.5000e-004**	**0.0199**	**1.1000e-004**	**0.0201**	**5.2900e-003**	**1.0000e-004**	**5.4000e-003**	**0.0000**	**13.2528**	**13.2528**	**2.1000e-004**	**0.0000**	**13.2580**

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	tons/yr										MT/yr					
Archit. Coating	0.8333					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	0.0109	0.0147	2.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	2.0426	2.0426	1.1000e-004	0.0000	2.0454
Total	**0.8337**	**0.0109**	**0.0147**	**2.0000e-005**		**3.8000e-004**	**3.8000e-004**		**3.8000e-004**	**3.8000e-004**	**0.0000**	**2.0426**	**2.0426**	**1.1000e-004**	**0.0000**	**2.0454**

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	tons/yr										MT/yr					
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	5.0100e-003	2.6300e-003	0.0348	1.5000e-004	0.0199	1.1000e-004	0.0201	5.2900e-003	1.0000e-004	5.4000e-003	0.0000	13.2528	13.2528	2.1000e-004	0.0000	13.2580
Total	**5.0100e-003**	**2.6300e-003**	**0.0348**	**1.5000e-004**	**0.0199**	**1.1000e-004**	**0.0201**	**5.2900e-003**	**1.0000e-004**	**5.4000e-003**	**0.0000**	**13.2528**	**13.2528**	**2.1000e-004**	**0.0000**	**13.2580**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Implement NEV Network

	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	tons/yr										MT/yr					
Mitigated	1.1884	4.6670	13.4968	0.0558	5.9376	0.0403	5.9778	1.5900	0.0373	1.6273	0.0000	5,174.1086	5,174.1086	0.2063	0.0000	5,179.2648
Unmitigated	1.3727	5.5231	18.2608	0.0802	8.6988	0.0560	8.7548	2.3294	0.0519	2.3813	0.0000	7,425.1000	7,425.1000	0.2848	0.0000	7,432.2206

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	1.19	14.37	10.57	12,698	8,667
Condo/Townhouse High Rise	6,394.85	6,595.68	5242.72	21,387,783	14,598,659
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	219.25	49.00	20.75	536,603	366,269
Library	38.91	32.21	17.64	88,146	60,166
Supermarket	576.60	1,001.58	938.70	909,168	620,571
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,230.80	7,692.83	6,230.38	22,934,398	15,654,332

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	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818

Condo/Townhouse High Rise	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Enclosed Parking with Elevator	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
General Office Building	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Library	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Supermarket	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Unenclosed Parking with Elevator	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,701.4081	2,701.4081	0.1115	0.0231	2,711.0725
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,701.4081	2,701.4081	0.1115	0.0231	2,711.0725
NaturalGas Mitigated	0.0672	0.5754	0.2526	3.6700e-003		0.0464	0.0464		0.0464	0.0464	0.0000	665.0185	665.0185	0.0128	0.0122	668.9703
NaturalGas Unmitigated	0.0672	0.5754	0.2526	3.6700e-003		0.0464	0.0464		0.0464	0.0464	0.0000	665.0185	665.0185	0.0128	0.0122	668.9703

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	tons/yr										MT/yr					
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	0.0000
Condo/Townhouse High Rise	1.20788e+007	0.0651	0.5566	0.2368	3.5500e-003		0.0450	0.0450		0.0450	0.0450	0.0000	644.5721	644.5721	0.0124	0.0118	648.4025
Enclosed Parking with Elevator	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	0.0000
General Office Building	228500	1.2300e-003	0.0112	9.4100e-003	7.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	12.1936	12.1936	2.3000e-004	2.2000e-004	12.2661
Library	31350	1.7000e-004	1.5400e-003	1.2900e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6730	1.6730	3.0000e-005	3.0000e-005	1.6829
Supermarket	123300	6.6000e-004	6.0400e-003	5.0800e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.5798	6.5798	1.3000e-004	1.2000e-004	6.6189
Unenclosed Parking with	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	0.0000
Total		**0.0672**	**0.5754**	**0.2526**	**3.6700e-003**		**0.0464**	**0.0464**		**0.0464**	**0.0464**	**0.0000**	**665.0185**	**665.0185**	**0.0127**	**0.0122**	**668.9703**

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	tons/yr										MT/yr					
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	0.0000
Condo/Townhouse High Rise	1.20788e+007	0.0651	0.5566	0.2368	3.5500e-003		0.0450	0.0450		0.0450	0.0450	0.0000	644.5721	644.5721	0.0124	0.0118	648.4025
Enclosed Parking with Elevator	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	0.0000
General Office Building	228500	1.2300e-003	0.0112	9.4100e-003	7.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	12.1936	12.1936	2.3000e-004	2.2000e-004	12.2661
Library	31350	1.7000e-004	1.5400e-003	1.2900e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6730	1.6730	3.0000e-005	3.0000e-005	1.6829

Supermarket	123300	6.6000e-004	6.0400e-003	5.0800e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.5798	6.5798	1.3000e-004	1.2000e-004	6.6189
Unenclosed Parking with	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	0.0000
Total		**0.0672**	**0.5754**	**0.2526**	**3.6700e-003**		**0.0464**	**0.0464**		**0.0464**	**0.0464**	**0.0000**	**665.0185**	**665.0185**	**0.0127**	**0.0122**	**668.9703**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	4.47635e+006	1,426.2619	0.0589	0.0122	1,431.3644
Enclosed Parking with Elevator	2.80342e+006	893.2310	0.0369	7.6300e-003	896.4265
General Office Building	349750	111.4378	4.6000e-003	9.5000e-004	111.8365
Library	12675	4.0385	1.7000e-004	3.0000e-005	4.0530
Supermarket	231720	73.8310	3.0500e-003	6.3000e-004	74.0951
Unenclosed Parking with	604504	192.6079	7.9500e-003	1.6500e-003	193.2970
Total		**2,701.4081**	**0.1115**	**0.0231**	**2,711.0725**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e

Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	4.47635e+006	1,426.2619	0.0589	0.0122	1,431.3644
Enclosed Parking with Elevator	2.80342e+006	893.2310	0.0369	7.6300e-003	896.4265
General Office Building	349750	111.4378	4.6000e-003	9.5000e-004	111.8365
Library	12675	4.0385	1.7000e-004	3.0000e-005	4.0530
Supermarket	231720	73.8310	3.0500e-003	6.3000e-004	74.0951
Unenclosed Parking with	604504	192.6079	7.9500e-003	1.6500e-003	193.2970
Total		**2,701.4081**	**0.1115**	**0.0231**	**2,711.0725**

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	tons/yr										MT/yr					
Mitigated	4.6617	0.1257	10.9157	5.8000e-004		0.0605	0.0605		0.0605	0.0605	0.0000	17.8556	17.8556	0.0172	0.0000	18.2851
Unmitigated	4.6617	0.1257	10.9157	5.8000e-004		0.0605	0.0605		0.0605	0.0605	0.0000	17.8556	17.8556	0.0172	0.0000	18.2851

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	tons/yr										MT/yr					
Architectural Coating	0.3437					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9887					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3293	0.1257	10.9157	5.8000e-004		0.0605	0.0605		0.0605	0.0605	0.0000	17.8556	17.8556	0.0172	0.0000	18.2851
Total	**4.6617**	**0.1257**	**10.9157**	**5.8000e-004**		**0.0605**	**0.0605**		**0.0605**	**0.0605**	**0.0000**	**17.8556**	**17.8556**	**0.0172**	**0.0000**	**18.2851**

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	tons/yr										MT/yr					
Architectural Coating	0.3437					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9887					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3293	0.1257	10.9157	5.8000e-004		0.0605	0.0605		0.0605	0.0605	0.0000	17.8556	17.8556	0.0172	0.0000	18.2851
Total	**4.6617**	**0.1257**	**10.9157**	**5.8000e-004**		**0.0605**	**0.0605**		**0.0605**	**0.0605**	**0.0000**	**17.8556**	**17.8556**	**0.0172**	**0.0000**	**18.2851**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	418.4947	1.9481	0.0490	481.8055
Unmitigated	501.7632	2.4342	0.0611	580.8253

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 2.02552	7.1701	3.0000e-004	6.0000e-005	7.1958
Condo/Townhouse High Rise	68.8678 / 43.4167	461.2552	2.2622	0.0567	534.7188
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	4.44334 / 2.72334	29.4844	0.1460	3.6600e-003	34.2233

Library	0.0469334 / 0.0724086	0.4695	1.5500e-003	4.0000e-005	0.5201
Supermarket	0.739609 / 0.0228745	3.3841	0.0242	6.0000e-004	4.1674
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**501.7632**	**2.4342**	**0.0611**	**580.8253**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.82297	6.4531	2.7000e-004	6.0000e-005	6.4762
Condo/Townhouse High Rise	55.0942 / 39.075	384.3731	1.8104	0.0455	443.1990
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	3.55467 / 2.45101	24.5515	0.1168	2.9400e-003	28.3461
Library	0.0375467 / 0.0660677	0.4016	1.2400e-003	3.0000e-005	0.4422
Supermarket	0.591687 / 0.0205871	2.7154	0.0194	4.8000e-004	3.3421
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**418.4947**	**1.9481**	**0.0490**	**481.8055**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	110.5976	6.5361	0.0000	274.0009
Unmitigated	110.5976	6.5361	0.0000	274.0009

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.15	0.0305	1.8000e-003	0.0000	0.0754
Condo/Townhouse High Rise	486.22	98.6983	5.8329	0.0000	244.5208
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
Library	1.38	0.2801	0.0166	0.0000	0.6940
Supermarket	33.84	6.8692	0.4060	0.0000	17.0182
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000

Total		**110.5976**	**6.5361**	**0.0000**	**274.0009**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.15	0.0305	1.8000e-003	0.0000	0.0754
Condo/Townhouse High Rise	486.22	98.6983	5.8329	0.0000	244.5208
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	23.25	4.7195	0.2789	0.0000	11.6925
Library	1.38	0.2801	0.0166	0.0000	0.6940
Supermarket	33.84	6.8692	0.4060	0.0000	17.0182
Unenclosed Parking with El...	0	0.0000	0.0000	0.0000	0.0000
Total		**110.5976**	**6.5361**	**0.0000**	**274.0009**

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	35.4000	0.0000	0.0000	35.4000

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	50	35.4000	0.0000	0.0000	35.4000
Total		**35.4000**	**0.0000**	**0.0000**	**35.4000**

One Metro West

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.57	25,000.00	0
Library	1.50	1000sqft	0.03	1,500.00	0
Enclosed Parking with Elevator	1,196.00	Space	0.00	478,400.00	0
Unenclosed Parking with Elevator	779.00	Space	2.97	311,600.00	0
City Park	1.70	Acre	1.70	74,052.00	0
Condo/Townhouse High Rise	1,057.00	Dwelling Unit	9.82	1,057,000.00	2897
Supermarket	6.00	1000sqft	0.14	6,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total site is 15.23 net acres, there would be two levels of enclosed subterranean parking. Library represents the Community Center. The population amount was set to match the US Census data.

Construction Phase - Schedule based on start date of Jan. 2022, completion in Jan. 2027. The default CalEEMod schedule phase durations were proportioned to achieve the 5 year duration.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - This equipment would be shared with the Demolition-Parking Lot phase.

Off-road Equipment -

Off-road Equipment - Equipment per project plans.

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Corrected the Building Construction worker & vendor trips per day per CalEEMod documentation. All asphalt demolishion material will be recycled onsite.

Demolition - From project plans. 343,300 sf of building and 178,000sf of asphalt parking lot will be demolished. Calrecycle asphalt factor-0.61 tons/CY

Grading - For 15 acre site, assume "total acres graded" would be the total area disturbed up to twice in any one day.

Architectural Coating - Assume all architectural coatings compliant with SCAQMD Rule 1113.

Vehicle Trips - Weekday trip rates from project traffic study for the peak day, weekend rates proportioned from the CalEEMod defaults. The Community Center is represented by the Library land use.

Woodstoves - No residences have a woodstove or fireplace per project plans.

Area Coating - Assume all architectural coatings compliant with SCAQMD Rule 1113.

Sequestration - Estimated the number of trees from the site plan.

Construction Off-road Equipment Mitigation - Dust control measures as required by SCAQMD Rule 403. Assume all equipment would be at least EPA Tier 3 and have Level 3 DPF.

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation - Project plans specify a 20% indoor water use reduction, the outdoor reduction estimated based on planned features.

Waste Mitigation -

Operational Off-Road Equipment -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50

tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00

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
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	300.00	990.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	30.00	99.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	10.00	33.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	898.45	0.00
tblFireplaces	NumberNoFireplace	105.70	1,057.00
tblFireplaces	NumberWood	52.85	0.00
tblGrading	AcresOfGrading	49.50	30.00
tblGrading	MaterialExported	0.00	194,000.00
tblGrading	MaterialImported	0.00	91,400.00

tblLandUse	LotAcreage	10.76	0.00
tblLandUse	LotAcreage	7.01	2.97
tblLandUse	LotAcreage	16.52	9.82
tblLandUse	Population	3,023.00	2,897.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSequestration	NumberOfNewTrees	0.00	50.00
tblTripsAndVMT	VendorTripNumber	260.00	118.00
tblTripsAndVMT	WorkerTripNumber	1,134.00	773.00
tblVehicleTrips	ST_TR	22.75	8.45
tblVehicleTrips	ST_TR	4.31	6.24
tblVehicleTrips	ST_TR	2.46	1.96
tblVehicleTrips	ST_TR	46.55	21.47
tblVehicleTrips	ST_TR	177.59	166.93
tblVehicleTrips	SU_TR	16.74	6.22
tblVehicleTrips	SU_TR	3.43	4.96
tblVehicleTrips	SU_TR	1.05	0.83
tblVehicleTrips	SU_TR	25.49	11.76
tblVehicleTrips	SU_TR	166.44	156.45
tblVehicleTrips	WD_TR	1.89	0.70
tblVehicleTrips	WD_TR	4.18	6.05
tblVehicleTrips	WD_TR	11.03	8.77
tblVehicleTrips	WD_TR	56.24	25.94
tblVehicleTrips	WD_TR	102.24	96.10
tblWoodstoves	NumberCatalytic	52.85	0.00
tblWoodstoves	NumberNoncatalytic	52.85	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	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					
2022	5.5630	78.2042	43.9107	0.2152	18.2675	2.5059	19.8813	9.9840	2.3301	11.4688	0.0000	23,590.8387	23,590.8387	3.1095	0.0000	23,668.5748
2023	4.2952	23.6781	39.3851	0.1303	9.3942	0.7632	10.1573	2.5084	0.7171	3.2255	0.0000	13,131.3436	13,131.3436	0.9753	0.0000	13,155.7261
2024	4.0624	22.5143	37.8388	0.1270	9.3942	0.6756	10.0698	2.5084	0.6346	3.1429	0.0000	12,809.2150	12,809.2150	0.9552	0.0000	12,833.0960
2025	3.8470	21.3344	36.4616	0.1239	9.3942	0.5890	9.9832	2.5084	0.5531	3.0615	0.0000	12,498.8203	12,498.8203	0.9378	0.0000	12,522.2657
2026	104.9673	21.1445	35.3602	0.1212	9.3942	0.5873	9.9814	2.5084	0.5515	3.0599	0.0000	12,229.8331	12,229.8331	0.9254	0.0000	12,252.9672
2027	104.9407	1.4368	6.4282	0.0220	2.5373	0.0656	2.6029	0.6729	0.0645	0.7374	0.0000	2,181.6407	2,181.6407	0.0450	0.0000	2,182.7664
Maximum	**104.9673**	**78.2042**	**43.9107**	**0.2152**	**18.2675**	**2.5059**	**19.8813**	**9.9840**	**2.3301**	**11.4688**	**0.0000**	**23,590.8387**	**23,590.8387**	**3.1095**	**0.0000**	**23,668.5748**

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					
2022	3.6067	72.8097	52.0703	0.2152	9.3942	0.8833	9.9208	3.9263	0.8823	4.4006	0.0000	23,590.8387	23,590.8387	3.1095	0.0000	23,668.5748
2023	3.3963	23.5193	41.0149	0.1303	9.3942	0.5152	9.9094	2.5084	0.5105	3.0189	0.0000	13,131.3436	13,131.3436	0.9753	0.0000	13,155.7261
2024	3.2647	23.2966	39.5457	0.1270	9.3942	0.5141	9.9082	2.5084	0.5094	3.0178	0.0000	12,809.2150	12,809.2150	0.9552	0.0000	12,833.0960

2025	3.1535	23.0908	38.2507	0.1239	9.3942	0.5132	9.9074	2.5084	0.5087	3.0170	0.0000	12,498.8203	12,498.8203	0.9378	0.0000	12,522.2657
2026	104.8559	22.9009	37.1493	0.1212	9.3942	0.5115	9.9056	2.5084	0.5070	3.0154	0.0000	12,229.8331	12,229.8331	0.9254	0.0000	12,252.9672
2027	104.8293	1.6483	6.4514	0.0220	2.5373	0.0617	2.5990	0.6729	0.0605	0.7334	0.0000	2,181.6407	2,181.6407	0.0450	0.0000	2,182.7664
Maximum	**104.8559**	**72.8097**	**52.0703**	**0.2152**	**9.3942**	**0.8833**	**9.9208**	**3.9263**	**0.8823**	**4.4006**	**0.0000**	**23,590.8387**	**23,590.8387**	**3.1095**	**0.0000**	**23,668.5748**

	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	**2.01**	**0.62**	**-7.57**	**0.00**	**15.20**	**42.18**	**16.79**	**29.28**	**38.60**	**30.34**	**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	26.3738	1.0054	87.3258	4.6200e-003		0.4841	0.4841		0.4841	0.4841	0.0000	157.4595	157.4595	0.1515	0.0000	161.2472
Energy	0.3682	3.1526	1.3842	0.0201		0.2544	0.2544		0.2544	0.2544		4,016.7527	4,016.7527	0.0770	0.0736	4,040.6222
Mobile	8.6467	31.8606	111.9934	0.4905	52.4095	0.3321	52.7415	14.0139	0.3078	14.3217		50,056.5691	50,056.5691	1.8700		50,103.3200
Total	**35.3886**	**36.0187**	**200.7034**	**0.5152**	**52.4095**	**1.0706**	**53.4801**	**14.0139**	**1.0463**	**15.0602**	**0.0000**	**54,230.7813**	**54,230.7813**	**2.0985**	**0.0736**	**54,305.1894**

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	26.3738	1.0054	87.3258	4.6200e-003		0.4841	0.4841		0.4841	0.4841	0.0000	157.4595	157.4595	0.1515	0.0000	161.2472
Energy	0.3682	3.1526	1.3842	0.0201		0.2544	0.2544		0.2544	0.2544		4,016.7527	4,016.7527	0.0770	0.0736	4,040.6222
Mobile	7.5462	27.1911	81.9672	0.3417	35.7731	0.2389	36.0121	9.5655	0.2214	9.7868		34,897.8524	34,897.8524	1.3504		34,931.6112
Total	**34.2881**	**31.3491**	**170.6772**	**0.3664**	**35.7731**	**0.9775**	**36.7506**	**9.5655**	**0.9599**	**10.5254**	**0.0000**	**39,072.0646**	**39,072.0646**	**1.5789**	**0.0736**	**39,133.4807**

	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	**3.11**	**12.96**	**14.96**	**28.88**	**31.74**	**8.70**	**31.28**	**31.74**	**8.26**	**30.11**	**0.00**	**27.95**	**27.95**	**24.76**	**0.00**	**27.94**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition-Building	Demolition	1/3/2022	4/4/2022	5	66	
2	Demolition-Parking Lot	Demolition	1/3/2022	4/4/2022	5	66	
3	Site Preparation	Site Preparation	4/5/2022	5/19/2022	5	33	
4	Grading	Grading	5/20/2022	10/5/2022	5	99	
5	Building Construction	Building Construction	10/6/2022	7/22/2026	5	990	
6	Paving	Paving	7/23/2026	10/22/2026	5	66	
7	Architectural Coating	Architectural Coating	10/23/2026	1/22/2027	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 30

Acres of Paving: 2.97

Residential Indoor: 2,140,425; Residential Outdoor: 713,475; Non-Residential Indoor: 48,750; Non-Residential Outdoor: 16,250; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition-Building	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition-Building	Excavators	3	8.00	158	0.38
Demolition-Building	Rubber Tired Dozers	2	8.00	247	0.40
Demolition-Parking Lot	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition-Parking Lot	Excavators	3	8.00	158	0.38
Demolition-Parking Lot	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
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

Demolition-Building	6	15.00	0.00	1,561.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition-Parking Lot	6	15.00	0.00	199.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	24,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	773.00	118.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	227.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition-Building - 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					
Fugitive Dust					5.1201	0.0000	5.1201	0.7752	0.0000	0.7752			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**5.1201**	**1.2427**	**6.3628**	**0.7752**	**1.1553**	**1.9305**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

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	0.1617	5.5248	1.6605	0.0176	0.4118	0.0163	0.4281	0.1127	0.0156	0.1283		1,966.6703	1,966.6703	0.2040		1,971.7715
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
Worker	0.0512	0.0297	0.4252	1.5200e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		151.9802	151.9802	3.0700e-003		152.0569
Total	**0.2129**	**5.5545**	**2.0857**	**0.0191**	**0.5794**	**0.0174**	**0.5968**	**0.1572**	**0.0166**	**0.1738**		**2,118.6505**	**2,118.6505**	**0.2071**		**2,123.8284**

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					1.9969	0.0000	1.9969	0.3023	0.0000	0.3023			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.4314	0.4314		0.4314	0.4314	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**0.9246**	**18.3130**	**24.6739**	**0.0388**	**1.9969**	**0.4314**	**2.4282**	**0.3023**	**0.4314**	**0.7337**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

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	0.1617	5.5248	1.6605	0.0176	0.4118	0.0163	0.4281	0.1127	0.0156	0.1283		1,966.6703	1,966.6703	0.2040		1,971.7715
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
Worker	0.0512	0.0297	0.4252	1.5200e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		151.9802	151.9802	3.0700e-003		152.0569
Total	**0.2129**	**5.5545**	**2.0857**	**0.0191**	**0.5794**	**0.0174**	**0.5968**	**0.1572**	**0.0166**	**0.1738**		**2,118.6505**	**2,118.6505**	**0.2071**		**2,123.8284**

3.3 Demolition-Parking Lot - 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				
Fugitive Dust					0.6520	0.0000	0.6520	0.0987	0.0000	0.0987			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**0.6520**	**1.2427**	**1.8947**	**0.0987**	**1.1553**	**1.2540**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

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	0.0206	0.7043	0.2117	2.2400e-003	0.0525	2.0800e-003	0.0546	0.0144	1.9900e-003	0.0164		250.7158	250.7158	0.0260		251.3661

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
Worker	0.0512	0.0297	0.4252	1.5200e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		151.9802	151.9802	3.0700e-003		152.0569
Total	**0.0718**	**0.7340**	**0.6369**	**3.7600e-003**	**0.2202**	**3.1400e-003**	**0.2233**	**0.0588**	**2.9700e-003**	**0.0618**		**402.6960**	**402.6960**	**0.0291**		**403.4230**

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					0.2543	0.0000	0.2543	0.0385	0.0000	0.0385			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.4314	0.4314		0.4314	0.4314	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**0.9246**	**18.3130**	**24.6739**	**0.0388**	**0.2543**	**0.4314**	**0.6857**	**0.0385**	**0.4314**	**0.4699**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

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	0.0206	0.7043	0.2117	2.2400e-003	0.0525	2.0800e-003	0.0546	0.0144	1.9900e-003	0.0164		250.7158	250.7158	0.0260		251.3661
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
Worker	0.0512	0.0297	0.4252	1.5200e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		151.9802	151.9802	3.0700e-003		152.0569

Total	**0.0718**	**0.7340**	**0.6369**	**3.7600e-003**	**0.2202**	**3.1400e-003**	**0.2233**	**0.0588**	**2.9700e-003**	**0.0618**		**402.6960**	**402.6960**	**0.0291**		**403.4230**

3.4 Site Preparation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**18.0663**	**1.6126**	**19.6788**	**9.9307**	**1.4836**	**11.4143**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

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
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
Worker	0.0614	0.0356	0.5103	1.8300e-003	0.2012	1.2800e-003	0.2025	0.0534	1.1800e-003	0.0545		182.3762	182.3762	3.6800e-003		182.4683
Total	**0.0614**	**0.0356**	**0.5103**	**1.8300e-003**	**0.2012**	**1.2800e-003**	**0.2025**	**0.0534**	**1.1800e-003**	**0.0545**		**182.3762**	**182.3762**	**3.6800e-003**		**182.4683**

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.4731	0.4731		0.4731	0.4731	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**0.9312**	**19.0656**	**22.9600**	**0.0380**	**7.0458**	**0.4731**	**7.5189**	**3.8730**	**0.4731**	**4.3461**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

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
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
Worker	0.0614	0.0356	0.5103	1.8300e-003	0.2012	1.2800e-003	0.2025	0.0534	1.1800e-003	0.0545		182.3762	182.3762	3.6800e-003		182.4683
Total	**0.0614**	**0.0356**	**0.5103**	**1.8300e-003**	**0.2012**	**1.2800e-003**	**0.2025**	**0.0534**	**1.1800e-003**	**0.0545**		**182.3762**	**182.3762**	**3.6800e-003**		**182.4683**

3.5 Grading - 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					
Fugitive Dust					6.6695	0.0000	6.6695	3.3943	0.0000	3.3943			0.0000			0.0000
Off-Road	1.9864	20.9565	16.2899	0.0317		0.9366	0.9366		0.8617	0.8617		3,070.8227	3,070.8227	0.9932		3,095.6519
Total	**1.9864**	**20.9565**	**16.2899**	**0.0317**	**6.6695**	**0.9366**	**7.6061**	**3.3943**	**0.8617**	**4.2560**		**3,070.8227**	**3,070.8227**	**0.9932**		**3,095.6519**

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	1.6745	57.2180	17.1968	0.1819	4.2644	0.1691	4.4335	1.1674	0.1618	1.3291		20,368.0358	20,368.0358	2.1132		20,420.8660
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
Worker	0.0512	0.0297	0.4252	1.5200e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		151.9802	151.9802	3.0700e-003		152.0569
Total	**1.7257**	**57.2477**	**17.6220**	**0.1835**	**4.4321**	**0.1702**	**4.6023**	**1.2118**	**0.1628**	**1.3746**		**20,520.0159**	**20,520.0159**	**2.1163**		**20,572.9229**

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					2.6011	0.0000	2.6011	1.3238	0.0000	1.3238			0.0000			0.0000
Off-Road	0.7774	15.5621	20.5666	0.0317		0.3763	0.3763		0.3763	0.3763	0.0000	3,070.8227	3,070.8227	0.9932		3,095.6519
Total	**0.7774**	**15.5621**	**20.5666**	**0.0317**	**2.6011**	**0.3763**	**2.9774**	**1.3238**	**0.3763**	**1.7001**	**0.0000**	**3,070.8227**	**3,070.8227**	**0.9932**		**3,095.6519**

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	1.6745	57.2180	17.1968	0.1819	4.2644	0.1691	4.4335	1.1674	0.1618	1.3291		20,368.0358	20,368.0358	2.1132		20,420.8660
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
Worker	0.0512	0.0297	0.4252	1.5200e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		151.9802	151.9802	3.0700e-003		152.0569
Total	**1.7257**	**57.2477**	**17.6220**	**0.1835**	**4.4321**	**0.1702**	**4.6023**	**1.2118**	**0.1628**	**1.3746**		**20,520.0159**	**20,520.0159**	**2.1163**		**20,572.9229**

3.6 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		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

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
Vendor	0.2960	10.4731	2.8989	0.0288	0.7539	0.0200	0.7739	0.2170	0.0191	0.2361		3,140.6008	3,140.6008	0.2409		3,146.6238
Worker	2.6368	1.5294	21.9128	0.0785	8.6403	0.0548	8.6952	2.2915	0.0505	2.3419		7,832.0455	7,832.0455	0.1582		7,836.0002
Total	**2.9328**	**12.0025**	**24.8117**	**0.1073**	**9.3942**	**0.0748**	**9.4691**	**2.5084**	**0.0696**	**2.5780**		**10,972.6463**	**10,972.6463**	**0.3991**		**10,982.6240**

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		0.4518	0.4518		0.4518	0.4518	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.4518**	**0.4518**		**0.4518**	**0.4518**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

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
Vendor	0.2960	10.4731	2.8989	0.0288	0.7539	0.0200	0.7739	0.2170	0.0191	0.2361		3,140.6008	3,140.6008	0.2409		3,146.6238
Worker	2.6368	1.5294	21.9128	0.0785	8.6403	0.0548	8.6952	2.2915	0.0505	2.3419		7,832.0455	7,832.0455	0.1582		7,836.0002
Total	**2.9328**	**12.0025**	**24.8117**	**0.1073**	**9.3942**	**0.0748**	**9.4691**	**2.5084**	**0.0696**	**2.5780**		**10,972.6463**	**10,972.6463**	**0.3991**		**10,982.6240**

3.6 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		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

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
Vendor	0.2253	7.9047	2.7057	0.0278	0.7539	9.5100e-003	0.7634	0.2169	9.1000e-003	0.2260		3,045.1853	3,045.1853	0.2240		3,050.7845
Worker	2.4971	1.3886	20.4355	0.0755	8.6403	0.0539	8.6942	2.2915	0.0496	2.3411		7,530.9484	7,530.9484	0.1435		7,534.5355
Total	**2.7224**	**9.2933**	**23.1411**	**0.1033**	**9.3942**	**0.0634**	**9.4576**	**2.5084**	**0.0587**	**2.5671**		**10,576.1337**	**10,576.1337**	**0.3675**		**10,585.3201**

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		0.4518	0.4518		0.4518	0.4518	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.4518**	**0.4518**		**0.4518**	**0.4518**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

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
Vendor	0.2253	7.9047	2.7057	0.0278	0.7539	9.5100e-003	0.7634	0.2169	9.1000e-003	0.2260		3,045.1853	3,045.1853	0.2240		3,050.7845
Worker	2.4971	1.3886	20.4355	0.0755	8.6403	0.0539	8.6942	2.2915	0.0496	2.3411		7,530.9484	7,530.9484	0.1435		7,534.5355
Total	**2.7224**	**9.2933**	**23.1411**	**0.1033**	**9.3942**	**0.0634**	**9.4576**	**2.5084**	**0.0587**	**2.5671**		**10,576.1337**	**10,576.1337**	**0.3675**		**10,585.3201**

3.6 Building Construction - 2024

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

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
Vendor	0.2177	7.8060	2.6495	0.0276	0.7539	9.3100e-003	0.7632	0.2169	8.9000e-003	0.2258		3,020.9954	3,020.9954	0.2206		3,026.5105

Worker	2.3732	1.2646	19.0225	0.0725	8.6403	0.0530	8.6933	2.2915	0.0488	2.3402		7,232.5206	7,232.5206	0.1303		7,235.7778
Total	**2.5908**	**9.0705**	**21.6719**	**0.1001**	**9.3942**	**0.0623**	**9.4565**	**2.5084**	**0.0577**	**2.5660**		**10,253.5161**	**10,253.5161**	**0.3509**		**10,262.2883**

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	0.0270		0.4518	0.4518		0.4518	0.4518	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**0.6739**	**14.2261**	**17.8738**	**0.0270**		**0.4518**	**0.4518**		**0.4518**	**0.4518**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

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
Vendor	0.2177	7.8060	2.6495	0.0276	0.7539	9.3100e-003	0.7632	0.2169	8.9000e-003	0.2258		3,020.9954	3,020.9954	0.2206		3,026.5105
Worker	2.3732	1.2646	19.0225	0.0725	8.6403	0.0530	8.6933	2.2915	0.0488	2.3402		7,232.5206	7,232.5206	0.1303		7,235.7778
Total	**2.5908**	**9.0705**	**21.6719**	**0.1001**	**9.3942**	**0.0623**	**9.4565**	**2.5084**	**0.0577**	**2.5660**		**10,253.5161**	**10,253.5161**	**0.3509**		**10,262.2883**

3.6 Building Construction - 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					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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
Vendor	0.2121	7.7048	2.6189	0.0274	0.7539	9.1300e-003	0.7630	0.2169	8.7300e-003	0.2257		3,002.2708	3,002.2708	0.2177		3,007.7134
Worker	2.2675	1.1599	17.7581	0.0696	8.6403	0.0523	8.6926	2.2915	0.0482	2.3396		6,940.0751	6,940.0751	0.1192		6,943.0543
Total	**2.4796**	**8.8648**	**20.3770**	**0.0969**	**9.3942**	**0.0615**	**9.4556**	**2.5084**	**0.0569**	**2.5653**		**9,942.3459**	**9,942.3459**	**0.3369**		**9,950.7676**

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	0.0270		0.4518	0.4518		0.4518	0.4518	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.6739**	**14.2261**	**17.8738**	**0.0270**		**0.4518**	**0.4518**		**0.4518**	**0.4518**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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
Vendor	0.2121	7.7048	2.6189	0.0274	0.7539	9.1300e-003	0.7630	0.2169	8.7300e-003	0.2257		3,002.2708	3,002.2708	0.2177		3,007.7134
Worker	2.2675	1.1599	17.7581	0.0696	8.6403	0.0523	8.6926	2.2915	0.0482	2.3396		6,940.0751	6,940.0751	0.1192		6,943.0543
Total	**2.4796**	**8.8648**	**20.3770**	**0.0969**	**9.3942**	**0.0615**	**9.4556**	**2.5084**	**0.0569**	**2.5653**		**9,942.3459**	**9,942.3459**	**0.3369**		**9,950.7676**

3.6 Building Construction - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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
Vendor	0.2071	7.6039	2.5986	0.0272	0.7539	8.9200e-003	0.7628	0.2169	8.5300e-003	0.2255		2,984.2959	2,984.2959	0.2149		2,989.6674
Worker	2.1755	1.0709	16.6769	0.0670	8.6403	0.0508	8.6911	2.2915	0.0467	2.3382		6,689.0628	6,689.0628	0.1096		6,691.8018
Total	**2.3826**	**8.6748**	**19.2756**	**0.0942**	**9.3942**	**0.0597**	**9.4539**	**2.5084**	**0.0552**	**2.5636**		**9,673.3587**	**9,673.3587**	**0.3244**		**9,681.4691**

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	0.0270		0.4518	0.4518		0.4518	0.4518	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

Total	**0.6739**	**14.2261**	**17.8738**	**0.0270**		**0.4518**	**0.4518**		**0.4518**	**0.4518**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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
Vendor	0.2071	7.6039	2.5986	0.0272	0.7539	8.9200e-003	0.7628	0.2169	8.5300e-003	0.2255		2,984.2959	2,984.2959	0.2149		2,989.6674
Worker	2.1755	1.0709	16.6769	0.0670	8.6403	0.0508	8.6911	2.2915	0.0467	2.3382		6,689.0628	6,689.0628	0.1096		6,691.8018
Total	**2.3826**	**8.6748**	**19.2756**	**0.0942**	**9.3942**	**0.0597**	**9.4539**	**2.5084**	**0.0552**	**2.5636**		**9,673.3587**	**9,673.3587**	**0.3244**		**9,681.4691**

3.7 Paving - 2026

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9152**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

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
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
Worker	0.0422	0.0208	0.3236	1.3000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		129.8007	129.8007	2.1300e-003		129.8539
Total	**0.0422**	**0.0208**	**0.3236**	**1.3000e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**129.8007**	**129.8007**	**2.1300e-003**		**129.8539**

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	0.5609	11.2952	17.2957	0.0228		0.3047	0.3047		0.3047	0.3047	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5609**	**11.2952**	**17.2957**	**0.0228**		**0.3047**	**0.3047**		**0.3047**	**0.3047**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

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
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
Worker	0.0422	0.0208	0.3236	1.3000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		129.8007	129.8007	2.1300e-003		129.8539
Total	**0.0422**	**0.0208**	**0.3236**	**1.3000e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**129.8007**	**129.8007**	**2.1300e-003**		**129.8539**

3.8 Architectural Coating - 2026

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	104.1576					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**104.3284**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

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
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
Worker	0.6389	0.3145	4.8974	0.0197	2.5373	0.0149	2.5522	0.6729	0.0137	0.6866		1,964.3173	1,964.3173	0.0322		1,965.1216
Total	**0.6389**	**0.3145**	**4.8974**	**0.0197**	**2.5373**	**0.0149**	**2.5522**	**0.6729**	**0.0137**	**0.6866**		**1,964.3173**	**1,964.3173**	**0.0322**		**1,965.1216**

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	104.1576					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**104.2170**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0475**	**0.0475**		**0.0475**	**0.0475**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

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

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
Worker	0.6389	0.3145	4.8974	0.0197	2.5373	0.0149	2.5522	0.6729	0.0137	0.6866		1,964.3173	1,964.3173	0.0322		1,965.1216
Total	**0.6389**	**0.3145**	**4.8974**	**0.0197**	**2.5373**	**0.0149**	**2.5522**	**0.6729**	**0.0137**	**0.6866**		**1,964.3173**	**1,964.3173**	**0.0322**		**1,965.1216**

3.8 Architectural Coating - 2027

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	104.1576					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**104.3284**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

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
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
Worker	0.6123	0.2913	4.6190	0.0190	2.5373	0.0141	2.5514	0.6729	0.0130	0.6859		1,900.1926	1,900.1926	0.0297		1,900.9345

Total	**0.6123**	**0.2913**	**4.6190**	**0.0190**	**2.5373**	**0.0141**	**2.5514**	**0.6729**	**0.0130**	**0.6859**		**1,900.1926**	**1,900.1926**	**0.0297**		**1,900.9345**

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	104.1576					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**104.2170**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0475**	**0.0475**		**0.0475**	**0.0475**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

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
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
Worker	0.6123	0.2913	4.6190	0.0190	2.5373	0.0141	2.5514	0.6729	0.0130	0.6859		1,900.1926	1,900.1926	0.0297		1,900.9345
Total	**0.6123**	**0.2913**	**4.6190**	**0.0190**	**2.5373**	**0.0141**	**2.5514**	**0.6729**	**0.0130**	**0.6859**		**1,900.1926**	**1,900.1926**	**0.0297**		**1,900.9345**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Implement NEV Network

	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	7.5462	27.1911	81.9672	0.3417	35.7731	0.2389	36.0121	9.5655	0.2214	9.7868		34,897.8524	34,897.8524	1.3504		34,931.6112
Unmitigated	8.6467	31.8606	111.9934	0.4905	52.4095	0.3321	52.7415	14.0139	0.3078	14.3217		50,056.5691	50,056.5691	1.8700		50,103.3200

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	1.19	14.37	10.57	12,698	8,667
Condo/Townhouse High Rise	6,394.85	6,595.68	5242.72	21,387,783	14,598,659
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	219.25	49.00	20.75	536,603	366,269
Library	38.91	32.21	17.64	88,146	60,166
Supermarket	576.60	1,001.58	938.70	909,168	620,571

Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,230.80	7,692.83	6,230.38	22,934,398	15,654,332

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Condo/Townhouse High Rise	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Enclosed Parking with Elevator	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
General Office Building	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Library	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Supermarket	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Unenclosed Parking with Elevator	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818

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	0.3682	3.1526	1.3842	0.0201		0.2544	0.2544		0.2544	0.2544		4,016.7527	4,016.7527	0.0770	0.0736	4,040.6222
NaturalGas Unmitigated	0.3682	3.1526	1.3842	0.0201		0.2544	0.2544		0.2544	0.2544		4,016.7527	4,016.7527	0.0770	0.0736	4,040.6222

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
Condo/Townhouse High Rise	33092.7	0.3569	3.0497	1.2978	0.0195		0.2466	0.2466		0.2466	0.2466		3,893.2555	3,893.2555	0.0746	0.0714	3,916.3912
Enclosed Parking with Elevator	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
General Office Building	626.027	6.7500e-003	0.0614	0.0516	3.7000e-004		4.6600e-003	4.6600e-003		4.6600e-003	4.6600e-003		73.6503	73.6503	1.4100e-003	1.3500e-003	74.0880
Library	85.8904	9.3000e-004	8.4200e-003	7.0700e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.1048	10.1048	1.9000e-004	1.9000e-004	10.1648
Supermarket	337.808	3.6400e-003	0.0331	0.0278	2.0000e-004		2.5200e-003	2.5200e-003		2.5200e-003	2.5200e-003		39.7421	39.7421	7.6000e-004	7.3000e-004	39.9783
Unenclosed Parking with Elevator	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		**0.3682**	**3.1526**	**1.3842**	**0.0201**		**0.2544**	**0.2544**		**0.2544**	**0.2544**		**4,016.7527**	**4,016.7527**	**0.0770**	**0.0737**	**4,040.6222**

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
Condo/Townhouse High Rise	33.0927	0.3569	3.0497	1.2978	0.0195		0.2466	0.2466		0.2466	0.2466		3,893.2555	3,893.2555	0.0746	0.0714	3,916.3912
Enclosed Parking with Elevator	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
General Office Building	0.626027	6.7500e-003	0.0614	0.0516	3.7000e-004		4.6600e-003	4.6600e-003		4.6600e-003	4.6600e-003		73.6503	73.6503	1.4100e-003	1.3500e-003	74.0880
Library	0.0858904	9.3000e-004	8.4200e-003	7.0700e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.1048	10.1048	1.9000e-004	1.9000e-004	10.1648
Supermarket	0.337808	3.6400e-003	0.0331	0.0278	2.0000e-004		2.5200e-003	2.5200e-003		2.5200e-003	2.5200e-003		39.7421	39.7421	7.6000e-004	7.3000e-004	39.9783
Unenclosed Parking with Elevator	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		**0.3682**	**3.1526**	**1.3842**	**0.0201**		**0.2544**	**0.2544**		**0.2544**	**0.2544**		**4,016.7527**	**4,016.7527**	**0.0770**	**0.0737**	**4,040.6222**

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	26.3738	1.0054	87.3258	4.6200e-003		0.4841	0.4841		0.4841	0.4841	0.0000	157.4595	157.4595	0.1515	0.0000	161.2472
Unmitigated	26.3738	1.0054	87.3258	4.6200e-003		0.4841	0.4841		0.4841	0.4841	0.0000	157.4595	157.4595	0.1515	0.0000	161.2472

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	1.8834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.8557					0.0000	0.0000		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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6346	1.0054	87.3258	4.6200e-003		0.4841	0.4841		0.4841	0.4841		157.4595	157.4595	0.1515		161.2472
Total	**26.3738**	**1.0054**	**87.3258**	**4.6200e-003**		**0.4841**	**0.4841**		**0.4841**	**0.4841**	**0.0000**	**157.4595**	**157.4595**	**0.1515**	**0.0000**	**161.2472**

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	1.8834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.8557					0.0000	0.0000		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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6346	1.0054	87.3258	4.6200e-003		0.4841	0.4841		0.4841	0.4841		157.4595	157.4595	0.1515		161.2472
Total	**26.3738**	**1.0054**	**87.3258**	**4.6200e-003**		**0.4841**	**0.4841**		**0.4841**	**0.4841**	**0.0000**	**157.4595**	**157.4595**	**0.1515**	**0.0000**	**161.2472**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

One Metro West - Orange County, Winter

One Metro West

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	25.00	1000sqft	0.57	25,000.00	0
Library	1.50	1000sqft	0.03	1,500.00	0
Enclosed Parking with Elevator	1,196.00	Space	0.00	478,400.00	0
Unenclosed Parking with Elevator	779.00	Space	2.97	311,600.00	0
City Park	1.70	Acre	1.70	74,052.00	0
Condo/Townhouse High Rise	1,057.00	Dwelling Unit	9.82	1,057,000.00	2897
Supermarket	6.00	1000sqft	0.14	6,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total site is 15.23 net acres, there would be two levels of enclosed subterranean parking. Library represents the Community Center. The population amount was set to match the US Census data.

Construction Phase - Schedule based on start date of Jan. 2022, completion in Jan. 2027. The default CalEEMod schedule phase durations were proportioned to achieve the 5 year duration.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - This equipment would be shared with the Demolition-Parking Lot phase.

Off-road Equipment -

Off-road Equipment - Equipment per project plans.

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Corrected the Building Construction worker & vendor trips per day per CalEEMod documentation. All asphalt demolishion material will be recycled onsite.

Demolition - From project plans. 343,300 sf of building and 178,000sf of asphalt parking lot will be demolished. Calrecycle asphalt factor-0.61 tons/CY

Grading - For 15 acre site, assume "total acres graded" would be the total area disturbed up to twice in any one day.

Architectural Coating - Assume all architectural coatings compliant with SCAQMD Rule 1113.

Vehicle Trips - Weekday trip rates from project traffic study for the peak day, weekend rates proportioned from the CalEEMod defaults. The Community Center is represented by the Library land use.

Woodstoves - No residences have a woodstove or fireplace per project plans.

Area Coating - Assume all architectural coatings compliant with SCAQMD Rule 1113.

Sequestration - Estimated the number of trees from the site plan.

Construction Off-road Equipment Mitigation - Dust control measures as required by SCAQMD Rule 403. Assume all equipment would be at least EPA Tier 3 and have Level 3 DPF.

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation - Project plans specify a 20% indoor water use reduction, the outdoor reduction estimated based on planned features.

Waste Mitigation -

Operational Off-Road Equipment -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50

tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
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tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	DPF	No Change	Level 2
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00

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
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	300.00	990.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	30.00	99.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	10.00	33.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	898.45	0.00
tblFireplaces	NumberNoFireplace	105.70	1,057.00
tblFireplaces	NumberWood	52.85	0.00
tblGrading	AcresOfGrading	49.50	30.00
tblGrading	MaterialExported	0.00	194,000.00
tblGrading	MaterialImported	0.00	91,400.00

tblLandUse	LotAcreage	10.76	0.00
tblLandUse	LotAcreage	7.01	2.97
tblLandUse	LotAcreage	16.52	9.82
tblLandUse	Population	3,023.00	2,897.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSequestration	NumberOfNewTrees	0.00	50.00
tblTripsAndVMT	VendorTripNumber	260.00	118.00
tblTripsAndVMT	WorkerTripNumber	1,134.00	773.00
tblVehicleTrips	ST_TR	22.75	8.45
tblVehicleTrips	ST_TR	4.31	6.24
tblVehicleTrips	ST_TR	2.46	1.96
tblVehicleTrips	ST_TR	46.55	21.47
tblVehicleTrips	ST_TR	177.59	166.93
tblVehicleTrips	SU_TR	16.74	6.22
tblVehicleTrips	SU_TR	3.43	4.96
tblVehicleTrips	SU_TR	1.05	0.83
tblVehicleTrips	SU_TR	25.49	11.76
tblVehicleTrips	SU_TR	166.44	156.45
tblVehicleTrips	WD_TR	1.89	0.70
tblVehicleTrips	WD_TR	4.18	6.05
tblVehicleTrips	WD_TR	11.03	8.77
tblVehicleTrips	WD_TR	56.24	25.94
tblVehicleTrips	WD_TR	102.24	96.10
tblWoodstoves	NumberCatalytic	52.85	0.00
tblWoodstoves	NumberNoncatalytic	52.85	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	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					
2022	5.5813	78.8279	43.9319	0.2123	18.2675	2.5062	19.8813	9.9840	2.3304	11.4688	0.0000	23,272.1008	23,272.1008	3.1537	0.0000	23,350.9420
2023	4.6524	23.7695	37.9609	0.1256	9.3942	0.7637	10.1579	2.5084	0.7177	3.2261	0.0000	12,654.8433	12,654.8433	0.9766	0.0000	12,679.2584
2024	4.4110	22.5945	36.5036	0.1225	9.3942	0.6761	10.0703	2.5084	0.6351	3.1434	0.0000	12,349.6998	12,349.6998	0.9566	0.0000	12,373.6154
2025	4.1877	21.4052	35.2120	0.1195	9.3942	0.5895	9.9837	2.5084	0.5536	3.0620	0.0000	12,056.2236	12,056.2236	0.9393	0.0000	12,079.7057
2026	105.0625	21.2070	34.1826	0.1170	9.3942	0.5877	9.9818	2.5084	0.5519	3.0603	0.0000	11,801.7052	11,801.7052	0.9269	0.0000	11,824.8775
2027	105.0338	1.4654	6.0444	0.0210	2.5373	0.0656	2.6029	0.6729	0.0645	0.7374	0.0000	2,080.1832	2,080.1832	0.0433	0.0000	2,081.2660
Maximum	**105.0625**	**78.8279**	**43.9319**	**0.2123**	**18.2675**	**2.5062**	**19.8813**	**9.9840**	**2.3304**	**11.4688**	**0.0000**	**23,272.1008**	**23,272.1008**	**3.1537**	**0.0000**	**23,350.9420**

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					
2022	3.9778	73.4335	52.0915	0.2123	9.3942	0.8836	9.9216	3.9263	0.8826	4.4006	0.0000	23,272.1008	23,272.1008	3.1537	0.0000	23,350.9420
2023	3.7536	23.6107	39.5907	0.1256	9.3942	0.5158	9.9100	2.5084	0.5111	3.0194	0.0000	12,654.8433	12,654.8433	0.9766	0.0000	12,679.2584
2024	3.6133	23.3768	38.2105	0.1225	9.3942	0.5146	9.9088	2.5084	0.5099	3.0183	0.0000	12,349.6998	12,349.6998	0.9566	0.0000	12,373.6154

2025	3.4942	23.1616	37.0011	0.1195	9.3942	0.5137	9.9079	2.5084	0.5091	3.0175	0.0000	12,056.2236	12,056.2236	0.9393	0.0000	12,079.7057
2026	104.9511	22.9634	35.9717	0.1170	9.3942	0.5119	9.9060	2.5084	0.5074	3.0158	0.0000	11,801.7052	11,801.7052	0.9269	0.0000	11,824.8775
2027	104.9224	1.6768	6.0677	0.0210	2.5373	0.0617	2.5990	0.6729	0.0605	0.7334	0.0000	2,080.1832	2,080.1832	0.0433	0.0000	2,081.2660
Maximum	**104.9511**	**73.4335**	**52.0915**	**0.2123**	**9.3942**	**0.8836**	**9.9216**	**3.9263**	**0.8826**	**4.4006**	**0.0000**	**23,272.1008**	**23,272.1008**	**3.1537**	**0.0000**	**23,350.9420**

	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	**1.84**	**0.62**	**-7.79**	**0.00**	**15.20**	**42.16**	**16.79**	**29.28**	**38.58**	**30.34**	**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	26.3738	1.0054	87.3258	4.6200e-003		0.4841	0.4841		0.4841	0.4841	0.0000	157.4595	157.4595	0.1515	0.0000	161.2472
Energy	0.3682	3.1526	1.3842	0.0201		0.2544	0.2544		0.2544	0.2544		4,016.7527	4,016.7527	0.0770	0.0736	4,040.6222
Mobile	8.4786	32.5604	107.0665	0.4692	52.4095	0.3330	52.7425	14.0139	0.3087	14.3226		47,915.9701	47,915.9701	1.8699		47,962.7171
Total	**35.2205**	**36.7184**	**195.7765**	**0.4939**	**52.4095**	**1.0715**	**53.4810**	**14.0139**	**1.0472**	**15.0611**	**0.0000**	**52,090.1823**	**52,090.1823**	**2.0984**	**0.0736**	**52,164.5865**

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	26.3738	1.0054	87.3258	4.6200e-003		0.4841	0.4841		0.4841	0.4841	0.0000	157.4595	157.4595	0.1515	0.0000	161.2472
Energy	0.3682	3.1526	1.3842	0.0201		0.2544	0.2544		0.2544	0.2544		4,016.7527	4,016.7527	0.0770	0.0736	4,040.6222
Mobile	7.3934	27.6021	79.5383	0.3267	35.7731	0.2398	36.0130	9.5655	0.2223	9.7877		33,379.7741	33,379.7741	1.3591		33,413.7509
Total	**34.1353**	**31.7601**	**168.2483**	**0.3514**	**35.7731**	**0.9784**	**36.7515**	**9.5655**	**0.9608**	**10.5263**	**0.0000**	**37,553.9863**	**37,553.9863**	**1.5876**	**0.0736**	**37,615.6204**

	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	**3.08**	**13.50**	**14.06**	**28.86**	**31.74**	**8.69**	**31.28**	**31.74**	**8.25**	**30.11**	**0.00**	**27.91**	**27.91**	**24.34**	**0.00**	**27.89**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition-Building	Demolition	1/3/2022	4/4/2022	5	66	
2	Demolition-Parking Lot	Demolition	1/3/2022	4/4/2022	5	66	
3	Site Preparation	Site Preparation	4/5/2022	5/19/2022	5	33	
4	Grading	Grading	5/20/2022	10/5/2022	5	99	
5	Building Construction	Building Construction	10/6/2022	7/22/2026	5	990	
6	Paving	Paving	7/23/2026	10/22/2026	5	66	
7	Architectural Coating	Architectural Coating	10/23/2026	1/22/2027	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 30

Acres of Paving: 2.97

Residential Indoor: 2,140,425; Residential Outdoor: 713,475; Non-Residential Indoor: 48,750; Non-Residential Outdoor: 16,250; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition-Building	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition-Building	Excavators	3	8.00	158	0.38
Demolition-Building	Rubber Tired Dozers	2	8.00	247	0.40
Demolition-Parking Lot	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition-Parking Lot	Excavators	3	8.00	158	0.38
Demolition-Parking Lot	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	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
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
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

Demolition-Building	6	15.00	0.00	1,561.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition-Parking Lot	6	15.00	0.00	199.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	24,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	773.00	118.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	227.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition-Building - 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					
Fugitive Dust					5.1201	0.0000	5.1201	0.7752	0.0000	0.7752			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**5.1201**	**1.2427**	**6.3628**	**0.7752**	**1.1553**	**1.9305**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

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	0.1657	5.5847	1.7386	0.0173	0.4118	0.0166	0.4284	0.1127	0.0159	0.1286		1,936.6794	1,936.6794	0.2083		1,941.8876
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
Worker	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
Total	**0.2238**	**5.6173**	**2.1304**	**0.0187**	**0.5794**	**0.0177**	**0.5971**	**0.1572**	**0.0169**	**0.1741**		**2,080.5262**	**2,080.5262**	**0.2112**		**2,085.8070**

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					1.9969	0.0000	1.9969	0.3023	0.0000	0.3023			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.4314	0.4314		0.4314	0.4314	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**0.9246**	**18.3130**	**24.6739**	**0.0388**	**1.9969**	**0.4314**	**2.4282**	**0.3023**	**0.4314**	**0.7337**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

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	0.1657	5.5847	1.7386	0.0173	0.4118	0.0166	0.4284	0.1127	0.0159	0.1286		1,936.6794	1,936.6794	0.2083		1,941.8876
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
Worker	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
Total	**0.2238**	**5.6173**	**2.1304**	**0.0187**	**0.5794**	**0.0177**	**0.5971**	**0.1572**	**0.0169**	**0.1741**		**2,080.5262**	**2,080.5262**	**0.2112**		**2,085.8070**

3.3 Demolition-Parking Lot - 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				
Fugitive Dust					0.6520	0.0000	0.6520	0.0987	0.0000	0.0987			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**0.6520**	**1.2427**	**1.8947**	**0.0987**	**1.1553**	**1.2540**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

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	0.0211	0.7120	0.2216	2.2100e-003	0.0525	2.1200e-003	0.0546	0.0144	2.0300e-003	0.0164		246.8925	246.8925	0.0266		247.5565

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
Worker	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
Total	**0.0792**	**0.7446**	**0.6134**	**3.6500e-003**	**0.2202**	**3.1800e-003**	**0.2233**	**0.0588**	**3.0100e-003**	**0.0619**		**390.7393**	**390.7393**	**0.0295**		**391.4758**

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					0.2543	0.0000	0.2543	0.0385	0.0000	0.0385			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.4314	0.4314		0.4314	0.4314	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**0.9246**	**18.3130**	**24.6739**	**0.0388**	**0.2543**	**0.4314**	**0.6857**	**0.0385**	**0.4314**	**0.4699**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

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	0.0211	0.7120	0.2216	2.2100e-003	0.0525	2.1200e-003	0.0546	0.0144	2.0300e-003	0.0164		246.8925	246.8925	0.0266		247.5565
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
Worker	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194

Total	**0.0792**	**0.7446**	**0.6134**	**3.6500e-003**	**0.2202**	**3.1800e-003**	**0.2233**	**0.0588**	**3.0100e-003**	**0.0619**		**390.7393**	**390.7393**	**0.0295**		**391.4758**

3.4 Site Preparation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**18.0663**	**1.6126**	**19.6788**	**9.9307**	**1.4836**	**11.4143**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

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
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
Worker	0.0697	0.0391	0.4701	1.7300e-003	0.2012	1.2800e-003	0.2025	0.0534	1.1800e-003	0.0545		172.6162	172.6162	3.4800e-003		172.7033
Total	**0.0697**	**0.0391**	**0.4701**	**1.7300e-003**	**0.2012**	**1.2800e-003**	**0.2025**	**0.0534**	**1.1800e-003**	**0.0545**		**172.6162**	**172.6162**	**3.4800e-003**		**172.7033**

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.4731	0.4731		0.4731	0.4731	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**0.9312**	**19.0656**	**22.9600**	**0.0380**	**7.0458**	**0.4731**	**7.5189**	**3.8730**	**0.4731**	**4.3461**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

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
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
Worker	0.0697	0.0391	0.4701	1.7300e-003	0.2012	1.2800e-003	0.2025	0.0534	1.1800e-003	0.0545		172.6162	172.6162	3.4800e-003		172.7033
Total	**0.0697**	**0.0391**	**0.4701**	**1.7300e-003**	**0.2012**	**1.2800e-003**	**0.2025**	**0.0534**	**1.1800e-003**	**0.0545**		**172.6162**	**172.6162**	**3.4800e-003**		**172.7033**

3.5 Grading - 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					
Fugitive Dust					6.6695	0.0000	6.6695	3.3943	0.0000	3.3943			0.0000			0.0000
Off-Road	1.9864	20.9565	16.2899	0.0317		0.9366	0.9366		0.8617	0.8617		3,070.8227	3,070.8227	0.9932		3,095.6519
Total	**1.9864**	**20.9565**	**16.2899**	**0.0317**	**6.6695**	**0.9366**	**7.6061**	**3.3943**	**0.8617**	**4.2560**		**3,070.8227**	**3,070.8227**	**0.9932**		**3,095.6519**

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	1.7157	57.8388	18.0061	0.1792	4.2644	0.1723	4.4367	1.1674	0.1648	1.3321		20,057.4313	20,057.4313	2.1576		20,111.3708
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
Worker	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
Total	**1.7738**	**57.8714**	**18.3979**	**0.1806**	**4.4321**	**0.1733**	**4.6054**	**1.2118**	**0.1658**	**1.3776**		**20,201.2781**	**20,201.2781**	**2.1605**		**20,255.2901**

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					2.6011	0.0000	2.6011	1.3238	0.0000	1.3238			0.0000			0.0000
Off-Road	0.7774	15.5621	20.5666	0.0317		0.3763	0.3763		0.3763	0.3763	0.0000	3,070.8227	3,070.8227	0.9932		3,095.6519
Total	**0.7774**	**15.5621**	**20.5666**	**0.0317**	**2.6011**	**0.3763**	**2.9774**	**1.3238**	**0.3763**	**1.7001**	**0.0000**	**3,070.8227**	**3,070.8227**	**0.9932**		**3,095.6519**

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	1.7157	57.8388	18.0061	0.1792	4.2644	0.1723	4.4367	1.1674	0.1648	1.3321		20,057.4313	20,057.4313	2.1576		20,111.3708
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
Worker	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
Total	**1.7738**	**57.8714**	**18.3979**	**0.1806**	**4.4321**	**0.1733**	**4.6054**	**1.2118**	**0.1658**	**1.3776**		**20,201.2781**	**20,201.2781**	**2.1605**		**20,255.2901**

3.6 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		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

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
Vendor	0.3108	10.4412	3.1758	0.0281	0.7539	0.0208	0.7747	0.2170	0.0199	0.2368		3,063.1536	3,063.1536	0.2522		3,069.4590
Worker	2.9931	1.6804	20.1892	0.0743	8.6403	0.0548	8.6952	2.2915	0.0505	2.3419		7,412.9059	7,412.9059	0.1496		7,416.6456
Total	**3.3039**	**12.1216**	**23.3649**	**0.1024**	**9.3942**	**0.0756**	**9.4698**	**2.5084**	**0.0704**	**2.5788**		**10,476.0595**	**10,476.0595**	**0.4018**		**10,486.1046**

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		0.4518	0.4518		0.4518	0.4518	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.4518**	**0.4518**		**0.4518**	**0.4518**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

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
Vendor	0.3108	10.4412	3.1758	0.0281	0.7539	0.0208	0.7747	0.2170	0.0199	0.2368		3,063.1536	3,063.1536	0.2522		3,069.4590
Worker	2.9931	1.6804	20.1892	0.0743	8.6403	0.0548	8.6952	2.2915	0.0505	2.3419		7,412.9059	7,412.9059	0.1496		7,416.6456
Total	**3.3039**	**12.1216**	**23.3649**	**0.1024**	**9.3942**	**0.0756**	**9.4698**	**2.5084**	**0.0704**	**2.5788**		**10,476.0595**	**10,476.0595**	**0.4018**		**10,486.1046**

3.6 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		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

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
Vendor	0.2367	7.8593	2.9183	0.0272	0.7539	0.0101	0.7640	0.2169	9.6600e-003	0.2266		2,971.3492	2,971.3492	0.2332		2,977.1793
Worker	2.8430	1.5253	18.7987	0.0715	8.6403	0.0539	8.6942	2.2915	0.0496	2.3411		7,128.2842	7,128.2842	0.1356		7,131.6731
Total	**3.0797**	**9.3846**	**21.7169**	**0.0986**	**9.3942**	**0.0640**	**9.4582**	**2.5084**	**0.0593**	**2.5677**		**10,099.6334**	**10,099.6334**	**0.3688**		**10,108.8524**

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		0.4518	0.4518		0.4518	0.4518	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.4518**	**0.4518**		**0.4518**	**0.4518**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

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
Vendor	0.2367	7.8593	2.9183	0.0272	0.7539	0.0101	0.7640	0.2169	9.6600e-003	0.2266		2,971.3492	2,971.3492	0.2332		2,977.1793
Worker	2.8430	1.5253	18.7987	0.0715	8.6403	0.0539	8.6942	2.2915	0.0496	2.3411		7,128.2842	7,128.2842	0.1356		7,131.6731
Total	**3.0797**	**9.3846**	**21.7169**	**0.0986**	**9.3942**	**0.0640**	**9.4582**	**2.5084**	**0.0593**	**2.5677**		**10,099.6334**	**10,099.6334**	**0.3688**		**10,108.8524**

3.6 Building Construction - 2024

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

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
Vendor	0.2286	7.7619	2.8557	0.0269	0.7539	9.8400e-003	0.7637	0.2169	9.4000e-003	0.2263		2,948.1113	2,948.1113	0.2293		2,953.8439

Worker	2.7108	1.3888	17.4811	0.0686	8.6403	0.0530	8.6933	2.2915	0.0488	2.3402		6,845.8896	6,845.8896	0.1230		6,848.9639
Total	**2.9394**	**9.1507**	**20.3368**	**0.0955**	**9.3942**	**0.0628**	**9.4570**	**2.5084**	**0.0582**	**2.5665**		**9,794.0009**	**9,794.0009**	**0.3523**		**9,802.8078**

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	0.0270		0.4518	0.4518		0.4518	0.4518	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**0.6739**	**14.2261**	**17.8738**	**0.0270**		**0.4518**	**0.4518**		**0.4518**	**0.4518**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

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
Vendor	0.2286	7.7619	2.8557	0.0269	0.7539	9.8400e-003	0.7637	0.2169	9.4000e-003	0.2263		2,948.1113	2,948.1113	0.2293		2,953.8439
Worker	2.7108	1.3888	17.4811	0.0686	8.6403	0.0530	8.6933	2.2915	0.0488	2.3402		6,845.8896	6,845.8896	0.1230		6,848.9639
Total	**2.9394**	**9.1507**	**20.3368**	**0.0955**	**9.3942**	**0.0628**	**9.4570**	**2.5084**	**0.0582**	**2.5665**		**9,794.0009**	**9,794.0009**	**0.3523**		**9,802.8078**

3.6 Building Construction - 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					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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
Vendor	0.2226	7.6618	2.8197	0.0267	0.7539	9.5900e-003	0.7635	0.2169	9.1700e-003	0.2261		2,930.3452	2,930.3452	0.2259		2,935.9933
Worker	2.5976	1.2737	16.3076	0.0658	8.6403	0.0523	8.6926	2.2915	0.0482	2.3396		6,569.4040	6,569.4040	0.1124		6,572.2143
Total	**2.8203**	**8.9355**	**19.1273**	**0.0926**	**9.3942**	**0.0619**	**9.4561**	**2.5084**	**0.0573**	**2.5657**		**9,499.7492**	**9,499.7492**	**0.3383**		**9,508.2076**

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	0.0270		0.4518	0.4518		0.4518	0.4518	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.6739**	**14.2261**	**17.8738**	**0.0270**		**0.4518**	**0.4518**		**0.4518**	**0.4518**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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
Vendor	0.2226	7.6618	2.8197	0.0267	0.7539	9.5900e-003	0.7635	0.2169	9.1700e-003	0.2261		2,930.3452	2,930.3452	0.2259		2,935.9933
Worker	2.5976	1.2737	16.3076	0.0658	8.6403	0.0523	8.6926	2.2915	0.0482	2.3396		6,569.4040	6,569.4040	0.1124		6,572.2143
Total	**2.8203**	**8.9355**	**19.1273**	**0.0926**	**9.3942**	**0.0619**	**9.4561**	**2.5084**	**0.0573**	**2.5657**		**9,499.7492**	**9,499.7492**	**0.3383**		**9,508.2076**

3.6 Building Construction - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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
Vendor	0.2173	7.5615	2.7948	0.0266	0.7539	9.3300e-003	0.7632	0.2169	8.9200e-003	0.2259		2,913.2880	2,913.2880	0.2227		2,918.8543
Worker	2.4998	1.1758	15.3031	0.0634	8.6403	0.0508	8.6911	2.2915	0.0467	2.3382		6,331.9429	6,331.9429	0.1033		6,334.5251
Total	**2.7172**	**8.7373**	**18.0979**	**0.0900**	**9.3942**	**0.0601**	**9.4543**	**2.5084**	**0.0556**	**2.5640**		**9,245.2309**	**9,245.2309**	**0.3259**		**9,253.3794**

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	0.0270		0.4518	0.4518		0.4518	0.4518	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

Total	**0.6739**	**14.2261**	**17.8738**	**0.0270**		**0.4518**	**0.4518**		**0.4518**	**0.4518**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

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
Vendor	0.2173	7.5615	2.7948	0.0266	0.7539	9.3300e-003	0.7632	0.2169	8.9200e-003	0.2259		2,913.2880	2,913.2880	0.2227		2,918.8543
Worker	2.4998	1.1758	15.3031	0.0634	8.6403	0.0508	8.6911	2.2915	0.0467	2.3382		6,331.9429	6,331.9429	0.1033		6,334.5251
Total	**2.7172**	**8.7373**	**18.0979**	**0.0900**	**9.3942**	**0.0601**	**9.4543**	**2.5084**	**0.0556**	**2.5640**		**9,245.2309**	**9,245.2309**	**0.3259**		**9,253.3794**

3.7 Paving - 2026

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9152**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

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
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
Worker	0.0485	0.0228	0.2970	1.2300e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		122.8708	122.8708	2.0000e-003		122.9209
Total	**0.0485**	**0.0228**	**0.2970**	**1.2300e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**122.8708**	**122.8708**	**2.0000e-003**		**122.9209**

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	0.5609	11.2952	17.2957	0.0228		0.3047	0.3047		0.3047	0.3047	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5609**	**11.2952**	**17.2957**	**0.0228**		**0.3047**	**0.3047**		**0.3047**	**0.3047**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

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
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
Worker	0.0485	0.0228	0.2970	1.2300e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		122.8708	122.8708	2.0000e-003		122.9209
Total	**0.0485**	**0.0228**	**0.2970**	**1.2300e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**122.8708**	**122.8708**	**2.0000e-003**		**122.9209**

3.8 Architectural Coating - 2026

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	104.1576					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**104.3284**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

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
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
Worker	0.7341	0.3453	4.4939	0.0186	2.5373	0.0149	2.5522	0.6729	0.0137	0.6866		1,859.4451	1,859.4451	0.0303		1,860.2034
Total	**0.7341**	**0.3453**	**4.4939**	**0.0186**	**2.5373**	**0.0149**	**2.5522**	**0.6729**	**0.0137**	**0.6866**		**1,859.4451**	**1,859.4451**	**0.0303**		**1,860.2034**

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	104.1576					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**104.2170**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0475**	**0.0475**		**0.0475**	**0.0475**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

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

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
Worker	0.7341	0.3453	4.4939	0.0186	2.5373	0.0149	2.5522	0.6729	0.0137	0.6866		1,859.4451	1,859.4451	0.0303		1,860.2034
Total	**0.7341**	**0.3453**	**4.4939**	**0.0186**	**2.5373**	**0.0149**	**2.5522**	**0.6729**	**0.0137**	**0.6866**		**1,859.4451**	**1,859.4451**	**0.0303**		**1,860.2034**

3.8 Architectural Coating - 2027

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	104.1576					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**104.3284**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

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
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
Worker	0.7054	0.3199	4.2352	0.0180	2.5373	0.0141	2.5514	0.6729	0.0130	0.6859		1,798.7351	1,798.7351	0.0280		1,799.4342

Total	**0.7054**	**0.3199**	**4.2352**	**0.0180**	**2.5373**	**0.0141**	**2.5514**	**0.6729**	**0.0130**	**0.6859**		**1,798.7351**	**1,798.7351**	**0.0280**		**1,799.4342**

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	104.1576					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0475	0.0475		0.0475	0.0475	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**104.2170**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0475**	**0.0475**		**0.0475**	**0.0475**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

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
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
Worker	0.7054	0.3199	4.2352	0.0180	2.5373	0.0141	2.5514	0.6729	0.0130	0.6859		1,798.7351	1,798.7351	0.0280		1,799.4342
Total	**0.7054**	**0.3199**	**4.2352**	**0.0180**	**2.5373**	**0.0141**	**2.5514**	**0.6729**	**0.0130**	**0.6859**		**1,798.7351**	**1,798.7351**	**0.0280**		**1,799.4342**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Implement NEV Network

	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	7.3934	27.6021	79.5383	0.3267	35.7731	0.2398	36.0130	9.5655	0.2223	9.7877		33,379.7741	33,379.7741	1.3591		33,413.7509
Unmitigated	8.4786	32.5604	107.0665	0.4692	52.4095	0.3330	52.7425	14.0139	0.3087	14.3226		47,915.9701	47,915.9701	1.8699		47,962.7171

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	1.19	14.37	10.57	12,698	8,667
Condo/Townhouse High Rise	6,394.85	6,595.68	5242.72	21,387,783	14,598,659
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	219.25	49.00	20.75	536,603	366,269
Library	38.91	32.21	17.64	88,146	60,166
Supermarket	576.60	1,001.58	938.70	909,168	620,571

Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	7,230.80	7,692.83	6,230.38	22,934,398	15,654,332

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Condo/Townhouse High Rise	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Enclosed Parking with Elevator	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
General Office Building	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Library	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Supermarket	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818
Unenclosed Parking with Elevator	0.568711	0.042557	0.209419	0.105092	0.013499	0.005762	0.026536	0.018711	0.001838	0.001461	0.004981	0.000615	0.000818

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	0.3682	3.1526	1.3842	0.0201		0.2544	0.2544		0.2544	0.2544		4,016.7527	4,016.7527	0.0770	0.0736	4,040.6222
NaturalGas Unmitigated	0.3682	3.1526	1.3842	0.0201		0.2544	0.2544		0.2544	0.2544		4,016.7527	4,016.7527	0.0770	0.0736	4,040.6222

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
Condo/Townhouse High Rise	33092.7	0.3569	3.0497	1.2978	0.0195		0.2466	0.2466		0.2466	0.2466		3,893.2555	3,893.2555	0.0746	0.0714	3,916.3912
Enclosed Parking with Elevator	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
General Office Building	626.027	6.7500e-003	0.0614	0.0516	3.7000e-004		4.6600e-003	4.6600e-003		4.6600e-003	4.6600e-003		73.6503	73.6503	1.4100e-003	1.3500e-003	74.0880
Library	85.8904	9.3000e-004	8.4200e-003	7.0700e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.1048	10.1048	1.9000e-004	1.9000e-004	10.1648
Supermarket	337.808	3.6400e-003	0.0331	0.0278	2.0000e-004		2.5200e-003	2.5200e-003		2.5200e-003	2.5200e-003		39.7421	39.7421	7.6000e-004	7.3000e-004	39.9783
Unenclosed Parking with Elevator	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		**0.3682**	**3.1526**	**1.3842**	**0.0201**		**0.2544**	**0.2544**		**0.2544**	**0.2544**		**4,016.7527**	**4,016.7527**	**0.0770**	**0.0737**	**4,040.6222**

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
Condo/Townhouse High Rise	33.0927	0.3569	3.0497	1.2978	0.0195		0.2466	0.2466		0.2466	0.2466		3,893.2555	3,893.2555	0.0746	0.0714	3,916.3912
Enclosed Parking with Elevator	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
General Office Building	0.626027	6.7500e-003	0.0614	0.0516	3.7000e-004		4.6600e-003	4.6600e-003		4.6600e-003	4.6600e-003		73.6503	73.6503	1.4100e-003	1.3500e-003	74.0880
Library	0.0858904	9.3000e-004	8.4200e-003	7.0700e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.1048	10.1048	1.9000e-004	1.9000e-004	10.1648
Supermarket	0.337808	3.6400e-003	0.0331	0.0278	2.0000e-004		2.5200e-003	2.5200e-003		2.5200e-003	2.5200e-003		39.7421	39.7421	7.6000e-004	7.3000e-004	39.9783
Unenclosed Parking with Elevator	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		**0.3682**	**3.1526**	**1.3842**	**0.0201**		**0.2544**	**0.2544**		**0.2544**	**0.2544**		**4,016.7527**	**4,016.7527**	**0.0770**	**0.0737**	**4,040.6222**

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	26.3738	1.0054	87.3258	4.6200e-003		0.4841	0.4841		0.4841	0.4841	0.0000	157.4595	157.4595	0.1515	0.0000	161.2472
Unmitigated	26.3738	1.0054	87.3258	4.6200e-003		0.4841	0.4841		0.4841	0.4841	0.0000	157.4595	157.4595	0.1515	0.0000	161.2472

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	1.8834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.8557					0.0000	0.0000		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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6346	1.0054	87.3258	4.6200e-003		0.4841	0.4841		0.4841	0.4841		157.4595	157.4595	0.1515		161.2472
Total	**26.3738**	**1.0054**	**87.3258**	**4.6200e-003**		**0.4841**	**0.4841**		**0.4841**	**0.4841**	**0.0000**	**157.4595**	**157.4595**	**0.1515**	**0.0000**	**161.2472**

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	1.8834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.8557					0.0000	0.0000		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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6346	1.0054	87.3258	4.6200e-003		0.4841	0.4841		0.4841	0.4841		157.4595	157.4595	0.1515		161.2472
Total	**26.3738**	**1.0054**	**87.3258**	**4.6200e-003**		**0.4841**	**0.4841**		**0.4841**	**0.4841**	**0.0000**	**157.4595**	**157.4595**	**0.1515**	**0.0000**	**161.2472**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

LST WORKSHEET

LST Worksheet
Construction

Table 1: Ambient Pollutant Concentrations Measured at the Costa Mesa & Anaheim Air Monitoring Stations

Pollutant	Standard	2016	2017	2018
CO	Maximum 1-hr concentration (ppm)	2.1	1.7	2.1
CO	Maximum 8-hr concentration (ppm)	1.7	1.4	1.7
NO_2	Maximum 1-hr concentration (ppm)	0.06	0.045	0.066
NO_2	Maximum annual concentration (ppm)	0.010	0.0078	0.0115

Conc. (ppm) = Conc. ($\mu g/m^3$) x pressure (mb) / Temp (k) x molecular wt / 8.314E-2

Conc. (ppm) = Conc. ($\mu g/m^3$) x 1,013.25 mb / 293.15 k x 28 / 8.314E-2 = 1,164.1

MW	
CO	28
NO_2	46

Ambient Pressure (mb)	Ambient Temp (k)
1013.25	293.15

Table 2: Construction Emission Rates from the CalEEMod Modeling

Construction Emissions			PM_{10}		$PM_{2.5}$	
	NO_X	CO	Fugitive	Exhaust	Fugitive	Exhaust
Daily Emissions Rate (lb/day)	**112**	**74**	**16.4**	**2.9**	**6.5**	**2.6**
Annual Emissions Rate (ton/yr)	**7.3**	**5.0**	**0.6**	**0.05**	**0.23**	**0.05**

Unitized concentrations			
Fugitive Dust		Equipment Exhaust	
1-hr		1-hr	7103.60362
8-hr		8-hr	2064.27954
24-hr	33.19	24-hr	1101.65673
annual	21.07	annual	255.27068

Table 3: Construction-Related Pollutant Concentrations

	1-Hr Concentrations		8-Hr Conc.	24-Hr Conc.	24-Hr Conc.	Annual Concentrations		
	NO_2 [1] $\mu g/m^3$	CO $\mu g/m^3$	CO $\mu g/m^3$	PM_{10} $\mu g/m^3$	$PM_{2.5}$ $\mu g/m^3$	NO_2 $\mu g/m^3$	PM_{10} $\mu g/m^3$	$PM_{2.5}$ $\mu g/m^3$
Distance (m)	**at 112 lb/day**	**at 74 lb/day**	**at 74 lb/day**	**at 16.4 lb/day**	**at 9.1 lb/day**	**at 7.28 ton/yr**	**at 0.60 ton/yr**	**at 0.28 ton/yr**
85.3	54.10357666	517.9514685	150.5146791	3.257780642	2.927819985	0.957218465	0.033061941	0.018395855

[1] NOx concentration includes the NO_2 to NOx ratio (Final Localized Significance Threshold Methodology, page 2-8)

Note: Assumes construction equipment operates 8 hours per day.

Note: Number of AERMOD area sources used for fugitive PM_{10} modeling: 1

Note: Number of AERMOD volume sources used for exhaust modeling: 16

Table 2-4. NO2-to-NOx Ratio as a Function of Downwind Distance

Downwind Distance (m)	NO2/NOx Ratio
20	0.053
50	0.059
70	0.064
100	0.074
200	0.114
500	0.258
1000	0.467
2000	0.75
3000	0.9
4000	0.978
5000	1

NO2/NOx Ratio for distance in Table 3: 0.0691147

Table __: Localized Significance Modeling Results

Pollutant	AAQS	Ambient Concentration	Threshold	Maximum Concentration Increase	Over/ (Under)	Adverse Concentration
CO (1-Hour)	20 ppm	2.1 ppm	17.9 ppm	0.445 ppm	(17.455 ppm)	No
CO (8-Hour)	9.0 ppm	1.7 ppm	7.3 ppm	0.13 ppm	(7.17 ppm)	No
NO_2 (1-hour)	0.18 ppm	0.066 ppm	0.114 ppm	0.028 ppm	(0.086 ppm)	No
NO_2 (annual)	0.03 ppm	0.0115 ppm	0.0185 ppm	0.0005 ppm	(0.018 ppm)	No
PM_{10} (24-hour)[a]			10.4 µg/m3	3.3 µg/m3	(7.1 µg/m3)	No
PM_{10} (annual)[a]			1.0 µg/m3	0.033 µg/m3	(0.967 µg/m3)	No
$PM_{2.5}$ (24-hour)[a]			10.4 µg/m3	2.9 µg/m3	(7.5 µg/m3)	No
$PM_{2.5}$ (annual)[a]			1.0 µg/m3	0.018 µg/m3	(0.982 µg/m3)	No

Source: LSA Associates, Inc., July 2019.

a) Since both PM_{10} and $PM_{2.5}$ are in non-attainment, the thresholds are not based on AAQS exceedance, but rather a violation of SCAQMD Rule 403.

AAQS = ambient air quality standards

CO = carbon monoxide

$\mu g/m^3$ = microgram of pollutant per cubic meter of air

NO_2 = nitrogen dioxide

$PM_{2.5}$ = particulate matter less than 2.5 microns in size

PM_{10} = particulate matter less than 10 microns in size

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        ***   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 URBAN Dispersion Algorithm for the SBL for   16 Source(s),
  for Total of   1 Urban Area(s):
  Urban Population =   3010232.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
       1. Stack-tip Downwash.
       2. Model Accounts for ELEVated Terrain Effects.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       CCVR_Sub - Meteorological data includes CCVR substitutions
       TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Accepts FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: NOX

**Model Calculates 3 Short Term Average(s) of: 1-HR   8-HR 24-HR
    and Calculates ANNUAL Averages

**This Run Includes: 16 Source(s);   1 Source Group(s); and   2919 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 16 VOLUME source(s)
                and: 0 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: 16216

**Output Options Selected:
        Model Outputs Tables of ANNUAL 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) =   170.00 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   4.0 MB of RAM.

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

**File for Summary of Results: OMW-LST-Gas.sum

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
VOL1	0	0.10000E+01	413896.2	3728686.3	9.1	3.66	5.73	4.65	YES	HRDOW7
VOL2	0	0.10000E+01	413921.2	3728686.3	9.0	3.66	5.73	4.65	YES	HRDOW7
VOL3	0	0.10000E+01	413946.2	3728686.3	8.9	3.66	5.73	4.65	YES	HRDOW7
VOL4	0	0.10000E+01	413971.2	3728686.3	9.0	3.66	5.73	4.65	YES	HRDOW7
VOL5	0	0.10000E+01	413896.2	3728661.3	9.2	3.66	5.73	4.65	YES	HRDOW7
VOL6	0	0.10000E+01	413921.2	3728661.3	9.1	3.66	5.73	4.65	YES	HRDOW7
VOL7	0	0.10000E+01	413946.2	3728661.3	9.1	3.66	5.73	4.65	YES	HRDOW7
VOL8	0	0.10000E+01	413971.2	3728661.3	9.1	3.66	5.73	4.65	YES	HRDOW7
VOL9	0	0.10000E+01	413896.2	3728636.3	9.3	3.66	5.73	4.65	YES	HRDOW7
VOL10	0	0.10000E+01	413921.2	3728636.3	9.2	3.66	5.73	4.65	YES	HRDOW7
VOL11	0	0.10000E+01	413946.2	3728636.3	9.2	3.66	5.73	4.65	YES	HRDOW7
VOL12	0	0.10000E+01	413971.2	3728636.3	9.2	3.66	5.73	4.65	YES	HRDOW7
VOL13	0	0.10000E+01	413896.2	3728611.3	9.3	3.66	5.73	4.65	YES	HRDOW7
VOL14	0	0.10000E+01	413921.2	3728611.3	9.2	3.66	5.73	4.65	YES	HRDOW7
VOL15	0	0.10000E+01	413946.2	3728611.3	9.2	3.66	5.73	4.65	YES	HRDOW7
VOL16	0	0.10000E+01	413971.2	3728611.3	9.2	3.66	5.73	4.65	YES	HRDOW7

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
EXHAUST	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
	VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	3010232.	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
		VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = VOL1-16 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(413971.8, 3727965.8,	11.4,	11.4,	1.5);	(413991.8, 3727965.8,	10.9,	10.9,	1.5);
(414011.8, 3727965.8,	11.1,	11.1,	1.5);	(414031.8, 3727965.8,	11.4,	11.4,	1.5);
(413911.8, 3727985.8,	10.8,	10.8,	1.5);	(413931.8, 3727985.8,	11.0,	11.0,	1.5);
(413951.8, 3727985.8,	11.4,	11.4,	1.5);	(413971.8, 3727985.8,	11.3,	11.3,	1.5);
(413991.8, 3727985.8,	10.8,	10.8,	1.5);	(414011.8, 3727985.8,	11.1,	11.1,	1.5);
(414031.8, 3727985.8,	11.2,	11.2,	1.5);	(414051.8, 3727985.8,	11.1,	11.1,	1.5);
(414071.8, 3727985.8,	10.6,	10.6,	1.5);	(414091.8, 3727985.8,	11.1,	11.1,	1.5);
(414111.8, 3727985.8,	11.4,	11.4,	1.5);	(414131.8, 3727985.8,	11.2,	11.2,	1.5);
(414151.8, 3727985.8,	10.8,	10.8,	1.5);	(414171.8, 3727985.8,	10.8,	10.8,	1.5);
(414191.8, 3727985.8,	10.9,	10.9,	1.5);	(414211.8, 3727985.8,	11.0,	11.0,	1.5);
(414231.8, 3727985.8,	11.1,	11.1,	1.5);	(414251.8, 3727985.8,	11.5,	11.5,	1.5);
(414271.8, 3727985.8,	11.5,	11.5,	1.5);	(414291.8, 3727985.8,	11.4,	11.4,	1.5);
(414311.8, 3727985.8,	11.3,	11.3,	1.5);	(414331.8, 3727985.8,	11.3,	11.3,	1.5);
(414351.8, 3727985.8,	11.1,	11.1,	1.5);	(414371.8, 3727985.8,	10.9,	10.9,	1.5);
(414391.8, 3727985.8,	10.7,	10.7,	1.5);	(414411.8, 3727985.8,	10.6,	10.6,	1.5);
(414431.8, 3727985.8,	10.6,	10.6,	1.5);	(414451.8, 3727985.8,	10.6,	10.6,	1.5);
(414471.8, 3727985.8,	10.5,	10.5,	1.5);	(414491.8, 3727985.8,	10.5,	10.5,	1.5);
(414511.8, 3727985.8,	10.5,	10.5,	1.5);	(414531.8, 3727985.8,	10.5,	10.5,	1.5);
(414551.8, 3727985.8,	10.0,	10.0,	1.5);	(414571.8, 3727985.8,	9.9,	9.9,	1.5);
(414591.8, 3727985.8,	10.2,	10.2,	1.5);	(414611.8, 3727985.8,	9.9,	9.9,	1.5);
(413871.8, 3728005.8,	11.6,	11.6,	1.5);	(413891.8, 3728005.8,	11.2,	11.2,	1.5);
(413911.8, 3728005.8,	10.7,	10.7,	1.5);	(413931.8, 3728005.8,	10.9,	10.9,	1.5);
(413951.8, 3728005.8,	11.3,	11.3,	1.5);	(413971.8, 3728005.8,	11.2,	11.2,	1.5);
(413991.8, 3728005.8,	10.8,	10.8,	1.5);	(414011.8, 3728005.8,	11.0,	11.0,	1.5);
(414031.8, 3728005.8,	11.1,	11.1,	1.5);	(414051.8, 3728005.8,	10.9,	10.9,	1.5);
(414071.8, 3728005.8,	10.4,	10.4,	1.5);	(414091.8, 3728005.8,	11.0,	11.0,	1.5);
(414111.8, 3728005.8,	11.3,	11.3,	1.5);	(414131.8, 3728005.8,	11.2,	11.2,	1.5);
(414151.8, 3728005.8,	10.7,	10.7,	1.5);	(414171.8, 3728005.8,	10.7,	10.7,	1.5);
(414191.8, 3728005.8,	10.8,	10.8,	1.5);	(414211.8, 3728005.8,	10.9,	10.9,	1.5);
(414231.8, 3728005.8,	11.0,	11.0,	1.5);	(414251.8, 3728005.8,	11.1,	11.1,	1.5);
(414271.8, 3728005.8,	11.0,	11.0,	1.5);	(414291.8, 3728005.8,	11.1,	11.1,	1.5);
(414311.8, 3728005.8,	11.2,	11.2,	1.5);	(414331.8, 3728005.8,	11.2,	11.2,	1.5);
(414351.8, 3728005.8,	10.9,	10.9,	1.5);	(414371.8, 3728005.8,	10.6,	10.6,	1.5);
(414391.8, 3728005.8,	10.5,	10.5,	1.5);	(414411.8, 3728005.8,	10.4,	10.4,	1.5);
(414431.8, 3728005.8,	10.4,	10.4,	1.5);	(414451.8, 3728005.8,	10.4,	10.4,	1.5);
(414471.8, 3728005.8,	10.4,	10.4,	1.5);	(414491.8, 3728005.8,	10.4,	10.4,	1.5);
(414511.8, 3728005.8,	10.3,	10.3,	1.5);	(414531.8, 3728005.8,	10.3,	10.3,	1.5);
(414551.8, 3728005.8,	9.9,	9.9,	1.5);	(414571.8, 3728005.8,	9.8,	9.8,	1.5);
(414591.8, 3728005.8,	10.2,	10.2,	1.5);	(413831.8, 3728025.8,	11.2,	11.2,	1.5);
(413851.8, 3728025.8,	11.2,	11.2,	1.5);	(413871.8, 3728025.8,	11.3,	11.3,	1.5);
(413891.8, 3728025.8,	10.9,	10.9,	1.5);	(413911.8, 3728025.8,	10.5,	10.5,	1.5);
(413931.8, 3728025.8,	10.6,	10.6,	1.5);	(413951.8, 3728025.8,	10.8,	10.8,	1.5);
(413971.8, 3728025.8,	10.8,	10.8,	1.5);	(413991.8, 3728025.8,	10.7,	10.7,	1.5);
(414011.8, 3728025.8,	10.7,	10.7,	1.5);	(414031.8, 3728025.8,	10.7,	10.7,	1.5);
(414051.8, 3728025.8,	10.6,	10.6,	1.5);	(414071.8, 3728025.8,	10.3,	10.3,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414091.8,	3728025.8,	10.8,	10.8,	1.5);	(414111.8,	3728025.8,	11.0,	11.0,	1.5);
(414131.8,	3728025.8,	10.9,	10.9,	1.5);	(414151.8,	3728025.8,	10.9,	10.9,	1.5);
(414171.8,	3728025.8,	10.9,	10.9,	1.5);	(414191.8,	3728025.8,	10.9,	10.9,	1.5);
(414211.8,	3728025.8,	10.9,	10.9,	1.5);	(414231.8,	3728025.8,	11.0,	11.0,	1.5);
(414251.8,	3728025.8,	11.1,	11.1,	1.5);	(414271.8,	3728025.8,	10.9,	10.9,	1.5);
(414291.8,	3728025.8,	10.8,	10.8,	1.5);	(414311.8,	3728025.8,	10.7,	10.7,	1.5);
(414331.8,	3728025.8,	10.5,	10.5,	1.5);	(414351.8,	3728025.8,	10.4,	10.4,	1.5);
(414371.8,	3728025.8,	10.3,	10.3,	1.5);	(414391.8,	3728025.8,	10.2,	10.2,	1.5);
(414411.8,	3728025.8,	10.2,	10.2,	1.5);	(414431.8,	3728025.8,	10.2,	10.2,	1.5);
(414451.8,	3728025.8,	10.2,	10.2,	1.5);	(414471.8,	3728025.8,	10.2,	10.2,	1.5);
(414491.8,	3728025.8,	10.2,	10.2,	1.5);	(414511.8,	3728025.8,	10.2,	10.2,	1.5);
(414531.8,	3728025.8,	10.1,	10.1,	1.5);	(414551.8,	3728025.8,	10.1,	10.1,	1.5);
(414571.8,	3728025.8,	10.1,	10.1,	1.5);	(414591.8,	3728025.8,	10.2,	10.2,	1.5);
(413771.8,	3728045.8,	11.4,	11.4,	1.5);	(413791.8,	3728045.8,	11.6,	11.6,	1.5);
(413811.8,	3728045.8,	11.4,	11.4,	1.5);	(413831.8,	3728045.8,	11.1,	11.1,	1.5);
(413851.8,	3728045.8,	11.0,	11.0,	1.5);	(413871.8,	3728045.8,	11.1,	11.1,	1.5);
(413891.8,	3728045.8,	10.9,	10.9,	1.5);	(413911.8,	3728045.8,	10.5,	10.5,	1.5);
(413931.8,	3728045.8,	10.6,	10.6,	1.5);	(413951.8,	3728045.8,	10.8,	10.8,	1.5);
(413971.8,	3728045.8,	10.6,	10.6,	1.5);	(413991.8,	3728045.8,	10.5,	10.5,	1.5);
(414011.8,	3728045.8,	10.5,	10.5,	1.5);	(414031.8,	3728045.8,	10.6,	10.6,	1.5);
(414051.8,	3728045.8,	10.6,	10.6,	1.5);	(414071.8,	3728045.8,	10.2,	10.2,	1.5);
(414091.8,	3728045.8,	10.7,	10.7,	1.5);	(414111.8,	3728045.8,	10.8,	10.8,	1.5);
(414131.8,	3728045.8,	10.7,	10.7,	1.5);	(414151.8,	3728045.8,	10.9,	10.9,	1.5);
(414171.8,	3728045.8,	10.9,	10.9,	1.5);	(414191.8,	3728045.8,	10.9,	10.9,	1.5);
(414211.8,	3728045.8,	11.0,	11.0,	1.5);	(414231.8,	3728045.8,	11.0,	11.0,	1.5);
(414251.8,	3728045.8,	11.1,	11.1,	1.5);	(414271.8,	3728045.8,	10.9,	10.9,	1.5);
(414291.8,	3728045.8,	10.7,	10.7,	1.5);	(414311.8,	3728045.8,	10.5,	10.5,	1.5);
(414331.8,	3728045.8,	10.3,	10.3,	1.5);	(414351.8,	3728045.8,	10.3,	10.3,	1.5);
(414371.8,	3728045.8,	10.2,	10.2,	1.5);	(414391.8,	3728045.8,	10.1,	10.1,	1.5);
(414411.8,	3728045.8,	10.1,	10.1,	1.5);	(414431.8,	3728045.8,	10.1,	10.1,	1.5);
(414451.8,	3728045.8,	10.1,	10.1,	1.5);	(414471.8,	3728045.8,	10.1,	10.1,	1.5);
(414491.8,	3728045.8,	10.0,	10.0,	1.5);	(414511.8,	3728045.8,	10.0,	10.0,	1.5);
(414531.8,	3728045.8,	9.7,	9.7,	1.5);	(414551.8,	3728045.8,	9.9,	9.9,	1.5);
(414571.8,	3728045.8,	10.0,	10.0,	1.5);	(413731.8,	3728065.8,	11.1,	11.1,	1.5);
(413751.8,	3728065.8,	11.2,	11.2,	1.5);	(413771.8,	3728065.8,	11.2,	11.2,	1.5);
(413791.8,	3728065.8,	11.1,	11.1,	1.5);	(413811.8,	3728065.8,	11.0,	11.0,	1.5);
(413831.8,	3728065.8,	11.0,	11.0,	1.5);	(413851.8,	3728065.8,	11.0,	11.0,	1.5);
(413871.8,	3728065.8,	11.0,	11.0,	1.5);	(413891.8,	3728065.8,	11.1,	11.1,	1.5);
(413911.8,	3728065.8,	10.6,	10.6,	1.5);	(413931.8,	3728065.8,	10.7,	10.7,	1.5);
(413951.8,	3728065.8,	11.0,	11.0,	1.5);	(413971.8,	3728065.8,	10.6,	10.6,	1.5);
(413991.8,	3728065.8,	10.1,	10.1,	1.5);	(414011.8,	3728065.8,	10.4,	10.4,	1.5);
(414031.8,	3728065.8,	10.7,	10.7,	1.5);	(414051.8,	3728065.8,	10.7,	10.7,	1.5);
(414071.8,	3728065.8,	10.2,	10.2,	1.5);	(414091.8,	3728065.8,	10.6,	10.6,	1.5);
(414111.8,	3728065.8,	10.6,	10.6,	1.5);	(414131.8,	3728065.8,	10.5,	10.5,	1.5);
(414151.8,	3728065.8,	10.8,	10.8,	1.5);	(414171.8,	3728065.8,	10.8,	10.8,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414191.8, 3728065.8,	10.8,	10.8,	1.5);	(414211.8, 3728065.8,	10.9,	10.9,	1.5);
(414231.8, 3728065.8,	10.9,	10.9,	1.5);	(414251.8, 3728065.8,	10.9,	10.9,	1.5);
(414271.8, 3728065.8,	10.8,	10.8,	1.5);	(414291.8, 3728065.8,	10.5,	10.5,	1.5);
(414311.8, 3728065.8,	10.2,	10.2,	1.5);	(414331.8, 3728065.8,	10.2,	10.2,	1.5);
(414351.8, 3728065.8,	10.2,	10.2,	1.5);	(414371.8, 3728065.8,	10.1,	10.1,	1.5);
(414391.8, 3728065.8,	10.0,	10.0,	1.5);	(414411.8, 3728065.8,	10.0,	10.0,	1.5);
(414431.8, 3728065.8,	10.0,	10.0,	1.5);	(414451.8, 3728065.8,	10.0,	10.0,	1.5);
(414471.8, 3728065.8,	9.9,	9.9,	1.5);	(414491.8, 3728065.8,	9.8,	9.8,	1.5);
(414511.8, 3728065.8,	9.7,	9.7,	1.5);	(414531.8, 3728065.8,	9.4,	9.4,	1.5);
(414551.8, 3728065.8,	9.7,	9.7,	1.5);	(414571.8, 3728065.8,	9.9,	9.9,	1.5);
(413691.8, 3728085.8,	10.7,	10.7,	1.5);	(413711.8, 3728085.8,	11.2,	11.2,	1.5);
(413731.8, 3728085.8,	11.2,	11.2,	1.5);	(413751.8, 3728085.8,	11.0,	11.0,	1.5);
(413771.8, 3728085.8,	10.8,	10.8,	1.5);	(413791.8, 3728085.8,	10.9,	10.9,	1.5);
(413811.8, 3728085.8,	10.9,	10.9,	1.5);	(413831.8, 3728085.8,	10.6,	10.6,	1.5);
(413851.8, 3728085.8,	10.5,	10.5,	1.5);	(413871.8, 3728085.8,	10.7,	10.7,	1.5);
(413891.8, 3728085.8,	10.8,	10.8,	1.5);	(413911.8, 3728085.8,	10.3,	10.3,	1.5);
(413931.8, 3728085.8,	10.5,	10.5,	1.5);	(413951.8, 3728085.8,	10.8,	10.8,	1.5);
(413971.8, 3728085.8,	10.4,	10.4,	1.5);	(413991.8, 3728085.8,	9.9,	9.9,	1.5);
(414011.8, 3728085.8,	10.2,	10.2,	1.5);	(414031.8, 3728085.8,	10.6,	10.6,	1.5);
(414051.8, 3728085.8,	10.6,	10.6,	1.5);	(414071.8, 3728085.8,	10.1,	10.1,	1.5);
(414091.8, 3728085.8,	10.5,	10.5,	1.5);	(414111.8, 3728085.8,	10.6,	10.6,	1.5);
(414131.8, 3728085.8,	10.5,	10.5,	1.5);	(414151.8, 3728085.8,	10.6,	10.6,	1.5);
(414171.8, 3728085.8,	10.4,	10.4,	1.5);	(414191.8, 3728085.8,	10.3,	10.3,	1.5);
(414211.8, 3728085.8,	10.3,	10.3,	1.5);	(414231.8, 3728085.8,	10.3,	10.3,	1.5);
(414251.8, 3728085.8,	10.5,	10.5,	1.5);	(414271.8, 3728085.8,	10.5,	10.5,	1.5);
(414291.8, 3728085.8,	10.3,	10.3,	1.5);	(414311.8, 3728085.8,	10.0,	10.0,	1.5);
(414331.8, 3728085.8,	10.0,	10.0,	1.5);	(414351.8, 3728085.8,	10.0,	10.0,	1.5);
(414371.8, 3728085.8,	9.9,	9.9,	1.5);	(414391.8, 3728085.8,	9.9,	9.9,	1.5);
(414411.8, 3728085.8,	9.8,	9.8,	1.5);	(414431.8, 3728085.8,	9.8,	9.8,	1.5);
(414451.8, 3728085.8,	9.8,	9.8,	1.5);	(414471.8, 3728085.8,	9.8,	9.8,	1.5);
(414491.8, 3728085.8,	9.6,	9.6,	1.5);	(414511.8, 3728085.8,	9.2,	9.2,	1.5);
(414531.8, 3728085.8,	9.6,	9.6,	1.5);	(414551.8, 3728085.8,	9.8,	9.8,	1.5);
(413631.8, 3728105.8,	10.6,	10.6,	1.5);	(413651.8, 3728105.8,	11.0,	11.0,	1.5);
(413671.8, 3728105.8,	10.9,	10.9,	1.5);	(413691.8, 3728105.8,	10.5,	10.5,	1.5);
(413711.8, 3728105.8,	11.2,	11.2,	1.5);	(413731.8, 3728105.8,	11.0,	11.0,	1.5);
(413751.8, 3728105.8,	10.7,	10.7,	1.5);	(413771.8, 3728105.8,	10.5,	10.5,	1.5);
(413791.8, 3728105.8,	10.8,	10.8,	1.5);	(413811.8, 3728105.8,	10.7,	10.7,	1.5);
(413831.8, 3728105.8,	10.3,	10.3,	1.5);	(413851.8, 3728105.8,	10.2,	10.2,	1.5);
(413871.8, 3728105.8,	10.6,	10.6,	1.5);	(413891.8, 3728105.8,	10.6,	10.6,	1.5);
(413911.8, 3728105.8,	10.1,	10.1,	1.5);	(413931.8, 3728105.8,	10.3,	10.3,	1.5);
(413951.8, 3728105.8,	10.6,	10.6,	1.5);	(413971.8, 3728105.8,	10.3,	10.3,	1.5);
(413991.8, 3728105.8,	9.7,	9.7,	1.5);	(414011.8, 3728105.8,	10.0,	10.0,	1.5);
(414031.8, 3728105.8,	10.4,	10.4,	1.5);	(414051.8, 3728105.8,	10.5,	10.5,	1.5);
(414071.8, 3728105.8,	10.0,	10.0,	1.5);	(414091.8, 3728105.8,	10.4,	10.4,	1.5);
(414111.8, 3728105.8,	10.5,	10.5,	1.5);	(414131.8, 3728105.8,	10.3,	10.3,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414151.8,	3728105.8,	10.4,	10.4,	1.5);	(414171.8,	3728105.8,	10.1,	10.1,	1.5);
(414191.8,	3728105.8,	10.0,	10.0,	1.5);	(414211.8,	3728105.8,	10.0,	10.0,	1.5);
(414231.8,	3728105.8,	10.0,	10.0,	1.5);	(414251.8,	3728105.8,	10.2,	10.2,	1.5);
(414271.8,	3728105.8,	10.1,	10.1,	1.5);	(414291.8,	3728105.8,	10.0,	10.0,	1.5);
(414311.8,	3728105.8,	9.9,	9.9,	1.5);	(414331.8,	3728105.8,	9.9,	9.9,	1.5);
(414351.8,	3728105.8,	9.8,	9.8,	1.5);	(414371.8,	3728105.8,	9.8,	9.8,	1.5);
(414391.8,	3728105.8,	9.7,	9.7,	1.5);	(414411.8,	3728105.8,	9.7,	9.7,	1.5);
(414431.8,	3728105.8,	9.7,	9.7,	1.5);	(414451.8,	3728105.8,	9.4,	9.4,	1.5);
(414471.8,	3728105.8,	9.3,	9.3,	1.5);	(414491.8,	3728105.8,	9.3,	9.3,	1.5);
(414511.8,	3728105.8,	9.4,	9.4,	1.5);	(414531.8,	3728105.8,	9.8,	9.8,	1.5);
(414551.8,	3728105.8,	9.9,	9.9,	1.5);	(413591.8,	3728125.8,	10.3,	10.3,	1.5);
(413611.8,	3728125.8,	10.2,	10.2,	1.5);	(413631.8,	3728125.8,	11.0,	11.0,	1.5);
(413651.8,	3728125.8,	11.0,	11.0,	1.5);	(413671.8,	3728125.8,	10.6,	10.6,	1.5);
(413691.8,	3728125.8,	10.2,	10.2,	1.5);	(413711.8,	3728125.8,	10.8,	10.8,	1.5);
(413731.8,	3728125.8,	10.7,	10.7,	1.5);	(413751.8,	3728125.8,	10.3,	10.3,	1.5);
(413771.8,	3728125.8,	10.1,	10.1,	1.5);	(413791.8,	3728125.8,	10.6,	10.6,	1.5);
(413811.8,	3728125.8,	10.5,	10.5,	1.5);	(413831.8,	3728125.8,	10.0,	10.0,	1.5);
(413851.8,	3728125.8,	10.0,	10.0,	1.5);	(413871.8,	3728125.8,	10.5,	10.5,	1.5);
(413891.8,	3728125.8,	10.4,	10.4,	1.5);	(413911.8,	3728125.8,	10.0,	10.0,	1.5);
(413931.8,	3728125.8,	10.1,	10.1,	1.5);	(413951.8,	3728125.8,	10.5,	10.5,	1.5);
(413971.8,	3728125.8,	10.3,	10.3,	1.5);	(413991.8,	3728125.8,	9.6,	9.6,	1.5);
(414011.8,	3728125.8,	9.8,	9.8,	1.5);	(414031.8,	3728125.8,	10.2,	10.2,	1.5);
(414051.8,	3728125.8,	10.4,	10.4,	1.5);	(414071.8,	3728125.8,	9.8,	9.8,	1.5);
(414091.8,	3728125.8,	10.3,	10.3,	1.5);	(414111.8,	3728125.8,	10.4,	10.4,	1.5);
(414131.8,	3728125.8,	10.1,	10.1,	1.5);	(414151.8,	3728125.8,	10.1,	10.1,	1.5);
(414171.8,	3728125.8,	10.0,	10.0,	1.5);	(414191.8,	3728125.8,	9.9,	9.9,	1.5);
(414211.8,	3728125.8,	9.8,	9.8,	1.5);	(414231.8,	3728125.8,	9.8,	9.8,	1.5);
(414251.8,	3728125.8,	9.8,	9.8,	1.5);	(414271.8,	3728125.8,	9.8,	9.8,	1.5);
(414291.8,	3728125.8,	9.7,	9.7,	1.5);	(414311.8,	3728125.8,	9.8,	9.8,	1.5);
(414331.8,	3728125.8,	9.7,	9.7,	1.5);	(414351.8,	3728125.8,	9.7,	9.7,	1.5);
(414371.8,	3728125.8,	9.7,	9.7,	1.5);	(414391.8,	3728125.8,	9.6,	9.6,	1.5);
(414411.8,	3728125.8,	9.5,	9.5,	1.5);	(414431.8,	3728125.8,	9.4,	9.4,	1.5);
(414451.8,	3728125.8,	9.2,	9.2,	1.5);	(414471.8,	3728125.8,	9.1,	9.1,	1.5);
(414491.8,	3728125.8,	9.2,	9.2,	1.5);	(414511.8,	3728125.8,	9.6,	9.6,	1.5);
(413551.8,	3728145.8,	10.6,	10.6,	1.5);	(413571.8,	3728145.8,	10.3,	10.3,	1.5);
(413591.8,	3728145.8,	10.2,	10.2,	1.5);	(413611.8,	3728145.8,	10.5,	10.5,	1.5);
(413631.8,	3728145.8,	10.9,	10.9,	1.5);	(413651.8,	3728145.8,	10.7,	10.7,	1.5);
(413671.8,	3728145.8,	10.3,	10.3,	1.5);	(413691.8,	3728145.8,	9.9,	9.9,	1.5);
(413711.8,	3728145.8,	10.6,	10.6,	1.5);	(413731.8,	3728145.8,	10.5,	10.5,	1.5);
(413751.8,	3728145.8,	10.1,	10.1,	1.5);	(413771.8,	3728145.8,	10.0,	10.0,	1.5);
(413791.8,	3728145.8,	10.4,	10.4,	1.5);	(413811.8,	3728145.8,	10.3,	10.3,	1.5);
(413831.8,	3728145.8,	9.9,	9.9,	1.5);	(413851.8,	3728145.8,	9.9,	9.9,	1.5);
(413871.8,	3728145.8,	10.4,	10.4,	1.5);	(413891.8,	3728145.8,	10.3,	10.3,	1.5);
(413911.8,	3728145.8,	9.8,	9.8,	1.5);	(413931.8,	3728145.8,	9.9,	9.9,	1.5);
(413951.8,	3728145.8,	10.2,	10.2,	1.5);	(413971.8,	3728145.8,	10.1,	10.1,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(	413991.8,	3728145.8,	9.5,	9.5,	1.5);	(	414011.8,	3728145.8,	9.7,	9.7,	1.5);
(	414031.8,	3728145.8,	10.1,	10.1,	1.5);	(	414051.8,	3728145.8,	10.2,	10.2,	1.5);
(	414071.8,	3728145.8,	9.6,	9.6,	1.5);	(	414091.8,	3728145.8,	10.1,	10.1,	1.5);
(	414111.8,	3728145.8,	10.1,	10.1,	1.5);	(	414131.8,	3728145.8,	9.8,	9.8,	1.5);
(	414151.8,	3728145.8,	9.8,	9.8,	1.5);	(	414171.8,	3728145.8,	9.8,	9.8,	1.5);
(	414191.8,	3728145.8,	9.7,	9.7,	1.5);	(	414211.8,	3728145.8,	9.7,	9.7,	1.5);
(	414231.8,	3728145.8,	9.7,	9.7,	1.5);	(	414251.8,	3728145.8,	9.6,	9.6,	1.5);
(	414271.8,	3728145.8,	9.6,	9.6,	1.5);	(	414291.8,	3728145.8,	9.5,	9.5,	1.5);
(	414311.8,	3728145.8,	9.5,	9.5,	1.5);	(	414331.8,	3728145.8,	9.5,	9.5,	1.5);
(	414351.8,	3728145.8,	9.7,	9.7,	1.5);	(	414371.8,	3728145.8,	9.7,	9.7,	1.5);
(	414391.8,	3728145.8,	9.4,	9.4,	1.5);	(	414411.8,	3728145.8,	8.9,	8.9,	1.5);
(	414431.8,	3728145.8,	9.0,	9.0,	1.5);	(	414451.8,	3728145.8,	9.3,	9.3,	1.5);
(	414471.8,	3728145.8,	9.5,	9.5,	1.5);	(	414491.8,	3728145.8,	9.5,	9.5,	1.5);
(	413491.8,	3728165.8,	10.6,	10.6,	1.5);	(	413511.8,	3728165.8,	10.6,	10.6,	1.5);
(	413531.8,	3728165.8,	10.4,	10.4,	1.5);	(	413551.8,	3728165.8,	10.2,	10.2,	1.5);
(	413571.8,	3728165.8,	10.1,	10.1,	1.5);	(	413591.8,	3728165.8,	10.2,	10.2,	1.5);
(	413611.8,	3728165.8,	10.6,	10.6,	1.5);	(	413631.8,	3728165.8,	10.7,	10.7,	1.5);
(	413651.8,	3728165.8,	10.4,	10.4,	1.5);	(	413671.8,	3728165.8,	10.0,	10.0,	1.5);
(	413691.8,	3728165.8,	9.7,	9.7,	1.5);	(	413711.8,	3728165.8,	10.4,	10.4,	1.5);
(	413731.8,	3728165.8,	10.3,	10.3,	1.5);	(	413751.8,	3728165.8,	10.0,	10.0,	1.5);
(	413771.8,	3728165.8,	9.9,	9.9,	1.5);	(	413791.8,	3728165.8,	10.2,	10.2,	1.5);
(	413811.8,	3728165.8,	10.1,	10.1,	1.5);	(	413831.8,	3728165.8,	9.8,	9.8,	1.5);
(	413851.8,	3728165.8,	9.7,	9.7,	1.5);	(	413871.8,	3728165.8,	10.0,	10.0,	1.5);
(	413891.8,	3728165.8,	10.0,	10.0,	1.5);	(	413911.8,	3728165.8,	9.6,	9.6,	1.5);
(	413931.8,	3728165.8,	9.7,	9.7,	1.5);	(	413951.8,	3728165.8,	10.1,	10.1,	1.5);
(	413971.8,	3728165.8,	10.0,	10.0,	1.5);	(	413991.8,	3728165.8,	9.3,	9.3,	1.5);
(	414011.8,	3728165.8,	9.5,	9.5,	1.5);	(	414031.8,	3728165.8,	9.9,	9.9,	1.5);
(	414051.8,	3728165.8,	10.0,	10.0,	1.5);	(	414071.8,	3728165.8,	9.5,	9.5,	1.5);
(	414091.8,	3728165.8,	9.9,	9.9,	1.5);	(	414111.8,	3728165.8,	9.9,	9.9,	1.5);
(	414131.8,	3728165.8,	9.6,	9.6,	1.5);	(	414151.8,	3728165.8,	9.6,	9.6,	1.5);
(	414171.8,	3728165.8,	9.6,	9.6,	1.5);	(	414191.8,	3728165.8,	9.6,	9.6,	1.5);
(	414211.8,	3728165.8,	9.5,	9.5,	1.5);	(	414231.8,	3728165.8,	9.5,	9.5,	1.5);
(	414251.8,	3728165.8,	9.4,	9.4,	1.5);	(	414271.8,	3728165.8,	9.4,	9.4,	1.5);
(	414291.8,	3728165.8,	9.4,	9.4,	1.5);	(	414311.8,	3728165.8,	9.5,	9.5,	1.5);
(	414331.8,	3728165.8,	9.6,	9.6,	1.5);	(	414351.8,	3728165.8,	9.3,	9.3,	1.5);
(	414371.8,	3728165.8,	9.3,	9.3,	1.5);	(	414391.8,	3728165.8,	9.3,	9.3,	1.5);
(	414411.8,	3728165.8,	9.1,	9.1,	1.5);	(	414431.8,	3728165.8,	9.3,	9.3,	1.5);
(	414451.8,	3728165.8,	9.4,	9.4,	1.5);	(	414471.8,	3728165.8,	9.5,	9.5,	1.5);
(	414731.8,	3728165.8,	11.9,	16.0,	1.5);	(	414751.8,	3728165.8,	11.2,	16.0,	1.5);
(	413451.8,	3728185.8,	10.4,	10.4,	1.5);	(	413471.8,	3728185.8,	10.4,	10.4,	1.5);
(	413491.8,	3728185.8,	10.6,	10.6,	1.5);	(	413511.8,	3728185.8,	10.6,	10.6,	1.5);
(	413531.8,	3728185.8,	9.9,	9.9,	1.5);	(	413551.8,	3728185.8,	9.8,	9.8,	1.5);
(	413571.8,	3728185.8,	10.2,	10.2,	1.5);	(	413591.8,	3728185.8,	10.5,	10.5,	1.5);
(	413611.8,	3728185.8,	10.2,	10.2,	1.5);	(	413631.8,	3728185.8,	10.2,	10.2,	1.5);
(	413651.8,	3728185.8,	10.1,	10.1,	1.5);	(	413671.8,	3728185.8,	9.8,	9.8,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(413691.8,	3728185.8,	9.5,	9.5,	1.5);	(413711.8,	3728185.8,	10.1,	10.1,	1.5);
(413731.8,	3728185.8,	10.3,	10.3,	1.5);	(413751.8,	3728185.8,	10.1,	10.1,	1.5);
(413771.8,	3728185.8,	9.7,	9.7,	1.5);	(413791.8,	3728185.8,	9.8,	9.8,	1.5);
(413811.8,	3728185.8,	9.6,	9.6,	1.5);	(413831.8,	3728185.8,	9.5,	9.5,	1.5);
(413851.8,	3728185.8,	9.5,	9.5,	1.5);	(413871.8,	3728185.8,	9.5,	9.5,	1.5);
(413891.8,	3728185.8,	9.5,	9.5,	1.5);	(413911.8,	3728185.8,	9.3,	9.3,	1.5);
(413931.8,	3728185.8,	9.5,	9.5,	1.5);	(413951.8,	3728185.8,	9.9,	9.9,	1.5);
(413971.8,	3728185.8,	9.8,	9.8,	1.5);	(413991.8,	3728185.8,	9.2,	9.2,	1.5);
(414011.8,	3728185.8,	9.4,	9.4,	1.5);	(414031.8,	3728185.8,	9.8,	9.8,	1.5);
(414051.8,	3728185.8,	9.9,	9.9,	1.5);	(414071.8,	3728185.8,	9.3,	9.3,	1.5);
(414091.8,	3728185.8,	9.6,	9.6,	1.5);	(414111.8,	3728185.8,	9.7,	9.7,	1.5);
(414131.8,	3728185.8,	9.5,	9.5,	1.5);	(414151.8,	3728185.8,	9.5,	9.5,	1.5);
(414171.8,	3728185.8,	9.5,	9.5,	1.5);	(414191.8,	3728185.8,	9.4,	9.4,	1.5);
(414211.8,	3728185.8,	9.4,	9.4,	1.5);	(414231.8,	3728185.8,	9.3,	9.3,	1.5);
(414251.8,	3728185.8,	9.3,	9.3,	1.5);	(414271.8,	3728185.8,	9.3,	9.3,	1.5);
(414291.8,	3728185.8,	9.4,	9.4,	1.5);	(414311.8,	3728185.8,	9.6,	9.6,	1.5);
(414331.8,	3728185.8,	9.7,	9.7,	1.5);	(414351.8,	3728185.8,	8.9,	8.9,	1.5);
(414371.8,	3728185.8,	9.0,	9.0,	1.5);	(414391.8,	3728185.8,	9.3,	9.3,	1.5);
(414411.8,	3728185.8,	9.6,	9.6,	1.5);	(414431.8,	3728185.8,	9.8,	9.8,	1.5);
(414451.8,	3728185.8,	9.5,	9.5,	1.5);	(414691.8,	3728185.8,	12.4,	13.2,	1.5);
(414711.8,	3728185.8,	10.1,	16.0,	1.5);	(414731.8,	3728185.8,	9.0,	16.0,	1.5);
(414751.8,	3728185.8,	8.8,	16.0,	1.5);	(413411.8,	3728205.8,	10.4,	10.4,	1.5);
(413431.8,	3728205.8,	10.1,	10.1,	1.5);	(413451.8,	3728205.8,	10.2,	10.2,	1.5);
(413471.8,	3728205.8,	10.3,	10.3,	1.5);	(413491.8,	3728205.8,	10.4,	10.4,	1.5);
(413511.8,	3728205.8,	10.2,	10.2,	1.5);	(413531.8,	3728205.8,	9.7,	9.7,	1.5);
(413551.8,	3728205.8,	10.0,	10.0,	1.5);	(413571.8,	3728205.8,	10.2,	10.2,	1.5);
(413591.8,	3728205.8,	10.3,	10.3,	1.5);	(413611.8,	3728205.8,	9.9,	9.9,	1.5);
(413631.8,	3728205.8,	9.9,	9.9,	1.5);	(413651.8,	3728205.8,	10.0,	10.0,	1.5);
(413671.8,	3728205.8,	9.8,	9.8,	1.5);	(413691.8,	3728205.8,	9.4,	9.4,	1.5);
(413711.8,	3728205.8,	9.8,	9.8,	1.5);	(413731.8,	3728205.8,	9.9,	9.9,	1.5);
(413751.8,	3728205.8,	9.9,	9.9,	1.5);	(413771.8,	3728205.8,	10.0,	10.0,	1.5);
(413791.8,	3728205.8,	10.0,	10.0,	1.5);	(413811.8,	3728205.8,	9.9,	9.9,	1.5);
(413831.8,	3728205.8,	9.9,	9.9,	1.5);	(413851.8,	3728205.8,	9.9,	9.9,	1.5);
(413871.8,	3728205.8,	9.9,	9.9,	1.5);	(413891.8,	3728205.8,	9.8,	9.8,	1.5);
(413911.8,	3728205.8,	9.2,	9.2,	1.5);	(413931.8,	3728205.8,	9.3,	9.3,	1.5);
(413951.8,	3728205.8,	9.7,	9.7,	1.5);	(413971.8,	3728205.8,	9.6,	9.6,	1.5);
(413991.8,	3728205.8,	9.0,	9.0,	1.5);	(414011.8,	3728205.8,	9.3,	9.3,	1.5);
(414031.8,	3728205.8,	9.6,	9.6,	1.5);	(414051.8,	3728205.8,	9.6,	9.6,	1.5);
(414071.8,	3728205.8,	9.1,	9.1,	1.5);	(414091.8,	3728205.8,	9.5,	9.5,	1.5);
(414111.8,	3728205.8,	9.6,	9.6,	1.5);	(414131.8,	3728205.8,	9.4,	9.4,	1.5);
(414151.8,	3728205.8,	9.3,	9.3,	1.5);	(414171.8,	3728205.8,	9.3,	9.3,	1.5);
(414191.8,	3728205.8,	9.3,	9.3,	1.5);	(414211.8,	3728205.8,	9.2,	9.2,	1.5);
(414231.8,	3728205.8,	9.2,	9.2,	1.5);	(414251.8,	3728205.8,	9.3,	9.3,	1.5);
(414271.8,	3728205.8,	9.4,	9.4,	1.5);	(414291.8,	3728205.8,	9.2,	9.2,	1.5);
(414311.8,	3728205.8,	9.0,	9.0,	1.5);	(414331.8,	3728205.8,	9.4,	9.4,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414351.8,	3728205.8,	9.3,	9.3,	1.5);	(414371.8,	3728205.8,	9.4,	9.4,	1.5);
(414391.8,	3728205.8,	9.5,	9.5,	1.5);	(414411.8,	3728205.8,	9.5,	9.5,	1.5);
(414651.8,	3728205.8,	9.3,	9.3,	1.5);	(414671.8,	3728205.8,	9.7,	13.2,	1.5);
(414691.8,	3728205.8,	9.6,	13.2,	1.5);	(414711.8,	3728205.8,	9.0,	16.0,	1.5);
(414731.8,	3728205.8,	8.7,	16.0,	1.5);	(414751.8,	3728205.8,	8.7,	16.0,	1.5);
(413351.8,	3728225.8,	9.5,	9.5,	1.5);	(413371.8,	3728225.8,	9.6,	9.6,	1.5);
(413391.8,	3728225.8,	10.0,	10.0,	1.5);	(413411.8,	3728225.8,	10.2,	10.2,	1.5);
(413431.8,	3728225.8,	10.0,	10.0,	1.5);	(413451.8,	3728225.8,	10.2,	10.2,	1.5);
(413471.8,	3728225.8,	10.2,	10.2,	1.5);	(413491.8,	3728225.8,	10.1,	10.1,	1.5);
(413511.8,	3728225.8,	9.8,	9.8,	1.5);	(413531.8,	3728225.8,	9.8,	9.8,	1.5);
(413551.8,	3728225.8,	10.2,	10.2,	1.5);	(413571.8,	3728225.8,	10.2,	10.2,	1.5);
(413591.8,	3728225.8,	10.0,	10.0,	1.5);	(413611.8,	3728225.8,	9.6,	9.6,	1.5);
(413631.8,	3728225.8,	9.7,	9.7,	1.5);	(413651.8,	3728225.8,	9.9,	9.9,	1.5);
(413671.8,	3728225.8,	9.7,	9.7,	1.5);	(413691.8,	3728225.8,	9.3,	9.3,	1.5);
(413711.8,	3728225.8,	9.6,	9.6,	1.5);	(413731.8,	3728225.8,	9.7,	9.7,	1.5);
(413751.8,	3728225.8,	9.9,	9.9,	1.5);	(413771.8,	3728225.8,	10.0,	10.0,	1.5);
(413791.8,	3728225.8,	10.1,	10.1,	1.5);	(413811.8,	3728225.8,	10.1,	10.1,	1.5);
(413831.8,	3728225.8,	10.0,	10.0,	1.5);	(413851.8,	3728225.8,	10.0,	10.0,	1.5);
(413871.8,	3728225.8,	10.0,	10.0,	1.5);	(413891.8,	3728225.8,	9.8,	9.8,	1.5);
(413911.8,	3728225.8,	9.1,	9.1,	1.5);	(413931.8,	3728225.8,	9.1,	9.1,	1.5);
(413951.8,	3728225.8,	9.5,	9.5,	1.5);	(413971.8,	3728225.8,	9.4,	9.4,	1.5);
(413991.8,	3728225.8,	8.9,	8.9,	1.5);	(414011.8,	3728225.8,	9.1,	9.1,	1.5);
(414031.8,	3728225.8,	9.5,	9.5,	1.5);	(414051.8,	3728225.8,	9.4,	9.4,	1.5);
(414071.8,	3728225.8,	8.9,	8.9,	1.5);	(414091.8,	3728225.8,	9.3,	9.3,	1.5);
(414111.8,	3728225.8,	9.5,	9.5,	1.5);	(414131.8,	3728225.8,	9.4,	9.4,	1.5);
(414151.8,	3728225.8,	9.3,	9.3,	1.5);	(414171.8,	3728225.8,	9.2,	9.2,	1.5);
(414191.8,	3728225.8,	9.3,	9.3,	1.5);	(414211.8,	3728225.8,	9.3,	9.3,	1.5);
(414231.8,	3728225.8,	9.1,	9.1,	1.5);	(414251.8,	3728225.8,	9.0,	9.0,	1.5);
(414271.8,	3728225.8,	9.3,	9.3,	1.5);	(414291.8,	3728225.8,	9.2,	9.2,	1.5);
(414311.8,	3728225.8,	9.0,	9.0,	1.5);	(414331.8,	3728225.8,	9.3,	9.3,	1.5);
(414351.8,	3728225.8,	9.4,	9.4,	1.5);	(414371.8,	3728225.8,	9.5,	9.5,	1.5);
(414391.8,	3728225.8,	9.6,	9.6,	1.5);	(414611.8,	3728225.8,	8.8,	8.8,	1.5);
(414631.8,	3728225.8,	8.8,	8.8,	1.5);	(414651.8,	3728225.8,	8.9,	8.9,	1.5);
(414671.8,	3728225.8,	9.0,	9.0,	1.5);	(414691.8,	3728225.8,	8.9,	8.9,	1.5);
(414711.8,	3728225.8,	8.6,	8.6,	1.5);	(414731.8,	3728225.8,	8.5,	8.5,	1.5);
(414751.8,	3728225.8,	8.7,	8.7,	1.5);	(413311.8,	3728245.8,	8.9,	8.9,	1.5);
(413331.8,	3728245.8,	9.2,	9.2,	1.5);	(413351.8,	3728245.8,	9.1,	9.1,	1.5);
(413371.8,	3728245.8,	9.4,	9.4,	1.5);	(413391.8,	3728245.8,	9.9,	9.9,	1.5);
(413411.8,	3728245.8,	10.2,	10.2,	1.5);	(413431.8,	3728245.8,	10.1,	10.1,	1.5);
(413451.8,	3728245.8,	10.1,	10.1,	1.5);	(413471.8,	3728245.8,	9.9,	9.9,	1.5);
(413491.8,	3728245.8,	9.7,	9.7,	1.5);	(413511.8,	3728245.8,	9.6,	9.6,	1.5);
(413531.8,	3728245.8,	10.1,	10.1,	1.5);	(413551.8,	3728245.8,	10.2,	10.2,	1.5);
(413571.8,	3728245.8,	10.1,	10.1,	1.5);	(413591.8,	3728245.8,	9.9,	9.9,	1.5);
(413611.8,	3728245.8,	9.4,	9.4,	1.5);	(413631.8,	3728245.8,	9.9,	9.9,	1.5);
(413651.8,	3728245.8,	9.9,	9.9,	1.5);	(413671.8,	3728245.8,	9.6,	9.6,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(413691.8, 3728245.8,	9.3,	9.3,	1.5);	(413711.8, 3728245.8,	10.0,	10.0,	1.5);
(413731.8, 3728245.8,	10.2,	10.2,	1.5);	(413751.8, 3728245.8,	9.9,	9.9,	1.5);
(413771.8, 3728245.8,	9.5,	9.5,	1.5);	(413791.8, 3728245.8,	9.5,	9.5,	1.5);
(413811.8, 3728245.8,	9.5,	9.5,	1.5);	(413831.8, 3728245.8,	9.5,	9.5,	1.5);
(413851.8, 3728245.8,	9.4,	9.4,	1.5);	(413871.8, 3728245.8,	9.3,	9.3,	1.5);
(413891.8, 3728245.8,	9.2,	9.2,	1.5);	(413911.8, 3728245.8,	8.8,	8.8,	1.5);
(413931.8, 3728245.8,	8.9,	8.9,	1.5);	(413951.8, 3728245.8,	9.2,	9.2,	1.5);
(413971.8, 3728245.8,	9.2,	9.2,	1.5);	(413991.8, 3728245.8,	8.7,	8.7,	1.5);
(414011.8, 3728245.8,	8.9,	8.9,	1.5);	(414031.8, 3728245.8,	9.2,	9.2,	1.5);
(414051.8, 3728245.8,	9.3,	9.3,	1.5);	(414071.8, 3728245.8,	8.8,	8.8,	1.5);
(414091.8, 3728245.8,	9.2,	9.2,	1.5);	(414111.8, 3728245.8,	9.6,	9.6,	1.5);
(414131.8, 3728245.8,	9.6,	9.6,	1.5);	(414151.8, 3728245.8,	9.4,	9.4,	1.5);
(414171.8, 3728245.8,	9.2,	9.2,	1.5);	(414191.8, 3728245.8,	9.3,	9.3,	1.5);
(414211.8, 3728245.8,	9.4,	9.4,	1.5);	(414231.8, 3728245.8,	9.2,	9.2,	1.5);
(414251.8, 3728245.8,	8.6,	8.6,	1.5);	(414271.8, 3728245.8,	9.0,	9.0,	1.5);
(414291.8, 3728245.8,	9.3,	9.3,	1.5);	(414311.8, 3728245.8,	9.4,	9.4,	1.5);
(414331.8, 3728245.8,	9.4,	9.4,	1.5);	(414351.8, 3728245.8,	9.4,	9.4,	1.5);
(414571.8, 3728245.8,	8.6,	8.6,	1.5);	(414591.8, 3728245.8,	8.9,	8.9,	1.5);
(414611.8, 3728245.8,	8.7,	8.7,	1.5);	(414631.8, 3728245.8,	8.9,	8.9,	1.5);
(414651.8, 3728245.8,	9.0,	9.0,	1.5);	(414671.8, 3728245.8,	8.8,	8.8,	1.5);
(414691.8, 3728245.8,	8.8,	8.8,	1.5);	(414711.8, 3728245.8,	8.5,	8.5,	1.5);
(414731.8, 3728245.8,	8.5,	8.5,	1.5);	(414751.8, 3728245.8,	8.7,	8.7,	1.5);
(413271.8, 3728265.8,	8.1,	8.1,	1.5);	(413291.8, 3728265.8,	8.5,	8.5,	1.5);
(413311.8, 3728265.8,	8.8,	8.8,	1.5);	(413331.8, 3728265.8,	9.0,	9.0,	1.5);
(413351.8, 3728265.8,	8.9,	8.9,	1.5);	(413371.8, 3728265.8,	9.3,	9.3,	1.5);
(413391.8, 3728265.8,	9.8,	9.8,	1.5);	(413411.8, 3728265.8,	10.1,	10.1,	1.5);
(413431.8, 3728265.8,	10.0,	10.0,	1.5);	(413451.8, 3728265.8,	9.9,	9.9,	1.5);
(413471.8, 3728265.8,	9.6,	9.6,	1.5);	(413491.8, 3728265.8,	9.5,	9.5,	1.5);
(413511.8, 3728265.8,	9.6,	9.6,	1.5);	(413531.8, 3728265.8,	10.0,	10.0,	1.5);
(413551.8, 3728265.8,	10.0,	10.0,	1.5);	(413571.8, 3728265.8,	9.8,	9.8,	1.5);
(413591.8, 3728265.8,	9.7,	9.7,	1.5);	(413611.8, 3728265.8,	9.7,	9.7,	1.5);
(413631.8, 3728265.8,	9.9,	9.9,	1.5);	(413651.8, 3728265.8,	9.9,	9.9,	1.5);
(413671.8, 3728265.8,	9.5,	9.5,	1.5);	(413691.8, 3728265.8,	9.2,	9.2,	1.5);
(413711.8, 3728265.8,	9.7,	9.7,	1.5);	(413731.8, 3728265.8,	9.8,	9.8,	1.5);
(413751.8, 3728265.8,	9.5,	9.5,	1.5);	(413771.8, 3728265.8,	9.1,	9.1,	1.5);
(413791.8, 3728265.8,	9.1,	9.1,	1.5);	(413811.8, 3728265.8,	9.1,	9.1,	1.5);
(413831.8, 3728265.8,	9.1,	9.1,	1.5);	(413851.8, 3728265.8,	9.1,	9.1,	1.5);
(413871.8, 3728265.8,	9.1,	9.1,	1.5);	(413891.8, 3728265.8,	9.1,	9.1,	1.5);
(413911.8, 3728265.8,	8.9,	8.9,	1.5);	(413931.8, 3728265.8,	8.9,	8.9,	1.5);
(413951.8, 3728265.8,	9.0,	9.0,	1.5);	(413971.8, 3728265.8,	9.0,	9.0,	1.5);
(413991.8, 3728265.8,	8.8,	8.8,	1.5);	(414011.8, 3728265.8,	8.9,	8.9,	1.5);
(414031.8, 3728265.8,	9.0,	9.0,	1.5);	(414051.8, 3728265.8,	9.0,	9.0,	1.5);
(414071.8, 3728265.8,	8.8,	8.8,	1.5);	(414091.8, 3728265.8,	9.1,	9.1,	1.5);
(414111.8, 3728265.8,	9.3,	9.3,	1.5);	(414131.8, 3728265.8,	9.2,	9.2,	1.5);
(414151.8, 3728265.8,	9.1,	9.1,	1.5);	(414171.8, 3728265.8,	8.9,	8.9,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414191.8,	3728265.8,	9.1,	9.1,	1.5);	(414211.8,	3728265.8,	9.3,	9.3,	1.5);
(414231.8,	3728265.8,	9.3,	9.3,	1.5);	(414251.8,	3728265.8,	9.0,	9.0,	1.5);
(414271.8,	3728265.8,	9.2,	9.2,	1.5);	(414291.8,	3728265.8,	9.4,	9.4,	1.5);
(414311.8,	3728265.8,	9.6,	9.6,	1.5);	(414531.8,	3728265.8,	8.9,	8.9,	1.5);
(414551.8,	3728265.8,	8.9,	8.9,	1.5);	(414571.8,	3728265.8,	8.9,	8.9,	1.5);
(414591.8,	3728265.8,	8.9,	8.9,	1.5);	(414611.8,	3728265.8,	8.6,	8.6,	1.5);
(414631.8,	3728265.8,	8.6,	8.6,	1.5);	(414651.8,	3728265.8,	8.8,	8.8,	1.5);
(414671.8,	3728265.8,	8.8,	8.8,	1.5);	(414691.8,	3728265.8,	8.8,	8.8,	1.5);
(414711.8,	3728265.8,	8.7,	8.7,	1.5);	(414731.8,	3728265.8,	8.6,	8.6,	1.5);
(414751.8,	3728265.8,	8.7,	8.7,	1.5);	(413211.8,	3728285.8,	7.6,	13.1,	1.5);
(413231.8,	3728285.8,	7.3,	13.1,	1.5);	(413251.8,	3728285.8,	5.2,	13.1,	1.5);
(413271.8,	3728285.8,	8.0,	8.8,	1.5);	(413291.8,	3728285.8,	8.7,	8.7,	1.5);
(413311.8,	3728285.8,	8.7,	8.7,	1.5);	(413331.8,	3728285.8,	8.6,	8.6,	1.5);
(413351.8,	3728285.8,	8.7,	8.7,	1.5);	(413371.8,	3728285.8,	9.3,	9.3,	1.5);
(413391.8,	3728285.8,	9.7,	9.7,	1.5);	(413411.8,	3728285.8,	9.8,	9.8,	1.5);
(413431.8,	3728285.8,	9.7,	9.7,	1.5);	(413451.8,	3728285.8,	9.6,	9.6,	1.5);
(413471.8,	3728285.8,	9.4,	9.4,	1.5);	(413491.8,	3728285.8,	9.4,	9.4,	1.5);
(413511.8,	3728285.8,	9.6,	9.6,	1.5);	(413531.8,	3728285.8,	9.7,	9.7,	1.5);
(413551.8,	3728285.8,	9.7,	9.7,	1.5);	(413571.8,	3728285.8,	9.6,	9.6,	1.5);
(413591.8,	3728285.8,	9.5,	9.5,	1.5);	(413611.8,	3728285.8,	10.0,	10.0,	1.5);
(413631.8,	3728285.8,	9.8,	9.8,	1.5);	(413651.8,	3728285.8,	9.7,	9.7,	1.5);
(413671.8,	3728285.8,	9.5,	9.5,	1.5);	(413691.8,	3728285.8,	9.1,	9.1,	1.5);
(413711.8,	3728285.8,	9.4,	9.4,	1.5);	(413731.8,	3728285.8,	9.3,	9.3,	1.5);
(413751.8,	3728285.8,	9.1,	9.1,	1.5);	(413771.8,	3728285.8,	8.9,	8.9,	1.5);
(413791.8,	3728285.8,	8.9,	8.9,	1.5);	(413811.8,	3728285.8,	8.9,	8.9,	1.5);
(413831.8,	3728285.8,	8.9,	8.9,	1.5);	(413851.8,	3728285.8,	8.9,	8.9,	1.5);
(413871.8,	3728285.8,	8.8,	8.8,	1.5);	(413891.8,	3728285.8,	8.8,	8.8,	1.5);
(413911.8,	3728285.8,	8.7,	8.7,	1.5);	(413931.8,	3728285.8,	8.7,	8.7,	1.5);
(413951.8,	3728285.8,	8.7,	8.7,	1.5);	(413971.8,	3728285.8,	8.6,	8.6,	1.5);
(413991.8,	3728285.8,	8.7,	8.7,	1.5);	(414011.8,	3728285.8,	8.7,	8.7,	1.5);
(414031.8,	3728285.8,	8.6,	8.6,	1.5);	(414051.8,	3728285.8,	8.6,	8.6,	1.5);
(414071.8,	3728285.8,	8.6,	8.6,	1.5);	(414091.8,	3728285.8,	8.9,	8.9,	1.5);
(414111.8,	3728285.8,	9.0,	9.0,	1.5);	(414131.8,	3728285.8,	8.9,	8.9,	1.5);
(414151.8,	3728285.8,	8.8,	8.8,	1.5);	(414171.8,	3728285.8,	8.7,	8.7,	1.5);
(414191.8,	3728285.8,	8.8,	8.8,	1.5);	(414211.8,	3728285.8,	9.0,	9.0,	1.5);
(414231.8,	3728285.8,	9.1,	9.1,	1.5);	(414251.8,	3728285.8,	9.4,	9.4,	1.5);
(414271.8,	3728285.8,	9.5,	9.5,	1.5);	(414491.8,	3728285.8,	8.4,	8.4,	1.5);
(414511.8,	3728285.8,	8.7,	8.7,	1.5);	(414531.8,	3728285.8,	8.7,	8.7,	1.5);
(414551.8,	3728285.8,	8.8,	8.8,	1.5);	(414571.8,	3728285.8,	8.8,	8.8,	1.5);
(414591.8,	3728285.8,	8.7,	8.7,	1.5);	(414611.8,	3728285.8,	8.6,	8.6,	1.5);
(414631.8,	3728285.8,	8.6,	8.6,	1.5);	(414651.8,	3728285.8,	8.6,	8.6,	1.5);
(414671.8,	3728285.8,	8.6,	8.6,	1.5);	(414691.8,	3728285.8,	8.6,	8.6,	1.5);
(414711.8,	3728285.8,	8.5,	8.5,	1.5);	(414731.8,	3728285.8,	8.5,	8.5,	1.5);
(414751.8,	3728285.8,	8.6,	8.6,	1.5);	(413231.8,	3728305.8,	7.7,	7.7,	1.5);
(413251.8,	3728305.8,	7.3,	8.5,	1.5);	(413271.8,	3728305.8,	5.5,	9.1,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(	413291.8,	3728305.8,	7.2,	9.1,	1.5);	(413311.8,	3728305.8,	9.0,	9.0,	1.5);
(	413331.8,	3728305.8,	9.1,	9.1,	1.5);	(413351.8,	3728305.8,	9.2,	9.2,	1.5);
(	413371.8,	3728305.8,	9.2,	9.2,	1.5);	(413391.8,	3728305.8,	9.3,	9.3,	1.5);
(	413411.8,	3728305.8,	9.3,	9.3,	1.5);	(413431.8,	3728305.8,	9.2,	9.2,	1.5);
(	413451.8,	3728305.8,	9.2,	9.2,	1.5);	(413471.8,	3728305.8,	9.1,	9.1,	1.5);
(	413491.8,	3728305.8,	9.0,	9.0,	1.5);	(413511.8,	3728305.8,	9.1,	9.1,	1.5);
(	413531.8,	3728305.8,	9.2,	9.2,	1.5);	(413551.8,	3728305.8,	9.3,	9.3,	1.5);
(	413571.8,	3728305.8,	9.3,	9.3,	1.5);	(413591.8,	3728305.8,	9.3,	9.3,	1.5);
(	413611.8,	3728305.8,	9.4,	9.4,	1.5);	(413631.8,	3728305.8,	9.3,	9.3,	1.5);
(	413651.8,	3728305.8,	9.2,	9.2,	1.5);	(413671.8,	3728305.8,	9.1,	9.1,	1.5);
(	413691.8,	3728305.8,	9.0,	9.0,	1.5);	(413711.8,	3728305.8,	9.0,	9.0,	1.5);
(	413731.8,	3728305.8,	9.2,	9.2,	1.5);	(413751.8,	3728305.8,	9.4,	9.4,	1.5);
(	413771.8,	3728305.8,	9.4,	9.4,	1.5);	(413791.8,	3728305.8,	9.4,	9.4,	1.5);
(	413811.8,	3728305.8,	9.4,	9.4,	1.5);	(413831.8,	3728305.8,	9.0,	9.0,	1.5);
(	413851.8,	3728305.8,	8.5,	8.5,	1.5);	(413871.8,	3728305.8,	7.9,	7.9,	1.5);
(	413891.8,	3728305.8,	7.9,	7.9,	1.5);	(413911.8,	3728305.8,	7.9,	7.9,	1.5);
(	413931.8,	3728305.8,	8.0,	8.0,	1.5);	(413951.8,	3728305.8,	8.1,	8.1,	1.5);
(	413971.8,	3728305.8,	8.0,	8.0,	1.5);	(413991.8,	3728305.8,	8.0,	8.0,	1.5);
(	414011.8,	3728305.8,	8.0,	8.0,	1.5);	(414031.8,	3728305.8,	7.9,	7.9,	1.5);
(	414051.8,	3728305.8,	7.8,	7.8,	1.5);	(414071.8,	3728305.8,	8.1,	8.1,	1.5);
(	414091.8,	3728305.8,	8.5,	8.5,	1.5);	(414111.8,	3728305.8,	8.7,	8.7,	1.5);
(	414131.8,	3728305.8,	8.8,	8.8,	1.5);	(414151.8,	3728305.8,	8.6,	8.6,	1.5);
(	414171.8,	3728305.8,	8.7,	8.7,	1.5);	(414191.8,	3728305.8,	8.6,	8.6,	1.5);
(	414211.8,	3728305.8,	8.6,	8.6,	1.5);	(414231.8,	3728305.8,	8.7,	8.7,	1.5);
(	413231.8,	3728325.8,	8.0,	13.4,	1.5);	(413251.8,	3728325.8,	8.4,	8.4,	1.5);
(	413271.8,	3728325.8,	5.6,	13.4,	1.5);	(413291.8,	3728325.8,	6.8,	9.1,	1.5);
(	413311.8,	3728325.8,	8.1,	8.1,	1.5);	(413331.8,	3728325.8,	7.6,	9.4,	1.5);
(	413351.8,	3728325.8,	9.1,	9.1,	1.5);	(413371.8,	3728325.8,	9.3,	9.3,	1.5);
(	413391.8,	3728325.8,	9.3,	9.3,	1.5);	(413411.8,	3728325.8,	9.3,	9.3,	1.5);
(	413431.8,	3728325.8,	9.2,	9.2,	1.5);	(413451.8,	3728325.8,	9.2,	9.2,	1.5);
(	413471.8,	3728325.8,	9.0,	9.0,	1.5);	(413491.8,	3728325.8,	9.0,	9.0,	1.5);
(	413511.8,	3728325.8,	9.2,	9.2,	1.5);	(413531.8,	3728325.8,	9.4,	9.4,	1.5);
(	413551.8,	3728325.8,	9.4,	9.4,	1.5);	(413571.8,	3728325.8,	9.5,	9.5,	1.5);
(	413591.8,	3728325.8,	9.5,	9.5,	1.5);	(413611.8,	3728325.8,	9.5,	9.5,	1.5);
(	413631.8,	3728325.8,	9.4,	9.4,	1.5);	(413651.8,	3728325.8,	9.4,	9.4,	1.5);
(	413671.8,	3728325.8,	9.3,	9.3,	1.5);	(413691.8,	3728325.8,	9.3,	9.3,	1.5);
(	413711.8,	3728325.8,	9.2,	9.2,	1.5);	(413731.8,	3728325.8,	8.7,	8.7,	1.5);
(	413751.8,	3728325.8,	7.8,	7.8,	1.5);	(413771.8,	3728325.8,	7.2,	9.5,	1.5);
(	413791.8,	3728325.8,	8.4,	8.4,	1.5);	(413811.8,	3728325.8,	8.9,	8.9,	1.5);
(	413831.8,	3728325.8,	8.8,	8.8,	1.5);	(413851.8,	3728325.8,	8.5,	8.5,	1.5);
(	413871.8,	3728325.8,	8.2,	8.2,	1.5);	(413891.8,	3728325.8,	8.2,	8.2,	1.5);
(	413911.8,	3728325.8,	8.2,	8.2,	1.5);	(413931.8,	3728325.8,	8.3,	8.3,	1.5);
(	413951.8,	3728325.8,	8.4,	8.4,	1.5);	(413971.8,	3728325.8,	8.4,	8.4,	1.5);
(	413991.8,	3728325.8,	8.5,	8.5,	1.5);	(414011.8,	3728325.8,	8.5,	8.5,	1.5);
(	414031.8,	3728325.8,	8.5,	8.5,	1.5);	(414051.8,	3728325.8,	8.5,	8.5,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414071.8, 3728325.8,	8.7,	8.7,	1.5);	(414091.8, 3728325.8,	8.8,	8.8,	1.5);
(414111.8, 3728325.8,	8.9,	8.9,	1.5);	(414131.8, 3728325.8,	8.9,	8.9,	1.5);
(414151.8, 3728325.8,	9.0,	9.0,	1.5);	(414171.8, 3728325.8,	9.1,	9.1,	1.5);
(414191.8, 3728325.8,	9.3,	9.3,	1.5);	(413251.8, 3728345.8,	8.4,	13.4,	1.5);
(413271.8, 3728345.8,	8.2,	8.2,	1.5);	(413291.8, 3728345.8,	7.7,	7.7,	1.5);
(413311.8, 3728345.8,	6.0,	7.2,	1.5);	(413331.8, 3728345.8,	3.9,	9.6,	1.5);
(413351.8, 3728345.8,	8.4,	9.2,	1.5);	(413371.8, 3728345.8,	9.5,	9.5,	1.5);
(413391.8, 3728345.8,	9.6,	9.6,	1.5);	(413411.8, 3728345.8,	9.7,	9.7,	1.5);
(413431.8, 3728345.8,	9.5,	9.5,	1.5);	(413451.8, 3728345.8,	9.5,	9.5,	1.5);
(413471.8, 3728345.8,	9.1,	9.1,	1.5);	(413491.8, 3728345.8,	9.0,	9.0,	1.5);
(413511.8, 3728345.8,	9.5,	9.5,	1.5);	(413531.8, 3728345.8,	9.6,	9.6,	1.5);
(413551.8, 3728345.8,	9.7,	9.7,	1.5);	(413571.8, 3728345.8,	9.7,	9.7,	1.5);
(413591.8, 3728345.8,	9.6,	9.6,	1.5);	(413611.8, 3728345.8,	9.5,	9.9,	1.5);
(413631.8, 3728345.8,	9.4,	9.4,	1.5);	(413651.8, 3728345.8,	9.4,	9.4,	1.5);
(413671.8, 3728345.8,	9.4,	9.4,	1.5);	(413691.8, 3728345.8,	9.5,	9.5,	1.5);
(413711.8, 3728345.8,	9.5,	9.5,	1.5);	(413731.8, 3728345.8,	8.2,	8.2,	1.5);
(413751.8, 3728345.8,	6.2,	6.2,	1.5);	(413771.8, 3728345.8,	5.0,	9.5,	1.5);
(413791.8, 3728345.8,	7.3,	7.3,	1.5);	(413811.8, 3728345.8,	8.2,	8.2,	1.5);
(413831.8, 3728345.8,	8.5,	8.5,	1.5);	(413851.8, 3728345.8,	8.6,	8.6,	1.5);
(413871.8, 3728345.8,	8.7,	8.7,	1.5);	(413891.8, 3728345.8,	8.6,	8.6,	1.5);
(413911.8, 3728345.8,	8.6,	8.6,	1.5);	(413931.8, 3728345.8,	8.6,	8.6,	1.5);
(413951.8, 3728345.8,	8.7,	8.7,	1.5);	(413971.8, 3728345.8,	8.8,	8.8,	1.5);
(413991.8, 3728345.8,	8.9,	8.9,	1.5);	(414011.8, 3728345.8,	8.9,	8.9,	1.5);
(414031.8, 3728345.8,	8.9,	8.9,	1.5);	(414051.8, 3728345.8,	9.1,	9.1,	1.5);
(414071.8, 3728345.8,	9.1,	9.1,	1.5);	(414091.8, 3728345.8,	9.1,	9.1,	1.5);
(414111.8, 3728345.8,	9.1,	9.1,	1.5);	(414131.8, 3728345.8,	9.2,	9.2,	1.5);
(414151.8, 3728345.8,	9.5,	9.5,	1.5);	(413251.8, 3728365.8,	8.7,	13.4,	1.5);
(413271.8, 3728365.8,	8.4,	13.4,	1.5);	(413291.8, 3728365.8,	7.9,	7.9,	1.5);
(413311.8, 3728365.8,	7.3,	7.3,	1.5);	(413331.8, 3728365.8,	6.9,	8.8,	1.5);
(413351.8, 3728365.8,	8.7,	8.7,	1.5);	(413371.8, 3728365.8,	8.2,	8.2,	1.5);
(413391.8, 3728365.8,	7.0,	9.7,	1.5);	(413411.8, 3728365.8,	5.7,	9.7,	1.5);
(413431.8, 3728365.8,	5.5,	9.7,	1.5);	(413451.8, 3728365.8,	5.5,	9.6,	1.5);
(413471.8, 3728365.8,	7.1,	7.1,	1.5);	(413491.8, 3728365.8,	7.7,	7.7,	1.5);
(413511.8, 3728365.8,	5.5,	9.9,	1.5);	(413531.8, 3728365.8,	5.6,	10.0,	1.5);
(413551.8, 3728365.8,	5.5,	10.0,	1.5);	(413571.8, 3728365.8,	5.5,	10.0,	1.5);
(413591.8, 3728365.8,	5.5,	10.0,	1.5);	(413611.8, 3728365.8,	5.6,	10.0,	1.5);
(413631.8, 3728365.8,	5.6,	9.9,	1.5);	(413651.8, 3728365.8,	5.9,	9.8,	1.5);
(413671.8, 3728365.8,	6.7,	9.7,	1.5);	(413691.8, 3728365.8,	7.8,	7.8,	1.5);
(413711.8, 3728365.8,	8.8,	8.8,	1.5);	(413731.8, 3728365.8,	8.7,	8.7,	1.5);
(413751.8, 3728365.8,	8.1,	8.1,	1.5);	(413771.8, 3728365.8,	7.7,	8.8,	1.5);
(413791.8, 3728365.8,	8.4,	8.4,	1.5);	(413811.8, 3728365.8,	8.4,	8.4,	1.5);
(413831.8, 3728365.8,	8.2,	8.2,	1.5);	(413851.8, 3728365.8,	8.0,	8.0,	1.5);
(413871.8, 3728365.8,	8.1,	8.1,	1.5);	(413891.8, 3728365.8,	8.1,	8.1,	1.5);
(413911.8, 3728365.8,	8.1,	8.1,	1.5);	(413931.8, 3728365.8,	8.1,	8.1,	1.5);
(413951.8, 3728365.8,	8.2,	8.2,	1.5);	(413971.8, 3728365.8,	8.3,	8.3,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(413991.8, 3728365.8,	8.3,	8.3,	1.5);	(414011.8, 3728365.8,	8.4,	8.4,	1.5);
(414031.8, 3728365.8,	8.5,	8.5,	1.5);	(414051.8, 3728365.8,	8.6,	8.6,	1.5);
(414071.8, 3728365.8,	8.7,	8.7,	1.5);	(414091.8, 3728365.8,	8.7,	8.7,	1.5);
(414111.8, 3728365.8,	9.2,	9.2,	1.5);	(414351.8, 3728365.8,	8.6,	8.6,	1.5);
(414371.8, 3728365.8,	8.6,	8.6,	1.5);	(414391.8, 3728365.8,	8.6,	8.6,	1.5);
(414411.8, 3728365.8,	8.8,	8.8,	1.5);	(414431.8, 3728365.8,	8.7,	8.7,	1.5);
(414451.8, 3728365.8,	8.8,	8.8,	1.5);	(414471.8, 3728365.8,	8.9,	8.9,	1.5);
(414491.8, 3728365.8,	8.8,	8.8,	1.5);	(414511.8, 3728365.8,	8.7,	8.7,	1.5);
(414531.8, 3728365.8,	8.6,	8.6,	1.5);	(414551.8, 3728365.8,	8.5,	8.5,	1.5);
(414571.8, 3728365.8,	8.5,	8.5,	1.5);	(414591.8, 3728365.8,	8.5,	8.5,	1.5);
(414611.8, 3728365.8,	8.6,	8.6,	1.5);	(414631.8, 3728365.8,	8.8,	8.8,	1.5);
(414651.8, 3728365.8,	8.9,	8.9,	1.5);	(414671.8, 3728365.8,	8.9,	8.9,	1.5);
(414691.8, 3728365.8,	8.9,	8.9,	1.5);	(414711.8, 3728365.8,	9.0,	9.0,	1.5);
(414731.8, 3728365.8,	9.1,	9.1,	1.5);	(414751.8, 3728365.8,	9.1,	9.1,	1.5);
(413271.8, 3728385.8,	8.5,	13.4,	1.5);	(413291.8, 3728385.8,	8.1,	8.1,	1.5);
(413311.8, 3728385.8,	8.1,	8.1,	1.5);	(413331.8, 3728385.8,	8.6,	8.6,	1.5);
(413351.8, 3728385.8,	8.8,	8.8,	1.5);	(413371.8, 3728385.8,	7.8,	7.8,	1.5);
(413391.8, 3728385.8,	6.3,	6.3,	1.5);	(413411.8, 3728385.8,	5.0,	9.7,	1.5);
(413431.8, 3728385.8,	5.0,	9.6,	1.5);	(413451.8, 3728385.8,	5.1,	9.5,	1.5);
(413471.8, 3728385.8,	6.9,	8.6,	1.5);	(413491.8, 3728385.8,	7.6,	7.6,	1.5);
(413511.8, 3728385.8,	5.4,	9.6,	1.5);	(413531.8, 3728385.8,	5.3,	9.9,	1.5);
(413551.8, 3728385.8,	5.4,	10.0,	1.5);	(413571.8, 3728385.8,	5.4,	10.0,	1.5);
(413591.8, 3728385.8,	5.5,	10.0,	1.5);	(413611.8, 3728385.8,	5.6,	9.9,	1.5);
(413631.8, 3728385.8,	5.6,	8.7,	1.5);	(413651.8, 3728385.8,	5.9,	8.6,	1.5);
(413671.8, 3728385.8,	6.7,	6.7,	1.5);	(413691.8, 3728385.8,	7.8,	7.8,	1.5);
(413711.8, 3728385.8,	8.5,	8.5,	1.5);	(413731.8, 3728385.8,	8.6,	8.6,	1.5);
(413751.8, 3728385.8,	8.5,	8.5,	1.5);	(413771.8, 3728385.8,	8.5,	8.5,	1.5);
(413791.8, 3728385.8,	8.7,	8.7,	1.5);	(413811.8, 3728385.8,	8.5,	8.5,	1.5);
(413831.8, 3728385.8,	8.3,	8.3,	1.5);	(413851.8, 3728385.8,	8.2,	8.2,	1.5);
(413871.8, 3728385.8,	8.3,	8.3,	1.5);	(413891.8, 3728385.8,	8.0,	8.0,	1.5);
(413911.8, 3728385.8,	8.1,	8.1,	1.5);	(413931.8, 3728385.8,	8.4,	8.4,	1.5);
(413951.8, 3728385.8,	8.5,	8.5,	1.5);	(413971.8, 3728385.8,	8.3,	8.3,	1.5);
(413991.8, 3728385.8,	8.4,	8.4,	1.5);	(414011.8, 3728385.8,	8.6,	8.6,	1.5);
(414031.8, 3728385.8,	8.7,	8.7,	1.5);	(414051.8, 3728385.8,	8.8,	8.8,	1.5);
(414071.8, 3728385.8,	9.2,	9.2,	1.5);	(414311.8, 3728385.8,	8.6,	8.6,	1.5);
(414331.8, 3728385.8,	8.7,	8.7,	1.5);	(414351.8, 3728385.8,	8.7,	8.7,	1.5);
(414371.8, 3728385.8,	8.8,	8.8,	1.5);	(414391.8, 3728385.8,	8.9,	8.9,	1.5);
(414411.8, 3728385.8,	9.2,	9.2,	1.5);	(414431.8, 3728385.8,	9.0,	9.0,	1.5);
(414451.8, 3728385.8,	9.1,	9.1,	1.5);	(414471.8, 3728385.8,	9.1,	9.1,	1.5);
(414491.8, 3728385.8,	9.0,	9.0,	1.5);	(414511.8, 3728385.8,	8.7,	8.7,	1.5);
(414531.8, 3728385.8,	8.7,	8.7,	1.5);	(414551.8, 3728385.8,	8.7,	8.7,	1.5);
(414571.8, 3728385.8,	8.8,	8.8,	1.5);	(414591.8, 3728385.8,	8.8,	8.8,	1.5);
(414611.8, 3728385.8,	8.9,	8.9,	1.5);	(414631.8, 3728385.8,	8.9,	8.9,	1.5);
(414651.8, 3728385.8,	9.0,	9.0,	1.5);	(414671.8, 3728385.8,	9.1,	9.1,	1.5);
(414691.8, 3728385.8,	9.1,	9.1,	1.5);	(414711.8, 3728385.8,	9.1,	9.1,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414731.8, 3728385.8,	9.1,	9.1,	1.5);	(414751.8, 3728385.8,	9.0,	9.0,	1.5);
(413271.8, 3728405.8,	8.8,	13.4,	1.5);	(413291.8, 3728405.8,	8.3,	8.3,	1.5);
(413311.8, 3728405.8,	8.1,	8.1,	1.5);	(413331.8, 3728405.8,	8.3,	8.3,	1.5);
(413351.8, 3728405.8,	8.6,	8.6,	1.5);	(413371.8, 3728405.8,	8.4,	8.4,	1.5);
(413391.8, 3728405.8,	8.1,	8.1,	1.5);	(413411.8, 3728405.8,	7.9,	7.9,	1.5);
(413431.8, 3728405.8,	8.4,	8.7,	1.5);	(413451.8, 3728405.8,	8.7,	8.7,	1.5);
(413471.8, 3728405.8,	8.6,	8.6,	1.5);	(413491.8, 3728405.8,	8.5,	8.5,	1.5);
(413511.8, 3728405.8,	8.8,	8.8,	1.5);	(413531.8, 3728405.8,	8.7,	8.7,	1.5);
(413551.8, 3728405.8,	8.7,	8.7,	1.5);	(413571.8, 3728405.8,	8.7,	8.7,	1.5);
(413591.8, 3728405.8,	8.7,	8.7,	1.5);	(413611.8, 3728405.8,	8.7,	8.7,	1.5);
(413631.8, 3728405.8,	8.6,	8.6,	1.5);	(413651.8, 3728405.8,	8.5,	8.5,	1.5);
(413671.8, 3728405.8,	8.6,	8.6,	1.5);	(413691.8, 3728405.8,	8.8,	8.8,	1.5);
(413711.8, 3728405.8,	8.5,	8.5,	1.5);	(413731.8, 3728405.8,	8.2,	8.2,	1.5);
(413751.8, 3728405.8,	8.1,	8.1,	1.5);	(413771.8, 3728405.8,	8.1,	8.1,	1.5);
(413791.8, 3728405.8,	8.4,	8.4,	1.5);	(413811.8, 3728405.8,	8.6,	8.6,	1.5);
(413831.8, 3728405.8,	8.6,	8.6,	1.5);	(413851.8, 3728405.8,	8.6,	8.6,	1.5);
(413871.8, 3728405.8,	8.8,	8.8,	1.5);	(413891.8, 3728405.8,	8.1,	8.1,	1.5);
(413911.8, 3728405.8,	8.3,	8.3,	1.5);	(413931.8, 3728405.8,	8.8,	8.8,	1.5);
(413951.8, 3728405.8,	9.0,	9.0,	1.5);	(413971.8, 3728405.8,	8.5,	8.5,	1.5);
(413991.8, 3728405.8,	8.7,	8.7,	1.5);	(414011.8, 3728405.8,	9.0,	9.0,	1.5);
(414031.8, 3728405.8,	9.2,	9.2,	1.5);	(414311.8, 3728405.8,	8.7,	8.7,	1.5);
(414331.8, 3728405.8,	9.0,	9.0,	1.5);	(414351.8, 3728405.8,	9.1,	9.1,	1.5);
(414371.8, 3728405.8,	9.1,	9.1,	1.5);	(414391.8, 3728405.8,	9.2,	9.2,	1.5);
(414411.8, 3728405.8,	9.4,	9.4,	1.5);	(414431.8, 3728405.8,	9.2,	9.2,	1.5);
(414451.8, 3728405.8,	9.3,	9.3,	1.5);	(414471.8, 3728405.8,	9.5,	9.5,	1.5);
(414491.8, 3728405.8,	9.6,	9.6,	1.5);	(414511.8, 3728405.8,	8.8,	8.8,	1.5);
(414531.8, 3728405.8,	8.8,	8.8,	1.5);	(414551.8, 3728405.8,	8.8,	8.8,	1.5);
(414571.8, 3728405.8,	8.9,	8.9,	1.5);	(414591.8, 3728405.8,	8.9,	8.9,	1.5);
(414611.8, 3728405.8,	9.1,	9.1,	1.5);	(414631.8, 3728405.8,	9.0,	9.0,	1.5);
(414651.8, 3728405.8,	9.0,	9.0,	1.5);	(414671.8, 3728405.8,	9.1,	9.1,	1.5);
(414691.8, 3728405.8,	9.1,	9.1,	1.5);	(414711.8, 3728405.8,	9.2,	9.2,	1.5);
(414731.8, 3728405.8,	9.1,	9.1,	1.5);	(414751.8, 3728405.8,	8.9,	8.9,	1.5);
(413291.8, 3728425.8,	8.4,	13.4,	1.5);	(413311.8, 3728425.8,	8.3,	8.3,	1.5);
(413331.8, 3728425.8,	8.1,	8.1,	1.5);	(413351.8, 3728425.8,	8.5,	8.5,	1.5);
(413371.8, 3728425.8,	8.6,	8.6,	1.5);	(413391.8, 3728425.8,	8.4,	8.4,	1.5);
(413411.8, 3728425.8,	8.1,	8.1,	1.5);	(413431.8, 3728425.8,	8.6,	8.6,	1.5);
(413451.8, 3728425.8,	8.9,	8.9,	1.5);	(413471.8, 3728425.8,	8.6,	8.6,	1.5);
(413491.8, 3728425.8,	8.3,	8.3,	1.5);	(413511.8, 3728425.8,	8.5,	8.5,	1.5);
(413531.8, 3728425.8,	8.4,	8.4,	1.5);	(413551.8, 3728425.8,	8.3,	8.3,	1.5);
(413571.8, 3728425.8,	8.3,	8.3,	1.5);	(413591.8, 3728425.8,	8.3,	8.3,	1.5);
(413611.8, 3728425.8,	8.3,	8.3,	1.5);	(413631.8, 3728425.8,	8.3,	8.3,	1.5);
(413651.8, 3728425.8,	8.3,	8.3,	1.5);	(413671.8, 3728425.8,	8.5,	8.5,	1.5);
(413691.8, 3728425.8,	8.8,	8.8,	1.5);	(413711.8, 3728425.8,	8.6,	8.6,	1.5);
(413731.8, 3728425.8,	8.5,	8.5,	1.5);	(413751.8, 3728425.8,	8.5,	8.5,	1.5);
(413771.8, 3728425.8,	8.6,	8.6,	1.5);	(413791.8, 3728425.8,	8.6,	8.6,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(	413811.8,	3728425.8,	8.8,	8.8,	1.5);	(413831.8,	3728425.8,	8.8,	8.8,	1.5);
(	413851.8,	3728425.8,	8.7,	8.7,	1.5);	(413871.8,	3728425.8,	8.6,	8.6,	1.5);
(	413891.8,	3728425.8,	8.1,	8.1,	1.5);	(413911.8,	3728425.8,	8.4,	8.4,	1.5);
(	413931.8,	3728425.8,	8.8,	8.8,	1.5);	(413951.8,	3728425.8,	9.0,	9.0,	1.5);
(	413971.8,	3728425.8,	8.6,	8.6,	1.5);	(413991.8,	3728425.8,	9.0,	9.0,	1.5);
(	414251.8,	3728425.8,	9.5,	9.5,	1.5);	(414271.8,	3728425.8,	9.1,	9.1,	1.5);
(	414311.8,	3728425.8,	8.5,	8.5,	1.5);	(414331.8,	3728425.8,	9.5,	9.5,	1.5);
(	414351.8,	3728425.8,	9.6,	9.6,	1.5);	(414371.8,	3728425.8,	9.6,	9.6,	1.5);
(	414391.8,	3728425.8,	9.5,	9.5,	1.5);	(414411.8,	3728425.8,	9.5,	9.5,	1.5);
(	414431.8,	3728425.8,	9.4,	9.4,	1.5);	(414451.8,	3728425.8,	9.4,	9.4,	1.5);
(	414471.8,	3728425.8,	10.1,	10.1,	1.5);	(414491.8,	3728425.8,	11.1,	11.7,	1.5);
(	414511.8,	3728425.8,	8.9,	11.7,	1.5);	(414531.8,	3728425.8,	8.7,	8.7,	1.5);
(	414551.8,	3728425.8,	8.8,	8.8,	1.5);	(414571.8,	3728425.8,	8.8,	8.8,	1.5);
(	414591.8,	3728425.8,	8.9,	8.9,	1.5);	(414611.8,	3728425.8,	9.1,	9.1,	1.5);
(	414631.8,	3728425.8,	9.0,	9.0,	1.5);	(414651.8,	3728425.8,	9.0,	9.0,	1.5);
(	414671.8,	3728425.8,	9.1,	9.1,	1.5);	(414691.8,	3728425.8,	9.1,	9.1,	1.5);
(	414711.8,	3728425.8,	9.2,	9.2,	1.5);	(414731.8,	3728425.8,	9.1,	9.1,	1.5);
(	414751.8,	3728425.8,	8.9,	8.9,	1.5);	(413291.8,	3728445.8,	8.7,	13.4,	1.5);
(	413311.8,	3728445.8,	8.4,	8.4,	1.5);	(413331.8,	3728445.8,	8.1,	8.1,	1.5);
(	413351.8,	3728445.8,	8.3,	8.3,	1.5);	(413371.8,	3728445.8,	8.6,	8.6,	1.5);
(	413391.8,	3728445.8,	8.5,	8.5,	1.5);	(413411.8,	3728445.8,	8.2,	8.2,	1.5);
(	413431.8,	3728445.8,	8.6,	8.6,	1.5);	(413451.8,	3728445.8,	8.8,	8.8,	1.5);
(	413471.8,	3728445.8,	8.6,	8.6,	1.5);	(413491.8,	3728445.8,	8.4,	8.4,	1.5);
(	413511.8,	3728445.8,	8.4,	8.4,	1.5);	(413531.8,	3728445.8,	8.3,	8.3,	1.5);
(	413551.8,	3728445.8,	8.3,	8.3,	1.5);	(413571.8,	3728445.8,	8.3,	8.3,	1.5);
(	413591.8,	3728445.8,	8.3,	8.3,	1.5);	(413611.8,	3728445.8,	8.3,	8.3,	1.5);
(	413631.8,	3728445.8,	8.2,	8.2,	1.5);	(413651.8,	3728445.8,	8.3,	8.3,	1.5);
(	413671.8,	3728445.8,	8.4,	8.4,	1.5);	(413691.8,	3728445.8,	8.7,	8.7,	1.5);
(	413711.8,	3728445.8,	8.7,	8.7,	1.5);	(413731.8,	3728445.8,	8.6,	8.6,	1.5);
(	413751.8,	3728445.8,	8.6,	8.6,	1.5);	(413771.8,	3728445.8,	8.8,	8.8,	1.5);
(	413791.8,	3728445.8,	8.7,	8.7,	1.5);	(413811.8,	3728445.8,	8.7,	8.7,	1.5);
(	413831.8,	3728445.8,	8.6,	8.6,	1.5);	(413851.8,	3728445.8,	8.5,	8.5,	1.5);
(	413871.8,	3728445.8,	8.4,	8.4,	1.5);	(413891.8,	3728445.8,	8.3,	8.3,	1.5);
(	413911.8,	3728445.8,	8.6,	8.6,	1.5);	(413931.8,	3728445.8,	8.9,	8.9,	1.5);
(	413951.8,	3728445.8,	9.3,	9.3,	1.5);	(414191.8,	3728445.8,	9.4,	9.4,	1.5);
(	414211.8,	3728445.8,	9.5,	9.5,	1.5);	(414231.8,	3728445.8,	9.4,	9.4,	1.5);
(	414251.8,	3728445.8,	9.5,	9.5,	1.5);	(414271.8,	3728445.8,	9.1,	9.1,	1.5);
(	414311.8,	3728445.8,	8.5,	8.5,	1.5);	(414331.8,	3728445.8,	9.6,	9.6,	1.5);
(	414351.8,	3728445.8,	9.7,	9.7,	1.5);	(414371.8,	3728445.8,	9.6,	9.6,	1.5);
(	414391.8,	3728445.8,	9.5,	9.5,	1.5);	(414411.8,	3728445.8,	9.2,	9.2,	1.5);
(	414431.8,	3728445.8,	9.3,	9.3,	1.5);	(414451.8,	3728445.8,	9.4,	9.4,	1.5);
(	414471.8,	3728445.8,	9.6,	9.6,	1.5);	(414491.8,	3728445.8,	9.7,	11.7,	1.5);
(	414511.8,	3728445.8,	8.8,	8.8,	1.5);	(414531.8,	3728445.8,	8.6,	8.6,	1.5);
(	414551.8,	3728445.8,	8.6,	8.6,	1.5);	(414571.8,	3728445.8,	8.6,	8.6,	1.5);
(	414591.8,	3728445.8,	8.7,	8.7,	1.5);	(414611.8,	3728445.8,	8.8,	8.8,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414631.8, 3728445.8,	8.8,	8.8,	1.5);	(414651.8, 3728445.8,	8.8,	8.8,	1.5);
(414671.8, 3728445.8,	8.9,	8.9,	1.5);	(414691.8, 3728445.8,	8.9,	8.9,	1.5);
(414711.8, 3728445.8,	9.1,	9.1,	1.5);	(414731.8, 3728445.8,	9.1,	9.1,	1.5);
(414751.8, 3728445.8,	9.0,	9.0,	1.5);	(413311.8, 3728465.8,	8.4,	8.4,	1.5);
(413331.8, 3728465.8,	8.2,	8.2,	1.5);	(413351.8, 3728465.8,	8.1,	8.1,	1.5);
(413371.8, 3728465.8,	8.4,	8.4,	1.5);	(413391.8, 3728465.8,	8.6,	8.6,	1.5);
(413411.8, 3728465.8,	8.5,	8.5,	1.5);	(413431.8, 3728465.8,	8.7,	8.7,	1.5);
(413451.8, 3728465.8,	8.8,	8.8,	1.5);	(413471.8, 3728465.8,	8.7,	8.7,	1.5);
(413491.8, 3728465.8,	8.6,	8.6,	1.5);	(413511.8, 3728465.8,	8.8,	8.8,	1.5);
(413531.8, 3728465.8,	8.8,	8.8,	1.5);	(413551.8, 3728465.8,	8.9,	8.9,	1.5);
(413571.8, 3728465.8,	8.9,	8.9,	1.5);	(413591.8, 3728465.8,	8.8,	8.8,	1.5);
(413611.8, 3728465.8,	8.8,	8.8,	1.5);	(413631.8, 3728465.8,	8.6,	8.6,	1.5);
(413651.8, 3728465.8,	8.5,	8.5,	1.5);	(413671.8, 3728465.8,	8.5,	8.5,	1.5);
(413691.8, 3728465.8,	8.6,	8.6,	1.5);	(413711.8, 3728465.8,	8.9,	8.9,	1.5);
(413731.8, 3728465.8,	8.6,	8.6,	1.5);	(413751.8, 3728465.8,	8.5,	8.5,	1.5);
(413771.8, 3728465.8,	9.0,	9.0,	1.5);	(413791.8, 3728465.8,	8.8,	8.8,	1.5);
(413811.8, 3728465.8,	8.4,	8.4,	1.5);	(413831.8, 3728465.8,	8.2,	8.2,	1.5);
(413851.8, 3728465.8,	8.2,	8.2,	1.5);	(413871.8, 3728465.8,	8.4,	8.4,	1.5);
(413891.8, 3728465.8,	8.7,	8.7,	1.5);	(413911.8, 3728465.8,	8.8,	8.8,	1.5);
(414131.8, 3728465.8,	9.4,	9.4,	1.5);	(414151.8, 3728465.8,	9.4,	9.4,	1.5);
(414171.8, 3728465.8,	9.6,	9.6,	1.5);	(414191.8, 3728465.8,	9.8,	9.8,	1.5);
(414211.8, 3728465.8,	9.8,	9.8,	1.5);	(414231.8, 3728465.8,	9.4,	9.4,	1.5);
(414251.8, 3728465.8,	9.4,	9.4,	1.5);	(414271.8, 3728465.8,	9.1,	9.1,	1.5);
(414311.8, 3728465.8,	8.6,	8.6,	1.5);	(414331.8, 3728465.8,	9.6,	9.6,	1.5);
(414351.8, 3728465.8,	9.7,	9.7,	1.5);	(414371.8, 3728465.8,	9.7,	9.7,	1.5);
(414391.8, 3728465.8,	9.5,	9.5,	1.5);	(414411.8, 3728465.8,	8.9,	8.9,	1.5);
(414431.8, 3728465.8,	9.6,	9.6,	1.5);	(414451.8, 3728465.8,	9.9,	9.9,	1.5);
(414471.8, 3728465.8,	9.6,	9.6,	1.5);	(414491.8, 3728465.8,	8.9,	8.9,	1.5);
(414511.8, 3728465.8,	8.7,	8.7,	1.5);	(414531.8, 3728465.8,	8.6,	8.6,	1.5);
(414551.8, 3728465.8,	8.6,	8.6,	1.5);	(414571.8, 3728465.8,	8.6,	8.6,	1.5);
(414591.8, 3728465.8,	8.7,	8.7,	1.5);	(414611.8, 3728465.8,	8.7,	8.7,	1.5);
(414631.8, 3728465.8,	8.8,	8.8,	1.5);	(414651.8, 3728465.8,	8.9,	8.9,	1.5);
(414671.8, 3728465.8,	8.9,	8.9,	1.5);	(414691.8, 3728465.8,	9.0,	9.0,	1.5);
(414711.8, 3728465.8,	9.1,	9.1,	1.5);	(414731.8, 3728465.8,	9.1,	9.1,	1.5);
(414751.8, 3728465.8,	9.0,	9.0,	1.5);	(413311.8, 3728485.8,	8.7,	13.5,	1.5);
(413331.8, 3728485.8,	8.5,	8.5,	1.5);	(413351.8, 3728485.8,	8.2,	8.2,	1.5);
(413371.8, 3728485.8,	8.3,	8.3,	1.5);	(413391.8, 3728485.8,	8.5,	8.5,	1.5);
(413411.8, 3728485.8,	8.7,	8.7,	1.5);	(413431.8, 3728485.8,	8.7,	8.7,	1.5);
(413451.8, 3728485.8,	8.9,	8.9,	1.5);	(413471.8, 3728485.8,	8.8,	8.8,	1.5);
(413491.8, 3728485.8,	8.7,	8.7,	1.5);	(413511.8, 3728485.8,	9.0,	9.0,	1.5);
(413531.8, 3728485.8,	9.2,	9.2,	1.5);	(413551.8, 3728485.8,	9.1,	9.1,	1.5);
(413571.8, 3728485.8,	9.1,	9.1,	1.5);	(413591.8, 3728485.8,	9.2,	9.2,	1.5);
(413611.8, 3728485.8,	9.2,	9.2,	1.5);	(413631.8, 3728485.8,	8.8,	8.8,	1.5);
(413651.8, 3728485.8,	8.6,	8.6,	1.5);	(413671.8, 3728485.8,	8.5,	8.5,	1.5);
(413691.8, 3728485.8,	8.8,	8.8,	1.5);	(413711.8, 3728485.8,	9.0,	9.0,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(413731.8, 3728485.8,	8.7,	8.7,	1.5);	(413751.8, 3728485.8,	8.6,	8.6,	1.5);
(413771.8, 3728485.8,	8.8,	8.8,	1.5);	(413791.8, 3728485.8,	8.9,	8.9,	1.5);
(413811.8, 3728485.8,	8.7,	8.7,	1.5);	(413831.8, 3728485.8,	8.7,	8.7,	1.5);
(413851.8, 3728485.8,	8.8,	8.8,	1.5);	(413871.8, 3728485.8,	8.7,	8.7,	1.5);
(414091.8, 3728485.8,	9.6,	9.6,	1.5);	(414111.8, 3728485.8,	9.7,	9.7,	1.5);
(414131.8, 3728485.8,	9.7,	9.7,	1.5);	(414151.8, 3728485.8,	9.7,	9.7,	1.5);
(414171.8, 3728485.8,	9.8,	9.8,	1.5);	(414191.8, 3728485.8,	9.9,	9.9,	1.5);
(414211.8, 3728485.8,	9.7,	9.7,	1.5);	(414231.8, 3728485.8,	9.2,	9.2,	1.5);
(414251.8, 3728485.8,	9.2,	9.2,	1.5);	(414271.8, 3728485.8,	9.1,	9.1,	1.5);
(414311.8, 3728485.8,	8.7,	8.7,	1.5);	(414331.8, 3728485.8,	9.8,	9.8,	1.5);
(414351.8, 3728485.8,	9.8,	9.8,	1.5);	(414371.8, 3728485.8,	9.9,	9.9,	1.5);
(414391.8, 3728485.8,	9.8,	9.8,	1.5);	(414411.8, 3728485.8,	8.6,	11.6,	1.5);
(414431.8, 3728485.8,	10.6,	11.6,	1.5);	(414451.8, 3728485.8,	11.2,	11.2,	1.5);
(414471.8, 3728485.8,	11.0,	11.0,	1.5);	(414491.8, 3728485.8,	10.4,	11.0,	1.5);
(414511.8, 3728485.8,	8.9,	8.9,	1.5);	(414531.8, 3728485.8,	8.9,	8.9,	1.5);
(414551.8, 3728485.8,	8.9,	8.9,	1.5);	(414571.8, 3728485.8,	8.9,	8.9,	1.5);
(414591.8, 3728485.8,	9.0,	9.0,	1.5);	(414611.8, 3728485.8,	8.9,	8.9,	1.5);
(414631.8, 3728485.8,	9.1,	9.1,	1.5);	(414651.8, 3728485.8,	9.2,	9.2,	1.5);
(414671.8, 3728485.8,	9.2,	9.2,	1.5);	(414691.8, 3728485.8,	9.3,	9.3,	1.5);
(414711.8, 3728485.8,	9.2,	9.2,	1.5);	(414731.8, 3728485.8,	9.1,	9.1,	1.5);
(414751.8, 3728485.8,	9.0,	9.0,	1.5);	(413331.8, 3728505.8,	8.6,	13.5,	1.5);
(413351.8, 3728505.8,	8.5,	8.5,	1.5);	(413371.8, 3728505.8,	8.2,	8.2,	1.5);
(413391.8, 3728505.8,	8.4,	8.4,	1.5);	(413411.8, 3728505.8,	8.9,	8.9,	1.5);
(413431.8, 3728505.8,	8.8,	8.8,	1.5);	(413451.8, 3728505.8,	8.9,	8.9,	1.5);
(413471.8, 3728505.8,	8.8,	8.8,	1.5);	(413491.8, 3728505.8,	8.7,	8.7,	1.5);
(413511.8, 3728505.8,	9.0,	9.0,	1.5);	(413531.8, 3728505.8,	9.3,	9.3,	1.5);
(413551.8, 3728505.8,	9.2,	9.2,	1.5);	(413571.8, 3728505.8,	9.2,	9.2,	1.5);
(413591.8, 3728505.8,	9.5,	9.5,	1.5);	(413611.8, 3728505.8,	9.4,	9.4,	1.5);
(413631.8, 3728505.8,	8.9,	8.9,	1.5);	(413651.8, 3728505.8,	8.6,	8.6,	1.5);
(413671.8, 3728505.8,	8.6,	8.6,	1.5);	(413691.8, 3728505.8,	8.9,	8.9,	1.5);
(413711.8, 3728505.8,	9.0,	9.0,	1.5);	(413731.8, 3728505.8,	8.7,	8.7,	1.5);
(413751.8, 3728505.8,	8.6,	8.6,	1.5);	(413771.8, 3728505.8,	8.8,	8.8,	1.5);
(413791.8, 3728505.8,	9.0,	9.0,	1.5);	(413811.8, 3728505.8,	9.0,	9.0,	1.5);
(413831.8, 3728505.8,	9.1,	9.1,	1.5);	(414051.8, 3728505.8,	9.5,	9.5,	1.5);
(414071.8, 3728505.8,	9.6,	9.6,	1.5);	(414091.8, 3728505.8,	9.7,	9.7,	1.5);
(414111.8, 3728505.8,	9.8,	9.8,	1.5);	(414131.8, 3728505.8,	9.9,	9.9,	1.5);
(414151.8, 3728505.8,	9.8,	9.8,	1.5);	(414171.8, 3728505.8,	9.8,	9.8,	1.5);
(414191.8, 3728505.8,	9.8,	9.8,	1.5);	(414211.8, 3728505.8,	9.6,	9.6,	1.5);
(414231.8, 3728505.8,	9.2,	9.2,	1.5);	(414251.8, 3728505.8,	9.1,	9.1,	1.5);
(414271.8, 3728505.8,	9.0,	9.0,	1.5);	(414311.8, 3728505.8,	8.8,	8.8,	1.5);
(414331.8, 3728505.8,	9.2,	9.2,	1.5);	(414351.8, 3728505.8,	9.2,	9.2,	1.5);
(414371.8, 3728505.8,	9.3,	9.3,	1.5);	(414391.8, 3728505.8,	9.4,	9.4,	1.5);
(414411.8, 3728505.8,	8.8,	8.8,	1.5);	(414431.8, 3728505.8,	9.8,	11.6,	1.5);
(414451.8, 3728505.8,	10.0,	10.0,	1.5);	(414471.8, 3728505.8,	9.9,	9.9,	1.5);
(414491.8, 3728505.8,	9.5,	9.5,	1.5);	(414511.8, 3728505.8,	8.7,	8.7,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(	414531.8,	3728505.8,	8.8,	8.8,	1.5);	(414551.8,	3728505.8,	8.9,	8.9,	1.5);
(	414571.8,	3728505.8,	8.9,	8.9,	1.5);	(414591.8,	3728505.8,	8.9,	8.9,	1.5);
(	414611.8,	3728505.8,	8.9,	8.9,	1.5);	(414631.8,	3728505.8,	9.1,	9.1,	1.5);
(	414651.8,	3728505.8,	9.2,	9.2,	1.5);	(414671.8,	3728505.8,	9.2,	9.2,	1.5);
(	414691.8,	3728505.8,	9.2,	9.2,	1.5);	(414711.8,	3728505.8,	9.2,	9.2,	1.5);
(	414731.8,	3728505.8,	9.2,	9.2,	1.5);	(414751.8,	3728505.8,	9.1,	9.1,	1.5);
(	413331.8,	3728525.8,	8.7,	13.5,	1.5);	(413351.8,	3728525.8,	8.7,	13.5,	1.5);
(	413371.8,	3728525.8,	8.4,	8.4,	1.5);	(413391.8,	3728525.8,	8.4,	8.4,	1.5);
(	413411.8,	3728525.8,	8.9,	8.9,	1.5);	(413431.8,	3728525.8,	8.8,	8.8,	1.5);
(	413451.8,	3728525.8,	9.2,	9.2,	1.5);	(413471.8,	3728525.8,	9.0,	9.0,	1.5);
(	413491.8,	3728525.8,	8.7,	8.7,	1.5);	(413511.8,	3728525.8,	8.8,	8.8,	1.5);
(	413531.8,	3728525.8,	8.9,	8.9,	1.5);	(413551.8,	3728525.8,	9.1,	9.1,	1.5);
(	413571.8,	3728525.8,	9.3,	9.3,	1.5);	(413591.8,	3728525.8,	9.6,	9.6,	1.5);
(	413611.8,	3728525.8,	9.4,	9.4,	1.5);	(413631.8,	3728525.8,	8.7,	8.7,	1.5);
(	413651.8,	3728525.8,	8.5,	8.5,	1.5);	(413671.8,	3728525.8,	8.7,	8.7,	1.5);
(	413691.8,	3728525.8,	9.1,	9.1,	1.5);	(413711.8,	3728525.8,	8.7,	8.7,	1.5);
(	413731.8,	3728525.8,	8.5,	8.5,	1.5);	(413751.8,	3728525.8,	8.6,	8.6,	1.5);
(	413771.8,	3728525.8,	9.0,	9.0,	1.5);	(413791.8,	3728525.8,	9.1,	9.1,	1.5);
(	414031.8,	3728525.8,	9.5,	9.5,	1.5);	(414051.8,	3728525.8,	9.8,	9.8,	1.5);
(	414071.8,	3728525.8,	9.8,	9.8,	1.5);	(414091.8,	3728525.8,	9.8,	9.8,	1.5);
(	414111.8,	3728525.8,	9.8,	9.8,	1.5);	(414131.8,	3728525.8,	9.8,	9.8,	1.5);
(	414151.8,	3728525.8,	9.8,	9.8,	1.5);	(414171.8,	3728525.8,	9.8,	9.8,	1.5);
(	414191.8,	3728525.8,	9.6,	9.6,	1.5);	(414211.8,	3728525.8,	9.4,	9.4,	1.5);
(	414231.8,	3728525.8,	9.4,	9.4,	1.5);	(414251.8,	3728525.8,	9.0,	9.0,	1.5);
(	414271.8,	3728525.8,	8.9,	8.9,	1.5);	(414311.8,	3728525.8,	8.7,	8.7,	1.5);
(	414331.8,	3728525.8,	8.5,	8.5,	1.5);	(414351.8,	3728525.8,	8.6,	8.6,	1.5);
(	414371.8,	3728525.8,	8.7,	8.7,	1.5);	(414391.8,	3728525.8,	8.9,	8.9,	1.5);
(	414411.8,	3728525.8,	9.1,	9.1,	1.5);	(414431.8,	3728525.8,	8.8,	8.8,	1.5);
(	414451.8,	3728525.8,	8.6,	8.6,	1.5);	(414471.8,	3728525.8,	8.4,	8.4,	1.5);
(	414491.8,	3728525.8,	8.3,	8.3,	1.5);	(414511.8,	3728525.8,	8.5,	8.5,	1.5);
(	414531.8,	3728525.8,	8.8,	8.8,	1.5);	(414551.8,	3728525.8,	8.9,	8.9,	1.5);
(	414571.8,	3728525.8,	8.9,	8.9,	1.5);	(414591.8,	3728525.8,	9.0,	9.0,	1.5);
(	414611.8,	3728525.8,	9.0,	9.0,	1.5);	(414631.8,	3728525.8,	9.1,	9.1,	1.5);
(	414651.8,	3728525.8,	9.1,	9.1,	1.5);	(414671.8,	3728525.8,	9.2,	9.2,	1.5);
(	414691.8,	3728525.8,	9.2,	9.2,	1.5);	(414711.8,	3728525.8,	9.2,	9.2,	1.5);
(	414731.8,	3728525.8,	9.3,	9.3,	1.5);	(414751.8,	3728525.8,	9.2,	9.2,	1.5);
(	413351.8,	3728545.8,	9.1,	9.1,	1.5);	(413371.8,	3728545.8,	8.7,	8.7,	1.5);
(	413391.8,	3728545.8,	8.7,	8.7,	1.5);	(413411.8,	3728545.8,	9.0,	9.0,	1.5);
(	413431.8,	3728545.8,	9.0,	9.0,	1.5);	(413451.8,	3728545.8,	9.0,	9.0,	1.5);
(	413471.8,	3728545.8,	9.0,	9.0,	1.5);	(413491.8,	3728545.8,	9.0,	9.0,	1.5);
(	413511.8,	3728545.8,	9.1,	9.1,	1.5);	(413531.8,	3728545.8,	9.2,	9.2,	1.5);
(	413551.8,	3728545.8,	9.2,	9.2,	1.5);	(413571.8,	3728545.8,	9.2,	9.2,	1.5);
(	413591.8,	3728545.8,	9.1,	9.1,	1.5);	(413611.8,	3728545.8,	9.0,	9.0,	1.5);
(	413631.8,	3728545.8,	8.4,	8.4,	1.5);	(413651.8,	3728545.8,	8.3,	8.3,	1.5);
(	413671.8,	3728545.8,	8.6,	8.6,	1.5);	(413691.8,	3728545.8,	8.9,	8.9,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(413711.8,	3728545.8,	8.9,	8.9,	1.5);	(413731.8,	3728545.8,	8.9,	8.9,	1.5);
(413751.8,	3728545.8,	9.1,	9.1,	1.5);	(414031.8,	3728545.8,	9.5,	9.5,	1.5);
(414051.8,	3728545.8,	9.7,	9.7,	1.5);	(414071.8,	3728545.8,	9.8,	9.8,	1.5);
(414091.8,	3728545.8,	9.7,	9.7,	1.5);	(414111.8,	3728545.8,	9.6,	9.6,	1.5);
(414131.8,	3728545.8,	9.5,	9.5,	1.5);	(414151.8,	3728545.8,	9.5,	9.5,	1.5);
(414171.8,	3728545.8,	9.6,	9.6,	1.5);	(414191.8,	3728545.8,	9.7,	9.7,	1.5);
(414211.8,	3728545.8,	9.8,	9.8,	1.5);	(414231.8,	3728545.8,	9.8,	9.8,	1.5);
(414251.8,	3728545.8,	9.5,	9.5,	1.5);	(414271.8,	3728545.8,	9.2,	9.2,	1.5);
(414311.8,	3728545.8,	8.4,	8.4,	1.5);	(414331.8,	3728545.8,	8.4,	8.4,	1.5);
(414351.8,	3728545.8,	8.6,	8.6,	1.5);	(414371.8,	3728545.8,	8.8,	8.8,	1.5);
(414391.8,	3728545.8,	9.0,	9.0,	1.5);	(414411.8,	3728545.8,	9.2,	9.2,	1.5);
(414431.8,	3728545.8,	8.9,	8.9,	1.5);	(414451.8,	3728545.8,	8.6,	8.6,	1.5);
(414471.8,	3728545.8,	8.4,	8.4,	1.5);	(414491.8,	3728545.8,	8.3,	8.3,	1.5);
(414511.8,	3728545.8,	8.5,	8.5,	1.5);	(414531.8,	3728545.8,	8.7,	8.7,	1.5);
(414551.8,	3728545.8,	8.9,	8.9,	1.5);	(414571.8,	3728545.8,	9.1,	9.1,	1.5);
(414591.8,	3728545.8,	9.1,	9.1,	1.5);	(414611.8,	3728545.8,	9.1,	9.1,	1.5);
(414631.8,	3728545.8,	9.2,	9.2,	1.5);	(414651.8,	3728545.8,	9.2,	9.2,	1.5);
(414671.8,	3728545.8,	9.3,	9.3,	1.5);	(414691.8,	3728545.8,	9.4,	9.4,	1.5);
(414711.8,	3728545.8,	9.4,	9.4,	1.5);	(414731.8,	3728545.8,	9.4,	9.4,	1.5);
(414751.8,	3728545.8,	9.4,	9.4,	1.5);	(413351.8,	3728565.8,	9.4,	9.4,	1.5);
(413371.8,	3728565.8,	9.1,	9.1,	1.5);	(413391.8,	3728565.8,	9.0,	9.0,	1.5);
(413411.8,	3728565.8,	9.1,	9.1,	1.5);	(413431.8,	3728565.8,	9.2,	9.2,	1.5);
(413451.8,	3728565.8,	8.8,	8.8,	1.5);	(413471.8,	3728565.8,	8.9,	8.9,	1.5);
(413491.8,	3728565.8,	9.3,	9.3,	1.5);	(413511.8,	3728565.8,	9.3,	9.3,	1.5);
(413531.8,	3728565.8,	9.4,	9.4,	1.5);	(413551.8,	3728565.8,	9.2,	9.2,	1.5);
(413571.8,	3728565.8,	9.0,	9.0,	1.5);	(413591.8,	3728565.8,	8.6,	8.6,	1.5);
(413611.8,	3728565.8,	8.6,	8.6,	1.5);	(413631.8,	3728565.8,	8.3,	8.3,	1.5);
(413651.8,	3728565.8,	8.3,	8.3,	1.5);	(413671.8,	3728565.8,	8.7,	8.7,	1.5);
(413691.8,	3728565.8,	9.2,	9.2,	1.5);	(413711.8,	3728565.8,	9.5,	9.5,	1.5);
(414031.8,	3728565.8,	9.5,	9.5,	1.5);	(414051.8,	3728565.8,	9.7,	9.7,	1.5);
(414071.8,	3728565.8,	9.8,	9.8,	1.5);	(414091.8,	3728565.8,	9.6,	9.6,	1.5);
(414111.8,	3728565.8,	9.4,	9.4,	1.5);	(414131.8,	3728565.8,	9.3,	9.3,	1.5);
(414151.8,	3728565.8,	9.4,	9.4,	1.5);	(414171.8,	3728565.8,	9.7,	9.7,	1.5);
(414191.8,	3728565.8,	9.9,	9.9,	1.5);	(414211.8,	3728565.8,	10.0,	10.0,	1.5);
(414231.8,	3728565.8,	10.0,	10.0,	1.5);	(414251.8,	3728565.8,	9.8,	9.8,	1.5);
(414271.8,	3728565.8,	9.4,	9.4,	1.5);	(414311.8,	3728565.8,	8.3,	8.3,	1.5);
(414331.8,	3728565.8,	8.5,	8.5,	1.5);	(414351.8,	3728565.8,	8.7,	8.7,	1.5);
(414371.8,	3728565.8,	8.9,	8.9,	1.5);	(414391.8,	3728565.8,	9.1,	9.1,	1.5);
(414411.8,	3728565.8,	9.2,	9.2,	1.5);	(414431.8,	3728565.8,	8.9,	8.9,	1.5);
(414451.8,	3728565.8,	8.7,	8.7,	1.5);	(414471.8,	3728565.8,	8.5,	8.5,	1.5);
(414491.8,	3728565.8,	8.3,	8.3,	1.5);	(414511.8,	3728565.8,	8.6,	8.6,	1.5);
(414531.8,	3728565.8,	8.8,	8.8,	1.5);	(414551.8,	3728565.8,	8.9,	8.9,	1.5);
(414571.8,	3728565.8,	9.0,	9.0,	1.5);	(414591.8,	3728565.8,	9.1,	9.1,	1.5);
(414611.8,	3728565.8,	9.1,	9.1,	1.5);	(414631.8,	3728565.8,	9.1,	9.1,	1.5);
(414651.8,	3728565.8,	9.2,	9.2,	1.5);	(414671.8,	3728565.8,	9.3,	9.3,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414691.8, 3728565.8,	9.3,	9.3,	1.5);	(414711.8, 3728565.8,	9.4,	9.4,	1.5);
(414731.8, 3728565.8,	9.4,	9.4,	1.5);	(414751.8, 3728565.8,	9.4,	9.4,	1.5);
(413371.8, 3728585.8,	9.2,	13.7,	1.5);	(413391.8, 3728585.8,	9.3,	9.3,	1.5);
(413411.8, 3728585.8,	9.3,	9.3,	1.5);	(413431.8, 3728585.8,	9.1,	9.1,	1.5);
(413451.8, 3728585.8,	8.7,	8.7,	1.5);	(413471.8, 3728585.8,	8.8,	8.8,	1.5);
(413491.8, 3728585.8,	9.2,	9.2,	1.5);	(413511.8, 3728585.8,	8.8,	8.8,	1.5);
(413531.8, 3728585.8,	8.9,	8.9,	1.5);	(413551.8, 3728585.8,	8.7,	8.7,	1.5);
(413571.8, 3728585.8,	8.4,	8.4,	1.5);	(413591.8, 3728585.8,	8.2,	8.2,	1.5);
(413611.8, 3728585.8,	8.4,	8.4,	1.5);	(413631.8, 3728585.8,	8.5,	12.3,	1.5);
(413651.8, 3728585.8,	8.5,	12.3,	1.5);	(413671.8, 3728585.8,	9.0,	9.0,	1.5);
(414031.8, 3728585.8,	9.5,	9.5,	1.5);	(414051.8, 3728585.8,	9.7,	9.7,	1.5);
(414071.8, 3728585.8,	9.8,	9.8,	1.5);	(414091.8, 3728585.8,	9.6,	9.6,	1.5);
(414111.8, 3728585.8,	9.3,	9.3,	1.5);	(414131.8, 3728585.8,	9.3,	9.3,	1.5);
(414151.8, 3728585.8,	9.5,	9.5,	1.5);	(414171.8, 3728585.8,	9.9,	9.9,	1.5);
(414191.8, 3728585.8,	10.0,	10.0,	1.5);	(414211.8, 3728585.8,	10.0,	10.0,	1.5);
(414231.8, 3728585.8,	10.1,	10.1,	1.5);	(414251.8, 3728585.8,	9.9,	9.9,	1.5);
(414271.8, 3728585.8,	9.5,	9.5,	1.5);	(414311.8, 3728585.8,	8.5,	8.5,	1.5);
(414331.8, 3728585.8,	8.6,	8.6,	1.5);	(414351.8, 3728585.8,	8.8,	8.8,	1.5);
(414371.8, 3728585.8,	9.0,	9.0,	1.5);	(414391.8, 3728585.8,	9.1,	9.1,	1.5);
(414411.8, 3728585.8,	9.3,	9.3,	1.5);	(414431.8, 3728585.8,	9.0,	9.0,	1.5);
(414451.8, 3728585.8,	8.8,	8.8,	1.5);	(414471.8, 3728585.8,	8.5,	8.5,	1.5);
(414491.8, 3728585.8,	8.4,	8.4,	1.5);	(414511.8, 3728585.8,	8.6,	8.6,	1.5);
(414531.8, 3728585.8,	8.8,	8.8,	1.5);	(414551.8, 3728585.8,	8.9,	8.9,	1.5);
(414571.8, 3728585.8,	9.0,	9.0,	1.5);	(414591.8, 3728585.8,	9.1,	9.1,	1.5);
(414611.8, 3728585.8,	9.1,	9.1,	1.5);	(414631.8, 3728585.8,	9.1,	9.1,	1.5);
(414651.8, 3728585.8,	9.2,	9.2,	1.5);	(414671.8, 3728585.8,	9.2,	9.2,	1.5);
(414691.8, 3728585.8,	9.3,	9.3,	1.5);	(414711.8, 3728585.8,	9.4,	9.4,	1.5);
(414731.8, 3728585.8,	9.4,	9.4,	1.5);	(414751.8, 3728585.8,	9.3,	9.3,	1.5);
(413391.8, 3728605.8,	9.1,	13.7,	1.5);	(413411.8, 3728605.8,	9.1,	9.1,	1.5);
(413431.8, 3728605.8,	9.0,	9.0,	1.5);	(413451.8, 3728605.8,	8.6,	8.6,	1.5);
(413471.8, 3728605.8,	8.7,	8.7,	1.5);	(413491.8, 3728605.8,	8.9,	8.9,	1.5);
(413511.8, 3728605.8,	8.5,	8.5,	1.5);	(413531.8, 3728605.8,	8.5,	8.5,	1.5);
(413551.8, 3728605.8,	8.5,	8.5,	1.5);	(413571.8, 3728605.8,	8.5,	13.5,	1.5);
(413591.8, 3728605.8,	8.5,	13.5,	1.5);	(413611.8, 3728605.8,	8.9,	12.3,	1.5);
(413631.8, 3728605.8,	10.0,	12.3,	1.5);	(414031.8, 3728605.8,	9.7,	9.7,	1.5);
(414051.8, 3728605.8,	9.7,	9.7,	1.5);	(414071.8, 3728605.8,	9.7,	9.7,	1.5);
(414091.8, 3728605.8,	9.4,	9.4,	1.5);	(414111.8, 3728605.8,	9.1,	9.1,	1.5);
(414131.8, 3728605.8,	9.2,	9.2,	1.5);	(414151.8, 3728605.8,	9.5,	9.5,	1.5);
(414171.8, 3728605.8,	9.9,	9.9,	1.5);	(414191.8, 3728605.8,	10.0,	10.0,	1.5);
(414211.8, 3728605.8,	10.0,	10.0,	1.5);	(414231.8, 3728605.8,	10.1,	10.1,	1.5);
(414251.8, 3728605.8,	9.8,	9.8,	1.5);	(414271.8, 3728605.8,	9.4,	9.4,	1.5);
(414311.8, 3728605.8,	8.8,	8.8,	1.5);	(414331.8, 3728605.8,	8.8,	8.8,	1.5);
(414351.8, 3728605.8,	8.9,	8.9,	1.5);	(414371.8, 3728605.8,	9.0,	9.0,	1.5);
(414391.8, 3728605.8,	9.2,	9.2,	1.5);	(414411.8, 3728605.8,	9.4,	9.4,	1.5);
(414431.8, 3728605.8,	9.1,	9.1,	1.5);	(414451.8, 3728605.8,	8.9,	8.9,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414471.8,	3728605.8,	8.7,	8.7,	1.5);	(414491.8,	3728605.8,	8.5,	8.5,	1.5);
(414511.8,	3728605.8,	8.7,	8.7,	1.5);	(414531.8,	3728605.8,	8.9,	8.9,	1.5);
(414551.8,	3728605.8,	9.0,	9.0,	1.5);	(414571.8,	3728605.8,	9.1,	9.1,	1.5);
(414591.8,	3728605.8,	9.1,	9.1,	1.5);	(414611.8,	3728605.8,	9.2,	9.2,	1.5);
(414631.8,	3728605.8,	9.2,	9.2,	1.5);	(414651.8,	3728605.8,	9.3,	9.3,	1.5);
(414671.8,	3728605.8,	9.4,	9.4,	1.5);	(414691.8,	3728605.8,	9.5,	9.5,	1.5);
(414711.8,	3728605.8,	9.5,	9.5,	1.5);	(414731.8,	3728605.8,	9.5,	9.5,	1.5);
(414751.8,	3728605.8,	9.4,	9.4,	1.5);	(413391.8,	3728625.8,	9.0,	13.7,	1.5);
(413411.8,	3728625.8,	8.7,	8.7,	1.5);	(413431.8,	3728625.8,	8.9,	8.9,	1.5);
(413451.8,	3728625.8,	8.6,	8.6,	1.5);	(413471.8,	3728625.8,	8.5,	8.5,	1.5);
(413491.8,	3728625.8,	8.6,	8.6,	1.5);	(413511.8,	3728625.8,	8.3,	14.5,	1.5);
(413531.8,	3728625.8,	8.3,	14.5,	1.5);	(413551.8,	3728625.8,	8.8,	13.5,	1.5);
(413571.8,	3728625.8,	9.3,	13.5,	1.5);	(413591.8,	3728625.8,	9.4,	13.5,	1.5);
(414031.8,	3728625.8,	9.8,	9.8,	1.5);	(414051.8,	3728625.8,	9.8,	9.8,	1.5);
(414071.8,	3728625.8,	9.5,	9.5,	1.5);	(414091.8,	3728625.8,	9.2,	9.2,	1.5);
(414111.8,	3728625.8,	9.0,	9.0,	1.5);	(414131.8,	3728625.8,	9.1,	9.1,	1.5);
(414151.8,	3728625.8,	9.5,	9.5,	1.5);	(414171.8,	3728625.8,	9.9,	9.9,	1.5);
(414191.8,	3728625.8,	10.0,	10.0,	1.5);	(414211.8,	3728625.8,	10.0,	10.0,	1.5);
(414231.8,	3728625.8,	10.1,	10.1,	1.5);	(414251.8,	3728625.8,	9.7,	9.7,	1.5);
(414271.8,	3728625.8,	9.4,	9.4,	1.5);	(414311.8,	3728625.8,	9.2,	9.2,	1.5);
(414331.8,	3728625.8,	9.1,	9.1,	1.5);	(414351.8,	3728625.8,	9.2,	9.2,	1.5);
(414371.8,	3728625.8,	9.2,	9.2,	1.5);	(414391.8,	3728625.8,	9.3,	9.3,	1.5);
(414411.8,	3728625.8,	9.4,	9.4,	1.5);	(414431.8,	3728625.8,	9.2,	9.2,	1.5);
(414451.8,	3728625.8,	9.0,	9.0,	1.5);	(414471.8,	3728625.8,	8.9,	8.9,	1.5);
(414491.8,	3728625.8,	8.8,	8.8,	1.5);	(414511.8,	3728625.8,	8.9,	8.9,	1.5);
(414531.8,	3728625.8,	9.1,	9.1,	1.5);	(414551.8,	3728625.8,	9.4,	9.4,	1.5);
(414571.8,	3728625.8,	9.5,	9.5,	1.5);	(414591.8,	3728625.8,	9.6,	9.6,	1.5);
(414611.8,	3728625.8,	9.7,	9.7,	1.5);	(414631.8,	3728625.8,	9.7,	9.7,	1.5);
(414651.8,	3728625.8,	9.7,	9.7,	1.5);	(414671.8,	3728625.8,	9.8,	9.8,	1.5);
(414691.8,	3728625.8,	9.9,	9.9,	1.5);	(414711.8,	3728625.8,	9.9,	9.9,	1.5);
(414731.8,	3728625.8,	9.8,	9.8,	1.5);	(414751.8,	3728625.8,	9.6,	9.6,	1.5);
(413411.8,	3728645.8,	8.7,	11.7,	1.5);	(413431.8,	3728645.8,	8.7,	8.7,	1.5);
(413451.8,	3728645.8,	8.7,	8.7,	1.5);	(413471.8,	3728645.8,	8.7,	14.5,	1.5);
(413491.8,	3728645.8,	8.7,	14.5,	1.5);	(413511.8,	3728645.8,	8.6,	14.5,	1.5);
(413531.8,	3728645.8,	8.9,	14.5,	1.5);	(413551.8,	3728645.8,	10.4,	14.5,	1.5);
(414031.8,	3728645.8,	9.8,	9.8,	1.5);	(414051.8,	3728645.8,	9.8,	9.8,	1.5);
(414071.8,	3728645.8,	9.4,	9.4,	1.5);	(414091.8,	3728645.8,	9.1,	9.1,	1.5);
(414111.8,	3728645.8,	9.0,	9.0,	1.5);	(414131.8,	3728645.8,	9.2,	9.2,	1.5);
(414151.8,	3728645.8,	9.5,	9.5,	1.5);	(414171.8,	3728645.8,	9.8,	9.8,	1.5);
(414191.8,	3728645.8,	10.0,	10.0,	1.5);	(414211.8,	3728645.8,	10.1,	10.1,	1.5);
(414231.8,	3728645.8,	10.1,	10.1,	1.5);	(414251.8,	3728645.8,	9.7,	9.7,	1.5);
(414271.8,	3728645.8,	9.4,	9.4,	1.5);	(414311.8,	3728645.8,	9.7,	9.7,	1.5);
(414331.8,	3728645.8,	9.7,	9.7,	1.5);	(414351.8,	3728645.8,	9.5,	9.5,	1.5);
(414371.8,	3728645.8,	9.4,	9.4,	1.5);	(414391.8,	3728645.8,	9.4,	9.4,	1.5);
(414411.8,	3728645.8,	9.2,	9.2,	1.5);	(414431.8,	3728645.8,	9.3,	9.3,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(	414451.8,	3728645.8,	9.2,	9.2,	1.5);	(414471.8,	3728645.8,	9.1,	9.1,	1.5);
(	414491.8,	3728645.8,	9.2,	9.2,	1.5);	(414511.8,	3728645.8,	9.1,	9.1,	1.5);
(	414531.8,	3728645.8,	9.4,	9.4,	1.5);	(414551.8,	3728645.8,	9.8,	9.8,	1.5);
(	414571.8,	3728645.8,	10.1,	10.1,	1.5);	(414591.8,	3728645.8,	10.2,	10.2,	1.5);
(	414611.8,	3728645.8,	10.3,	10.3,	1.5);	(414631.8,	3728645.8,	10.3,	10.3,	1.5);
(	414651.8,	3728645.8,	10.2,	10.2,	1.5);	(414671.8,	3728645.8,	10.3,	10.3,	1.5);
(	414691.8,	3728645.8,	10.3,	10.3,	1.5);	(414711.8,	3728645.8,	10.3,	10.3,	1.5);
(	414731.8,	3728645.8,	10.1,	10.1,	1.5);	(414751.8,	3728645.8,	9.7,	9.7,	1.5);
(	413411.8,	3728665.8,	8.8,	13.4,	1.5);	(413431.8,	3728665.8,	8.8,	15.4,	1.5);
(	413451.8,	3728665.8,	9.0,	15.4,	1.5);	(413471.8,	3728665.8,	9.2,	15.4,	1.5);
(	413491.8,	3728665.8,	9.8,	15.4,	1.5);	(413511.8,	3728665.8,	11.1,	14.5,	1.5);
(	414031.8,	3728665.8,	9.8,	9.8,	1.5);	(414051.8,	3728665.8,	9.8,	9.8,	1.5);
(	414071.8,	3728665.8,	9.4,	9.4,	1.5);	(414091.8,	3728665.8,	9.1,	9.1,	1.5);
(	414111.8,	3728665.8,	9.0,	9.0,	1.5);	(414131.8,	3728665.8,	9.3,	9.3,	1.5);
(	414151.8,	3728665.8,	9.8,	9.8,	1.5);	(414171.8,	3728665.8,	10.0,	10.0,	1.5);
(	414191.8,	3728665.8,	10.0,	10.0,	1.5);	(414211.8,	3728665.8,	10.0,	10.0,	1.5);
(	414231.8,	3728665.8,	10.1,	10.1,	1.5);	(414251.8,	3728665.8,	9.8,	9.8,	1.5);
(	414271.8,	3728665.8,	9.5,	9.5,	1.5);	(414311.8,	3728665.8,	9.5,	9.5,	1.5);
(	414331.8,	3728665.8,	9.6,	9.6,	1.5);	(414351.8,	3728665.8,	9.4,	9.4,	1.5);
(	414371.8,	3728665.8,	9.2,	9.2,	1.5);	(414391.8,	3728665.8,	9.4,	9.4,	1.5);
(	414411.8,	3728665.8,	9.1,	9.1,	1.5);	(414431.8,	3728665.8,	9.3,	9.3,	1.5);
(	414451.8,	3728665.8,	9.1,	9.1,	1.5);	(414471.8,	3728665.8,	8.9,	8.9,	1.5);
(	414491.8,	3728665.8,	8.9,	8.9,	1.5);	(414511.8,	3728665.8,	8.9,	8.9,	1.5);
(	414531.8,	3728665.8,	9.4,	9.4,	1.5);	(414551.8,	3728665.8,	10.0,	10.0,	1.5);
(	414571.8,	3728665.8,	10.3,	10.3,	1.5);	(414591.8,	3728665.8,	10.3,	10.3,	1.5);
(	414611.8,	3728665.8,	10.4,	10.4,	1.5);	(414631.8,	3728665.8,	10.3,	10.3,	1.5);
(	414651.8,	3728665.8,	10.2,	10.2,	1.5);	(414671.8,	3728665.8,	10.3,	10.3,	1.5);
(	414691.8,	3728665.8,	10.2,	10.2,	1.5);	(414711.8,	3728665.8,	10.1,	10.1,	1.5);
(	414731.8,	3728665.8,	9.9,	9.9,	1.5);	(414751.8,	3728665.8,	9.6,	9.6,	1.5);
(	413431.8,	3728685.8,	9.3,	15.9,	1.5);	(413451.8,	3728685.8,	9.6,	15.9,	1.5);
(	413471.8,	3728685.8,	10.2,	15.4,	1.5);	(414031.8,	3728685.8,	9.7,	9.7,	1.5);
(	414051.8,	3728685.8,	9.8,	9.8,	1.5);	(414071.8,	3728685.8,	9.4,	9.4,	1.5);
(	414091.8,	3728685.8,	9.2,	9.2,	1.5);	(414111.8,	3728685.8,	9.1,	9.1,	1.5);
(	414131.8,	3728685.8,	9.3,	9.3,	1.5);	(414151.8,	3728685.8,	9.9,	9.9,	1.5);
(	414171.8,	3728685.8,	10.0,	10.0,	1.5);	(414191.8,	3728685.8,	10.0,	10.0,	1.5);
(	414211.8,	3728685.8,	10.0,	10.0,	1.5);	(414231.8,	3728685.8,	10.0,	10.0,	1.5);
(	414251.8,	3728685.8,	9.8,	9.8,	1.5);	(414271.8,	3728685.8,	9.5,	9.5,	1.5);
(	414311.8,	3728685.8,	9.4,	9.4,	1.5);	(414331.8,	3728685.8,	9.7,	9.7,	1.5);
(	414351.8,	3728685.8,	9.4,	9.4,	1.5);	(414371.8,	3728685.8,	9.3,	9.3,	1.5);
(	414391.8,	3728685.8,	9.4,	9.4,	1.5);	(414411.8,	3728685.8,	9.3,	9.3,	1.5);
(	414431.8,	3728685.8,	9.3,	9.3,	1.5);	(414451.8,	3728685.8,	9.1,	9.1,	1.5);
(	414471.8,	3728685.8,	8.8,	8.8,	1.5);	(414491.8,	3728685.8,	9.0,	9.0,	1.5);
(	414511.8,	3728685.8,	9.1,	9.1,	1.5);	(414531.8,	3728685.8,	9.6,	9.6,	1.5);
(	414551.8,	3728685.8,	10.0,	10.0,	1.5);	(414571.8,	3728685.8,	10.3,	10.3,	1.5);
(	414591.8,	3728685.8,	10.4,	10.4,	1.5);	(414611.8,	3728685.8,	10.4,	10.4,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(	414631.8,	3728685.8,	10.3,	10.3,	1.5);	(	414651.8,	3728685.8,	10.2,	10.2,	1.5);
(	414671.8,	3728685.8,	10.2,	10.2,	1.5);	(	414691.8,	3728685.8,	10.3,	10.3,	1.5);
(	414711.8,	3728685.8,	10.1,	10.1,	1.5);	(	414731.8,	3728685.8,	9.9,	9.9,	1.5);
(	414751.8,	3728685.8,	9.7,	9.7,	1.5);	(	413431.8,	3728705.8,	11.8,	15.9,	1.5);
(	414031.8,	3728705.8,	9.7,	9.7,	1.5);	(	414051.8,	3728705.8,	9.8,	9.8,	1.5);
(	414071.8,	3728705.8,	9.5,	9.5,	1.5);	(	414091.8,	3728705.8,	9.4,	9.4,	1.5);
(	414111.8,	3728705.8,	9.4,	9.4,	1.5);	(	414131.8,	3728705.8,	9.5,	9.5,	1.5);
(	414151.8,	3728705.8,	9.9,	9.9,	1.5);	(	414171.8,	3728705.8,	10.0,	10.0,	1.5);
(	414191.8,	3728705.8,	10.0,	10.0,	1.5);	(	414211.8,	3728705.8,	10.0,	10.0,	1.5);
(	414231.8,	3728705.8,	10.0,	10.0,	1.5);	(	414251.8,	3728705.8,	9.6,	9.6,	1.5);
(	414271.8,	3728705.8,	9.4,	9.4,	1.5);	(	414311.8,	3728705.8,	9.4,	9.4,	1.5);
(	414331.8,	3728705.8,	9.9,	9.9,	1.5);	(	414351.8,	3728705.8,	9.7,	9.7,	1.5);
(	414371.8,	3728705.8,	9.5,	9.5,	1.5);	(	414391.8,	3728705.8,	9.6,	9.6,	1.5);
(	414411.8,	3728705.8,	10.0,	10.0,	1.5);	(	414431.8,	3728705.8,	9.5,	9.5,	1.5);
(	414451.8,	3728705.8,	9.1,	9.1,	1.5);	(	414471.8,	3728705.8,	9.0,	9.0,	1.5);
(	414491.8,	3728705.8,	9.4,	9.4,	1.5);	(	414511.8,	3728705.8,	9.6,	9.6,	1.5);
(	414531.8,	3728705.8,	9.8,	9.8,	1.5);	(	414551.8,	3728705.8,	10.0,	10.0,	1.5);
(	414571.8,	3728705.8,	10.3,	10.3,	1.5);	(	414591.8,	3728705.8,	10.3,	10.3,	1.5);
(	414611.8,	3728705.8,	10.4,	10.4,	1.5);	(	414631.8,	3728705.8,	10.3,	10.3,	1.5);
(	414651.8,	3728705.8,	10.2,	10.2,	1.5);	(	414671.8,	3728705.8,	10.2,	10.2,	1.5);
(	414691.8,	3728705.8,	10.5,	10.5,	1.5);	(	414711.8,	3728705.8,	10.2,	10.2,	1.5);
(	414731.8,	3728705.8,	9.9,	9.9,	1.5);	(	414751.8,	3728705.8,	9.8,	9.8,	1.5);
(	413631.8,	3728725.8,	10.0,	10.0,	1.5);	(	414031.8,	3728725.8,	9.8,	9.8,	1.5);
(	414051.8,	3728725.8,	9.8,	9.8,	1.5);	(	414071.8,	3728725.8,	9.5,	9.5,	1.5);
(	414091.8,	3728725.8,	9.2,	9.2,	1.5);	(	414111.8,	3728725.8,	9.2,	9.2,	1.5);
(	414131.8,	3728725.8,	9.5,	9.5,	1.5);	(	414151.8,	3728725.8,	9.8,	9.8,	1.5);
(	414171.8,	3728725.8,	10.0,	10.0,	1.5);	(	414191.8,	3728725.8,	10.0,	10.0,	1.5);
(	414211.8,	3728725.8,	10.0,	10.0,	1.5);	(	414231.8,	3728725.8,	10.0,	10.0,	1.5);
(	414251.8,	3728725.8,	9.6,	9.6,	1.5);	(	414271.8,	3728725.8,	9.4,	9.4,	1.5);
(	414311.8,	3728725.8,	9.4,	9.4,	1.5);	(	414331.8,	3728725.8,	9.9,	9.9,	1.5);
(	414351.8,	3728725.8,	9.9,	9.9,	1.5);	(	414371.8,	3728725.8,	9.8,	9.8,	1.5);
(	414391.8,	3728725.8,	9.8,	9.8,	1.5);	(	414411.8,	3728725.8,	10.0,	10.0,	1.5);
(	414431.8,	3728725.8,	9.6,	9.6,	1.5);	(	414451.8,	3728725.8,	9.1,	9.1,	1.5);
(	414471.8,	3728725.8,	9.1,	9.1,	1.5);	(	414491.8,	3728725.8,	9.6,	9.6,	1.5);
(	414511.8,	3728725.8,	9.8,	9.8,	1.5);	(	414531.8,	3728725.8,	9.9,	9.9,	1.5);
(	414551.8,	3728725.8,	10.0,	10.0,	1.5);	(	414571.8,	3728725.8,	10.3,	10.3,	1.5);
(	414591.8,	3728725.8,	10.3,	10.3,	1.5);	(	414611.8,	3728725.8,	10.4,	10.4,	1.5);
(	414631.8,	3728725.8,	10.3,	10.3,	1.5);	(	414651.8,	3728725.8,	10.2,	10.2,	1.5);
(	414671.8,	3728725.8,	10.2,	10.2,	1.5);	(	414691.8,	3728725.8,	10.3,	10.3,	1.5);
(	414711.8,	3728725.8,	10.1,	10.1,	1.5);	(	414731.8,	3728725.8,	9.9,	9.9,	1.5);
(	414751.8,	3728725.8,	9.8,	9.8,	1.5);	(	413591.8,	3728745.8,	10.0,	14.3,	1.5);
(	413611.8,	3728745.8,	10.3,	10.3,	1.5);	(	413631.8,	3728745.8,	10.4,	10.4,	1.5);
(	413651.8,	3728745.8,	10.2,	10.2,	1.5);	(	414031.8,	3728745.8,	9.8,	9.8,	1.5);
(	414051.8,	3728745.8,	9.8,	9.8,	1.5);	(	414071.8,	3728745.8,	9.4,	9.4,	1.5);
(	414091.8,	3728745.8,	9.1,	9.1,	1.5);	(	414111.8,	3728745.8,	9.1,	9.1,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414131.8,	3728745.8,	9.5,	9.5,	1.5);	(414151.8,	3728745.8,	9.6,	9.6,	1.5);
(414171.8,	3728745.8,	9.9,	9.9,	1.5);	(414191.8,	3728745.8,	10.0,	10.0,	1.5);
(414211.8,	3728745.8,	9.9,	9.9,	1.5);	(414231.8,	3728745.8,	9.9,	9.9,	1.5);
(414251.8,	3728745.8,	9.6,	9.6,	1.5);	(414271.8,	3728745.8,	9.4,	9.4,	1.5);
(414311.8,	3728745.8,	9.5,	9.5,	1.5);	(414331.8,	3728745.8,	9.8,	9.8,	1.5);
(414351.8,	3728745.8,	9.8,	9.8,	1.5);	(414371.8,	3728745.8,	9.8,	9.8,	1.5);
(414391.8,	3728745.8,	9.8,	9.8,	1.5);	(414411.8,	3728745.8,	9.8,	9.8,	1.5);
(414431.8,	3728745.8,	9.4,	9.4,	1.5);	(414451.8,	3728745.8,	9.1,	9.1,	1.5);
(414471.8,	3728745.8,	9.1,	9.1,	1.5);	(414491.8,	3728745.8,	9.6,	9.6,	1.5);
(414511.8,	3728745.8,	9.8,	9.8,	1.5);	(414531.8,	3728745.8,	9.9,	9.9,	1.5);
(414551.8,	3728745.8,	10.0,	10.0,	1.5);	(414571.8,	3728745.8,	10.2,	10.2,	1.5);
(414591.8,	3728745.8,	10.2,	10.2,	1.5);	(414611.8,	3728745.8,	10.3,	10.3,	1.5);
(414631.8,	3728745.8,	10.3,	10.3,	1.5);	(414651.8,	3728745.8,	10.2,	10.2,	1.5);
(414671.8,	3728745.8,	10.1,	10.1,	1.5);	(414691.8,	3728745.8,	10.1,	10.1,	1.5);
(414711.8,	3728745.8,	10.0,	10.0,	1.5);	(414731.8,	3728745.8,	9.9,	9.9,	1.5);
(414751.8,	3728745.8,	9.7,	9.7,	1.5);	(413551.8,	3728765.8,	10.1,	15.0,	1.5);
(413571.8,	3728765.8,	10.3,	10.3,	1.5);	(413591.8,	3728765.8,	10.2,	10.2,	1.5);
(413611.8,	3728765.8,	10.4,	10.4,	1.5);	(413631.8,	3728765.8,	10.4,	10.4,	1.5);
(413651.8,	3728765.8,	10.3,	10.3,	1.5);	(414031.8,	3728765.8,	9.6,	9.6,	1.5);
(414051.8,	3728765.8,	9.7,	9.7,	1.5);	(414071.8,	3728765.8,	9.5,	9.5,	1.5);
(414091.8,	3728765.8,	9.4,	9.4,	1.5);	(414111.8,	3728765.8,	9.4,	9.4,	1.5);
(414131.8,	3728765.8,	9.7,	9.7,	1.5);	(414151.8,	3728765.8,	9.7,	9.7,	1.5);
(414171.8,	3728765.8,	9.8,	9.8,	1.5);	(414191.8,	3728765.8,	9.8,	9.8,	1.5);
(414211.8,	3728765.8,	9.8,	9.8,	1.5);	(414231.8,	3728765.8,	9.5,	9.5,	1.5);
(414251.8,	3728765.8,	9.4,	9.4,	1.5);	(414271.8,	3728765.8,	9.4,	9.4,	1.5);
(414311.8,	3728765.8,	9.5,	9.5,	1.5);	(414331.8,	3728765.8,	9.4,	9.4,	1.5);
(414351.8,	3728765.8,	9.4,	9.4,	1.5);	(414371.8,	3728765.8,	9.4,	9.4,	1.5);
(414391.8,	3728765.8,	9.3,	9.3,	1.5);	(414411.8,	3728765.8,	9.3,	9.3,	1.5);
(414431.8,	3728765.8,	9.2,	9.2,	1.5);	(414451.8,	3728765.8,	9.1,	9.1,	1.5);
(414471.8,	3728765.8,	9.2,	9.2,	1.5);	(414491.8,	3728765.8,	9.3,	9.3,	1.5);
(414511.8,	3728765.8,	9.8,	9.8,	1.5);	(414531.8,	3728765.8,	9.8,	9.8,	1.5);
(414551.8,	3728765.8,	9.8,	9.8,	1.5);	(414571.8,	3728765.8,	10.0,	10.0,	1.5);
(414591.8,	3728765.8,	10.0,	10.0,	1.5);	(414611.8,	3728765.8,	10.2,	10.2,	1.5);
(414631.8,	3728765.8,	10.2,	10.2,	1.5);	(414651.8,	3728765.8,	10.0,	10.0,	1.5);
(414671.8,	3728765.8,	10.0,	10.0,	1.5);	(414691.8,	3728765.8,	10.0,	10.0,	1.5);
(414711.8,	3728765.8,	9.9,	9.9,	1.5);	(414731.8,	3728765.8,	9.8,	9.8,	1.5);
(414751.8,	3728765.8,	9.7,	9.7,	1.5);	(413511.8,	3728785.8,	9.8,	15.5,	1.5);
(413531.8,	3728785.8,	10.1,	15.0,	1.5);	(413551.8,	3728785.8,	10.2,	10.2,	1.5);
(413571.8,	3728785.8,	10.1,	10.1,	1.5);	(413591.8,	3728785.8,	10.0,	10.0,	1.5);
(413611.8,	3728785.8,	10.1,	10.1,	1.5);	(413631.8,	3728785.8,	10.1,	10.1,	1.5);
(413651.8,	3728785.8,	10.0,	10.0,	1.5);	(413671.8,	3728785.8,	9.9,	9.9,	1.5);
(413531.8,	3728805.8,	10.0,	10.0,	1.5);	(413551.8,	3728805.8,	9.8,	9.8,	1.5);
(413571.8,	3728805.8,	9.5,	9.5,	1.5);	(413591.8,	3728805.8,	9.5,	9.5,	1.5);
(413611.8,	3728805.8,	9.7,	9.7,	1.5);	(413631.8,	3728805.8,	9.6,	9.6,	1.5);
(413651.8,	3728805.8,	9.5,	9.5,	1.5);	(413671.8,	3728805.8,	9.5,	9.5,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(413691.8, 3728805.8,	9.2,	9.2,	1.5);	(413771.8, 3728805.8,	9.4,	9.4,	1.5);
(413791.8, 3728805.8,	9.4,	9.4,	1.5);	(413811.8, 3728805.8,	9.5,	9.5,	1.5);
(413831.8, 3728805.8,	9.4,	9.4,	1.5);	(413851.8, 3728805.8,	9.3,	9.3,	1.5);
(413871.8, 3728805.8,	9.3,	9.3,	1.5);	(413891.8, 3728805.8,	9.4,	9.4,	1.5);
(413911.8, 3728805.8,	9.4,	9.4,	1.5);	(413931.8, 3728805.8,	9.4,	9.4,	1.5);
(413951.8, 3728805.8,	9.4,	9.4,	1.5);	(413971.8, 3728805.8,	9.6,	9.6,	1.5);
(413991.8, 3728805.8,	9.9,	9.9,	1.5);	(414011.8, 3728805.8,	10.0,	10.0,	1.5);
(414031.8, 3728805.8,	10.0,	10.0,	1.5);	(414051.8, 3728805.8,	10.0,	10.0,	1.5);
(414071.8, 3728805.8,	9.9,	9.9,	1.5);	(414091.8, 3728805.8,	9.8,	9.8,	1.5);
(414111.8, 3728805.8,	9.8,	9.8,	1.5);	(414131.8, 3728805.8,	9.6,	9.6,	1.5);
(414151.8, 3728805.8,	9.6,	9.6,	1.5);	(414171.8, 3728805.8,	9.6,	9.6,	1.5);
(414191.8, 3728805.8,	9.6,	9.6,	1.5);	(414211.8, 3728805.8,	9.6,	9.6,	1.5);
(414231.8, 3728805.8,	9.6,	9.6,	1.5);	(414251.8, 3728805.8,	9.5,	9.5,	1.5);
(414291.8, 3728805.8,	9.2,	9.2,	1.5);	(414311.8, 3728805.8,	9.5,	9.5,	1.5);
(414331.8, 3728805.8,	9.6,	9.6,	1.5);	(414351.8, 3728805.8,	9.6,	9.6,	1.5);
(414371.8, 3728805.8,	9.5,	9.5,	1.5);	(414391.8, 3728805.8,	9.4,	9.4,	1.5);
(414411.8, 3728805.8,	9.5,	9.5,	1.5);	(414431.8, 3728805.8,	9.5,	9.5,	1.5);
(414451.8, 3728805.8,	9.7,	9.7,	1.5);	(414471.8, 3728805.8,	9.7,	9.7,	1.5);
(414491.8, 3728805.8,	9.5,	9.5,	1.5);	(414511.8, 3728805.8,	9.4,	9.4,	1.5);
(414531.8, 3728805.8,	9.4,	9.4,	1.5);	(414551.8, 3728805.8,	9.5,	9.5,	1.5);
(414571.8, 3728805.8,	9.7,	9.7,	1.5);	(414591.8, 3728805.8,	9.6,	9.6,	1.5);
(414611.8, 3728805.8,	9.6,	9.6,	1.5);	(414631.8, 3728805.8,	9.7,	9.7,	1.5);
(414651.8, 3728805.8,	9.8,	9.8,	1.5);	(414671.8, 3728805.8,	9.7,	9.7,	1.5);
(414691.8, 3728805.8,	9.9,	9.9,	1.5);	(414711.8, 3728805.8,	10.0,	10.0,	1.5);
(414731.8, 3728805.8,	10.0,	10.0,	1.5);	(414751.8, 3728805.8,	9.9,	9.9,	1.5);
(413531.8, 3728825.8,	9.8,	9.8,	1.5);	(413551.8, 3728825.8,	10.0,	10.0,	1.5);
(413571.8, 3728825.8,	10.0,	10.0,	1.5);	(413591.8, 3728825.8,	10.0,	10.0,	1.5);
(413611.8, 3728825.8,	9.9,	9.9,	1.5);	(413631.8, 3728825.8,	9.9,	9.9,	1.5);
(413651.8, 3728825.8,	9.9,	9.9,	1.5);	(413671.8, 3728825.8,	9.8,	9.8,	1.5);
(413691.8, 3728825.8,	9.4,	9.4,	1.5);	(413711.8, 3728825.8,	9.6,	9.6,	1.5);
(413731.8, 3728825.8,	9.2,	9.2,	1.5);	(413771.8, 3728825.8,	10.0,	10.0,	1.5);
(413791.8, 3728825.8,	10.0,	10.0,	1.5);	(413811.8, 3728825.8,	9.9,	9.9,	1.5);
(413831.8, 3728825.8,	9.7,	9.7,	1.5);	(413851.8, 3728825.8,	9.2,	9.2,	1.5);
(413871.8, 3728825.8,	9.1,	9.1,	1.5);	(413891.8, 3728825.8,	9.4,	9.4,	1.5);
(413911.8, 3728825.8,	9.5,	9.5,	1.5);	(413931.8, 3728825.8,	9.5,	9.5,	1.5);
(413951.8, 3728825.8,	9.5,	9.5,	1.5);	(413971.8, 3728825.8,	9.5,	9.5,	1.5);
(413991.8, 3728825.8,	9.9,	9.9,	1.5);	(414011.8, 3728825.8,	10.2,	10.2,	1.5);
(414031.8, 3728825.8,	10.1,	10.1,	1.5);	(414051.8, 3728825.8,	10.1,	10.1,	1.5);
(414071.8, 3728825.8,	10.1,	10.1,	1.5);	(414091.8, 3728825.8,	10.1,	10.1,	1.5);
(414111.8, 3728825.8,	10.0,	10.0,	1.5);	(414131.8, 3728825.8,	9.5,	9.5,	1.5);
(414151.8, 3728825.8,	9.8,	9.8,	1.5);	(414171.8, 3728825.8,	9.8,	9.8,	1.5);
(414191.8, 3728825.8,	9.9,	9.9,	1.5);	(414211.8, 3728825.8,	10.3,	10.3,	1.5);
(414231.8, 3728825.8,	10.6,	10.6,	1.5);	(414251.8, 3728825.8,	10.2,	10.2,	1.5);
(414291.8, 3728825.8,	9.3,	9.3,	1.5);	(414311.8, 3728825.8,	10.0,	10.0,	1.5);
(414331.8, 3728825.8,	10.2,	10.2,	1.5);	(414351.8, 3728825.8,	10.3,	10.3,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414371.8, 3728825.8,	10.1,	10.1,	1.5);	(414391.8, 3728825.8,	9.8,	9.8,	1.5);
(414411.8, 3728825.8,	10.0,	10.0,	1.5);	(414431.8, 3728825.8,	10.1,	10.1,	1.5);
(414451.8, 3728825.8,	10.4,	10.4,	1.5);	(414471.8, 3728825.8,	10.6,	10.6,	1.5);
(414491.8, 3728825.8,	10.0,	10.0,	1.5);	(414511.8, 3728825.8,	9.7,	9.7,	1.5);
(414531.8, 3728825.8,	9.6,	9.6,	1.5);	(414551.8, 3728825.8,	9.8,	9.8,	1.5);
(414571.8, 3728825.8,	10.2,	10.2,	1.5);	(414591.8, 3728825.8,	10.1,	10.1,	1.5);
(414611.8, 3728825.8,	10.0,	10.0,	1.5);	(414631.8, 3728825.8,	10.1,	10.1,	1.5);
(414651.8, 3728825.8,	10.2,	10.2,	1.5);	(414671.8, 3728825.8,	10.1,	10.1,	1.5);
(414691.8, 3728825.8,	10.7,	10.7,	1.5);	(414711.8, 3728825.8,	10.9,	10.9,	1.5);
(414731.8, 3728825.8,	10.9,	10.9,	1.5);	(414751.8, 3728825.8,	10.8,	10.8,	1.5);
(413551.8, 3728845.8,	9.9,	9.9,	1.5);	(413571.8, 3728845.8,	10.2,	10.2,	1.5);
(413591.8, 3728845.8,	10.3,	10.3,	1.5);	(413611.8, 3728845.8,	10.0,	10.0,	1.5);
(413631.8, 3728845.8,	10.0,	10.0,	1.5);	(413651.8, 3728845.8,	10.0,	10.0,	1.5);
(413671.8, 3728845.8,	10.0,	10.0,	1.5);	(413691.8, 3728845.8,	9.4,	9.4,	1.5);
(413711.8, 3728845.8,	9.9,	9.9,	1.5);	(413731.8, 3728845.8,	9.5,	9.5,	1.5);
(413771.8, 3728845.8,	10.2,	10.2,	1.5);	(413791.8, 3728845.8,	10.2,	10.2,	1.5);
(413811.8, 3728845.8,	10.1,	10.1,	1.5);	(413831.8, 3728845.8,	9.8,	9.8,	1.5);
(413851.8, 3728845.8,	9.3,	9.3,	1.5);	(413871.8, 3728845.8,	9.4,	9.4,	1.5);
(413891.8, 3728845.8,	9.4,	9.4,	1.5);	(413911.8, 3728845.8,	9.5,	9.5,	1.5);
(413931.8, 3728845.8,	9.5,	9.5,	1.5);	(413951.8, 3728845.8,	9.2,	9.2,	1.5);
(413971.8, 3728845.8,	9.4,	9.4,	1.5);	(413991.8, 3728845.8,	9.9,	9.9,	1.5);
(414011.8, 3728845.8,	10.2,	10.2,	1.5);	(414031.8, 3728845.8,	10.2,	10.2,	1.5);
(414051.8, 3728845.8,	10.2,	10.2,	1.5);	(414071.8, 3728845.8,	10.2,	10.2,	1.5);
(414091.8, 3728845.8,	10.3,	10.3,	1.5);	(414111.8, 3728845.8,	10.1,	10.1,	1.5);
(414131.8, 3728845.8,	9.5,	9.5,	1.5);	(414151.8, 3728845.8,	10.0,	10.0,	1.5);
(414171.8, 3728845.8,	10.2,	10.2,	1.5);	(414191.8, 3728845.8,	10.2,	10.2,	1.5);
(414211.8, 3728845.8,	10.3,	10.3,	1.5);	(414231.8, 3728845.8,	10.5,	10.5,	1.5);
(414251.8, 3728845.8,	10.0,	10.0,	1.5);	(414291.8, 3728845.8,	9.7,	9.7,	1.5);
(414311.8, 3728845.8,	10.3,	10.3,	1.5);	(414331.8, 3728845.8,	10.5,	10.5,	1.5);
(414351.8, 3728845.8,	10.5,	10.5,	1.5);	(414371.8, 3728845.8,	10.2,	10.2,	1.5);
(414391.8, 3728845.8,	9.9,	9.9,	1.5);	(414411.8, 3728845.8,	10.1,	10.1,	1.5);
(414431.8, 3728845.8,	10.2,	10.2,	1.5);	(414451.8, 3728845.8,	10.3,	10.3,	1.5);
(414471.8, 3728845.8,	10.4,	10.4,	1.5);	(414491.8, 3728845.8,	9.9,	9.9,	1.5);
(414511.8, 3728845.8,	9.7,	9.7,	1.5);	(414531.8, 3728845.8,	9.6,	9.6,	1.5);
(414551.8, 3728845.8,	9.9,	9.9,	1.5);	(414571.8, 3728845.8,	10.6,	10.6,	1.5);
(414591.8, 3728845.8,	10.4,	10.4,	1.5);	(414611.8, 3728845.8,	10.2,	10.2,	1.5);
(414631.8, 3728845.8,	10.3,	10.3,	1.5);	(414651.8, 3728845.8,	10.4,	10.4,	1.5);
(414671.8, 3728845.8,	10.3,	10.3,	1.5);	(414691.8, 3728845.8,	10.9,	10.9,	1.5);
(414711.8, 3728845.8,	11.0,	11.0,	1.5);	(414731.8, 3728845.8,	11.0,	11.0,	1.5);
(414751.8, 3728845.8,	10.8,	10.8,	1.5);	(413551.8, 3728865.8,	9.6,	9.6,	1.5);
(413571.8, 3728865.8,	10.1,	10.1,	1.5);	(413591.8, 3728865.8,	10.2,	10.2,	1.5);
(413611.8, 3728865.8,	10.2,	10.2,	1.5);	(413631.8, 3728865.8,	9.8,	9.8,	1.5);
(413651.8, 3728865.8,	9.7,	9.7,	1.5);	(413671.8, 3728865.8,	9.9,	9.9,	1.5);
(413691.8, 3728865.8,	9.4,	9.4,	1.5);	(413711.8, 3728865.8,	9.9,	9.9,	1.5);
(413731.8, 3728865.8,	9.5,	9.5,	1.5);	(413771.8, 3728865.8,	9.9,	9.9,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(413791.8,	3728865.8,	10.0,	10.0,	1.5);	(413811.8,	3728865.8,	10.0,	10.0,	1.5);
(413831.8,	3728865.8,	9.8,	9.8,	1.5);	(413851.8,	3728865.8,	9.5,	9.5,	1.5);
(413871.8,	3728865.8,	9.8,	9.8,	1.5);	(413891.8,	3728865.8,	9.4,	9.4,	1.5);
(413911.8,	3728865.8,	9.3,	9.3,	1.5);	(413931.8,	3728865.8,	9.3,	9.3,	1.5);
(413951.8,	3728865.8,	8.6,	8.6,	1.5);	(413971.8,	3728865.8,	9.2,	9.2,	1.5);
(413991.8,	3728865.8,	9.9,	9.9,	1.5);	(414011.8,	3728865.8,	10.2,	10.2,	1.5);
(414031.8,	3728865.8,	10.2,	10.2,	1.5);	(414051.8,	3728865.8,	10.2,	10.2,	1.5);
(414071.8,	3728865.8,	10.2,	10.2,	1.5);	(414091.8,	3728865.8,	10.3,	10.3,	1.5);
(414111.8,	3728865.8,	10.1,	10.1,	1.5);	(414131.8,	3728865.8,	9.5,	9.5,	1.5);
(414151.8,	3728865.8,	10.2,	10.2,	1.5);	(414171.8,	3728865.8,	10.5,	10.5,	1.5);
(414191.8,	3728865.8,	10.4,	10.4,	1.5);	(414211.8,	3728865.8,	10.2,	10.2,	1.5);
(414231.8,	3728865.8,	10.1,	10.1,	1.5);	(414251.8,	3728865.8,	9.6,	9.6,	1.5);
(414291.8,	3728865.8,	10.1,	10.1,	1.5);	(414311.8,	3728865.8,	10.5,	10.5,	1.5);
(414331.8,	3728865.8,	10.5,	10.5,	1.5);	(414351.8,	3728865.8,	10.4,	10.4,	1.5);
(414371.8,	3728865.8,	10.2,	10.2,	1.5);	(414391.8,	3728865.8,	9.9,	9.9,	1.5);
(414411.8,	3728865.8,	10.2,	10.2,	1.5);	(414431.8,	3728865.8,	10.2,	10.2,	1.5);
(414451.8,	3728865.8,	10.2,	10.2,	1.5);	(414471.8,	3728865.8,	10.0,	10.0,	1.5);
(414491.8,	3728865.8,	9.6,	9.6,	1.5);	(414511.8,	3728865.8,	9.7,	9.7,	1.5);
(414531.8,	3728865.8,	9.7,	9.7,	1.5);	(414551.8,	3728865.8,	10.0,	10.0,	1.5);
(414571.8,	3728865.8,	10.8,	10.8,	1.5);	(414591.8,	3728865.8,	10.5,	10.5,	1.5);
(414611.8,	3728865.8,	10.4,	10.4,	1.5);	(414631.8,	3728865.8,	10.5,	10.5,	1.5);
(414651.8,	3728865.8,	10.6,	10.6,	1.5);	(414671.8,	3728865.8,	10.6,	10.6,	1.5);
(414691.8,	3728865.8,	10.9,	10.9,	1.5);	(414711.8,	3728865.8,	10.9,	10.9,	1.5);
(414731.8,	3728865.8,	10.9,	10.9,	1.5);	(414751.8,	3728865.8,	10.7,	10.7,	1.5);
(413571.8,	3728885.8,	9.8,	9.8,	1.5);	(413591.8,	3728885.8,	10.0,	10.0,	1.5);
(413611.8,	3728885.8,	9.9,	9.9,	1.5);	(413631.8,	3728885.8,	9.9,	9.9,	1.5);
(413651.8,	3728885.8,	9.9,	9.9,	1.5);	(413671.8,	3728885.8,	10.0,	10.0,	1.5);
(413691.8,	3728885.8,	9.5,	9.5,	1.5);	(413711.8,	3728885.8,	9.9,	9.9,	1.5);
(413731.8,	3728885.8,	9.6,	9.6,	1.5);	(413771.8,	3728885.8,	9.2,	9.2,	1.5);
(413791.8,	3728885.8,	9.6,	9.6,	1.5);	(413811.8,	3728885.8,	9.9,	9.9,	1.5);
(413831.8,	3728885.8,	10.0,	10.0,	1.5);	(413851.8,	3728885.8,	9.9,	9.9,	1.5);
(413871.8,	3728885.8,	9.8,	9.8,	1.5);	(413891.8,	3728885.8,	9.7,	9.7,	1.5);
(413911.8,	3728885.8,	9.6,	9.6,	1.5);	(413931.8,	3728885.8,	9.5,	9.5,	1.5);
(413951.8,	3728885.8,	9.0,	9.0,	1.5);	(413971.8,	3728885.8,	9.3,	9.3,	1.5);
(413991.8,	3728885.8,	9.9,	9.9,	1.5);	(414011.8,	3728885.8,	10.3,	10.3,	1.5);
(414031.8,	3728885.8,	10.2,	10.2,	1.5);	(414051.8,	3728885.8,	10.2,	10.2,	1.5);
(414071.8,	3728885.8,	10.2,	10.2,	1.5);	(414091.8,	3728885.8,	10.2,	10.2,	1.5);
(414111.8,	3728885.8,	10.1,	10.1,	1.5);	(414131.8,	3728885.8,	9.6,	9.6,	1.5);
(414151.8,	3728885.8,	10.3,	10.3,	1.5);	(414171.8,	3728885.8,	10.5,	10.5,	1.5);
(414191.8,	3728885.8,	10.5,	10.5,	1.5);	(414211.8,	3728885.8,	10.4,	10.4,	1.5);
(414231.8,	3728885.8,	10.1,	10.1,	1.5);	(414251.8,	3728885.8,	9.7,	9.7,	1.5);
(414271.8,	3728885.8,	9.7,	9.7,	1.5);	(414291.8,	3728885.8,	10.1,	10.1,	1.5);
(414311.8,	3728885.8,	10.5,	10.5,	1.5);	(414331.8,	3728885.8,	10.5,	10.5,	1.5);
(414351.8,	3728885.8,	10.5,	10.5,	1.5);	(414371.8,	3728885.8,	10.2,	10.2,	1.5);
(414391.8,	3728885.8,	9.9,	9.9,	1.5);	(414411.8,	3728885.8,	10.2,	10.2,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(	414431.8,	3728885.8,	10.3,	10.3,	1.5);	(414451.8,	3728885.8,	10.2,	10.2,	1.5);
(	414471.8,	3728885.8,	9.9,	9.9,	1.5);	(414491.8,	3728885.8,	9.3,	9.3,	1.5);
(	414511.8,	3728885.8,	9.7,	9.7,	1.5);	(414531.8,	3728885.8,	9.8,	9.8,	1.5);
(	414551.8,	3728885.8,	10.0,	10.0,	1.5);	(414571.8,	3728885.8,	10.4,	10.4,	1.5);
(	414591.8,	3728885.8,	10.5,	10.5,	1.5);	(414611.8,	3728885.8,	10.6,	10.6,	1.5);
(	414631.8,	3728885.8,	10.7,	10.7,	1.5);	(414651.8,	3728885.8,	10.8,	10.8,	1.5);
(	414671.8,	3728885.8,	10.8,	10.8,	1.5);	(414691.8,	3728885.8,	10.8,	10.8,	1.5);
(	414711.8,	3728885.8,	10.7,	10.7,	1.5);	(414731.8,	3728885.8,	10.6,	10.6,	1.5);
(	414751.8,	3728885.8,	10.5,	10.5,	1.5);	(413591.8,	3728905.8,	9.8,	9.8,	1.5);
(	413611.8,	3728905.8,	9.8,	9.8,	1.5);	(413631.8,	3728905.8,	9.9,	9.9,	1.5);
(	413651.8,	3728905.8,	10.1,	10.1,	1.5);	(413671.8,	3728905.8,	10.1,	10.1,	1.5);
(	413691.8,	3728905.8,	9.6,	9.6,	1.5);	(413711.8,	3728905.8,	9.9,	9.9,	1.5);
(	413731.8,	3728905.8,	9.6,	9.6,	1.5);	(413771.8,	3728905.8,	8.9,	8.9,	1.5);
(	413791.8,	3728905.8,	9.5,	9.5,	1.5);	(413811.8,	3728905.8,	9.8,	9.8,	1.5);
(	413831.8,	3728905.8,	9.9,	9.9,	1.5);	(413851.8,	3728905.8,	9.9,	9.9,	1.5);
(	413871.8,	3728905.8,	9.9,	9.9,	1.5);	(413891.8,	3728905.8,	9.8,	9.8,	1.5);
(	413911.8,	3728905.8,	9.8,	9.8,	1.5);	(413931.8,	3728905.8,	9.8,	9.8,	1.5);
(	413951.8,	3728905.8,	9.5,	9.5,	1.5);	(413971.8,	3728905.8,	9.5,	9.5,	1.5);
(	413991.8,	3728905.8,	9.8,	9.8,	1.5);	(414011.8,	3728905.8,	10.1,	10.1,	1.5);
(	414031.8,	3728905.8,	10.2,	10.2,	1.5);	(414051.8,	3728905.8,	10.1,	10.1,	1.5);
(	414071.8,	3728905.8,	10.1,	10.1,	1.5);	(414091.8,	3728905.8,	10.1,	10.1,	1.5);
(	414111.8,	3728905.8,	10.0,	10.0,	1.5);	(414131.8,	3728905.8,	9.6,	9.6,	1.5);
(	414151.8,	3728905.8,	10.1,	10.1,	1.5);	(414171.8,	3728905.8,	10.3,	10.3,	1.5);
(	414191.8,	3728905.8,	10.3,	10.3,	1.5);	(414211.8,	3728905.8,	10.2,	10.2,	1.5);
(	414231.8,	3728905.8,	10.0,	10.0,	1.5);	(414251.8,	3728905.8,	9.8,	9.8,	1.5);
(	414271.8,	3728905.8,	9.8,	9.8,	1.5);	(414291.8,	3728905.8,	10.2,	10.2,	1.5);
(	414311.8,	3728905.8,	10.2,	10.2,	1.5);	(414331.8,	3728905.8,	10.2,	10.2,	1.5);
(	414351.8,	3728905.8,	10.2,	10.2,	1.5);	(414371.8,	3728905.8,	10.1,	10.1,	1.5);
(	414391.8,	3728905.8,	10.0,	10.0,	1.5);	(414411.8,	3728905.8,	10.2,	10.2,	1.5);
(	414431.8,	3728905.8,	10.3,	10.3,	1.5);	(414451.8,	3728905.8,	10.3,	10.3,	1.5);
(	414471.8,	3728905.8,	10.1,	10.1,	1.5);	(414491.8,	3728905.8,	9.8,	9.8,	1.5);
(	414511.8,	3728905.8,	9.9,	9.9,	1.5);	(414531.8,	3728905.8,	9.9,	9.9,	1.5);
(	414551.8,	3728905.8,	10.0,	10.0,	1.5);	(414571.8,	3728905.8,	10.3,	10.3,	1.5);
(	414591.8,	3728905.8,	10.6,	10.6,	1.5);	(414611.8,	3728905.8,	10.8,	10.8,	1.5);
(	414631.8,	3728905.8,	10.9,	10.9,	1.5);	(414651.8,	3728905.8,	11.0,	11.0,	1.5);
(	414671.8,	3728905.8,	10.8,	10.8,	1.5);	(414691.8,	3728905.8,	10.8,	10.8,	1.5);
(	414711.8,	3728905.8,	10.7,	10.7,	1.5);	(414731.8,	3728905.8,	10.6,	10.6,	1.5);
(	414751.8,	3728905.8,	10.3,	10.3,	1.5);	(413591.8,	3728925.8,	9.8,	9.8,	1.5);
(	413611.8,	3728925.8,	10.1,	10.1,	1.5);	(413631.8,	3728925.8,	10.0,	10.0,	1.5);
(	413651.8,	3728925.8,	9.9,	9.9,	1.5);	(413671.8,	3728925.8,	10.2,	10.2,	1.5);
(	413691.8,	3728925.8,	9.7,	9.7,	1.5);	(413711.8,	3728925.8,	9.8,	9.8,	1.5);
(	413731.8,	3728925.8,	9.5,	9.5,	1.5);	(413771.8,	3728925.8,	9.3,	9.3,	1.5);
(	413791.8,	3728925.8,	9.6,	9.6,	1.5);	(413811.8,	3728925.8,	9.7,	9.7,	1.5);
(	413831.8,	3728925.8,	9.6,	9.6,	1.5);	(413851.8,	3728925.8,	9.4,	9.4,	1.5);
(	413871.8,	3728925.8,	10.1,	10.1,	1.5);	(413891.8,	3728925.8,	9.9,	9.9,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(	413911.8,	3728925.8,	10.0,	10.0,	1.5);	(413931.8,	3728925.8,	10.2,	10.2,	1.5);
(	413951.8,	3728925.8,	10.1,	10.1,	1.5);	(413971.8,	3728925.8,	9.7,	9.7,	1.5);
(	413991.8,	3728925.8,	9.8,	9.8,	1.5);	(414011.8,	3728925.8,	9.9,	9.9,	1.5);
(	414031.8,	3728925.8,	10.0,	10.0,	1.5);	(414051.8,	3728925.8,	10.0,	10.0,	1.5);
(	414071.8,	3728925.8,	9.9,	9.9,	1.5);	(414091.8,	3728925.8,	9.9,	9.9,	1.5);
(	414111.8,	3728925.8,	9.8,	9.8,	1.5);	(414131.8,	3728925.8,	9.6,	9.6,	1.5);
(	414151.8,	3728925.8,	9.9,	9.9,	1.5);	(414171.8,	3728925.8,	10.1,	10.1,	1.5);
(	414191.8,	3728925.8,	10.0,	10.0,	1.5);	(414211.8,	3728925.8,	9.8,	9.8,	1.5);
(	414231.8,	3728925.8,	9.8,	9.8,	1.5);	(414251.8,	3728925.8,	9.8,	9.8,	1.5);
(	414271.8,	3728925.8,	10.0,	10.0,	1.5);	(414291.8,	3728925.8,	10.2,	10.2,	1.5);
(	414311.8,	3728925.8,	10.0,	10.0,	1.5);	(414331.8,	3728925.8,	9.9,	9.9,	1.5);
(	414351.8,	3728925.8,	9.9,	9.9,	1.5);	(414371.8,	3728925.8,	10.1,	10.1,	1.5);
(	414391.8,	3728925.8,	10.2,	10.2,	1.5);	(414411.8,	3728925.8,	10.3,	10.3,	1.5);
(	414431.8,	3728925.8,	10.4,	10.4,	1.5);	(414451.8,	3728925.8,	10.4,	10.4,	1.5);
(	414471.8,	3728925.8,	10.4,	10.4,	1.5);	(414491.8,	3728925.8,	10.4,	10.4,	1.5);
(	414511.8,	3728925.8,	10.2,	10.2,	1.5);	(414531.8,	3728925.8,	10.1,	10.1,	1.5);
(	414551.8,	3728925.8,	10.1,	10.1,	1.5);	(414571.8,	3728925.8,	10.4,	10.4,	1.5);
(	414591.8,	3728925.8,	10.7,	10.7,	1.5);	(414611.8,	3728925.8,	10.9,	10.9,	1.5);
(	414631.8,	3728925.8,	11.1,	11.1,	1.5);	(414651.8,	3728925.8,	11.1,	11.1,	1.5);
(	414671.8,	3728925.8,	10.7,	10.7,	1.5);	(414691.8,	3728925.8,	10.8,	10.8,	1.5);
(	414711.8,	3728925.8,	10.9,	10.9,	1.5);	(414731.8,	3728925.8,	10.7,	10.7,	1.5);
(	414751.8,	3728925.8,	10.2,	10.2,	1.5);	(413611.8,	3728945.8,	10.0,	10.0,	1.5);
(	413631.8,	3728945.8,	10.1,	10.1,	1.5);	(413651.8,	3728945.8,	10.0,	10.0,	1.5);
(	413671.8,	3728945.8,	10.0,	10.0,	1.5);	(413691.8,	3728945.8,	9.8,	9.8,	1.5);
(	413711.8,	3728945.8,	9.9,	9.9,	1.5);	(413731.8,	3728945.8,	9.7,	9.7,	1.5);
(	413771.8,	3728945.8,	9.4,	9.4,	1.5);	(413791.8,	3728945.8,	9.8,	9.8,	1.5);
(	413811.8,	3728945.8,	9.9,	9.9,	1.5);	(413831.8,	3728945.8,	9.8,	9.8,	1.5);
(	413851.8,	3728945.8,	9.6,	9.6,	1.5);	(413871.8,	3728945.8,	9.9,	9.9,	1.5);
(	413891.8,	3728945.8,	9.7,	9.7,	1.5);	(413911.8,	3728945.8,	9.7,	9.7,	1.5);
(	413931.8,	3728945.8,	9.9,	9.9,	1.5);	(413951.8,	3728945.8,	10.1,	10.1,	1.5);
(	413971.8,	3728945.8,	9.9,	9.9,	1.5);	(413991.8,	3728945.8,	10.0,	10.0,	1.5);
(	414011.8,	3728945.8,	10.3,	10.3,	1.5);	(414031.8,	3728945.8,	10.3,	10.3,	1.5);
(	414051.8,	3728945.8,	10.1,	10.1,	1.5);	(414071.8,	3728945.8,	10.2,	10.2,	1.5);
(	414091.8,	3728945.8,	10.2,	10.2,	1.5);	(414111.8,	3728945.8,	10.2,	10.2,	1.5);
(	414131.8,	3728945.8,	10.2,	10.2,	1.5);	(414151.8,	3728945.8,	10.2,	10.2,	1.5);
(	414171.8,	3728945.8,	10.2,	10.2,	1.5);	(414191.8,	3728945.8,	10.0,	10.0,	1.5);
(	414211.8,	3728945.8,	9.7,	9.7,	1.5);	(414231.8,	3728945.8,	9.8,	9.8,	1.5);
(	414251.8,	3728945.8,	10.1,	10.1,	1.5);	(414271.8,	3728945.8,	10.4,	10.4,	1.5);
(	414291.8,	3728945.8,	10.4,	10.4,	1.5);	(414311.8,	3728945.8,	10.4,	10.4,	1.5);
(	414331.8,	3728945.8,	10.3,	10.3,	1.5);	(414351.8,	3728945.8,	10.3,	10.3,	1.5);
(	414371.8,	3728945.8,	10.4,	10.4,	1.5);	(414391.8,	3728945.8,	10.4,	10.4,	1.5);
(	414411.8,	3728945.8,	10.6,	10.6,	1.5);	(414431.8,	3728945.8,	10.6,	10.6,	1.5);
(	414451.8,	3728945.8,	10.6,	10.6,	1.5);	(414471.8,	3728945.8,	10.6,	10.6,	1.5);
(	414491.8,	3728945.8,	10.6,	10.6,	1.5);	(414511.8,	3728945.8,	10.3,	10.3,	1.5);
(	414531.8,	3728945.8,	10.2,	10.2,	1.5);	(414551.8,	3728945.8,	10.4,	10.4,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414571.8, 3728945.8,	10.8,	10.8,	1.5);	(414591.8, 3728945.8,	10.8,	10.8,	1.5);
(414611.8, 3728945.8,	11.0,	11.0,	1.5);	(414631.8, 3728945.8,	11.1,	11.1,	1.5);
(414651.8, 3728945.8,	11.1,	11.1,	1.5);	(414671.8, 3728945.8,	10.6,	10.6,	1.5);
(414691.8, 3728945.8,	10.9,	10.9,	1.5);	(414711.8, 3728945.8,	11.1,	11.1,	1.5);
(414731.8, 3728945.8,	10.9,	10.9,	1.5);	(414751.8, 3728945.8,	10.4,	10.4,	1.5);
(413631.8, 3728965.8,	10.1,	10.1,	1.5);	(413651.8, 3728965.8,	10.1,	10.1,	1.5);
(413671.8, 3728965.8,	9.9,	9.9,	1.5);	(413691.8, 3728965.8,	9.9,	9.9,	1.5);
(413711.8, 3728965.8,	10.0,	10.0,	1.5);	(413731.8, 3728965.8,	9.8,	9.8,	1.5);
(413771.8, 3728965.8,	9.4,	9.4,	1.5);	(413791.8, 3728965.8,	10.0,	10.0,	1.5);
(413811.8, 3728965.8,	10.0,	10.0,	1.5);	(413831.8, 3728965.8,	9.7,	9.7,	1.5);
(413851.8, 3728965.8,	9.6,	9.6,	1.5);	(413871.8, 3728965.8,	9.7,	9.7,	1.5);
(413891.8, 3728965.8,	9.5,	9.5,	1.5);	(413911.8, 3728965.8,	9.5,	9.5,	1.5);
(413931.8, 3728965.8,	9.8,	9.8,	1.5);	(413951.8, 3728965.8,	10.1,	10.1,	1.5);
(413971.8, 3728965.8,	9.9,	9.9,	1.5);	(413991.8, 3728965.8,	10.2,	10.2,	1.5);
(414011.8, 3728965.8,	10.6,	10.6,	1.5);	(414031.8, 3728965.8,	10.5,	10.5,	1.5);
(414051.8, 3728965.8,	10.4,	10.4,	1.5);	(414071.8, 3728965.8,	10.4,	10.4,	1.5);
(414091.8, 3728965.8,	10.3,	10.3,	1.5);	(414111.8, 3728965.8,	10.3,	10.3,	1.5);
(414131.8, 3728965.8,	10.5,	10.5,	1.5);	(414151.8, 3728965.8,	10.4,	10.4,	1.5);
(414171.8, 3728965.8,	10.4,	10.4,	1.5);	(414191.8, 3728965.8,	10.2,	10.2,	1.5);
(414211.8, 3728965.8,	9.6,	9.6,	1.5);	(414231.8, 3728965.8,	10.0,	10.0,	1.5);
(414251.8, 3728965.8,	10.4,	10.4,	1.5);	(414271.8, 3728965.8,	10.7,	10.7,	1.5);
(414291.8, 3728965.8,	10.7,	10.7,	1.5);	(414311.8, 3728965.8,	10.6,	10.6,	1.5);
(414331.8, 3728965.8,	10.6,	10.6,	1.5);	(414351.8, 3728965.8,	10.6,	10.6,	1.5);
(414371.8, 3728965.8,	10.6,	10.6,	1.5);	(414391.8, 3728965.8,	10.6,	10.6,	1.5);
(414411.8, 3728965.8,	10.8,	10.8,	1.5);	(414431.8, 3728965.8,	10.9,	10.9,	1.5);
(414451.8, 3728965.8,	10.9,	10.9,	1.5);	(414471.8, 3728965.8,	10.8,	10.8,	1.5);
(414491.8, 3728965.8,	10.7,	10.7,	1.5);	(414511.8, 3728965.8,	10.4,	10.4,	1.5);
(414531.8, 3728965.8,	10.3,	10.3,	1.5);	(414551.8, 3728965.8,	10.5,	10.5,	1.5);
(414571.8, 3728965.8,	10.7,	10.7,	1.5);	(414591.8, 3728965.8,	10.8,	10.8,	1.5);
(414611.8, 3728965.8,	11.0,	11.0,	1.5);	(414631.8, 3728965.8,	11.1,	11.1,	1.5);
(414651.8, 3728965.8,	11.0,	11.0,	1.5);	(414671.8, 3728965.8,	10.6,	10.6,	1.5);
(414691.8, 3728965.8,	10.9,	10.9,	1.5);	(414711.8, 3728965.8,	11.1,	11.1,	1.5);
(414731.8, 3728965.8,	11.1,	11.1,	1.5);	(414751.8, 3728965.8,	10.6,	10.6,	1.5);
(413631.8, 3728985.8,	10.1,	10.1,	1.5);	(413651.8, 3728985.8,	10.1,	10.1,	1.5);
(413671.8, 3728985.8,	9.9,	9.9,	1.5);	(413691.8, 3728985.8,	10.1,	10.1,	1.5);
(413711.8, 3728985.8,	9.8,	9.8,	1.5);	(413731.8, 3728985.8,	9.7,	9.7,	1.5);
(413751.8, 3728985.8,	9.8,	9.8,	1.5);	(413771.8, 3728985.8,	9.0,	9.0,	1.5);
(413791.8, 3728985.8,	9.9,	9.9,	1.5);	(413811.8, 3728985.8,	9.8,	9.8,	1.5);
(413831.8, 3728985.8,	9.3,	9.3,	1.5);	(413851.8, 3728985.8,	9.2,	9.2,	1.5);
(413871.8, 3728985.8,	9.6,	9.6,	1.5);	(413891.8, 3728985.8,	9.5,	9.5,	1.5);
(413911.8, 3728985.8,	9.6,	9.6,	1.5);	(413931.8, 3728985.8,	9.9,	9.9,	1.5);
(413951.8, 3728985.8,	10.2,	10.2,	1.5);	(413971.8, 3728985.8,	10.0,	10.0,	1.5);
(413991.8, 3728985.8,	10.3,	10.3,	1.5);	(414011.8, 3728985.8,	10.7,	10.7,	1.5);
(414031.8, 3728985.8,	10.8,	10.8,	1.5);	(414051.8, 3728985.8,	10.7,	10.7,	1.5);
(414071.8, 3728985.8,	10.4,	10.4,	1.5);	(414091.8, 3728985.8,	10.1,	10.1,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414111.8,	3728985.8,	10.0,	10.0,	1.5);	(414131.8,	3728985.8,	10.5,	10.5,	1.5);
(414151.8,	3728985.8,	10.6,	10.6,	1.5);	(414171.8,	3728985.8,	10.7,	10.7,	1.5);
(414191.8,	3728985.8,	10.5,	10.5,	1.5);	(414211.8,	3728985.8,	9.7,	9.7,	1.5);
(414231.8,	3728985.8,	10.1,	10.1,	1.5);	(414251.8,	3728985.8,	10.7,	10.7,	1.5);
(414271.8,	3728985.8,	10.9,	10.9,	1.5);	(414291.8,	3728985.8,	10.9,	10.9,	1.5);
(414311.8,	3728985.8,	10.7,	10.7,	1.5);	(414331.8,	3728985.8,	10.8,	10.8,	1.5);
(414351.8,	3728985.8,	10.9,	10.9,	1.5);	(414371.8,	3728985.8,	10.8,	10.8,	1.5);
(414391.8,	3728985.8,	10.7,	10.7,	1.5);	(414411.8,	3728985.8,	11.0,	11.0,	1.5);
(414431.8,	3728985.8,	11.0,	11.0,	1.5);	(414451.8,	3728985.8,	11.1,	11.1,	1.5);
(414471.8,	3728985.8,	11.1,	11.1,	1.5);	(414491.8,	3728985.8,	10.7,	10.7,	1.5);
(414511.8,	3728985.8,	10.4,	10.4,	1.5);	(414531.8,	3728985.8,	10.4,	10.4,	1.5);
(414551.8,	3728985.8,	10.5,	10.5,	1.5);	(414571.8,	3728985.8,	10.6,	10.6,	1.5);
(414591.8,	3728985.8,	10.8,	10.8,	1.5);	(414611.8,	3728985.8,	11.0,	11.0,	1.5);
(414631.8,	3728985.8,	11.1,	11.1,	1.5);	(414651.8,	3728985.8,	11.0,	11.0,	1.5);
(414671.8,	3728985.8,	10.6,	10.6,	1.5);	(414691.8,	3728985.8,	10.8,	10.8,	1.5);
(414711.8,	3728985.8,	11.0,	11.0,	1.5);	(414731.8,	3728985.8,	11.0,	11.0,	1.5);
(414751.8,	3728985.8,	10.8,	10.8,	1.5);	(413651.8,	3729005.8,	10.0,	10.0,	1.5);
(413671.8,	3729005.8,	9.8,	9.8,	1.5);	(413691.8,	3729005.8,	10.2,	10.2,	1.5);
(413711.8,	3729005.8,	10.0,	10.0,	1.5);	(413731.8,	3729005.8,	10.0,	10.0,	1.5);
(413751.8,	3729005.8,	10.0,	10.0,	1.5);	(413771.8,	3729005.8,	9.3,	9.3,	1.5);
(413791.8,	3729005.8,	9.4,	9.4,	1.5);	(413811.8,	3729005.8,	9.5,	9.5,	1.5);
(413831.8,	3729005.8,	9.5,	9.5,	1.5);	(413851.8,	3729005.8,	9.5,	9.5,	1.5);
(413871.8,	3729005.8,	9.6,	9.6,	1.5);	(413891.8,	3729005.8,	9.2,	9.2,	1.5);
(413911.8,	3729005.8,	9.3,	9.3,	1.5);	(413931.8,	3729005.8,	9.8,	9.8,	1.5);
(413951.8,	3729005.8,	10.2,	10.2,	1.5);	(413971.8,	3729005.8,	10.1,	10.1,	1.5);
(413991.8,	3729005.8,	10.3,	10.3,	1.5);	(414011.8,	3729005.8,	10.6,	10.6,	1.5);
(414031.8,	3729005.8,	10.6,	10.6,	1.5);	(414051.8,	3729005.8,	10.5,	10.5,	1.5);
(414071.8,	3729005.8,	10.2,	10.2,	1.5);	(414091.8,	3729005.8,	10.0,	10.0,	1.5);
(414111.8,	3729005.8,	10.0,	10.0,	1.5);	(414131.8,	3729005.8,	10.0,	10.0,	1.5);
(414151.8,	3729005.8,	10.0,	10.0,	1.5);	(414171.8,	3729005.8,	10.0,	10.0,	1.5);
(414191.8,	3729005.8,	9.9,	9.9,	1.5);	(414211.8,	3729005.8,	9.6,	9.6,	1.5);
(414231.8,	3729005.8,	10.0,	10.0,	1.5);	(414251.8,	3729005.8,	10.5,	10.5,	1.5);
(414271.8,	3729005.8,	10.8,	10.8,	1.5);	(414291.8,	3729005.8,	10.8,	10.8,	1.5);
(414311.8,	3729005.8,	10.5,	10.5,	1.5);	(414331.8,	3729005.8,	10.5,	10.5,	1.5);
(414351.8,	3729005.8,	10.6,	10.6,	1.5);	(414371.8,	3729005.8,	10.6,	10.6,	1.5);
(414391.8,	3729005.8,	10.8,	10.8,	1.5);	(414411.8,	3729005.8,	10.9,	10.9,	1.5);
(414431.8,	3729005.8,	10.9,	10.9,	1.5);	(414451.8,	3729005.8,	11.0,	11.0,	1.5);
(414471.8,	3729005.8,	11.0,	11.0,	1.5);	(414491.8,	3729005.8,	10.8,	10.8,	1.5);
(414511.8,	3729005.8,	10.5,	10.5,	1.5);	(414531.8,	3729005.8,	10.5,	10.5,	1.5);
(414551.8,	3729005.8,	10.6,	10.6,	1.5);	(414571.8,	3729005.8,	10.6,	10.6,	1.5);
(414591.8,	3729005.8,	10.9,	10.9,	1.5);	(414611.8,	3729005.8,	11.0,	11.0,	1.5);
(414631.8,	3729005.8,	11.1,	11.1,	1.5);	(414651.8,	3729005.8,	11.0,	11.0,	1.5);
(414671.8,	3729005.8,	10.9,	10.9,	1.5);	(414691.8,	3729005.8,	10.6,	10.6,	1.5);
(414711.8,	3729005.8,	10.5,	10.5,	1.5);	(414731.8,	3729005.8,	10.7,	10.7,	1.5);
(414751.8,	3729005.8,	10.8,	10.8,	1.5);	(413651.8,	3729025.8,	9.8,	9.8,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(413671.8, 3729025.8,	9.8,	9.8,	1.5);	(413691.8, 3729025.8,	10.2,	10.2,	1.5);
(413711.8, 3729025.8,	10.2,	10.2,	1.5);	(413731.8, 3729025.8,	10.2,	10.2,	1.5);
(413751.8, 3729025.8,	10.0,	10.0,	1.5);	(413771.8, 3729025.8,	9.8,	9.8,	1.5);
(413791.8, 3729025.8,	9.2,	9.2,	1.5);	(413811.8, 3729025.8,	9.2,	9.2,	1.5);
(413831.8, 3729025.8,	9.6,	9.6,	1.5);	(413851.8, 3729025.8,	9.7,	9.7,	1.5);
(413871.8, 3729025.8,	9.6,	9.6,	1.5);	(413891.8, 3729025.8,	9.2,	9.2,	1.5);
(413911.8, 3729025.8,	9.2,	9.2,	1.5);	(413931.8, 3729025.8,	9.8,	9.8,	1.5);
(413951.8, 3729025.8,	10.1,	10.1,	1.5);	(413971.8, 3729025.8,	10.1,	10.1,	1.5);
(413991.8, 3729025.8,	10.3,	10.3,	1.5);	(414011.8, 3729025.8,	10.5,	10.5,	1.5);
(414031.8, 3729025.8,	10.5,	10.5,	1.5);	(414051.8, 3729025.8,	10.4,	10.4,	1.5);
(414071.8, 3729025.8,	10.3,	10.3,	1.5);	(414091.8, 3729025.8,	10.2,	10.2,	1.5);
(414111.8, 3729025.8,	10.1,	10.1,	1.5);	(414131.8, 3729025.8,	9.8,	9.8,	1.5);
(414151.8, 3729025.8,	9.9,	9.9,	1.5);	(414171.8, 3729025.8,	9.8,	9.8,	1.5);
(414191.8, 3729025.8,	9.7,	9.7,	1.5);	(414211.8, 3729025.8,	9.6,	9.6,	1.5);
(414231.8, 3729025.8,	9.9,	9.9,	1.5);	(414251.8, 3729025.8,	10.4,	10.4,	1.5);
(414271.8, 3729025.8,	10.7,	10.7,	1.5);	(414291.8, 3729025.8,	10.8,	10.8,	1.5);
(414311.8, 3729025.8,	10.5,	10.5,	1.5);	(414331.8, 3729025.8,	10.5,	10.5,	1.5);
(414351.8, 3729025.8,	10.5,	10.5,	1.5);	(414371.8, 3729025.8,	10.6,	10.6,	1.5);
(414391.8, 3729025.8,	10.8,	10.8,	1.5);	(414411.8, 3729025.8,	10.9,	10.9,	1.5);
(414431.8, 3729025.8,	10.8,	10.8,	1.5);	(414451.8, 3729025.8,	10.9,	10.9,	1.5);
(414471.8, 3729025.8,	11.0,	11.0,	1.5);	(414491.8, 3729025.8,	10.9,	10.9,	1.5);
(414511.8, 3729025.8,	10.6,	10.6,	1.5);	(414531.8, 3729025.8,	10.6,	10.6,	1.5);
(414551.8, 3729025.8,	10.6,	10.6,	1.5);	(414571.8, 3729025.8,	10.7,	10.7,	1.5);
(414591.8, 3729025.8,	10.9,	10.9,	1.5);	(414611.8, 3729025.8,	11.0,	11.0,	1.5);
(414631.8, 3729025.8,	11.0,	11.0,	1.5);	(414651.8, 3729025.8,	11.0,	11.0,	1.5);
(414671.8, 3729025.8,	11.0,	11.0,	1.5);	(414691.8, 3729025.8,	10.6,	10.6,	1.5);
(414711.8, 3729025.8,	10.5,	10.5,	1.5);	(414731.8, 3729025.8,	10.5,	10.5,	1.5);
(414751.8, 3729025.8,	10.5,	10.5,	1.5);	(413671.8, 3729045.8,	10.1,	10.1,	1.5);
(413691.8, 3729045.8,	10.2,	10.2,	1.5);	(413711.8, 3729045.8,	10.0,	10.0,	1.5);
(413731.8, 3729045.8,	9.8,	9.8,	1.5);	(413751.8, 3729045.8,	9.7,	9.7,	1.5);
(413771.8, 3729045.8,	10.2,	10.2,	1.5);	(413791.8, 3729045.8,	9.4,	9.4,	1.5);
(413811.8, 3729045.8,	9.2,	9.2,	1.5);	(413831.8, 3729045.8,	9.5,	9.5,	1.5);
(413851.8, 3729045.8,	9.7,	9.7,	1.5);	(413871.8, 3729045.8,	9.6,	9.6,	1.5);
(413891.8, 3729045.8,	9.5,	9.5,	1.5);	(413911.8, 3729045.8,	9.6,	9.6,	1.5);
(413931.8, 3729045.8,	9.7,	9.7,	1.5);	(413951.8, 3729045.8,	10.0,	10.0,	1.5);
(413971.8, 3729045.8,	10.2,	10.2,	1.5);	(413991.8, 3729045.8,	10.4,	10.4,	1.5);
(414011.8, 3729045.8,	10.7,	10.7,	1.5);	(414031.8, 3729045.8,	10.7,	10.7,	1.5);
(414051.8, 3729045.8,	10.6,	10.6,	1.5);	(414071.8, 3729045.8,	10.6,	10.6,	1.5);
(414091.8, 3729045.8,	10.7,	10.7,	1.5);	(414111.8, 3729045.8,	10.6,	10.6,	1.5);
(414131.8, 3729045.8,	10.0,	10.0,	1.5);	(414151.8, 3729045.8,	10.2,	10.2,	1.5);
(414171.8, 3729045.8,	10.3,	10.3,	1.5);	(414191.8, 3729045.8,	10.1,	10.1,	1.5);
(414211.8, 3729045.8,	9.7,	9.7,	1.5);	(414231.8, 3729045.8,	9.9,	9.9,	1.5);
(414251.8, 3729045.8,	10.3,	10.3,	1.5);	(414271.8, 3729045.8,	10.7,	10.7,	1.5);
(414291.8, 3729045.8,	10.8,	10.8,	1.5);	(414311.8, 3729045.8,	10.8,	10.8,	1.5);
(414331.8, 3729045.8,	10.8,	10.8,	1.5);	(414351.8, 3729045.8,	10.8,	10.8,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(414371.8, 3729045.8,	10.7,	10.7,	1.5);	(414391.8, 3729045.8,	10.6,	10.6,	1.5);
(414411.8, 3729045.8,	10.7,	10.7,	1.5);	(414431.8, 3729045.8,	10.8,	10.8,	1.5);
(414451.8, 3729045.8,	10.8,	10.8,	1.5);	(414471.8, 3729045.8,	10.9,	10.9,	1.5);
(414491.8, 3729045.8,	11.1,	11.1,	1.5);	(414511.8, 3729045.8,	10.8,	10.8,	1.5);
(414531.8, 3729045.8,	10.6,	10.6,	1.5);	(414551.8, 3729045.8,	10.7,	10.7,	1.5);
(414571.8, 3729045.8,	10.7,	10.7,	1.5);	(414591.8, 3729045.8,	10.9,	10.9,	1.5);
(414611.8, 3729045.8,	11.0,	11.0,	1.5);	(414631.8, 3729045.8,	11.0,	11.0,	1.5);
(414651.8, 3729045.8,	11.0,	11.0,	1.5);	(414671.8, 3729045.8,	11.0,	11.0,	1.5);
(414691.8, 3729045.8,	10.7,	10.7,	1.5);	(414711.8, 3729045.8,	10.6,	10.6,	1.5);
(414731.8, 3729045.8,	10.5,	10.5,	1.5);	(414751.8, 3729045.8,	10.2,	10.2,	1.5);
(413671.8, 3729065.8,	10.1,	10.1,	1.5);	(413691.8, 3729065.8,	10.0,	10.0,	1.5);
(413711.8, 3729065.8,	9.9,	9.9,	1.5);	(413731.8, 3729065.8,	9.7,	9.7,	1.5);
(413751.8, 3729065.8,	9.7,	9.7,	1.5);	(413771.8, 3729065.8,	10.2,	10.2,	1.5);
(413791.8, 3729065.8,	9.9,	9.9,	1.5);	(413811.8, 3729065.8,	9.6,	9.6,	1.5);
(413831.8, 3729065.8,	9.4,	9.4,	1.5);	(413851.8, 3729065.8,	9.8,	9.8,	1.5);
(413871.8, 3729065.8,	9.7,	9.7,	1.5);	(413891.8, 3729065.8,	9.8,	9.8,	1.5);
(413911.8, 3729065.8,	9.9,	9.9,	1.5);	(413931.8, 3729065.8,	9.9,	9.9,	1.5);
(413951.8, 3729065.8,	10.0,	10.0,	1.5);	(413971.8, 3729065.8,	10.3,	10.3,	1.5);
(413991.8, 3729065.8,	10.6,	10.6,	1.5);	(414011.8, 3729065.8,	10.9,	10.9,	1.5);
(414031.8, 3729065.8,	10.8,	10.8,	1.5);	(414051.8, 3729065.8,	10.5,	10.5,	1.5);
(414071.8, 3729065.8,	10.7,	10.7,	1.5);	(414091.8, 3729065.8,	10.8,	10.8,	1.5);
(414111.8, 3729065.8,	10.7,	10.7,	1.5);	(414131.8, 3729065.8,	10.1,	10.1,	1.5);
(414151.8, 3729065.8,	10.3,	10.3,	1.5);	(414171.8, 3729065.8,	10.5,	10.5,	1.5);
(414191.8, 3729065.8,	10.3,	10.3,	1.5);	(414211.8, 3729065.8,	9.8,	9.8,	1.5);
(414231.8, 3729065.8,	10.0,	10.0,	1.5);	(414251.8, 3729065.8,	10.4,	10.4,	1.5);
(414271.8, 3729065.8,	10.8,	10.8,	1.5);	(414291.8, 3729065.8,	11.1,	11.1,	1.5);
(414311.8, 3729065.8,	11.0,	11.0,	1.5);	(414331.8, 3729065.8,	11.0,	11.0,	1.5);
(414351.8, 3729065.8,	11.0,	11.0,	1.5);	(414371.8, 3729065.8,	10.8,	10.8,	1.5);
(414391.8, 3729065.8,	10.4,	10.4,	1.5);	(414411.8, 3729065.8,	10.5,	10.5,	1.5);
(414431.8, 3729065.8,	10.6,	10.6,	1.5);	(414451.8, 3729065.8,	10.8,	10.8,	1.5);
(414471.8, 3729065.8,	11.0,	11.0,	1.5);	(414491.8, 3729065.8,	10.9,	10.9,	1.5);
(414511.8, 3729065.8,	10.7,	10.7,	1.5);	(414531.8, 3729065.8,	10.7,	10.7,	1.5);
(414551.8, 3729065.8,	10.8,	10.8,	1.5);	(414571.8, 3729065.8,	10.8,	10.8,	1.5);
(414591.8, 3729065.8,	11.0,	11.0,	1.5);	(414611.8, 3729065.8,	11.1,	11.1,	1.5);
(414631.8, 3729065.8,	11.1,	11.1,	1.5);	(414651.8, 3729065.8,	11.0,	11.0,	1.5);
(414671.8, 3729065.8,	10.9,	10.9,	1.5);	(414691.8, 3729065.8,	10.9,	10.9,	1.5);
(414711.8, 3729065.8,	10.8,	10.8,	1.5);	(414731.8, 3729065.8,	10.6,	10.6,	1.5);
(414751.8, 3729065.8,	10.4,	10.4,	1.5);	(413691.8, 3729085.8,	9.7,	9.7,	1.5);
(413711.8, 3729085.8,	9.7,	9.7,	1.5);	(413731.8, 3729085.8,	9.8,	9.8,	1.5);
(413751.8, 3729085.8,	9.8,	9.8,	1.5);	(413771.8, 3729085.8,	10.0,	10.0,	1.5);
(413791.8, 3729085.8,	10.3,	10.3,	1.5);	(413811.8, 3729085.8,	9.9,	9.9,	1.5);
(413831.8, 3729085.8,	9.4,	9.4,	1.5);	(413851.8, 3729085.8,	9.8,	9.8,	1.5);
(413871.8, 3729085.8,	9.8,	9.8,	1.5);	(413891.8, 3729085.8,	10.0,	10.0,	1.5);
(413911.8, 3729085.8,	10.1,	10.1,	1.5);	(413931.8, 3729085.8,	10.0,	10.0,	1.5);
(413951.8, 3729085.8,	10.0,	10.0,	1.5);	(413971.8, 3729085.8,	10.3,	10.3,	1.5);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

(413991.8,	3729085.8,	10.7,	10.7,	1.5);	(414011.8,	3729085.8,	10.9,	10.9,	1.5);
(414031.8,	3729085.8,	10.8,	10.8,	1.5);	(414051.8,	3729085.8,	10.5,	10.5,	1.5);
(414071.8,	3729085.8,	10.6,	10.6,	1.5);	(414091.8,	3729085.8,	10.8,	10.8,	1.5);
(414111.8,	3729085.8,	10.6,	10.6,	1.5);	(414131.8,	3729085.8,	10.2,	10.2,	1.5);
(414151.8,	3729085.8,	10.3,	10.3,	1.5);	(414171.8,	3729085.8,	10.4,	10.4,	1.5);
(414191.8,	3729085.8,	10.3,	10.3,	1.5);	(414211.8,	3729085.8,	9.8,	9.8,	1.5);
(414231.8,	3729085.8,	10.4,	10.4,	1.5);	(414251.8,	3729085.8,	10.7,	10.7,	1.5);
(414271.8,	3729085.8,	11.0,	11.0,	1.5);	(414291.8,	3729085.8,	11.3,	11.3,	1.5);
(414311.8,	3729085.8,	11.0,	11.0,	1.5);	(414331.8,	3729085.8,	10.9,	10.9,	1.5);
(414351.8,	3729085.8,	10.9,	10.9,	1.5);	(414371.8,	3729085.8,	10.7,	10.7,	1.5);
(414391.8,	3729085.8,	10.4,	10.4,	1.5);	(414411.8,	3729085.8,	10.6,	10.6,	1.5);
(414431.8,	3729085.8,	10.7,	10.7,	1.5);	(414451.8,	3729085.8,	10.8,	10.8,	1.5);
(414471.8,	3729085.8,	11.1,	11.1,	1.5);	(414491.8,	3729085.8,	10.8,	10.8,	1.5);
(414511.8,	3729085.8,	10.8,	10.8,	1.5);	(414531.8,	3729085.8,	10.8,	10.8,	1.5);
(414551.8,	3729085.8,	11.0,	11.0,	1.5);	(414571.8,	3729085.8,	11.0,	11.0,	1.5);
(414591.8,	3729085.8,	11.1,	11.1,	1.5);	(414611.8,	3729085.8,	11.1,	11.1,	1.5);
(414631.8,	3729085.8,	11.1,	11.1,	1.5);	(414651.8,	3729085.8,	11.0,	11.0,	1.5);
(414671.8,	3729085.8,	10.9,	10.9,	1.5);	(414691.8,	3729085.8,	10.8,	10.8,	1.5);
(414711.8,	3729085.8,	10.8,	10.8,	1.5);	(414731.8,	3729085.8,	10.7,	10.7,	1.5);
(414751.8,	3729085.8,	10.6,	10.6,	1.5);					

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

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1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

Surface file: JohnWayneInt'lAirportADJU\KSNA_V9_ADJU\KSNA_v9.SFC Met Version: 16216
Profile file: JohnWayneInt'lAirportADJU\KSNA_V9_ADJU\KSNA_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93184 Upper air station no.: 3190
Name: 365540.00 Name: MIRIMAR_AIR_STATION
Year: 2012 Year: 2012

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
12	01	01	1	01	-4.5	0.082	-9.000	-9.000	-999.	56.	11.0	0.12	2.65	1.00	0.87	62.	5.8	283.8	2.0
12	01	01	1	02	-3.5	0.073	-9.000	-9.000	-999.	47.	9.9	0.12	2.65	1.00	0.77	27.	5.8	283.1	2.0
12	01	01	1	03	-3.5	0.073	-9.000	-9.000	-999.	47.	9.9	0.12	2.65	1.00	0.77	336.	5.8	283.1	2.0
12	01	01	1	04	-3.3	0.070	-9.000	-9.000	-999.	45.	9.7	0.12	2.65	1.00	0.74	34.	5.8	283.1	2.0
12	01	01	1	05	-3.0	0.068	-9.000	-9.000	-999.	42.	9.4	0.12	2.65	1.00	0.70	154.	5.8	282.5	2.0
12	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.12	2.65	1.00	0.00	0.	5.8	282.0	2.0
12	01	01	1	07	-2.0	0.059	-9.000	-9.000	-999.	34.	9.0	0.12	2.65	1.00	0.55	343.	5.8	281.4	2.0
12	01	01	1	08	-2.6	0.066	-9.000	-9.000	-999.	40.	9.7	0.12	2.65	0.53	0.69	25.	5.8	281.4	2.0
12	01	01	1	09	21.6	0.133	0.252	0.010	27.	116.	-9.9	0.12	2.65	0.31	1.03	344.	5.8	282.5	2.0
12	01	01	1	10	115.6	0.162	0.713	0.008	114.	156.	-3.3	0.12	2.65	0.24	1.06	233.	5.8	286.4	2.0
12	01	01	1	11	160.9	0.126	1.129	0.005	325.	108.	-1.1	0.12	2.65	0.21	0.67	261.	5.8	291.4	2.0
12	01	01	1	12	187.0	0.138	1.467	0.005	614.	123.	-1.3	0.12	2.65	0.20	0.75	252.	5.8	294.9	2.0
12	01	01	1	13	186.9	0.189	1.755	0.005	1051.	197.	-3.3	0.12	2.65	0.20	1.23	280.	5.8	297.5	2.0
12	01	01	1	14	168.3	0.247	1.857	0.005	1383.	295.	-8.1	0.12	2.65	0.21	1.86	268.	5.8	299.2	2.0
12	01	01	1	15	115.3	0.275	1.688	0.005	1517.	346.	-16.3	0.12	2.65	0.24	2.25	248.	5.8	298.1	2.0
12	01	01	1	16	41.5	0.262	1.211	0.005	1552.	322.	-39.2	0.12	2.65	0.33	2.32	227.	5.8	295.9	2.0
12	01	01	1	17	-17.9	0.217	-9.000	-9.000	-999.	244.	52.0	0.12	2.65	0.60	2.18	227.	5.8	292.5	2.0
12	01	01	1	18	-24.7	0.250	-9.000	-9.000	-999.	300.	68.7	0.12	2.65	1.00	2.50	219.	5.8	288.8	2.0
12	01	01	1	19	-5.2	0.088	-9.000	-9.000	-999.	91.	12.0	0.12	2.65	1.00	0.94	201.	5.8	287.5	2.0
12	01	01	1	20	-3.5	0.073	-9.000	-9.000	-999.	47.	10.0	0.12	2.65	1.00	0.77	259.	5.8	287.0	2.0
12	01	01	1	21	-2.6	0.064	-9.000	-9.000	-999.	39.	9.1	0.12	2.65	1.00	0.65	264.	5.8	286.4	2.0
12	01	01	1	22	-4.4	0.081	-9.000	-9.000	-999.	55.	10.9	0.12	2.65	1.00	0.86	211.	5.8	285.9	2.0
12	01	01	1	23	-4.2	0.079	-9.000	-9.000	-999.	53.	10.7	0.12	2.65	1.00	0.84	247.	5.8	284.9	2.0
12	01	01	1	24	-7.1	0.103	-9.000	-9.000	-999.	80.	14.1	0.12	2.65	1.00	1.09	236.	5.8	283.8	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.8	1	62.	0.87	283.8	99.0	-99.00	-99.00

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

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

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

GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	NETWORK GRID-ID
EXHAUST	1ST HIGHEST VALUE IS	255.27068	AT (	414031.83,	3728685.77,	9.73,	9.73,	1.50)	DC	
	2ND HIGHEST VALUE IS	255.02909	AT (	414031.83,	3728705.77,	9.73,	9.73,	1.50)	DC	
	3RD HIGHEST VALUE IS	234.88813	AT (	414031.83,	3728665.77,	9.77,	9.77,	1.50)	DC	
	4TH HIGHEST VALUE IS	233.17822	AT (	414031.83,	3728725.77,	9.77,	9.77,	1.50)	DC	
	5TH HIGHEST VALUE IS	199.34137	AT (	414031.83,	3728645.77,	9.81,	9.81,	1.50)	DC	
	6TH HIGHEST VALUE IS	199.22454	AT (	414031.83,	3728745.77,	9.77,	9.77,	1.50)	DC	
	7TH HIGHEST VALUE IS	178.12109	AT (	414051.83,	3728705.77,	9.79,	9.79,	1.50)	DC	
	8TH HIGHEST VALUE IS	172.31939	AT (	414051.83,	3728725.77,	9.79,	9.79,	1.50)	DC	
	9TH HIGHEST VALUE IS	171.81440	AT (	414051.83,	3728685.77,	9.76,	9.76,	1.50)	DC	
	10TH HIGHEST VALUE IS	163.92850	AT (	414031.83,	3728765.77,	9.61,	9.61,	1.50)	DC	

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

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
EXHAUST	HIGH 1ST HIGH VALUE IS	7103.60362	ON 13041207: AT (414031.83, 3728665.77, 9.77, 9.77, 1.50)	DC	

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

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
EXHAUST	HIGH 1ST HIGH VALUE IS	2064.27954	ON 15122216: AT (414031.83, 3728685.77, 9.73, 9.73, 1.50)	DC	

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

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
EXHAUST	HIGH 1ST HIGH VALUE IS	1101.65673c	ON 13112124: AT (414031.83, 3728685.77, 9.73, 9.73, 1.50)	DC	

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

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

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

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   1864 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   1500 Calm Hours Identified

A Total of   364 Missing Hours Identified (0.83 Percent)

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

   ********   WARNING MESSAGES   ********
ME W186   3353   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
ME W187   3353   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ****
   *** AERMOD Finishes Successfully ***
   ****

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Is Setup For Calculation of Dry DEPosition Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for   1 Source(s),
  for Total of   1 Urban Area(s):
  Urban Population =   3010232.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Accepts FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: PM_10

**Model Calculates 1 Short Term Average(s) of: 24-HR
    and Calculates ANNUAL Averages

**This Run Includes: 1 Source(s);   1 Source Group(s); and   2919 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 0 VOLUME source(s)
                and: 1 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: 16216

**Output Options Selected:
        Model Outputs Tables of ANNUAL 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) =   170.00 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
 Concentration: Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3
    Deposition: Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   3600.0
                 Output Units   = GRAMS/M**2

**Approximate Storage Requirements of Model =   4.5 MB of RAM.

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

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

*** 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	3	0.25488E-04	413712.3	3728768.9	8.6	0.61	5	0.00	YES	HRDOW7

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
PAREA1	PAREA1 ,

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	3010232.	PAREA1 ,

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = PAREA1   ; SOURCE TYPE = AREAPOLY ***

MASS FRACTION =
    0.07870,   0.12920,   0.79210,

PARTICLE DIAMETER (MICRONS) =
    1.00000,   2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
    2.30000,   2.30000,   2.30000,

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = PAREA1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(413971.8, 3727965.8,	11.4,	11.4,	1.5);	(413991.8, 3727965.8,	10.9,	10.9,	1.5);
(414011.8, 3727965.8,	11.1,	11.1,	1.5);	(414031.8, 3727965.8,	11.4,	11.4,	1.5);
(413911.8, 3727985.8,	10.8,	10.8,	1.5);	(413931.8, 3727985.8,	11.0,	11.0,	1.5);
(413951.8, 3727985.8,	11.4,	11.4,	1.5);	(413971.8, 3727985.8,	11.3,	11.3,	1.5);
(413991.8, 3727985.8,	10.8,	10.8,	1.5);	(414011.8, 3727985.8,	11.1,	11.1,	1.5);
(414031.8, 3727985.8,	11.2,	11.2,	1.5);	(414051.8, 3727985.8,	11.1,	11.1,	1.5);
(414071.8, 3727985.8,	10.6,	10.6,	1.5);	(414091.8, 3727985.8,	11.1,	11.1,	1.5);
(414111.8, 3727985.8,	11.4,	11.4,	1.5);	(414131.8, 3727985.8,	11.2,	11.2,	1.5);
(414151.8, 3727985.8,	10.8,	10.8,	1.5);	(414171.8, 3727985.8,	10.8,	10.8,	1.5);
(414191.8, 3727985.8,	10.9,	10.9,	1.5);	(414211.8, 3727985.8,	11.0,	11.0,	1.5);
(414231.8, 3727985.8,	11.1,	11.1,	1.5);	(414251.8, 3727985.8,	11.5,	11.5,	1.5);
(414271.8, 3727985.8,	11.5,	11.5,	1.5);	(414291.8, 3727985.8,	11.4,	11.4,	1.5);
(414311.8, 3727985.8,	11.3,	11.3,	1.5);	(414331.8, 3727985.8,	11.3,	11.3,	1.5);
(414351.8, 3727985.8,	11.1,	11.1,	1.5);	(414371.8, 3727985.8,	10.9,	10.9,	1.5);
(414391.8, 3727985.8,	10.7,	10.7,	1.5);	(414411.8, 3727985.8,	10.6,	10.6,	1.5);
(414431.8, 3727985.8,	10.6,	10.6,	1.5);	(414451.8, 3727985.8,	10.6,	10.6,	1.5);
(414471.8, 3727985.8,	10.5,	10.5,	1.5);	(414491.8, 3727985.8,	10.5,	10.5,	1.5);
(414511.8, 3727985.8,	10.5,	10.5,	1.5);	(414531.8, 3727985.8,	10.5,	10.5,	1.5);
(414551.8, 3727985.8,	10.0,	10.0,	1.5);	(414571.8, 3727985.8,	9.9,	9.9,	1.5);
(414591.8, 3727985.8,	10.2,	10.2,	1.5);	(414611.8, 3727985.8,	9.9,	9.9,	1.5);
(413871.8, 3728005.8,	11.6,	11.6,	1.5);	(413891.8, 3728005.8,	11.2,	11.2,	1.5);
(413911.8, 3728005.8,	10.7,	10.7,	1.5);	(413931.8, 3728005.8,	10.9,	10.9,	1.5);
(413951.8, 3728005.8,	11.3,	11.3,	1.5);	(413971.8, 3728005.8,	11.2,	11.2,	1.5);
(413991.8, 3728005.8,	10.8,	10.8,	1.5);	(414011.8, 3728005.8,	11.0,	11.0,	1.5);
(414031.8, 3728005.8,	11.1,	11.1,	1.5);	(414051.8, 3728005.8,	10.9,	10.9,	1.5);
(414071.8, 3728005.8,	10.4,	10.4,	1.5);	(414091.8, 3728005.8,	11.0,	11.0,	1.5);
(414111.8, 3728005.8,	11.3,	11.3,	1.5);	(414131.8, 3728005.8,	11.2,	11.2,	1.5);
(414151.8, 3728005.8,	10.7,	10.7,	1.5);	(414171.8, 3728005.8,	10.7,	10.7,	1.5);
(414191.8, 3728005.8,	10.8,	10.8,	1.5);	(414211.8, 3728005.8,	10.9,	10.9,	1.5);
(414231.8, 3728005.8,	11.0,	11.0,	1.5);	(414251.8, 3728005.8,	11.1,	11.1,	1.5);
(414271.8, 3728005.8,	11.0,	11.0,	1.5);	(414291.8, 3728005.8,	11.1,	11.1,	1.5);
(414311.8, 3728005.8,	11.2,	11.2,	1.5);	(414331.8, 3728005.8,	11.2,	11.2,	1.5);
(414351.8, 3728005.8,	10.9,	10.9,	1.5);	(414371.8, 3728005.8,	10.6,	10.6,	1.5);
(414391.8, 3728005.8,	10.5,	10.5,	1.5);	(414411.8, 3728005.8,	10.4,	10.4,	1.5);
(414431.8, 3728005.8,	10.4,	10.4,	1.5);	(414451.8, 3728005.8,	10.4,	10.4,	1.5);
(414471.8, 3728005.8,	10.4,	10.4,	1.5);	(414491.8, 3728005.8,	10.4,	10.4,	1.5);
(414511.8, 3728005.8,	10.3,	10.3,	1.5);	(414531.8, 3728005.8,	10.3,	10.3,	1.5);
(414551.8, 3728005.8,	9.9,	9.9,	1.5);	(414571.8, 3728005.8,	9.8,	9.8,	1.5);
(414591.8, 3728005.8,	10.2,	10.2,	1.5);	(413831.8, 3728025.8,	11.2,	11.2,	1.5);
(413851.8, 3728025.8,	11.2,	11.2,	1.5);	(413871.8, 3728025.8,	11.3,	11.3,	1.5);
(413891.8, 3728025.8,	10.9,	10.9,	1.5);	(413911.8, 3728025.8,	10.5,	10.5,	1.5);
(413931.8, 3728025.8,	10.6,	10.6,	1.5);	(413951.8, 3728025.8,	10.8,	10.8,	1.5);
(413971.8, 3728025.8,	10.8,	10.8,	1.5);	(413991.8, 3728025.8,	10.7,	10.7,	1.5);
(414011.8, 3728025.8,	10.7,	10.7,	1.5);	(414031.8, 3728025.8,	10.7,	10.7,	1.5);
(414051.8, 3728025.8,	10.6,	10.6,	1.5);	(414071.8, 3728025.8,	10.3,	10.3,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	414091.8,	3728025.8,	10.8,	10.8,	1.5);	(414111.8,	3728025.8,	11.0,	11.0,	1.5);
(	414131.8,	3728025.8,	10.9,	10.9,	1.5);	(414151.8,	3728025.8,	10.9,	10.9,	1.5);
(	414171.8,	3728025.8,	10.9,	10.9,	1.5);	(414191.8,	3728025.8,	10.9,	10.9,	1.5);
(	414211.8,	3728025.8,	10.9,	10.9,	1.5);	(414231.8,	3728025.8,	11.0,	11.0,	1.5);
(	414251.8,	3728025.8,	11.1,	11.1,	1.5);	(414271.8,	3728025.8,	10.9,	10.9,	1.5);
(	414291.8,	3728025.8,	10.8,	10.8,	1.5);	(414311.8,	3728025.8,	10.7,	10.7,	1.5);
(	414331.8,	3728025.8,	10.5,	10.5,	1.5);	(414351.8,	3728025.8,	10.4,	10.4,	1.5);
(	414371.8,	3728025.8,	10.3,	10.3,	1.5);	(414391.8,	3728025.8,	10.2,	10.2,	1.5);
(	414411.8,	3728025.8,	10.2,	10.2,	1.5);	(414431.8,	3728025.8,	10.2,	10.2,	1.5);
(	414451.8,	3728025.8,	10.2,	10.2,	1.5);	(414471.8,	3728025.8,	10.2,	10.2,	1.5);
(	414491.8,	3728025.8,	10.2,	10.2,	1.5);	(414511.8,	3728025.8,	10.2,	10.2,	1.5);
(	414531.8,	3728025.8,	10.1,	10.1,	1.5);	(414551.8,	3728025.8,	10.1,	10.1,	1.5);
(	414571.8,	3728025.8,	10.1,	10.1,	1.5);	(414591.8,	3728025.8,	10.2,	10.2,	1.5);
(	413771.8,	3728045.8,	11.4,	11.4,	1.5);	(413791.8,	3728045.8,	11.6,	11.6,	1.5);
(	413811.8,	3728045.8,	11.4,	11.4,	1.5);	(413831.8,	3728045.8,	11.1,	11.1,	1.5);
(	413851.8,	3728045.8,	11.0,	11.0,	1.5);	(413871.8,	3728045.8,	11.1,	11.1,	1.5);
(	413891.8,	3728045.8,	10.9,	10.9,	1.5);	(413911.8,	3728045.8,	10.5,	10.5,	1.5);
(	413931.8,	3728045.8,	10.6,	10.6,	1.5);	(413951.8,	3728045.8,	10.8,	10.8,	1.5);
(	413971.8,	3728045.8,	10.6,	10.6,	1.5);	(413991.8,	3728045.8,	10.5,	10.5,	1.5);
(	414011.8,	3728045.8,	10.5,	10.5,	1.5);	(414031.8,	3728045.8,	10.6,	10.6,	1.5);
(	414051.8,	3728045.8,	10.6,	10.6,	1.5);	(414071.8,	3728045.8,	10.2,	10.2,	1.5);
(	414091.8,	3728045.8,	10.7,	10.7,	1.5);	(414111.8,	3728045.8,	10.8,	10.8,	1.5);
(	414131.8,	3728045.8,	10.7,	10.7,	1.5);	(414151.8,	3728045.8,	10.9,	10.9,	1.5);
(	414171.8,	3728045.8,	10.9,	10.9,	1.5);	(414191.8,	3728045.8,	10.9,	10.9,	1.5);
(	414211.8,	3728045.8,	11.0,	11.0,	1.5);	(414231.8,	3728045.8,	11.0,	11.0,	1.5);
(	414251.8,	3728045.8,	11.1,	11.1,	1.5);	(414271.8,	3728045.8,	10.9,	10.9,	1.5);
(	414291.8,	3728045.8,	10.7,	10.7,	1.5);	(414311.8,	3728045.8,	10.5,	10.5,	1.5);
(	414331.8,	3728045.8,	10.3,	10.3,	1.5);	(414351.8,	3728045.8,	10.3,	10.3,	1.5);
(	414371.8,	3728045.8,	10.2,	10.2,	1.5);	(414391.8,	3728045.8,	10.1,	10.1,	1.5);
(	414411.8,	3728045.8,	10.1,	10.1,	1.5);	(414431.8,	3728045.8,	10.1,	10.1,	1.5);
(	414451.8,	3728045.8,	10.1,	10.1,	1.5);	(414471.8,	3728045.8,	10.1,	10.1,	1.5);
(	414491.8,	3728045.8,	10.0,	10.0,	1.5);	(414511.8,	3728045.8,	10.0,	10.0,	1.5);
(	414531.8,	3728045.8,	9.7,	9.7,	1.5);	(414551.8,	3728045.8,	9.9,	9.9,	1.5);
(	414571.8,	3728045.8,	10.0,	10.0,	1.5);	(413731.8,	3728065.8,	11.1,	11.1,	1.5);
(	413751.8,	3728065.8,	11.2,	11.2,	1.5);	(413771.8,	3728065.8,	11.2,	11.2,	1.5);
(	413791.8,	3728065.8,	11.1,	11.1,	1.5);	(413811.8,	3728065.8,	11.0,	11.0,	1.5);
(	413831.8,	3728065.8,	11.0,	11.0,	1.5);	(413851.8,	3728065.8,	11.0,	11.0,	1.5);
(	413871.8,	3728065.8,	11.0,	11.0,	1.5);	(413891.8,	3728065.8,	11.1,	11.1,	1.5);
(	413911.8,	3728065.8,	10.6,	10.6,	1.5);	(413931.8,	3728065.8,	10.7,	10.7,	1.5);
(	413951.8,	3728065.8,	11.0,	11.0,	1.5);	(413971.8,	3728065.8,	10.6,	10.6,	1.5);
(	413991.8,	3728065.8,	10.1,	10.1,	1.5);	(414011.8,	3728065.8,	10.4,	10.4,	1.5);
(	414031.8,	3728065.8,	10.7,	10.7,	1.5);	(414051.8,	3728065.8,	10.7,	10.7,	1.5);
(	414071.8,	3728065.8,	10.2,	10.2,	1.5);	(414091.8,	3728065.8,	10.6,	10.6,	1.5);
(	414111.8,	3728065.8,	10.6,	10.6,	1.5);	(414131.8,	3728065.8,	10.5,	10.5,	1.5);
(	414151.8,	3728065.8,	10.8,	10.8,	1.5);	(414171.8,	3728065.8,	10.8,	10.8,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	414191.8,	3728065.8,	10.8,	10.8,	1.5);	(414211.8,	3728065.8,	10.9,	10.9,	1.5);
(	414231.8,	3728065.8,	10.9,	10.9,	1.5);	(414251.8,	3728065.8,	10.9,	10.9,	1.5);
(	414271.8,	3728065.8,	10.8,	10.8,	1.5);	(414291.8,	3728065.8,	10.5,	10.5,	1.5);
(	414311.8,	3728065.8,	10.2,	10.2,	1.5);	(414331.8,	3728065.8,	10.2,	10.2,	1.5);
(	414351.8,	3728065.8,	10.2,	10.2,	1.5);	(414371.8,	3728065.8,	10.1,	10.1,	1.5);
(	414391.8,	3728065.8,	10.0,	10.0,	1.5);	(414411.8,	3728065.8,	10.0,	10.0,	1.5);
(	414431.8,	3728065.8,	10.0,	10.0,	1.5);	(414451.8,	3728065.8,	10.0,	10.0,	1.5);
(	414471.8,	3728065.8,	9.9,	9.9,	1.5);	(414491.8,	3728065.8,	9.8,	9.8,	1.5);
(	414511.8,	3728065.8,	9.7,	9.7,	1.5);	(414531.8,	3728065.8,	9.4,	9.4,	1.5);
(	414551.8,	3728065.8,	9.7,	9.7,	1.5);	(414571.8,	3728065.8,	9.9,	9.9,	1.5);
(	413691.8,	3728085.8,	10.7,	10.7,	1.5);	(413711.8,	3728085.8,	11.2,	11.2,	1.5);
(	413731.8,	3728085.8,	11.2,	11.2,	1.5);	(413751.8,	3728085.8,	11.0,	11.0,	1.5);
(	413771.8,	3728085.8,	10.8,	10.8,	1.5);	(413791.8,	3728085.8,	10.9,	10.9,	1.5);
(	413811.8,	3728085.8,	10.9,	10.9,	1.5);	(413831.8,	3728085.8,	10.6,	10.6,	1.5);
(	413851.8,	3728085.8,	10.5,	10.5,	1.5);	(413871.8,	3728085.8,	10.7,	10.7,	1.5);
(	413891.8,	3728085.8,	10.8,	10.8,	1.5);	(413911.8,	3728085.8,	10.3,	10.3,	1.5);
(	413931.8,	3728085.8,	10.5,	10.5,	1.5);	(413951.8,	3728085.8,	10.8,	10.8,	1.5);
(	413971.8,	3728085.8,	10.4,	10.4,	1.5);	(413991.8,	3728085.8,	9.9,	9.9,	1.5);
(	414011.8,	3728085.8,	10.2,	10.2,	1.5);	(414031.8,	3728085.8,	10.6,	10.6,	1.5);
(	414051.8,	3728085.8,	10.6,	10.6,	1.5);	(414071.8,	3728085.8,	10.1,	10.1,	1.5);
(	414091.8,	3728085.8,	10.5,	10.5,	1.5);	(414111.8,	3728085.8,	10.6,	10.6,	1.5);
(	414131.8,	3728085.8,	10.5,	10.5,	1.5);	(414151.8,	3728085.8,	10.6,	10.6,	1.5);
(	414171.8,	3728085.8,	10.4,	10.4,	1.5);	(414191.8,	3728085.8,	10.3,	10.3,	1.5);
(	414211.8,	3728085.8,	10.3,	10.3,	1.5);	(414231.8,	3728085.8,	10.3,	10.3,	1.5);
(	414251.8,	3728085.8,	10.5,	10.5,	1.5);	(414271.8,	3728085.8,	10.5,	10.5,	1.5);
(	414291.8,	3728085.8,	10.3,	10.3,	1.5);	(414311.8,	3728085.8,	10.0,	10.0,	1.5);
(	414331.8,	3728085.8,	10.0,	10.0,	1.5);	(414351.8,	3728085.8,	10.0,	10.0,	1.5);
(	414371.8,	3728085.8,	9.9,	9.9,	1.5);	(414391.8,	3728085.8,	9.9,	9.9,	1.5);
(	414411.8,	3728085.8,	9.8,	9.8,	1.5);	(414431.8,	3728085.8,	9.8,	9.8,	1.5);
(	414451.8,	3728085.8,	9.8,	9.8,	1.5);	(414471.8,	3728085.8,	9.8,	9.8,	1.5);
(	414491.8,	3728085.8,	9.6,	9.6,	1.5);	(414511.8,	3728085.8,	9.2,	9.2,	1.5);
(	414531.8,	3728085.8,	9.6,	9.6,	1.5);	(414551.8,	3728085.8,	9.8,	9.8,	1.5);
(	413631.8,	3728105.8,	10.6,	10.6,	1.5);	(413651.8,	3728105.8,	11.0,	11.0,	1.5);
(	413671.8,	3728105.8,	10.9,	10.9,	1.5);	(413691.8,	3728105.8,	10.5,	10.5,	1.5);
(	413711.8,	3728105.8,	11.2,	11.2,	1.5);	(413731.8,	3728105.8,	11.0,	11.0,	1.5);
(	413751.8,	3728105.8,	10.7,	10.7,	1.5);	(413771.8,	3728105.8,	10.5,	10.5,	1.5);
(	413791.8,	3728105.8,	10.8,	10.8,	1.5);	(413811.8,	3728105.8,	10.7,	10.7,	1.5);
(	413831.8,	3728105.8,	10.3,	10.3,	1.5);	(413851.8,	3728105.8,	10.2,	10.2,	1.5);
(	413871.8,	3728105.8,	10.6,	10.6,	1.5);	(413891.8,	3728105.8,	10.6,	10.6,	1.5);
(	413911.8,	3728105.8,	10.1,	10.1,	1.5);	(413931.8,	3728105.8,	10.3,	10.3,	1.5);
(	413951.8,	3728105.8,	10.6,	10.6,	1.5);	(413971.8,	3728105.8,	10.3,	10.3,	1.5);
(	413991.8,	3728105.8,	9.7,	9.7,	1.5);	(414011.8,	3728105.8,	10.0,	10.0,	1.5);
(	414031.8,	3728105.8,	10.4,	10.4,	1.5);	(414051.8,	3728105.8,	10.5,	10.5,	1.5);
(	414071.8,	3728105.8,	10.0,	10.0,	1.5);	(414091.8,	3728105.8,	10.4,	10.4,	1.5);
(	414111.8,	3728105.8,	10.5,	10.5,	1.5);	(414131.8,	3728105.8,	10.3,	10.3,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	414151.8,	3728105.8,	10.4,	10.4,	1.5);	(414171.8,	3728105.8,	10.1,	10.1,	1.5);
(	414191.8,	3728105.8,	10.0,	10.0,	1.5);	(414211.8,	3728105.8,	10.0,	10.0,	1.5);
(	414231.8,	3728105.8,	10.0,	10.0,	1.5);	(414251.8,	3728105.8,	10.2,	10.2,	1.5);
(	414271.8,	3728105.8,	10.1,	10.1,	1.5);	(414291.8,	3728105.8,	10.0,	10.0,	1.5);
(	414311.8,	3728105.8,	9.9,	9.9,	1.5);	(414331.8,	3728105.8,	9.9,	9.9,	1.5);
(	414351.8,	3728105.8,	9.8,	9.8,	1.5);	(414371.8,	3728105.8,	9.8,	9.8,	1.5);
(	414391.8,	3728105.8,	9.7,	9.7,	1.5);	(414411.8,	3728105.8,	9.7,	9.7,	1.5);
(	414431.8,	3728105.8,	9.7,	9.7,	1.5);	(414451.8,	3728105.8,	9.4,	9.4,	1.5);
(	414471.8,	3728105.8,	9.3,	9.3,	1.5);	(414491.8,	3728105.8,	9.3,	9.3,	1.5);
(	414511.8,	3728105.8,	9.4,	9.4,	1.5);	(414531.8,	3728105.8,	9.8,	9.8,	1.5);
(	414551.8,	3728105.8,	9.9,	9.9,	1.5);	(413591.8,	3728125.8,	10.3,	10.3,	1.5);
(	413611.8,	3728125.8,	10.2,	10.2,	1.5);	(413631.8,	3728125.8,	11.0,	11.0,	1.5);
(	413651.8,	3728125.8,	11.0,	11.0,	1.5);	(413671.8,	3728125.8,	10.6,	10.6,	1.5);
(	413691.8,	3728125.8,	10.2,	10.2,	1.5);	(413711.8,	3728125.8,	10.8,	10.8,	1.5);
(	413731.8,	3728125.8,	10.7,	10.7,	1.5);	(413751.8,	3728125.8,	10.3,	10.3,	1.5);
(	413771.8,	3728125.8,	10.1,	10.1,	1.5);	(413791.8,	3728125.8,	10.6,	10.6,	1.5);
(	413811.8,	3728125.8,	10.5,	10.5,	1.5);	(413831.8,	3728125.8,	10.0,	10.0,	1.5);
(	413851.8,	3728125.8,	10.0,	10.0,	1.5);	(413871.8,	3728125.8,	10.5,	10.5,	1.5);
(	413891.8,	3728125.8,	10.4,	10.4,	1.5);	(413911.8,	3728125.8,	10.0,	10.0,	1.5);
(	413931.8,	3728125.8,	10.1,	10.1,	1.5);	(413951.8,	3728125.8,	10.5,	10.5,	1.5);
(	413971.8,	3728125.8,	10.3,	10.3,	1.5);	(413991.8,	3728125.8,	9.6,	9.6,	1.5);
(	414011.8,	3728125.8,	9.8,	9.8,	1.5);	(414031.8,	3728125.8,	10.2,	10.2,	1.5);
(	414051.8,	3728125.8,	10.4,	10.4,	1.5);	(414071.8,	3728125.8,	9.8,	9.8,	1.5);
(	414091.8,	3728125.8,	10.3,	10.3,	1.5);	(414111.8,	3728125.8,	10.4,	10.4,	1.5);
(	414131.8,	3728125.8,	10.1,	10.1,	1.5);	(414151.8,	3728125.8,	10.1,	10.1,	1.5);
(	414171.8,	3728125.8,	10.0,	10.0,	1.5);	(414191.8,	3728125.8,	9.9,	9.9,	1.5);
(	414211.8,	3728125.8,	9.8,	9.8,	1.5);	(414231.8,	3728125.8,	9.8,	9.8,	1.5);
(	414251.8,	3728125.8,	9.8,	9.8,	1.5);	(414271.8,	3728125.8,	9.8,	9.8,	1.5);
(	414291.8,	3728125.8,	9.7,	9.7,	1.5);	(414311.8,	3728125.8,	9.8,	9.8,	1.5);
(	414331.8,	3728125.8,	9.7,	9.7,	1.5);	(414351.8,	3728125.8,	9.7,	9.7,	1.5);
(	414371.8,	3728125.8,	9.7,	9.7,	1.5);	(414391.8,	3728125.8,	9.6,	9.6,	1.5);
(	414411.8,	3728125.8,	9.5,	9.5,	1.5);	(414431.8,	3728125.8,	9.4,	9.4,	1.5);
(	414451.8,	3728125.8,	9.2,	9.2,	1.5);	(414471.8,	3728125.8,	9.1,	9.1,	1.5);
(	414491.8,	3728125.8,	9.2,	9.2,	1.5);	(414511.8,	3728125.8,	9.6,	9.6,	1.5);
(	413551.8,	3728145.8,	10.6,	10.6,	1.5);	(413571.8,	3728145.8,	10.3,	10.3,	1.5);
(	413591.8,	3728145.8,	10.2,	10.2,	1.5);	(413611.8,	3728145.8,	10.5,	10.5,	1.5);
(	413631.8,	3728145.8,	10.9,	10.9,	1.5);	(413651.8,	3728145.8,	10.7,	10.7,	1.5);
(	413671.8,	3728145.8,	10.3,	10.3,	1.5);	(413691.8,	3728145.8,	9.9,	9.9,	1.5);
(	413711.8,	3728145.8,	10.6,	10.6,	1.5);	(413731.8,	3728145.8,	10.5,	10.5,	1.5);
(	413751.8,	3728145.8,	10.1,	10.1,	1.5);	(413771.8,	3728145.8,	10.0,	10.0,	1.5);
(	413791.8,	3728145.8,	10.4,	10.4,	1.5);	(413811.8,	3728145.8,	10.3,	10.3,	1.5);
(	413831.8,	3728145.8,	9.9,	9.9,	1.5);	(413851.8,	3728145.8,	9.9,	9.9,	1.5);
(	413871.8,	3728145.8,	10.4,	10.4,	1.5);	(413891.8,	3728145.8,	10.3,	10.3,	1.5);
(	413911.8,	3728145.8,	9.8,	9.8,	1.5);	(413931.8,	3728145.8,	9.9,	9.9,	1.5);
(	413951.8,	3728145.8,	10.2,	10.2,	1.5);	(413971.8,	3728145.8,	10.1,	10.1,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	413991.8,	3728145.8,	9.5,	9.5,	1.5);	(	414011.8,	3728145.8,	9.7,	9.7,	1.5);
(	414031.8,	3728145.8,	10.1,	10.1,	1.5);	(	414051.8,	3728145.8,	10.2,	10.2,	1.5);
(	414071.8,	3728145.8,	9.6,	9.6,	1.5);	(	414091.8,	3728145.8,	10.1,	10.1,	1.5);
(	414111.8,	3728145.8,	10.1,	10.1,	1.5);	(	414131.8,	3728145.8,	9.8,	9.8,	1.5);
(	414151.8,	3728145.8,	9.8,	9.8,	1.5);	(	414171.8,	3728145.8,	9.8,	9.8,	1.5);
(	414191.8,	3728145.8,	9.7,	9.7,	1.5);	(	414211.8,	3728145.8,	9.7,	9.7,	1.5);
(	414231.8,	3728145.8,	9.7,	9.7,	1.5);	(	414251.8,	3728145.8,	9.6,	9.6,	1.5);
(	414271.8,	3728145.8,	9.6,	9.6,	1.5);	(	414291.8,	3728145.8,	9.5,	9.5,	1.5);
(	414311.8,	3728145.8,	9.5,	9.5,	1.5);	(	414331.8,	3728145.8,	9.5,	9.5,	1.5);
(	414351.8,	3728145.8,	9.7,	9.7,	1.5);	(	414371.8,	3728145.8,	9.7,	9.7,	1.5);
(	414391.8,	3728145.8,	9.4,	9.4,	1.5);	(	414411.8,	3728145.8,	8.9,	8.9,	1.5);
(	414431.8,	3728145.8,	9.0,	9.0,	1.5);	(	414451.8,	3728145.8,	9.3,	9.3,	1.5);
(	414471.8,	3728145.8,	9.5,	9.5,	1.5);	(	414491.8,	3728145.8,	9.5,	9.5,	1.5);
(	413491.8,	3728165.8,	10.6,	10.6,	1.5);	(	413511.8,	3728165.8,	10.6,	10.6,	1.5);
(	413531.8,	3728165.8,	10.4,	10.4,	1.5);	(	413551.8,	3728165.8,	10.2,	10.2,	1.5);
(	413571.8,	3728165.8,	10.1,	10.1,	1.5);	(	413591.8,	3728165.8,	10.2,	10.2,	1.5);
(	413611.8,	3728165.8,	10.6,	10.6,	1.5);	(	413631.8,	3728165.8,	10.7,	10.7,	1.5);
(	413651.8,	3728165.8,	10.4,	10.4,	1.5);	(	413671.8,	3728165.8,	10.0,	10.0,	1.5);
(	413691.8,	3728165.8,	9.7,	9.7,	1.5);	(	413711.8,	3728165.8,	10.4,	10.4,	1.5);
(	413731.8,	3728165.8,	10.3,	10.3,	1.5);	(	413751.8,	3728165.8,	10.0,	10.0,	1.5);
(	413771.8,	3728165.8,	9.9,	9.9,	1.5);	(	413791.8,	3728165.8,	10.2,	10.2,	1.5);
(	413811.8,	3728165.8,	10.1,	10.1,	1.5);	(	413831.8,	3728165.8,	9.8,	9.8,	1.5);
(	413851.8,	3728165.8,	9.7,	9.7,	1.5);	(	413871.8,	3728165.8,	10.0,	10.0,	1.5);
(	413891.8,	3728165.8,	10.0,	10.0,	1.5);	(	413911.8,	3728165.8,	9.6,	9.6,	1.5);
(	413931.8,	3728165.8,	9.7,	9.7,	1.5);	(	413951.8,	3728165.8,	10.1,	10.1,	1.5);
(	413971.8,	3728165.8,	10.0,	10.0,	1.5);	(	413991.8,	3728165.8,	9.3,	9.3,	1.5);
(	414011.8,	3728165.8,	9.5,	9.5,	1.5);	(	414031.8,	3728165.8,	9.9,	9.9,	1.5);
(	414051.8,	3728165.8,	10.0,	10.0,	1.5);	(	414071.8,	3728165.8,	9.5,	9.5,	1.5);
(	414091.8,	3728165.8,	9.9,	9.9,	1.5);	(	414111.8,	3728165.8,	9.9,	9.9,	1.5);
(	414131.8,	3728165.8,	9.6,	9.6,	1.5);	(	414151.8,	3728165.8,	9.6,	9.6,	1.5);
(	414171.8,	3728165.8,	9.6,	9.6,	1.5);	(	414191.8,	3728165.8,	9.6,	9.6,	1.5);
(	414211.8,	3728165.8,	9.5,	9.5,	1.5);	(	414231.8,	3728165.8,	9.5,	9.5,	1.5);
(	414251.8,	3728165.8,	9.4,	9.4,	1.5);	(	414271.8,	3728165.8,	9.4,	9.4,	1.5);
(	414291.8,	3728165.8,	9.4,	9.4,	1.5);	(	414311.8,	3728165.8,	9.5,	9.5,	1.5);
(	414331.8,	3728165.8,	9.6,	9.6,	1.5);	(	414351.8,	3728165.8,	9.3,	9.3,	1.5);
(	414371.8,	3728165.8,	9.3,	9.3,	1.5);	(	414391.8,	3728165.8,	9.3,	9.3,	1.5);
(	414411.8,	3728165.8,	9.1,	9.1,	1.5);	(	414431.8,	3728165.8,	9.3,	9.3,	1.5);
(	414451.8,	3728165.8,	9.4,	9.4,	1.5);	(	414471.8,	3728165.8,	9.5,	9.5,	1.5);
(	414731.8,	3728165.8,	11.9,	16.0,	1.5);	(	414751.8,	3728165.8,	11.2,	16.0,	1.5);
(	413451.8,	3728185.8,	10.4,	10.4,	1.5);	(	413471.8,	3728185.8,	10.4,	10.4,	1.5);
(	413491.8,	3728185.8,	10.6,	10.6,	1.5);	(	413511.8,	3728185.8,	10.6,	10.6,	1.5);
(	413531.8,	3728185.8,	9.9,	9.9,	1.5);	(	413551.8,	3728185.8,	9.8,	9.8,	1.5);
(	413571.8,	3728185.8,	10.2,	10.2,	1.5);	(	413591.8,	3728185.8,	10.5,	10.5,	1.5);
(	413611.8,	3728185.8,	10.2,	10.2,	1.5);	(	413631.8,	3728185.8,	10.2,	10.2,	1.5);
(	413651.8,	3728185.8,	10.1,	10.1,	1.5);	(	413671.8,	3728185.8,	9.8,	9.8,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(413691.8,	3728185.8,	9.5,	9.5,	1.5);	(413711.8,	3728185.8,	10.1,	10.1,	1.5);
(413731.8,	3728185.8,	10.3,	10.3,	1.5);	(413751.8,	3728185.8,	10.1,	10.1,	1.5);
(413771.8,	3728185.8,	9.7,	9.7,	1.5);	(413791.8,	3728185.8,	9.8,	9.8,	1.5);
(413811.8,	3728185.8,	9.6,	9.6,	1.5);	(413831.8,	3728185.8,	9.5,	9.5,	1.5);
(413851.8,	3728185.8,	9.5,	9.5,	1.5);	(413871.8,	3728185.8,	9.5,	9.5,	1.5);
(413891.8,	3728185.8,	9.5,	9.5,	1.5);	(413911.8,	3728185.8,	9.3,	9.3,	1.5);
(413931.8,	3728185.8,	9.5,	9.5,	1.5);	(413951.8,	3728185.8,	9.9,	9.9,	1.5);
(413971.8,	3728185.8,	9.8,	9.8,	1.5);	(413991.8,	3728185.8,	9.2,	9.2,	1.5);
(414011.8,	3728185.8,	9.4,	9.4,	1.5);	(414031.8,	3728185.8,	9.8,	9.8,	1.5);
(414051.8,	3728185.8,	9.9,	9.9,	1.5);	(414071.8,	3728185.8,	9.3,	9.3,	1.5);
(414091.8,	3728185.8,	9.6,	9.6,	1.5);	(414111.8,	3728185.8,	9.7,	9.7,	1.5);
(414131.8,	3728185.8,	9.5,	9.5,	1.5);	(414151.8,	3728185.8,	9.5,	9.5,	1.5);
(414171.8,	3728185.8,	9.5,	9.5,	1.5);	(414191.8,	3728185.8,	9.4,	9.4,	1.5);
(414211.8,	3728185.8,	9.4,	9.4,	1.5);	(414231.8,	3728185.8,	9.3,	9.3,	1.5);
(414251.8,	3728185.8,	9.3,	9.3,	1.5);	(414271.8,	3728185.8,	9.3,	9.3,	1.5);
(414291.8,	3728185.8,	9.4,	9.4,	1.5);	(414311.8,	3728185.8,	9.6,	9.6,	1.5);
(414331.8,	3728185.8,	9.7,	9.7,	1.5);	(414351.8,	3728185.8,	8.9,	8.9,	1.5);
(414371.8,	3728185.8,	9.0,	9.0,	1.5);	(414391.8,	3728185.8,	9.3,	9.3,	1.5);
(414411.8,	3728185.8,	9.6,	9.6,	1.5);	(414431.8,	3728185.8,	9.8,	9.8,	1.5);
(414451.8,	3728185.8,	9.5,	9.5,	1.5);	(414691.8,	3728185.8,	12.4,	13.2,	1.5);
(414711.8,	3728185.8,	10.1,	16.0,	1.5);	(414731.8,	3728185.8,	9.0,	16.0,	1.5);
(414751.8,	3728185.8,	8.8,	16.0,	1.5);	(413411.8,	3728205.8,	10.4,	10.4,	1.5);
(413431.8,	3728205.8,	10.1,	10.1,	1.5);	(413451.8,	3728205.8,	10.2,	10.2,	1.5);
(413471.8,	3728205.8,	10.3,	10.3,	1.5);	(413491.8,	3728205.8,	10.4,	10.4,	1.5);
(413511.8,	3728205.8,	10.2,	10.2,	1.5);	(413531.8,	3728205.8,	9.7,	9.7,	1.5);
(413551.8,	3728205.8,	10.0,	10.0,	1.5);	(413571.8,	3728205.8,	10.2,	10.2,	1.5);
(413591.8,	3728205.8,	10.3,	10.3,	1.5);	(413611.8,	3728205.8,	9.9,	9.9,	1.5);
(413631.8,	3728205.8,	9.9,	9.9,	1.5);	(413651.8,	3728205.8,	10.0,	10.0,	1.5);
(413671.8,	3728205.8,	9.8,	9.8,	1.5);	(413691.8,	3728205.8,	9.4,	9.4,	1.5);
(413711.8,	3728205.8,	9.8,	9.8,	1.5);	(413731.8,	3728205.8,	9.9,	9.9,	1.5);
(413751.8,	3728205.8,	9.9,	9.9,	1.5);	(413771.8,	3728205.8,	10.0,	10.0,	1.5);
(413791.8,	3728205.8,	10.0,	10.0,	1.5);	(413811.8,	3728205.8,	9.9,	9.9,	1.5);
(413831.8,	3728205.8,	9.9,	9.9,	1.5);	(413851.8,	3728205.8,	9.9,	9.9,	1.5);
(413871.8,	3728205.8,	9.9,	9.9,	1.5);	(413891.8,	3728205.8,	9.8,	9.8,	1.5);
(413911.8,	3728205.8,	9.2,	9.2,	1.5);	(413931.8,	3728205.8,	9.3,	9.3,	1.5);
(413951.8,	3728205.8,	9.7,	9.7,	1.5);	(413971.8,	3728205.8,	9.6,	9.6,	1.5);
(413991.8,	3728205.8,	9.0,	9.0,	1.5);	(414011.8,	3728205.8,	9.3,	9.3,	1.5);
(414031.8,	3728205.8,	9.6,	9.6,	1.5);	(414051.8,	3728205.8,	9.6,	9.6,	1.5);
(414071.8,	3728205.8,	9.1,	9.1,	1.5);	(414091.8,	3728205.8,	9.5,	9.5,	1.5);
(414111.8,	3728205.8,	9.6,	9.6,	1.5);	(414131.8,	3728205.8,	9.4,	9.4,	1.5);
(414151.8,	3728205.8,	9.3,	9.3,	1.5);	(414171.8,	3728205.8,	9.3,	9.3,	1.5);
(414191.8,	3728205.8,	9.3,	9.3,	1.5);	(414211.8,	3728205.8,	9.2,	9.2,	1.5);
(414231.8,	3728205.8,	9.2,	9.2,	1.5);	(414251.8,	3728205.8,	9.3,	9.3,	1.5);
(414271.8,	3728205.8,	9.4,	9.4,	1.5);	(414291.8,	3728205.8,	9.2,	9.2,	1.5);
(414311.8,	3728205.8,	9.0,	9.0,	1.5);	(414331.8,	3728205.8,	9.4,	9.4,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	414351.8,	3728205.8,	9.3,	9.3,	1.5);	(414371.8,	3728205.8,	9.4,	9.4,	1.5);
(	414391.8,	3728205.8,	9.5,	9.5,	1.5);	(414411.8,	3728205.8,	9.5,	9.5,	1.5);
(	414651.8,	3728205.8,	9.3,	9.3,	1.5);	(414671.8,	3728205.8,	9.7,	13.2,	1.5);
(	414691.8,	3728205.8,	9.6,	13.2,	1.5);	(414711.8,	3728205.8,	9.0,	16.0,	1.5);
(	414731.8,	3728205.8,	8.7,	16.0,	1.5);	(414751.8,	3728205.8,	8.7,	16.0,	1.5);
(	413351.8,	3728225.8,	9.5,	9.5,	1.5);	(413371.8,	3728225.8,	9.6,	9.6,	1.5);
(	413391.8,	3728225.8,	10.0,	10.0,	1.5);	(413411.8,	3728225.8,	10.2,	10.2,	1.5);
(	413431.8,	3728225.8,	10.0,	10.0,	1.5);	(413451.8,	3728225.8,	10.2,	10.2,	1.5);
(	413471.8,	3728225.8,	10.2,	10.2,	1.5);	(413491.8,	3728225.8,	10.1,	10.1,	1.5);
(	413511.8,	3728225.8,	9.8,	9.8,	1.5);	(413531.8,	3728225.8,	9.8,	9.8,	1.5);
(	413551.8,	3728225.8,	10.2,	10.2,	1.5);	(413571.8,	3728225.8,	10.2,	10.2,	1.5);
(	413591.8,	3728225.8,	10.0,	10.0,	1.5);	(413611.8,	3728225.8,	9.6,	9.6,	1.5);
(	413631.8,	3728225.8,	9.7,	9.7,	1.5);	(413651.8,	3728225.8,	9.9,	9.9,	1.5);
(	413671.8,	3728225.8,	9.7,	9.7,	1.5);	(413691.8,	3728225.8,	9.3,	9.3,	1.5);
(	413711.8,	3728225.8,	9.6,	9.6,	1.5);	(413731.8,	3728225.8,	9.7,	9.7,	1.5);
(	413751.8,	3728225.8,	9.9,	9.9,	1.5);	(413771.8,	3728225.8,	10.0,	10.0,	1.5);
(	413791.8,	3728225.8,	10.1,	10.1,	1.5);	(413811.8,	3728225.8,	10.1,	10.1,	1.5);
(	413831.8,	3728225.8,	10.0,	10.0,	1.5);	(413851.8,	3728225.8,	10.0,	10.0,	1.5);
(	413871.8,	3728225.8,	10.0,	10.0,	1.5);	(413891.8,	3728225.8,	9.8,	9.8,	1.5);
(	413911.8,	3728225.8,	9.1,	9.1,	1.5);	(413931.8,	3728225.8,	9.1,	9.1,	1.5);
(	413951.8,	3728225.8,	9.5,	9.5,	1.5);	(413971.8,	3728225.8,	9.4,	9.4,	1.5);
(	413991.8,	3728225.8,	8.9,	8.9,	1.5);	(414011.8,	3728225.8,	9.1,	9.1,	1.5);
(	414031.8,	3728225.8,	9.5,	9.5,	1.5);	(414051.8,	3728225.8,	9.4,	9.4,	1.5);
(	414071.8,	3728225.8,	8.9,	8.9,	1.5);	(414091.8,	3728225.8,	9.3,	9.3,	1.5);
(	414111.8,	3728225.8,	9.5,	9.5,	1.5);	(414131.8,	3728225.8,	9.4,	9.4,	1.5);
(	414151.8,	3728225.8,	9.3,	9.3,	1.5);	(414171.8,	3728225.8,	9.2,	9.2,	1.5);
(	414191.8,	3728225.8,	9.3,	9.3,	1.5);	(414211.8,	3728225.8,	9.3,	9.3,	1.5);
(	414231.8,	3728225.8,	9.1,	9.1,	1.5);	(414251.8,	3728225.8,	9.0,	9.0,	1.5);
(	414271.8,	3728225.8,	9.3,	9.3,	1.5);	(414291.8,	3728225.8,	9.2,	9.2,	1.5);
(	414311.8,	3728225.8,	9.0,	9.0,	1.5);	(414331.8,	3728225.8,	9.3,	9.3,	1.5);
(	414351.8,	3728225.8,	9.4,	9.4,	1.5);	(414371.8,	3728225.8,	9.5,	9.5,	1.5);
(	414391.8,	3728225.8,	9.6,	9.6,	1.5);	(414611.8,	3728225.8,	8.8,	8.8,	1.5);
(	414631.8,	3728225.8,	8.8,	8.8,	1.5);	(414651.8,	3728225.8,	8.9,	8.9,	1.5);
(	414671.8,	3728225.8,	9.0,	9.0,	1.5);	(414691.8,	3728225.8,	8.9,	8.9,	1.5);
(	414711.8,	3728225.8,	8.6,	8.6,	1.5);	(414731.8,	3728225.8,	8.5,	8.5,	1.5);
(	414751.8,	3728225.8,	8.7,	8.7,	1.5);	(413311.8,	3728245.8,	8.9,	8.9,	1.5);
(	413331.8,	3728245.8,	9.2,	9.2,	1.5);	(413351.8,	3728245.8,	9.1,	9.1,	1.5);
(	413371.8,	3728245.8,	9.4,	9.4,	1.5);	(413391.8,	3728245.8,	9.9,	9.9,	1.5);
(	413411.8,	3728245.8,	10.2,	10.2,	1.5);	(413431.8,	3728245.8,	10.1,	10.1,	1.5);
(	413451.8,	3728245.8,	10.1,	10.1,	1.5);	(413471.8,	3728245.8,	9.9,	9.9,	1.5);
(	413491.8,	3728245.8,	9.7,	9.7,	1.5);	(413511.8,	3728245.8,	9.6,	9.6,	1.5);
(	413531.8,	3728245.8,	10.1,	10.1,	1.5);	(413551.8,	3728245.8,	10.2,	10.2,	1.5);
(	413571.8,	3728245.8,	10.1,	10.1,	1.5);	(413591.8,	3728245.8,	9.9,	9.9,	1.5);
(	413611.8,	3728245.8,	9.4,	9.4,	1.5);	(413631.8,	3728245.8,	9.9,	9.9,	1.5);
(	413651.8,	3728245.8,	9.9,	9.9,	1.5);	(413671.8,	3728245.8,	9.6,	9.6,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(413691.8,	3728245.8,	9.3,	9.3,	1.5);	(413711.8,	3728245.8,	10.0,	10.0,	1.5);
(413731.8,	3728245.8,	10.2,	10.2,	1.5);	(413751.8,	3728245.8,	9.9,	9.9,	1.5);
(413771.8,	3728245.8,	9.5,	9.5,	1.5);	(413791.8,	3728245.8,	9.5,	9.5,	1.5);
(413811.8,	3728245.8,	9.5,	9.5,	1.5);	(413831.8,	3728245.8,	9.5,	9.5,	1.5);
(413851.8,	3728245.8,	9.4,	9.4,	1.5);	(413871.8,	3728245.8,	9.3,	9.3,	1.5);
(413891.8,	3728245.8,	9.2,	9.2,	1.5);	(413911.8,	3728245.8,	8.8,	8.8,	1.5);
(413931.8,	3728245.8,	8.9,	8.9,	1.5);	(413951.8,	3728245.8,	9.2,	9.2,	1.5);
(413971.8,	3728245.8,	9.2,	9.2,	1.5);	(413991.8,	3728245.8,	8.7,	8.7,	1.5);
(414011.8,	3728245.8,	8.9,	8.9,	1.5);	(414031.8,	3728245.8,	9.2,	9.2,	1.5);
(414051.8,	3728245.8,	9.3,	9.3,	1.5);	(414071.8,	3728245.8,	8.8,	8.8,	1.5);
(414091.8,	3728245.8,	9.2,	9.2,	1.5);	(414111.8,	3728245.8,	9.6,	9.6,	1.5);
(414131.8,	3728245.8,	9.6,	9.6,	1.5);	(414151.8,	3728245.8,	9.4,	9.4,	1.5);
(414171.8,	3728245.8,	9.2,	9.2,	1.5);	(414191.8,	3728245.8,	9.3,	9.3,	1.5);
(414211.8,	3728245.8,	9.4,	9.4,	1.5);	(414231.8,	3728245.8,	9.2,	9.2,	1.5);
(414251.8,	3728245.8,	8.6,	8.6,	1.5);	(414271.8,	3728245.8,	9.0,	9.0,	1.5);
(414291.8,	3728245.8,	9.3,	9.3,	1.5);	(414311.8,	3728245.8,	9.4,	9.4,	1.5);
(414331.8,	3728245.8,	9.4,	9.4,	1.5);	(414351.8,	3728245.8,	9.4,	9.4,	1.5);
(414571.8,	3728245.8,	8.6,	8.6,	1.5);	(414591.8,	3728245.8,	8.9,	8.9,	1.5);
(414611.8,	3728245.8,	8.7,	8.7,	1.5);	(414631.8,	3728245.8,	8.9,	8.9,	1.5);
(414651.8,	3728245.8,	9.0,	9.0,	1.5);	(414671.8,	3728245.8,	8.8,	8.8,	1.5);
(414691.8,	3728245.8,	8.8,	8.8,	1.5);	(414711.8,	3728245.8,	8.5,	8.5,	1.5);
(414731.8,	3728245.8,	8.5,	8.5,	1.5);	(414751.8,	3728245.8,	8.7,	8.7,	1.5);
(413271.8,	3728265.8,	8.1,	8.1,	1.5);	(413291.8,	3728265.8,	8.5,	8.5,	1.5);
(413311.8,	3728265.8,	8.8,	8.8,	1.5);	(413331.8,	3728265.8,	9.0,	9.0,	1.5);
(413351.8,	3728265.8,	8.9,	8.9,	1.5);	(413371.8,	3728265.8,	9.3,	9.3,	1.5);
(413391.8,	3728265.8,	9.8,	9.8,	1.5);	(413411.8,	3728265.8,	10.1,	10.1,	1.5);
(413431.8,	3728265.8,	10.0,	10.0,	1.5);	(413451.8,	3728265.8,	9.9,	9.9,	1.5);
(413471.8,	3728265.8,	9.6,	9.6,	1.5);	(413491.8,	3728265.8,	9.5,	9.5,	1.5);
(413511.8,	3728265.8,	9.6,	9.6,	1.5);	(413531.8,	3728265.8,	10.0,	10.0,	1.5);
(413551.8,	3728265.8,	10.0,	10.0,	1.5);	(413571.8,	3728265.8,	9.8,	9.8,	1.5);
(413591.8,	3728265.8,	9.7,	9.7,	1.5);	(413611.8,	3728265.8,	9.7,	9.7,	1.5);
(413631.8,	3728265.8,	9.9,	9.9,	1.5);	(413651.8,	3728265.8,	9.9,	9.9,	1.5);
(413671.8,	3728265.8,	9.5,	9.5,	1.5);	(413691.8,	3728265.8,	9.2,	9.2,	1.5);
(413711.8,	3728265.8,	9.7,	9.7,	1.5);	(413731.8,	3728265.8,	9.8,	9.8,	1.5);
(413751.8,	3728265.8,	9.5,	9.5,	1.5);	(413771.8,	3728265.8,	9.1,	9.1,	1.5);
(413791.8,	3728265.8,	9.1,	9.1,	1.5);	(413811.8,	3728265.8,	9.1,	9.1,	1.5);
(413831.8,	3728265.8,	9.1,	9.1,	1.5);	(413851.8,	3728265.8,	9.1,	9.1,	1.5);
(413871.8,	3728265.8,	9.1,	9.1,	1.5);	(413891.8,	3728265.8,	9.1,	9.1,	1.5);
(413911.8,	3728265.8,	8.9,	8.9,	1.5);	(413931.8,	3728265.8,	8.9,	8.9,	1.5);
(413951.8,	3728265.8,	9.0,	9.0,	1.5);	(413971.8,	3728265.8,	9.0,	9.0,	1.5);
(413991.8,	3728265.8,	8.8,	8.8,	1.5);	(414011.8,	3728265.8,	8.9,	8.9,	1.5);
(414031.8,	3728265.8,	9.0,	9.0,	1.5);	(414051.8,	3728265.8,	9.0,	9.0,	1.5);
(414071.8,	3728265.8,	8.8,	8.8,	1.5);	(414091.8,	3728265.8,	9.1,	9.1,	1.5);
(414111.8,	3728265.8,	9.3,	9.3,	1.5);	(414131.8,	3728265.8,	9.2,	9.2,	1.5);
(414151.8,	3728265.8,	9.1,	9.1,	1.5);	(414171.8,	3728265.8,	8.9,	8.9,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	414191.8,	3728265.8,	9.1,	9.1,	1.5);	(414211.8,	3728265.8,	9.3,	9.3,	1.5);
(	414231.8,	3728265.8,	9.3,	9.3,	1.5);	(414251.8,	3728265.8,	9.0,	9.0,	1.5);
(	414271.8,	3728265.8,	9.2,	9.2,	1.5);	(414291.8,	3728265.8,	9.4,	9.4,	1.5);
(	414311.8,	3728265.8,	9.6,	9.6,	1.5);	(414531.8,	3728265.8,	8.9,	8.9,	1.5);
(	414551.8,	3728265.8,	8.9,	8.9,	1.5);	(414571.8,	3728265.8,	8.9,	8.9,	1.5);
(	414591.8,	3728265.8,	8.9,	8.9,	1.5);	(414611.8,	3728265.8,	8.6,	8.6,	1.5);
(	414631.8,	3728265.8,	8.6,	8.6,	1.5);	(414651.8,	3728265.8,	8.8,	8.8,	1.5);
(	414671.8,	3728265.8,	8.8,	8.8,	1.5);	(414691.8,	3728265.8,	8.8,	8.8,	1.5);
(	414711.8,	3728265.8,	8.7,	8.7,	1.5);	(414731.8,	3728265.8,	8.6,	8.6,	1.5);
(	414751.8,	3728265.8,	8.7,	8.7,	1.5);	(413211.8,	3728285.8,	7.6,	13.1,	1.5);
(	413231.8,	3728285.8,	7.3,	13.1,	1.5);	(413251.8,	3728285.8,	5.2,	13.1,	1.5);
(	413271.8,	3728285.8,	8.0,	8.8,	1.5);	(413291.8,	3728285.8,	8.7,	8.7,	1.5);
(	413311.8,	3728285.8,	8.7,	8.7,	1.5);	(413331.8,	3728285.8,	8.6,	8.6,	1.5);
(	413351.8,	3728285.8,	8.7,	8.7,	1.5);	(413371.8,	3728285.8,	9.3,	9.3,	1.5);
(	413391.8,	3728285.8,	9.7,	9.7,	1.5);	(413411.8,	3728285.8,	9.8,	9.8,	1.5);
(	413431.8,	3728285.8,	9.7,	9.7,	1.5);	(413451.8,	3728285.8,	9.6,	9.6,	1.5);
(	413471.8,	3728285.8,	9.4,	9.4,	1.5);	(413491.8,	3728285.8,	9.4,	9.4,	1.5);
(	413511.8,	3728285.8,	9.6,	9.6,	1.5);	(413531.8,	3728285.8,	9.7,	9.7,	1.5);
(	413551.8,	3728285.8,	9.7,	9.7,	1.5);	(413571.8,	3728285.8,	9.6,	9.6,	1.5);
(	413591.8,	3728285.8,	9.5,	9.5,	1.5);	(413611.8,	3728285.8,	10.0,	10.0,	1.5);
(	413631.8,	3728285.8,	9.8,	9.8,	1.5);	(413651.8,	3728285.8,	9.7,	9.7,	1.5);
(	413671.8,	3728285.8,	9.5,	9.5,	1.5);	(413691.8,	3728285.8,	9.1,	9.1,	1.5);
(	413711.8,	3728285.8,	9.4,	9.4,	1.5);	(413731.8,	3728285.8,	9.3,	9.3,	1.5);
(	413751.8,	3728285.8,	9.1,	9.1,	1.5);	(413771.8,	3728285.8,	8.9,	8.9,	1.5);
(	413791.8,	3728285.8,	8.9,	8.9,	1.5);	(413811.8,	3728285.8,	8.9,	8.9,	1.5);
(	413831.8,	3728285.8,	8.9,	8.9,	1.5);	(413851.8,	3728285.8,	8.9,	8.9,	1.5);
(	413871.8,	3728285.8,	8.8,	8.8,	1.5);	(413891.8,	3728285.8,	8.8,	8.8,	1.5);
(	413911.8,	3728285.8,	8.7,	8.7,	1.5);	(413931.8,	3728285.8,	8.7,	8.7,	1.5);
(	413951.8,	3728285.8,	8.7,	8.7,	1.5);	(413971.8,	3728285.8,	8.6,	8.6,	1.5);
(	413991.8,	3728285.8,	8.7,	8.7,	1.5);	(414011.8,	3728285.8,	8.7,	8.7,	1.5);
(	414031.8,	3728285.8,	8.6,	8.6,	1.5);	(414051.8,	3728285.8,	8.6,	8.6,	1.5);
(	414071.8,	3728285.8,	8.6,	8.6,	1.5);	(414091.8,	3728285.8,	8.9,	8.9,	1.5);
(	414111.8,	3728285.8,	9.0,	9.0,	1.5);	(414131.8,	3728285.8,	8.9,	8.9,	1.5);
(	414151.8,	3728285.8,	8.8,	8.8,	1.5);	(414171.8,	3728285.8,	8.7,	8.7,	1.5);
(	414191.8,	3728285.8,	8.8,	8.8,	1.5);	(414211.8,	3728285.8,	9.0,	9.0,	1.5);
(	414231.8,	3728285.8,	9.1,	9.1,	1.5);	(414251.8,	3728285.8,	9.4,	9.4,	1.5);
(	414271.8,	3728285.8,	9.5,	9.5,	1.5);	(414491.8,	3728285.8,	8.4,	8.4,	1.5);
(	414511.8,	3728285.8,	8.7,	8.7,	1.5);	(414531.8,	3728285.8,	8.7,	8.7,	1.5);
(	414551.8,	3728285.8,	8.8,	8.8,	1.5);	(414571.8,	3728285.8,	8.8,	8.8,	1.5);
(	414591.8,	3728285.8,	8.7,	8.7,	1.5);	(414611.8,	3728285.8,	8.6,	8.6,	1.5);
(	414631.8,	3728285.8,	8.6,	8.6,	1.5);	(414651.8,	3728285.8,	8.6,	8.6,	1.5);
(	414671.8,	3728285.8,	8.6,	8.6,	1.5);	(414691.8,	3728285.8,	8.6,	8.6,	1.5);
(	414711.8,	3728285.8,	8.5,	8.5,	1.5);	(414731.8,	3728285.8,	8.5,	8.5,	1.5);
(	414751.8,	3728285.8,	8.6,	8.6,	1.5);	(413231.8,	3728305.8,	7.7,	7.7,	1.5);
(	413251.8,	3728305.8,	7.3,	8.5,	1.5);	(413271.8,	3728305.8,	5.5,	9.1,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(413291.8,	3728305.8,	7.2,	9.1,	1.5);	(413311.8,	3728305.8,	9.0,	9.0,	1.5);
(413331.8,	3728305.8,	9.1,	9.1,	1.5);	(413351.8,	3728305.8,	9.2,	9.2,	1.5);
(413371.8,	3728305.8,	9.2,	9.2,	1.5);	(413391.8,	3728305.8,	9.3,	9.3,	1.5);
(413411.8,	3728305.8,	9.3,	9.3,	1.5);	(413431.8,	3728305.8,	9.2,	9.2,	1.5);
(413451.8,	3728305.8,	9.2,	9.2,	1.5);	(413471.8,	3728305.8,	9.1,	9.1,	1.5);
(413491.8,	3728305.8,	9.0,	9.0,	1.5);	(413511.8,	3728305.8,	9.1,	9.1,	1.5);
(413531.8,	3728305.8,	9.2,	9.2,	1.5);	(413551.8,	3728305.8,	9.3,	9.3,	1.5);
(413571.8,	3728305.8,	9.3,	9.3,	1.5);	(413591.8,	3728305.8,	9.3,	9.3,	1.5);
(413611.8,	3728305.8,	9.4,	9.4,	1.5);	(413631.8,	3728305.8,	9.3,	9.3,	1.5);
(413651.8,	3728305.8,	9.2,	9.2,	1.5);	(413671.8,	3728305.8,	9.1,	9.1,	1.5);
(413691.8,	3728305.8,	9.0,	9.0,	1.5);	(413711.8,	3728305.8,	9.0,	9.0,	1.5);
(413731.8,	3728305.8,	9.2,	9.2,	1.5);	(413751.8,	3728305.8,	9.4,	9.4,	1.5);
(413771.8,	3728305.8,	9.4,	9.4,	1.5);	(413791.8,	3728305.8,	9.4,	9.4,	1.5);
(413811.8,	3728305.8,	9.4,	9.4,	1.5);	(413831.8,	3728305.8,	9.0,	9.0,	1.5);
(413851.8,	3728305.8,	8.5,	8.5,	1.5);	(413871.8,	3728305.8,	7.9,	7.9,	1.5);
(413891.8,	3728305.8,	7.9,	7.9,	1.5);	(413911.8,	3728305.8,	7.9,	7.9,	1.5);
(413931.8,	3728305.8,	8.0,	8.0,	1.5);	(413951.8,	3728305.8,	8.1,	8.1,	1.5);
(413971.8,	3728305.8,	8.0,	8.0,	1.5);	(413991.8,	3728305.8,	8.0,	8.0,	1.5);
(414011.8,	3728305.8,	8.0,	8.0,	1.5);	(414031.8,	3728305.8,	7.9,	7.9,	1.5);
(414051.8,	3728305.8,	7.8,	7.8,	1.5);	(414071.8,	3728305.8,	8.1,	8.1,	1.5);
(414091.8,	3728305.8,	8.5,	8.5,	1.5);	(414111.8,	3728305.8,	8.7,	8.7,	1.5);
(414131.8,	3728305.8,	8.8,	8.8,	1.5);	(414151.8,	3728305.8,	8.6,	8.6,	1.5);
(414171.8,	3728305.8,	8.7,	8.7,	1.5);	(414191.8,	3728305.8,	8.6,	8.6,	1.5);
(414211.8,	3728305.8,	8.6,	8.6,	1.5);	(414231.8,	3728305.8,	8.7,	8.7,	1.5);
(413231.8,	3728325.8,	8.0,	13.4,	1.5);	(413251.8,	3728325.8,	8.4,	8.4,	1.5);
(413271.8,	3728325.8,	5.6,	13.4,	1.5);	(413291.8,	3728325.8,	6.8,	9.1,	1.5);
(413311.8,	3728325.8,	8.1,	8.1,	1.5);	(413331.8,	3728325.8,	7.6,	9.4,	1.5);
(413351.8,	3728325.8,	9.1,	9.1,	1.5);	(413371.8,	3728325.8,	9.3,	9.3,	1.5);
(413391.8,	3728325.8,	9.3,	9.3,	1.5);	(413411.8,	3728325.8,	9.3,	9.3,	1.5);
(413431.8,	3728325.8,	9.2,	9.2,	1.5);	(413451.8,	3728325.8,	9.2,	9.2,	1.5);
(413471.8,	3728325.8,	9.0,	9.0,	1.5);	(413491.8,	3728325.8,	9.0,	9.0,	1.5);
(413511.8,	3728325.8,	9.2,	9.2,	1.5);	(413531.8,	3728325.8,	9.4,	9.4,	1.5);
(413551.8,	3728325.8,	9.4,	9.4,	1.5);	(413571.8,	3728325.8,	9.5,	9.5,	1.5);
(413591.8,	3728325.8,	9.5,	9.5,	1.5);	(413611.8,	3728325.8,	9.5,	9.5,	1.5);
(413631.8,	3728325.8,	9.4,	9.4,	1.5);	(413651.8,	3728325.8,	9.4,	9.4,	1.5);
(413671.8,	3728325.8,	9.3,	9.3,	1.5);	(413691.8,	3728325.8,	9.3,	9.3,	1.5);
(413711.8,	3728325.8,	9.2,	9.2,	1.5);	(413731.8,	3728325.8,	8.7,	8.7,	1.5);
(413751.8,	3728325.8,	7.8,	7.8,	1.5);	(413771.8,	3728325.8,	7.2,	9.5,	1.5);
(413791.8,	3728325.8,	8.4,	8.4,	1.5);	(413811.8,	3728325.8,	8.9,	8.9,	1.5);
(413831.8,	3728325.8,	8.8,	8.8,	1.5);	(413851.8,	3728325.8,	8.5,	8.5,	1.5);
(413871.8,	3728325.8,	8.2,	8.2,	1.5);	(413891.8,	3728325.8,	8.2,	8.2,	1.5);
(413911.8,	3728325.8,	8.2,	8.2,	1.5);	(413931.8,	3728325.8,	8.3,	8.3,	1.5);
(413951.8,	3728325.8,	8.4,	8.4,	1.5);	(413971.8,	3728325.8,	8.4,	8.4,	1.5);
(413991.8,	3728325.8,	8.5,	8.5,	1.5);	(414011.8,	3728325.8,	8.5,	8.5,	1.5);
(414031.8,	3728325.8,	8.5,	8.5,	1.5);	(414051.8,	3728325.8,	8.5,	8.5,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	414071.8,	3728325.8,	8.7,	8.7,	1.5);	(414091.8,	3728325.8,	8.8,	8.8,	1.5);
(	414111.8,	3728325.8,	8.9,	8.9,	1.5);	(414131.8,	3728325.8,	8.9,	8.9,	1.5);
(	414151.8,	3728325.8,	9.0,	9.0,	1.5);	(414171.8,	3728325.8,	9.1,	9.1,	1.5);
(	414191.8,	3728325.8,	9.3,	9.3,	1.5);	(413251.8,	3728345.8,	8.4,	13.4,	1.5);
(	413271.8,	3728345.8,	8.2,	8.2,	1.5);	(413291.8,	3728345.8,	7.7,	7.7,	1.5);
(	413311.8,	3728345.8,	6.0,	7.2,	1.5);	(413331.8,	3728345.8,	3.9,	9.6,	1.5);
(	413351.8,	3728345.8,	8.4,	9.2,	1.5);	(413371.8,	3728345.8,	9.5,	9.5,	1.5);
(	413391.8,	3728345.8,	9.6,	9.6,	1.5);	(413411.8,	3728345.8,	9.7,	9.7,	1.5);
(	413431.8,	3728345.8,	9.5,	9.5,	1.5);	(413451.8,	3728345.8,	9.5,	9.5,	1.5);
(	413471.8,	3728345.8,	9.1,	9.1,	1.5);	(413491.8,	3728345.8,	9.0,	9.0,	1.5);
(	413511.8,	3728345.8,	9.5,	9.5,	1.5);	(413531.8,	3728345.8,	9.6,	9.6,	1.5);
(	413551.8,	3728345.8,	9.7,	9.7,	1.5);	(413571.8,	3728345.8,	9.7,	9.7,	1.5);
(	413591.8,	3728345.8,	9.6,	9.6,	1.5);	(413611.8,	3728345.8,	9.5,	9.9,	1.5);
(	413631.8,	3728345.8,	9.4,	9.4,	1.5);	(413651.8,	3728345.8,	9.4,	9.4,	1.5);
(	413671.8,	3728345.8,	9.4,	9.4,	1.5);	(413691.8,	3728345.8,	9.5,	9.5,	1.5);
(	413711.8,	3728345.8,	9.5,	9.5,	1.5);	(413731.8,	3728345.8,	8.2,	8.2,	1.5);
(	413751.8,	3728345.8,	6.2,	6.2,	1.5);	(413771.8,	3728345.8,	5.0,	9.5,	1.5);
(	413791.8,	3728345.8,	7.3,	7.3,	1.5);	(413811.8,	3728345.8,	8.2,	8.2,	1.5);
(	413831.8,	3728345.8,	8.5,	8.5,	1.5);	(413851.8,	3728345.8,	8.6,	8.6,	1.5);
(	413871.8,	3728345.8,	8.7,	8.7,	1.5);	(413891.8,	3728345.8,	8.6,	8.6,	1.5);
(	413911.8,	3728345.8,	8.6,	8.6,	1.5);	(413931.8,	3728345.8,	8.6,	8.6,	1.5);
(	413951.8,	3728345.8,	8.7,	8.7,	1.5);	(413971.8,	3728345.8,	8.8,	8.8,	1.5);
(	413991.8,	3728345.8,	8.9,	8.9,	1.5);	(414011.8,	3728345.8,	8.9,	8.9,	1.5);
(	414031.8,	3728345.8,	8.9,	8.9,	1.5);	(414051.8,	3728345.8,	9.1,	9.1,	1.5);
(	414071.8,	3728345.8,	9.1,	9.1,	1.5);	(414091.8,	3728345.8,	9.1,	9.1,	1.5);
(	414111.8,	3728345.8,	9.1,	9.1,	1.5);	(414131.8,	3728345.8,	9.2,	9.2,	1.5);
(	414151.8,	3728345.8,	9.5,	9.5,	1.5);	(413251.8,	3728365.8,	8.7,	13.4,	1.5);
(	413271.8,	3728365.8,	8.4,	13.4,	1.5);	(413291.8,	3728365.8,	7.9,	7.9,	1.5);
(	413311.8,	3728365.8,	7.3,	7.3,	1.5);	(413331.8,	3728365.8,	6.9,	8.8,	1.5);
(	413351.8,	3728365.8,	8.7,	8.7,	1.5);	(413371.8,	3728365.8,	8.2,	8.2,	1.5);
(	413391.8,	3728365.8,	7.0,	9.7,	1.5);	(413411.8,	3728365.8,	5.7,	9.7,	1.5);
(	413431.8,	3728365.8,	5.5,	9.7,	1.5);	(413451.8,	3728365.8,	5.5,	9.6,	1.5);
(	413471.8,	3728365.8,	7.1,	7.1,	1.5);	(413491.8,	3728365.8,	7.7,	7.7,	1.5);
(	413511.8,	3728365.8,	5.5,	9.9,	1.5);	(413531.8,	3728365.8,	5.6,	10.0,	1.5);
(	413551.8,	3728365.8,	5.5,	10.0,	1.5);	(413571.8,	3728365.8,	5.5,	10.0,	1.5);
(	413591.8,	3728365.8,	5.5,	10.0,	1.5);	(413611.8,	3728365.8,	5.6,	10.0,	1.5);
(	413631.8,	3728365.8,	5.6,	9.9,	1.5);	(413651.8,	3728365.8,	5.9,	9.8,	1.5);
(	413671.8,	3728365.8,	6.7,	9.7,	1.5);	(413691.8,	3728365.8,	7.8,	7.8,	1.5);
(	413711.8,	3728365.8,	8.8,	8.8,	1.5);	(413731.8,	3728365.8,	8.7,	8.7,	1.5);
(	413751.8,	3728365.8,	8.1,	8.1,	1.5);	(413771.8,	3728365.8,	7.7,	8.8,	1.5);
(	413791.8,	3728365.8,	8.4,	8.4,	1.5);	(413811.8,	3728365.8,	8.4,	8.4,	1.5);
(	413831.8,	3728365.8,	8.2,	8.2,	1.5);	(413851.8,	3728365.8,	8.0,	8.0,	1.5);
(	413871.8,	3728365.8,	8.1,	8.1,	1.5);	(413891.8,	3728365.8,	8.1,	8.1,	1.5);
(	413911.8,	3728365.8,	8.1,	8.1,	1.5);	(413931.8,	3728365.8,	8.1,	8.1,	1.5);
(	413951.8,	3728365.8,	8.2,	8.2,	1.5);	(413971.8,	3728365.8,	8.3,	8.3,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(413991.8, 3728365.8,	8.3,	8.3,	1.5);	(414011.8, 3728365.8,	8.4,	8.4,	1.5);
(414031.8, 3728365.8,	8.5,	8.5,	1.5);	(414051.8, 3728365.8,	8.6,	8.6,	1.5);
(414071.8, 3728365.8,	8.7,	8.7,	1.5);	(414091.8, 3728365.8,	8.7,	8.7,	1.5);
(414111.8, 3728365.8,	9.2,	9.2,	1.5);	(414351.8, 3728365.8,	8.6,	8.6,	1.5);
(414371.8, 3728365.8,	8.6,	8.6,	1.5);	(414391.8, 3728365.8,	8.6,	8.6,	1.5);
(414411.8, 3728365.8,	8.8,	8.8,	1.5);	(414431.8, 3728365.8,	8.7,	8.7,	1.5);
(414451.8, 3728365.8,	8.8,	8.8,	1.5);	(414471.8, 3728365.8,	8.9,	8.9,	1.5);
(414491.8, 3728365.8,	8.8,	8.8,	1.5);	(414511.8, 3728365.8,	8.7,	8.7,	1.5);
(414531.8, 3728365.8,	8.6,	8.6,	1.5);	(414551.8, 3728365.8,	8.5,	8.5,	1.5);
(414571.8, 3728365.8,	8.5,	8.5,	1.5);	(414591.8, 3728365.8,	8.5,	8.5,	1.5);
(414611.8, 3728365.8,	8.6,	8.6,	1.5);	(414631.8, 3728365.8,	8.8,	8.8,	1.5);
(414651.8, 3728365.8,	8.9,	8.9,	1.5);	(414671.8, 3728365.8,	8.9,	8.9,	1.5);
(414691.8, 3728365.8,	8.9,	8.9,	1.5);	(414711.8, 3728365.8,	9.0,	9.0,	1.5);
(414731.8, 3728365.8,	9.1,	9.1,	1.5);	(414751.8, 3728365.8,	9.1,	9.1,	1.5);
(413271.8, 3728385.8,	8.5,	13.4,	1.5);	(413291.8, 3728385.8,	8.1,	8.1,	1.5);
(413311.8, 3728385.8,	8.1,	8.1,	1.5);	(413331.8, 3728385.8,	8.6,	8.6,	1.5);
(413351.8, 3728385.8,	8.8,	8.8,	1.5);	(413371.8, 3728385.8,	7.8,	7.8,	1.5);
(413391.8, 3728385.8,	6.3,	6.3,	1.5);	(413411.8, 3728385.8,	5.0,	9.7,	1.5);
(413431.8, 3728385.8,	5.0,	9.6,	1.5);	(413451.8, 3728385.8,	5.1,	9.5,	1.5);
(413471.8, 3728385.8,	6.9,	8.6,	1.5);	(413491.8, 3728385.8,	7.6,	7.6,	1.5);
(413511.8, 3728385.8,	5.4,	9.6,	1.5);	(413531.8, 3728385.8,	5.3,	9.9,	1.5);
(413551.8, 3728385.8,	5.4,	10.0,	1.5);	(413571.8, 3728385.8,	5.4,	10.0,	1.5);
(413591.8, 3728385.8,	5.5,	10.0,	1.5);	(413611.8, 3728385.8,	5.6,	9.9,	1.5);
(413631.8, 3728385.8,	5.6,	8.7,	1.5);	(413651.8, 3728385.8,	5.9,	8.6,	1.5);
(413671.8, 3728385.8,	6.7,	6.7,	1.5);	(413691.8, 3728385.8,	7.8,	7.8,	1.5);
(413711.8, 3728385.8,	8.5,	8.5,	1.5);	(413731.8, 3728385.8,	8.6,	8.6,	1.5);
(413751.8, 3728385.8,	8.5,	8.5,	1.5);	(413771.8, 3728385.8,	8.5,	8.5,	1.5);
(413791.8, 3728385.8,	8.7,	8.7,	1.5);	(413811.8, 3728385.8,	8.5,	8.5,	1.5);
(413831.8, 3728385.8,	8.3,	8.3,	1.5);	(413851.8, 3728385.8,	8.2,	8.2,	1.5);
(413871.8, 3728385.8,	8.3,	8.3,	1.5);	(413891.8, 3728385.8,	8.0,	8.0,	1.5);
(413911.8, 3728385.8,	8.1,	8.1,	1.5);	(413931.8, 3728385.8,	8.4,	8.4,	1.5);
(413951.8, 3728385.8,	8.5,	8.5,	1.5);	(413971.8, 3728385.8,	8.3,	8.3,	1.5);
(413991.8, 3728385.8,	8.4,	8.4,	1.5);	(414011.8, 3728385.8,	8.6,	8.6,	1.5);
(414031.8, 3728385.8,	8.7,	8.7,	1.5);	(414051.8, 3728385.8,	8.8,	8.8,	1.5);
(414071.8, 3728385.8,	9.2,	9.2,	1.5);	(414311.8, 3728385.8,	8.6,	8.6,	1.5);
(414331.8, 3728385.8,	8.7,	8.7,	1.5);	(414351.8, 3728385.8,	8.7,	8.7,	1.5);
(414371.8, 3728385.8,	8.8,	8.8,	1.5);	(414391.8, 3728385.8,	8.9,	8.9,	1.5);
(414411.8, 3728385.8,	9.2,	9.2,	1.5);	(414431.8, 3728385.8,	9.0,	9.0,	1.5);
(414451.8, 3728385.8,	9.1,	9.1,	1.5);	(414471.8, 3728385.8,	9.1,	9.1,	1.5);
(414491.8, 3728385.8,	9.0,	9.0,	1.5);	(414511.8, 3728385.8,	8.7,	8.7,	1.5);
(414531.8, 3728385.8,	8.7,	8.7,	1.5);	(414551.8, 3728385.8,	8.7,	8.7,	1.5);
(414571.8, 3728385.8,	8.8,	8.8,	1.5);	(414591.8, 3728385.8,	8.8,	8.8,	1.5);
(414611.8, 3728385.8,	8.9,	8.9,	1.5);	(414631.8, 3728385.8,	8.9,	8.9,	1.5);
(414651.8, 3728385.8,	9.0,	9.0,	1.5);	(414671.8, 3728385.8,	9.1,	9.1,	1.5);
(414691.8, 3728385.8,	9.1,	9.1,	1.5);	(414711.8, 3728385.8,	9.1,	9.1,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	414731.8,	3728385.8,	9.1,	9.1,	1.5);	(	414751.8,	3728385.8,	9.0,	9.0,	1.5);
(	413271.8,	3728405.8,	8.8,	13.4,	1.5);	(	413291.8,	3728405.8,	8.3,	8.3,	1.5);
(	413311.8,	3728405.8,	8.1,	8.1,	1.5);	(	413331.8,	3728405.8,	8.3,	8.3,	1.5);
(	413351.8,	3728405.8,	8.6,	8.6,	1.5);	(	413371.8,	3728405.8,	8.4,	8.4,	1.5);
(	413391.8,	3728405.8,	8.1,	8.1,	1.5);	(	413411.8,	3728405.8,	7.9,	7.9,	1.5);
(	413431.8,	3728405.8,	8.4,	8.7,	1.5);	(	413451.8,	3728405.8,	8.7,	8.7,	1.5);
(	413471.8,	3728405.8,	8.6,	8.6,	1.5);	(	413491.8,	3728405.8,	8.5,	8.5,	1.5);
(	413511.8,	3728405.8,	8.8,	8.8,	1.5);	(	413531.8,	3728405.8,	8.7,	8.7,	1.5);
(	413551.8,	3728405.8,	8.7,	8.7,	1.5);	(	413571.8,	3728405.8,	8.7,	8.7,	1.5);
(	413591.8,	3728405.8,	8.7,	8.7,	1.5);	(	413611.8,	3728405.8,	8.7,	8.7,	1.5);
(	413631.8,	3728405.8,	8.6,	8.6,	1.5);	(	413651.8,	3728405.8,	8.5,	8.5,	1.5);
(	413671.8,	3728405.8,	8.6,	8.6,	1.5);	(	413691.8,	3728405.8,	8.8,	8.8,	1.5);
(	413711.8,	3728405.8,	8.5,	8.5,	1.5);	(	413731.8,	3728405.8,	8.2,	8.2,	1.5);
(	413751.8,	3728405.8,	8.1,	8.1,	1.5);	(	413771.8,	3728405.8,	8.1,	8.1,	1.5);
(	413791.8,	3728405.8,	8.4,	8.4,	1.5);	(	413811.8,	3728405.8,	8.6,	8.6,	1.5);
(	413831.8,	3728405.8,	8.6,	8.6,	1.5);	(	413851.8,	3728405.8,	8.6,	8.6,	1.5);
(	413871.8,	3728405.8,	8.8,	8.8,	1.5);	(	413891.8,	3728405.8,	8.1,	8.1,	1.5);
(	413911.8,	3728405.8,	8.3,	8.3,	1.5);	(	413931.8,	3728405.8,	8.8,	8.8,	1.5);
(	413951.8,	3728405.8,	9.0,	9.0,	1.5);	(	413971.8,	3728405.8,	8.5,	8.5,	1.5);
(	413991.8,	3728405.8,	8.7,	8.7,	1.5);	(	414011.8,	3728405.8,	9.0,	9.0,	1.5);
(	414031.8,	3728405.8,	9.2,	9.2,	1.5);	(	414311.8,	3728405.8,	8.7,	8.7,	1.5);
(	414331.8,	3728405.8,	9.0,	9.0,	1.5);	(	414351.8,	3728405.8,	9.1,	9.1,	1.5);
(	414371.8,	3728405.8,	9.1,	9.1,	1.5);	(	414391.8,	3728405.8,	9.2,	9.2,	1.5);
(	414411.8,	3728405.8,	9.4,	9.4,	1.5);	(	414431.8,	3728405.8,	9.2,	9.2,	1.5);
(	414451.8,	3728405.8,	9.3,	9.3,	1.5);	(	414471.8,	3728405.8,	9.5,	9.5,	1.5);
(	414491.8,	3728405.8,	9.6,	9.6,	1.5);	(	414511.8,	3728405.8,	8.8,	8.8,	1.5);
(	414531.8,	3728405.8,	8.8,	8.8,	1.5);	(	414551.8,	3728405.8,	8.8,	8.8,	1.5);
(	414571.8,	3728405.8,	8.9,	8.9,	1.5);	(	414591.8,	3728405.8,	8.9,	8.9,	1.5);
(	414611.8,	3728405.8,	9.1,	9.1,	1.5);	(	414631.8,	3728405.8,	9.0,	9.0,	1.5);
(	414651.8,	3728405.8,	9.0,	9.0,	1.5);	(	414671.8,	3728405.8,	9.1,	9.1,	1.5);
(	414691.8,	3728405.8,	9.1,	9.1,	1.5);	(	414711.8,	3728405.8,	9.2,	9.2,	1.5);
(	414731.8,	3728405.8,	9.1,	9.1,	1.5);	(	414751.8,	3728405.8,	8.9,	8.9,	1.5);
(	413291.8,	3728425.8,	8.4,	13.4,	1.5);	(	413311.8,	3728425.8,	8.3,	8.3,	1.5);
(	413331.8,	3728425.8,	8.1,	8.1,	1.5);	(	413351.8,	3728425.8,	8.5,	8.5,	1.5);
(	413371.8,	3728425.8,	8.6,	8.6,	1.5);	(	413391.8,	3728425.8,	8.4,	8.4,	1.5);
(	413411.8,	3728425.8,	8.1,	8.1,	1.5);	(	413431.8,	3728425.8,	8.6,	8.6,	1.5);
(	413451.8,	3728425.8,	8.9,	8.9,	1.5);	(	413471.8,	3728425.8,	8.6,	8.6,	1.5);
(	413491.8,	3728425.8,	8.3,	8.3,	1.5);	(	413511.8,	3728425.8,	8.5,	8.5,	1.5);
(	413531.8,	3728425.8,	8.4,	8.4,	1.5);	(	413551.8,	3728425.8,	8.3,	8.3,	1.5);
(	413571.8,	3728425.8,	8.3,	8.3,	1.5);	(	413591.8,	3728425.8,	8.3,	8.3,	1.5);
(	413611.8,	3728425.8,	8.3,	8.3,	1.5);	(	413631.8,	3728425.8,	8.3,	8.3,	1.5);
(	413651.8,	3728425.8,	8.3,	8.3,	1.5);	(	413671.8,	3728425.8,	8.5,	8.5,	1.5);
(	413691.8,	3728425.8,	8.8,	8.8,	1.5);	(	413711.8,	3728425.8,	8.6,	8.6,	1.5);
(	413731.8,	3728425.8,	8.5,	8.5,	1.5);	(	413751.8,	3728425.8,	8.5,	8.5,	1.5);
(	413771.8,	3728425.8,	8.6,	8.6,	1.5);	(	413791.8,	3728425.8,	8.6,	8.6,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	413811.8,	3728425.8,	8.8,	8.8,	1.5);	(413831.8,	3728425.8,	8.8,	8.8,	1.5);
(	413851.8,	3728425.8,	8.7,	8.7,	1.5);	(413871.8,	3728425.8,	8.6,	8.6,	1.5);
(	413891.8,	3728425.8,	8.1,	8.1,	1.5);	(413911.8,	3728425.8,	8.4,	8.4,	1.5);
(	413931.8,	3728425.8,	8.8,	8.8,	1.5);	(413951.8,	3728425.8,	9.0,	9.0,	1.5);
(	413971.8,	3728425.8,	8.6,	8.6,	1.5);	(413991.8,	3728425.8,	9.0,	9.0,	1.5);
(	414251.8,	3728425.8,	9.5,	9.5,	1.5);	(414271.8,	3728425.8,	9.1,	9.1,	1.5);
(	414311.8,	3728425.8,	8.5,	8.5,	1.5);	(414331.8,	3728425.8,	9.5,	9.5,	1.5);
(	414351.8,	3728425.8,	9.6,	9.6,	1.5);	(414371.8,	3728425.8,	9.6,	9.6,	1.5);
(	414391.8,	3728425.8,	9.5,	9.5,	1.5);	(414411.8,	3728425.8,	9.5,	9.5,	1.5);
(	414431.8,	3728425.8,	9.4,	9.4,	1.5);	(414451.8,	3728425.8,	9.4,	9.4,	1.5);
(	414471.8,	3728425.8,	10.1,	10.1,	1.5);	(414491.8,	3728425.8,	11.1,	11.7,	1.5);
(	414511.8,	3728425.8,	8.9,	11.7,	1.5);	(414531.8,	3728425.8,	8.7,	8.7,	1.5);
(	414551.8,	3728425.8,	8.8,	8.8,	1.5);	(414571.8,	3728425.8,	8.8,	8.8,	1.5);
(	414591.8,	3728425.8,	8.9,	8.9,	1.5);	(414611.8,	3728425.8,	9.1,	9.1,	1.5);
(	414631.8,	3728425.8,	9.0,	9.0,	1.5);	(414651.8,	3728425.8,	9.0,	9.0,	1.5);
(	414671.8,	3728425.8,	9.1,	9.1,	1.5);	(414691.8,	3728425.8,	9.1,	9.1,	1.5);
(	414711.8,	3728425.8,	9.2,	9.2,	1.5);	(414731.8,	3728425.8,	9.1,	9.1,	1.5);
(	414751.8,	3728425.8,	8.9,	8.9,	1.5);	(413291.8,	3728445.8,	8.7,	13.4,	1.5);
(	413311.8,	3728445.8,	8.4,	8.4,	1.5);	(413331.8,	3728445.8,	8.1,	8.1,	1.5);
(	413351.8,	3728445.8,	8.3,	8.3,	1.5);	(413371.8,	3728445.8,	8.6,	8.6,	1.5);
(	413391.8,	3728445.8,	8.5,	8.5,	1.5);	(413411.8,	3728445.8,	8.2,	8.2,	1.5);
(	413431.8,	3728445.8,	8.6,	8.6,	1.5);	(413451.8,	3728445.8,	8.8,	8.8,	1.5);
(	413471.8,	3728445.8,	8.6,	8.6,	1.5);	(413491.8,	3728445.8,	8.4,	8.4,	1.5);
(	413511.8,	3728445.8,	8.4,	8.4,	1.5);	(413531.8,	3728445.8,	8.3,	8.3,	1.5);
(	413551.8,	3728445.8,	8.3,	8.3,	1.5);	(413571.8,	3728445.8,	8.3,	8.3,	1.5);
(	413591.8,	3728445.8,	8.3,	8.3,	1.5);	(413611.8,	3728445.8,	8.3,	8.3,	1.5);
(	413631.8,	3728445.8,	8.2,	8.2,	1.5);	(413651.8,	3728445.8,	8.3,	8.3,	1.5);
(	413671.8,	3728445.8,	8.4,	8.4,	1.5);	(413691.8,	3728445.8,	8.7,	8.7,	1.5);
(	413711.8,	3728445.8,	8.7,	8.7,	1.5);	(413731.8,	3728445.8,	8.6,	8.6,	1.5);
(	413751.8,	3728445.8,	8.6,	8.6,	1.5);	(413771.8,	3728445.8,	8.8,	8.8,	1.5);
(	413791.8,	3728445.8,	8.7,	8.7,	1.5);	(413811.8,	3728445.8,	8.7,	8.7,	1.5);
(	413831.8,	3728445.8,	8.6,	8.6,	1.5);	(413851.8,	3728445.8,	8.5,	8.5,	1.5);
(	413871.8,	3728445.8,	8.4,	8.4,	1.5);	(413891.8,	3728445.8,	8.3,	8.3,	1.5);
(	413911.8,	3728445.8,	8.6,	8.6,	1.5);	(413931.8,	3728445.8,	8.9,	8.9,	1.5);
(	413951.8,	3728445.8,	9.3,	9.3,	1.5);	(414191.8,	3728445.8,	9.4,	9.4,	1.5);
(	414211.8,	3728445.8,	9.5,	9.5,	1.5);	(414231.8,	3728445.8,	9.4,	9.4,	1.5);
(	414251.8,	3728445.8,	9.5,	9.5,	1.5);	(414271.8,	3728445.8,	9.1,	9.1,	1.5);
(	414311.8,	3728445.8,	8.5,	8.5,	1.5);	(414331.8,	3728445.8,	9.6,	9.6,	1.5);
(	414351.8,	3728445.8,	9.7,	9.7,	1.5);	(414371.8,	3728445.8,	9.6,	9.6,	1.5);
(	414391.8,	3728445.8,	9.5,	9.5,	1.5);	(414411.8,	3728445.8,	9.2,	9.2,	1.5);
(	414431.8,	3728445.8,	9.3,	9.3,	1.5);	(414451.8,	3728445.8,	9.4,	9.4,	1.5);
(	414471.8,	3728445.8,	9.6,	9.6,	1.5);	(414491.8,	3728445.8,	9.7,	11.7,	1.5);
(	414511.8,	3728445.8,	8.8,	8.8,	1.5);	(414531.8,	3728445.8,	8.6,	8.6,	1.5);
(	414551.8,	3728445.8,	8.6,	8.6,	1.5);	(414571.8,	3728445.8,	8.6,	8.6,	1.5);
(	414591.8,	3728445.8,	8.7,	8.7,	1.5);	(414611.8,	3728445.8,	8.8,	8.8,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	414631.8,	3728445.8,	8.8,	8.8,	1.5);	(414651.8,	3728445.8,	8.8,	8.8,	1.5);
(	414671.8,	3728445.8,	8.9,	8.9,	1.5);	(414691.8,	3728445.8,	8.9,	8.9,	1.5);
(	414711.8,	3728445.8,	9.1,	9.1,	1.5);	(414731.8,	3728445.8,	9.1,	9.1,	1.5);
(	414751.8,	3728445.8,	9.0,	9.0,	1.5);	(413311.8,	3728465.8,	8.4,	8.4,	1.5);
(	413331.8,	3728465.8,	8.2,	8.2,	1.5);	(413351.8,	3728465.8,	8.1,	8.1,	1.5);
(	413371.8,	3728465.8,	8.4,	8.4,	1.5);	(413391.8,	3728465.8,	8.6,	8.6,	1.5);
(	413411.8,	3728465.8,	8.5,	8.5,	1.5);	(413431.8,	3728465.8,	8.7,	8.7,	1.5);
(	413451.8,	3728465.8,	8.8,	8.8,	1.5);	(413471.8,	3728465.8,	8.7,	8.7,	1.5);
(	413491.8,	3728465.8,	8.6,	8.6,	1.5);	(413511.8,	3728465.8,	8.8,	8.8,	1.5);
(	413531.8,	3728465.8,	8.8,	8.8,	1.5);	(413551.8,	3728465.8,	8.9,	8.9,	1.5);
(	413571.8,	3728465.8,	8.9,	8.9,	1.5);	(413591.8,	3728465.8,	8.8,	8.8,	1.5);
(	413611.8,	3728465.8,	8.8,	8.8,	1.5);	(413631.8,	3728465.8,	8.6,	8.6,	1.5);
(	413651.8,	3728465.8,	8.5,	8.5,	1.5);	(413671.8,	3728465.8,	8.5,	8.5,	1.5);
(	413691.8,	3728465.8,	8.6,	8.6,	1.5);	(413711.8,	3728465.8,	8.9,	8.9,	1.5);
(	413731.8,	3728465.8,	8.6,	8.6,	1.5);	(413751.8,	3728465.8,	8.5,	8.5,	1.5);
(	413771.8,	3728465.8,	9.0,	9.0,	1.5);	(413791.8,	3728465.8,	8.8,	8.8,	1.5);
(	413811.8,	3728465.8,	8.4,	8.4,	1.5);	(413831.8,	3728465.8,	8.2,	8.2,	1.5);
(	413851.8,	3728465.8,	8.2,	8.2,	1.5);	(413871.8,	3728465.8,	8.4,	8.4,	1.5);
(	413891.8,	3728465.8,	8.7,	8.7,	1.5);	(413911.8,	3728465.8,	8.8,	8.8,	1.5);
(	414131.8,	3728465.8,	9.4,	9.4,	1.5);	(414151.8,	3728465.8,	9.4,	9.4,	1.5);
(	414171.8,	3728465.8,	9.6,	9.6,	1.5);	(414191.8,	3728465.8,	9.8,	9.8,	1.5);
(	414211.8,	3728465.8,	9.8,	9.8,	1.5);	(414231.8,	3728465.8,	9.4,	9.4,	1.5);
(	414251.8,	3728465.8,	9.4,	9.4,	1.5);	(414271.8,	3728465.8,	9.1,	9.1,	1.5);
(	414311.8,	3728465.8,	8.6,	8.6,	1.5);	(414331.8,	3728465.8,	9.6,	9.6,	1.5);
(	414351.8,	3728465.8,	9.7,	9.7,	1.5);	(414371.8,	3728465.8,	9.7,	9.7,	1.5);
(	414391.8,	3728465.8,	9.5,	9.5,	1.5);	(414411.8,	3728465.8,	8.9,	8.9,	1.5);
(	414431.8,	3728465.8,	9.6,	9.6,	1.5);	(414451.8,	3728465.8,	9.9,	9.9,	1.5);
(	414471.8,	3728465.8,	9.6,	9.6,	1.5);	(414491.8,	3728465.8,	8.9,	8.9,	1.5);
(	414511.8,	3728465.8,	8.7,	8.7,	1.5);	(414531.8,	3728465.8,	8.6,	8.6,	1.5);
(	414551.8,	3728465.8,	8.6,	8.6,	1.5);	(414571.8,	3728465.8,	8.6,	8.6,	1.5);
(	414591.8,	3728465.8,	8.7,	8.7,	1.5);	(414611.8,	3728465.8,	8.7,	8.7,	1.5);
(	414631.8,	3728465.8,	8.8,	8.8,	1.5);	(414651.8,	3728465.8,	8.9,	8.9,	1.5);
(	414671.8,	3728465.8,	8.9,	8.9,	1.5);	(414691.8,	3728465.8,	9.0,	9.0,	1.5);
(	414711.8,	3728465.8,	9.1,	9.1,	1.5);	(414731.8,	3728465.8,	9.1,	9.1,	1.5);
(	414751.8,	3728465.8,	9.0,	9.0,	1.5);	(413311.8,	3728485.8,	8.7,	13.5,	1.5);
(	413331.8,	3728485.8,	8.5,	8.5,	1.5);	(413351.8,	3728485.8,	8.2,	8.2,	1.5);
(	413371.8,	3728485.8,	8.3,	8.3,	1.5);	(413391.8,	3728485.8,	8.5,	8.5,	1.5);
(	413411.8,	3728485.8,	8.7,	8.7,	1.5);	(413431.8,	3728485.8,	8.7,	8.7,	1.5);
(	413451.8,	3728485.8,	8.9,	8.9,	1.5);	(413471.8,	3728485.8,	8.8,	8.8,	1.5);
(	413491.8,	3728485.8,	8.7,	8.7,	1.5);	(413511.8,	3728485.8,	9.0,	9.0,	1.5);
(	413531.8,	3728485.8,	9.2,	9.2,	1.5);	(413551.8,	3728485.8,	9.1,	9.1,	1.5);
(	413571.8,	3728485.8,	9.1,	9.1,	1.5);	(413591.8,	3728485.8,	9.2,	9.2,	1.5);
(	413611.8,	3728485.8,	9.2,	9.2,	1.5);	(413631.8,	3728485.8,	8.8,	8.8,	1.5);
(	413651.8,	3728485.8,	8.6,	8.6,	1.5);	(413671.8,	3728485.8,	8.5,	8.5,	1.5);
(	413691.8,	3728485.8,	8.8,	8.8,	1.5);	(413711.8,	3728485.8,	9.0,	9.0,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	413731.8,	3728485.8,	8.7,	8.7,	1.5);	(413751.8,	3728485.8,	8.6,	8.6,	1.5);
(	413771.8,	3728485.8,	8.8,	8.8,	1.5);	(413791.8,	3728485.8,	8.9,	8.9,	1.5);
(	413811.8,	3728485.8,	8.7,	8.7,	1.5);	(413831.8,	3728485.8,	8.7,	8.7,	1.5);
(	413851.8,	3728485.8,	8.8,	8.8,	1.5);	(413871.8,	3728485.8,	8.7,	8.7,	1.5);
(	414091.8,	3728485.8,	9.6,	9.6,	1.5);	(414111.8,	3728485.8,	9.7,	9.7,	1.5);
(	414131.8,	3728485.8,	9.7,	9.7,	1.5);	(414151.8,	3728485.8,	9.7,	9.7,	1.5);
(	414171.8,	3728485.8,	9.8,	9.8,	1.5);	(414191.8,	3728485.8,	9.9,	9.9,	1.5);
(	414211.8,	3728485.8,	9.7,	9.7,	1.5);	(414231.8,	3728485.8,	9.2,	9.2,	1.5);
(	414251.8,	3728485.8,	9.2,	9.2,	1.5);	(414271.8,	3728485.8,	9.1,	9.1,	1.5);
(	414311.8,	3728485.8,	8.7,	8.7,	1.5);	(414331.8,	3728485.8,	9.8,	9.8,	1.5);
(	414351.8,	3728485.8,	9.8,	9.8,	1.5);	(414371.8,	3728485.8,	9.9,	9.9,	1.5);
(	414391.8,	3728485.8,	9.8,	9.8,	1.5);	(414411.8,	3728485.8,	8.6,	11.6,	1.5);
(	414431.8,	3728485.8,	10.6,	11.6,	1.5);	(414451.8,	3728485.8,	11.2,	11.2,	1.5);
(	414471.8,	3728485.8,	11.0,	11.0,	1.5);	(414491.8,	3728485.8,	10.4,	11.0,	1.5);
(	414511.8,	3728485.8,	8.9,	8.9,	1.5);	(414531.8,	3728485.8,	8.9,	8.9,	1.5);
(	414551.8,	3728485.8,	8.9,	8.9,	1.5);	(414571.8,	3728485.8,	8.9,	8.9,	1.5);
(	414591.8,	3728485.8,	9.0,	9.0,	1.5);	(414611.8,	3728485.8,	8.9,	8.9,	1.5);
(	414631.8,	3728485.8,	9.1,	9.1,	1.5);	(414651.8,	3728485.8,	9.2,	9.2,	1.5);
(	414671.8,	3728485.8,	9.2,	9.2,	1.5);	(414691.8,	3728485.8,	9.3,	9.3,	1.5);
(	414711.8,	3728485.8,	9.2,	9.2,	1.5);	(414731.8,	3728485.8,	9.1,	9.1,	1.5);
(	414751.8,	3728485.8,	9.0,	9.0,	1.5);	(413331.8,	3728505.8,	8.6,	13.5,	1.5);
(	413351.8,	3728505.8,	8.5,	8.5,	1.5);	(413371.8,	3728505.8,	8.2,	8.2,	1.5);
(	413391.8,	3728505.8,	8.4,	8.4,	1.5);	(413411.8,	3728505.8,	8.9,	8.9,	1.5);
(	413431.8,	3728505.8,	8.8,	8.8,	1.5);	(413451.8,	3728505.8,	8.9,	8.9,	1.5);
(	413471.8,	3728505.8,	8.8,	8.8,	1.5);	(413491.8,	3728505.8,	8.7,	8.7,	1.5);
(	413511.8,	3728505.8,	9.0,	9.0,	1.5);	(413531.8,	3728505.8,	9.3,	9.3,	1.5);
(	413551.8,	3728505.8,	9.2,	9.2,	1.5);	(413571.8,	3728505.8,	9.2,	9.2,	1.5);
(	413591.8,	3728505.8,	9.5,	9.5,	1.5);	(413611.8,	3728505.8,	9.4,	9.4,	1.5);
(	413631.8,	3728505.8,	8.9,	8.9,	1.5);	(413651.8,	3728505.8,	8.6,	8.6,	1.5);
(	413671.8,	3728505.8,	8.6,	8.6,	1.5);	(413691.8,	3728505.8,	8.9,	8.9,	1.5);
(	413711.8,	3728505.8,	9.0,	9.0,	1.5);	(413731.8,	3728505.8,	8.7,	8.7,	1.5);
(	413751.8,	3728505.8,	8.6,	8.6,	1.5);	(413771.8,	3728505.8,	8.8,	8.8,	1.5);
(	413791.8,	3728505.8,	9.0,	9.0,	1.5);	(413811.8,	3728505.8,	9.0,	9.0,	1.5);
(	413831.8,	3728505.8,	9.1,	9.1,	1.5);	(414051.8,	3728505.8,	9.5,	9.5,	1.5);
(	414071.8,	3728505.8,	9.6,	9.6,	1.5);	(414091.8,	3728505.8,	9.7,	9.7,	1.5);
(	414111.8,	3728505.8,	9.8,	9.8,	1.5);	(414131.8,	3728505.8,	9.9,	9.9,	1.5);
(	414151.8,	3728505.8,	9.8,	9.8,	1.5);	(414171.8,	3728505.8,	9.8,	9.8,	1.5);
(	414191.8,	3728505.8,	9.8,	9.8,	1.5);	(414211.8,	3728505.8,	9.6,	9.6,	1.5);
(	414231.8,	3728505.8,	9.2,	9.2,	1.5);	(414251.8,	3728505.8,	9.1,	9.1,	1.5);
(	414271.8,	3728505.8,	9.0,	9.0,	1.5);	(414311.8,	3728505.8,	8.8,	8.8,	1.5);
(	414331.8,	3728505.8,	9.2,	9.2,	1.5);	(414351.8,	3728505.8,	9.2,	9.2,	1.5);
(	414371.8,	3728505.8,	9.3,	9.3,	1.5);	(414391.8,	3728505.8,	9.4,	9.4,	1.5);
(	414411.8,	3728505.8,	8.8,	8.8,	1.5);	(414431.8,	3728505.8,	9.8,	11.6,	1.5);
(	414451.8,	3728505.8,	10.0,	10.0,	1.5);	(414471.8,	3728505.8,	9.9,	9.9,	1.5);
(	414491.8,	3728505.8,	9.5,	9.5,	1.5);	(414511.8,	3728505.8,	8.7,	8.7,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	414531.8,	3728505.8,	8.8,	8.8,	1.5);	(414551.8,	3728505.8,	8.9,	8.9,	1.5);
(	414571.8,	3728505.8,	8.9,	8.9,	1.5);	(414591.8,	3728505.8,	8.9,	8.9,	1.5);
(	414611.8,	3728505.8,	8.9,	8.9,	1.5);	(414631.8,	3728505.8,	9.1,	9.1,	1.5);
(	414651.8,	3728505.8,	9.2,	9.2,	1.5);	(414671.8,	3728505.8,	9.2,	9.2,	1.5);
(	414691.8,	3728505.8,	9.2,	9.2,	1.5);	(414711.8,	3728505.8,	9.2,	9.2,	1.5);
(	414731.8,	3728505.8,	9.2,	9.2,	1.5);	(414751.8,	3728505.8,	9.1,	9.1,	1.5);
(	413331.8,	3728525.8,	8.7,	13.5,	1.5);	(413351.8,	3728525.8,	8.7,	13.5,	1.5);
(	413371.8,	3728525.8,	8.4,	8.4,	1.5);	(413391.8,	3728525.8,	8.4,	8.4,	1.5);
(	413411.8,	3728525.8,	8.9,	8.9,	1.5);	(413431.8,	3728525.8,	8.8,	8.8,	1.5);
(	413451.8,	3728525.8,	9.2,	9.2,	1.5);	(413471.8,	3728525.8,	9.0,	9.0,	1.5);
(	413491.8,	3728525.8,	8.7,	8.7,	1.5);	(413511.8,	3728525.8,	8.8,	8.8,	1.5);
(	413531.8,	3728525.8,	8.9,	8.9,	1.5);	(413551.8,	3728525.8,	9.1,	9.1,	1.5);
(	413571.8,	3728525.8,	9.3,	9.3,	1.5);	(413591.8,	3728525.8,	9.6,	9.6,	1.5);
(	413611.8,	3728525.8,	9.4,	9.4,	1.5);	(413631.8,	3728525.8,	8.7,	8.7,	1.5);
(	413651.8,	3728525.8,	8.5,	8.5,	1.5);	(413671.8,	3728525.8,	8.7,	8.7,	1.5);
(	413691.8,	3728525.8,	9.1,	9.1,	1.5);	(413711.8,	3728525.8,	8.7,	8.7,	1.5);
(	413731.8,	3728525.8,	8.5,	8.5,	1.5);	(413751.8,	3728525.8,	8.6,	8.6,	1.5);
(	413771.8,	3728525.8,	9.0,	9.0,	1.5);	(413791.8,	3728525.8,	9.1,	9.1,	1.5);
(	414031.8,	3728525.8,	9.5,	9.5,	1.5);	(414051.8,	3728525.8,	9.8,	9.8,	1.5);
(	414071.8,	3728525.8,	9.8,	9.8,	1.5);	(414091.8,	3728525.8,	9.8,	9.8,	1.5);
(	414111.8,	3728525.8,	9.8,	9.8,	1.5);	(414131.8,	3728525.8,	9.8,	9.8,	1.5);
(	414151.8,	3728525.8,	9.8,	9.8,	1.5);	(414171.8,	3728525.8,	9.8,	9.8,	1.5);
(	414191.8,	3728525.8,	9.6,	9.6,	1.5);	(414211.8,	3728525.8,	9.4,	9.4,	1.5);
(	414231.8,	3728525.8,	9.4,	9.4,	1.5);	(414251.8,	3728525.8,	9.0,	9.0,	1.5);
(	414271.8,	3728525.8,	8.9,	8.9,	1.5);	(414311.8,	3728525.8,	8.7,	8.7,	1.5);
(	414331.8,	3728525.8,	8.5,	8.5,	1.5);	(414351.8,	3728525.8,	8.6,	8.6,	1.5);
(	414371.8,	3728525.8,	8.7,	8.7,	1.5);	(414391.8,	3728525.8,	8.9,	8.9,	1.5);
(	414411.8,	3728525.8,	9.1,	9.1,	1.5);	(414431.8,	3728525.8,	8.8,	8.8,	1.5);
(	414451.8,	3728525.8,	8.6,	8.6,	1.5);	(414471.8,	3728525.8,	8.4,	8.4,	1.5);
(	414491.8,	3728525.8,	8.3,	8.3,	1.5);	(414511.8,	3728525.8,	8.5,	8.5,	1.5);
(	414531.8,	3728525.8,	8.8,	8.8,	1.5);	(414551.8,	3728525.8,	8.9,	8.9,	1.5);
(	414571.8,	3728525.8,	8.9,	8.9,	1.5);	(414591.8,	3728525.8,	9.0,	9.0,	1.5);
(	414611.8,	3728525.8,	9.0,	9.0,	1.5);	(414631.8,	3728525.8,	9.1,	9.1,	1.5);
(	414651.8,	3728525.8,	9.1,	9.1,	1.5);	(414671.8,	3728525.8,	9.2,	9.2,	1.5);
(	414691.8,	3728525.8,	9.2,	9.2,	1.5);	(414711.8,	3728525.8,	9.2,	9.2,	1.5);
(	414731.8,	3728525.8,	9.3,	9.3,	1.5);	(414751.8,	3728525.8,	9.2,	9.2,	1.5);
(	413351.8,	3728545.8,	9.1,	9.1,	1.5);	(413371.8,	3728545.8,	8.7,	8.7,	1.5);
(	413391.8,	3728545.8,	8.7,	8.7,	1.5);	(413411.8,	3728545.8,	9.0,	9.0,	1.5);
(	413431.8,	3728545.8,	9.0,	9.0,	1.5);	(413451.8,	3728545.8,	9.0,	9.0,	1.5);
(	413471.8,	3728545.8,	9.0,	9.0,	1.5);	(413491.8,	3728545.8,	9.0,	9.0,	1.5);
(	413511.8,	3728545.8,	9.1,	9.1,	1.5);	(413531.8,	3728545.8,	9.2,	9.2,	1.5);
(	413551.8,	3728545.8,	9.2,	9.2,	1.5);	(413571.8,	3728545.8,	9.2,	9.2,	1.5);
(	413591.8,	3728545.8,	9.1,	9.1,	1.5);	(413611.8,	3728545.8,	9.0,	9.0,	1.5);
(	413631.8,	3728545.8,	8.4,	8.4,	1.5);	(413651.8,	3728545.8,	8.3,	8.3,	1.5);
(	413671.8,	3728545.8,	8.6,	8.6,	1.5);	(413691.8,	3728545.8,	8.9,	8.9,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(413711.8,	3728545.8,	8.9,	8.9,	1.5);	(413731.8,	3728545.8,	8.9,	8.9,	1.5);
(413751.8,	3728545.8,	9.1,	9.1,	1.5);	(414031.8,	3728545.8,	9.5,	9.5,	1.5);
(414051.8,	3728545.8,	9.7,	9.7,	1.5);	(414071.8,	3728545.8,	9.8,	9.8,	1.5);
(414091.8,	3728545.8,	9.7,	9.7,	1.5);	(414111.8,	3728545.8,	9.6,	9.6,	1.5);
(414131.8,	3728545.8,	9.5,	9.5,	1.5);	(414151.8,	3728545.8,	9.5,	9.5,	1.5);
(414171.8,	3728545.8,	9.6,	9.6,	1.5);	(414191.8,	3728545.8,	9.7,	9.7,	1.5);
(414211.8,	3728545.8,	9.8,	9.8,	1.5);	(414231.8,	3728545.8,	9.8,	9.8,	1.5);
(414251.8,	3728545.8,	9.5,	9.5,	1.5);	(414271.8,	3728545.8,	9.2,	9.2,	1.5);
(414311.8,	3728545.8,	8.4,	8.4,	1.5);	(414331.8,	3728545.8,	8.4,	8.4,	1.5);
(414351.8,	3728545.8,	8.6,	8.6,	1.5);	(414371.8,	3728545.8,	8.8,	8.8,	1.5);
(414391.8,	3728545.8,	9.0,	9.0,	1.5);	(414411.8,	3728545.8,	9.2,	9.2,	1.5);
(414431.8,	3728545.8,	8.9,	8.9,	1.5);	(414451.8,	3728545.8,	8.6,	8.6,	1.5);
(414471.8,	3728545.8,	8.4,	8.4,	1.5);	(414491.8,	3728545.8,	8.3,	8.3,	1.5);
(414511.8,	3728545.8,	8.5,	8.5,	1.5);	(414531.8,	3728545.8,	8.7,	8.7,	1.5);
(414551.8,	3728545.8,	8.9,	8.9,	1.5);	(414571.8,	3728545.8,	9.1,	9.1,	1.5);
(414591.8,	3728545.8,	9.1,	9.1,	1.5);	(414611.8,	3728545.8,	9.1,	9.1,	1.5);
(414631.8,	3728545.8,	9.2,	9.2,	1.5);	(414651.8,	3728545.8,	9.2,	9.2,	1.5);
(414671.8,	3728545.8,	9.3,	9.3,	1.5);	(414691.8,	3728545.8,	9.4,	9.4,	1.5);
(414711.8,	3728545.8,	9.4,	9.4,	1.5);	(414731.8,	3728545.8,	9.4,	9.4,	1.5);
(414751.8,	3728545.8,	9.4,	9.4,	1.5);	(413351.8,	3728565.8,	9.4,	9.4,	1.5);
(413371.8,	3728565.8,	9.1,	9.1,	1.5);	(413391.8,	3728565.8,	9.0,	9.0,	1.5);
(413411.8,	3728565.8,	9.1,	9.1,	1.5);	(413431.8,	3728565.8,	9.2,	9.2,	1.5);
(413451.8,	3728565.8,	8.8,	8.8,	1.5);	(413471.8,	3728565.8,	8.9,	8.9,	1.5);
(413491.8,	3728565.8,	9.3,	9.3,	1.5);	(413511.8,	3728565.8,	9.3,	9.3,	1.5);
(413531.8,	3728565.8,	9.4,	9.4,	1.5);	(413551.8,	3728565.8,	9.2,	9.2,	1.5);
(413571.8,	3728565.8,	9.0,	9.0,	1.5);	(413591.8,	3728565.8,	8.6,	8.6,	1.5);
(413611.8,	3728565.8,	8.6,	8.6,	1.5);	(413631.8,	3728565.8,	8.3,	8.3,	1.5);
(413651.8,	3728565.8,	8.3,	8.3,	1.5);	(413671.8,	3728565.8,	8.7,	8.7,	1.5);
(413691.8,	3728565.8,	9.2,	9.2,	1.5);	(413711.8,	3728565.8,	9.5,	9.5,	1.5);
(414031.8,	3728565.8,	9.5,	9.5,	1.5);	(414051.8,	3728565.8,	9.7,	9.7,	1.5);
(414071.8,	3728565.8,	9.8,	9.8,	1.5);	(414091.8,	3728565.8,	9.6,	9.6,	1.5);
(414111.8,	3728565.8,	9.4,	9.4,	1.5);	(414131.8,	3728565.8,	9.3,	9.3,	1.5);
(414151.8,	3728565.8,	9.4,	9.4,	1.5);	(414171.8,	3728565.8,	9.7,	9.7,	1.5);
(414191.8,	3728565.8,	9.9,	9.9,	1.5);	(414211.8,	3728565.8,	10.0,	10.0,	1.5);
(414231.8,	3728565.8,	10.0,	10.0,	1.5);	(414251.8,	3728565.8,	9.8,	9.8,	1.5);
(414271.8,	3728565.8,	9.4,	9.4,	1.5);	(414311.8,	3728565.8,	8.3,	8.3,	1.5);
(414331.8,	3728565.8,	8.5,	8.5,	1.5);	(414351.8,	3728565.8,	8.7,	8.7,	1.5);
(414371.8,	3728565.8,	8.9,	8.9,	1.5);	(414391.8,	3728565.8,	9.1,	9.1,	1.5);
(414411.8,	3728565.8,	9.2,	9.2,	1.5);	(414431.8,	3728565.8,	8.9,	8.9,	1.5);
(414451.8,	3728565.8,	8.7,	8.7,	1.5);	(414471.8,	3728565.8,	8.5,	8.5,	1.5);
(414491.8,	3728565.8,	8.3,	8.3,	1.5);	(414511.8,	3728565.8,	8.6,	8.6,	1.5);
(414531.8,	3728565.8,	8.8,	8.8,	1.5);	(414551.8,	3728565.8,	8.9,	8.9,	1.5);
(414571.8,	3728565.8,	9.0,	9.0,	1.5);	(414591.8,	3728565.8,	9.1,	9.1,	1.5);
(414611.8,	3728565.8,	9.1,	9.1,	1.5);	(414631.8,	3728565.8,	9.1,	9.1,	1.5);
(414651.8,	3728565.8,	9.2,	9.2,	1.5);	(414671.8,	3728565.8,	9.3,	9.3,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(414691.8, 3728565.8,	9.3,	9.3,	1.5);	(414711.8, 3728565.8,	9.4,	9.4,	1.5);
(414731.8, 3728565.8,	9.4,	9.4,	1.5);	(414751.8, 3728565.8,	9.4,	9.4,	1.5);
(413371.8, 3728585.8,	9.2,	13.7,	1.5);	(413391.8, 3728585.8,	9.3,	9.3,	1.5);
(413411.8, 3728585.8,	9.3,	9.3,	1.5);	(413431.8, 3728585.8,	9.1,	9.1,	1.5);
(413451.8, 3728585.8,	8.7,	8.7,	1.5);	(413471.8, 3728585.8,	8.8,	8.8,	1.5);
(413491.8, 3728585.8,	9.2,	9.2,	1.5);	(413511.8, 3728585.8,	8.8,	8.8,	1.5);
(413531.8, 3728585.8,	8.9,	8.9,	1.5);	(413551.8, 3728585.8,	8.7,	8.7,	1.5);
(413571.8, 3728585.8,	8.4,	8.4,	1.5);	(413591.8, 3728585.8,	8.2,	8.2,	1.5);
(413611.8, 3728585.8,	8.4,	8.4,	1.5);	(413631.8, 3728585.8,	8.5,	12.3,	1.5);
(413651.8, 3728585.8,	8.5,	12.3,	1.5);	(413671.8, 3728585.8,	9.0,	9.0,	1.5);
(414031.8, 3728585.8,	9.5,	9.5,	1.5);	(414051.8, 3728585.8,	9.7,	9.7,	1.5);
(414071.8, 3728585.8,	9.8,	9.8,	1.5);	(414091.8, 3728585.8,	9.6,	9.6,	1.5);
(414111.8, 3728585.8,	9.3,	9.3,	1.5);	(414131.8, 3728585.8,	9.3,	9.3,	1.5);
(414151.8, 3728585.8,	9.5,	9.5,	1.5);	(414171.8, 3728585.8,	9.9,	9.9,	1.5);
(414191.8, 3728585.8,	10.0,	10.0,	1.5);	(414211.8, 3728585.8,	10.0,	10.0,	1.5);
(414231.8, 3728585.8,	10.1,	10.1,	1.5);	(414251.8, 3728585.8,	9.9,	9.9,	1.5);
(414271.8, 3728585.8,	9.5,	9.5,	1.5);	(414311.8, 3728585.8,	8.5,	8.5,	1.5);
(414331.8, 3728585.8,	8.6,	8.6,	1.5);	(414351.8, 3728585.8,	8.8,	8.8,	1.5);
(414371.8, 3728585.8,	9.0,	9.0,	1.5);	(414391.8, 3728585.8,	9.1,	9.1,	1.5);
(414411.8, 3728585.8,	9.3,	9.3,	1.5);	(414431.8, 3728585.8,	9.0,	9.0,	1.5);
(414451.8, 3728585.8,	8.8,	8.8,	1.5);	(414471.8, 3728585.8,	8.5,	8.5,	1.5);
(414491.8, 3728585.8,	8.4,	8.4,	1.5);	(414511.8, 3728585.8,	8.6,	8.6,	1.5);
(414531.8, 3728585.8,	8.8,	8.8,	1.5);	(414551.8, 3728585.8,	8.9,	8.9,	1.5);
(414571.8, 3728585.8,	9.0,	9.0,	1.5);	(414591.8, 3728585.8,	9.1,	9.1,	1.5);
(414611.8, 3728585.8,	9.1,	9.1,	1.5);	(414631.8, 3728585.8,	9.1,	9.1,	1.5);
(414651.8, 3728585.8,	9.2,	9.2,	1.5);	(414671.8, 3728585.8,	9.2,	9.2,	1.5);
(414691.8, 3728585.8,	9.3,	9.3,	1.5);	(414711.8, 3728585.8,	9.4,	9.4,	1.5);
(414731.8, 3728585.8,	9.4,	9.4,	1.5);	(414751.8, 3728585.8,	9.3,	9.3,	1.5);
(413391.8, 3728605.8,	9.1,	13.7,	1.5);	(413411.8, 3728605.8,	9.1,	9.1,	1.5);
(413431.8, 3728605.8,	9.0,	9.0,	1.5);	(413451.8, 3728605.8,	8.6,	8.6,	1.5);
(413471.8, 3728605.8,	8.7,	8.7,	1.5);	(413491.8, 3728605.8,	8.9,	8.9,	1.5);
(413511.8, 3728605.8,	8.5,	8.5,	1.5);	(413531.8, 3728605.8,	8.5,	8.5,	1.5);
(413551.8, 3728605.8,	8.5,	8.5,	1.5);	(413571.8, 3728605.8,	8.5,	13.5,	1.5);
(413591.8, 3728605.8,	8.5,	13.5,	1.5);	(413611.8, 3728605.8,	8.9,	12.3,	1.5);
(413631.8, 3728605.8,	10.0,	12.3,	1.5);	(414031.8, 3728605.8,	9.7,	9.7,	1.5);
(414051.8, 3728605.8,	9.7,	9.7,	1.5);	(414071.8, 3728605.8,	9.7,	9.7,	1.5);
(414091.8, 3728605.8,	9.4,	9.4,	1.5);	(414111.8, 3728605.8,	9.1,	9.1,	1.5);
(414131.8, 3728605.8,	9.2,	9.2,	1.5);	(414151.8, 3728605.8,	9.5,	9.5,	1.5);
(414171.8, 3728605.8,	9.9,	9.9,	1.5);	(414191.8, 3728605.8,	10.0,	10.0,	1.5);
(414211.8, 3728605.8,	10.0,	10.0,	1.5);	(414231.8, 3728605.8,	10.1,	10.1,	1.5);
(414251.8, 3728605.8,	9.8,	9.8,	1.5);	(414271.8, 3728605.8,	9.4,	9.4,	1.5);
(414311.8, 3728605.8,	8.8,	8.8,	1.5);	(414331.8, 3728605.8,	8.8,	8.8,	1.5);
(414351.8, 3728605.8,	8.9,	8.9,	1.5);	(414371.8, 3728605.8,	9.0,	9.0,	1.5);
(414391.8, 3728605.8,	9.2,	9.2,	1.5);	(414411.8, 3728605.8,	9.4,	9.4,	1.5);
(414431.8, 3728605.8,	9.1,	9.1,	1.5);	(414451.8, 3728605.8,	8.9,	8.9,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(414471.8,	3728605.8,	8.7,	8.7,	1.5);	(414491.8,	3728605.8,	8.5,	8.5,	1.5);
(414511.8,	3728605.8,	8.7,	8.7,	1.5);	(414531.8,	3728605.8,	8.9,	8.9,	1.5);
(414551.8,	3728605.8,	9.0,	9.0,	1.5);	(414571.8,	3728605.8,	9.1,	9.1,	1.5);
(414591.8,	3728605.8,	9.1,	9.1,	1.5);	(414611.8,	3728605.8,	9.2,	9.2,	1.5);
(414631.8,	3728605.8,	9.2,	9.2,	1.5);	(414651.8,	3728605.8,	9.3,	9.3,	1.5);
(414671.8,	3728605.8,	9.4,	9.4,	1.5);	(414691.8,	3728605.8,	9.5,	9.5,	1.5);
(414711.8,	3728605.8,	9.5,	9.5,	1.5);	(414731.8,	3728605.8,	9.5,	9.5,	1.5);
(414751.8,	3728605.8,	9.4,	9.4,	1.5);	(413391.8,	3728625.8,	9.0,	13.7,	1.5);
(413411.8,	3728625.8,	8.7,	8.7,	1.5);	(413431.8,	3728625.8,	8.9,	8.9,	1.5);
(413451.8,	3728625.8,	8.6,	8.6,	1.5);	(413471.8,	3728625.8,	8.5,	8.5,	1.5);
(413491.8,	3728625.8,	8.6,	8.6,	1.5);	(413511.8,	3728625.8,	8.3,	14.5,	1.5);
(413531.8,	3728625.8,	8.3,	14.5,	1.5);	(413551.8,	3728625.8,	8.8,	13.5,	1.5);
(413571.8,	3728625.8,	9.3,	13.5,	1.5);	(413591.8,	3728625.8,	9.4,	13.5,	1.5);
(414031.8,	3728625.8,	9.8,	9.8,	1.5);	(414051.8,	3728625.8,	9.8,	9.8,	1.5);
(414071.8,	3728625.8,	9.5,	9.5,	1.5);	(414091.8,	3728625.8,	9.2,	9.2,	1.5);
(414111.8,	3728625.8,	9.0,	9.0,	1.5);	(414131.8,	3728625.8,	9.1,	9.1,	1.5);
(414151.8,	3728625.8,	9.5,	9.5,	1.5);	(414171.8,	3728625.8,	9.9,	9.9,	1.5);
(414191.8,	3728625.8,	10.0,	10.0,	1.5);	(414211.8,	3728625.8,	10.0,	10.0,	1.5);
(414231.8,	3728625.8,	10.1,	10.1,	1.5);	(414251.8,	3728625.8,	9.7,	9.7,	1.5);
(414271.8,	3728625.8,	9.4,	9.4,	1.5);	(414311.8,	3728625.8,	9.2,	9.2,	1.5);
(414331.8,	3728625.8,	9.1,	9.1,	1.5);	(414351.8,	3728625.8,	9.2,	9.2,	1.5);
(414371.8,	3728625.8,	9.2,	9.2,	1.5);	(414391.8,	3728625.8,	9.3,	9.3,	1.5);
(414411.8,	3728625.8,	9.4,	9.4,	1.5);	(414431.8,	3728625.8,	9.2,	9.2,	1.5);
(414451.8,	3728625.8,	9.0,	9.0,	1.5);	(414471.8,	3728625.8,	8.9,	8.9,	1.5);
(414491.8,	3728625.8,	8.8,	8.8,	1.5);	(414511.8,	3728625.8,	8.9,	8.9,	1.5);
(414531.8,	3728625.8,	9.1,	9.1,	1.5);	(414551.8,	3728625.8,	9.4,	9.4,	1.5);
(414571.8,	3728625.8,	9.5,	9.5,	1.5);	(414591.8,	3728625.8,	9.6,	9.6,	1.5);
(414611.8,	3728625.8,	9.7,	9.7,	1.5);	(414631.8,	3728625.8,	9.7,	9.7,	1.5);
(414651.8,	3728625.8,	9.7,	9.7,	1.5);	(414671.8,	3728625.8,	9.8,	9.8,	1.5);
(414691.8,	3728625.8,	9.9,	9.9,	1.5);	(414711.8,	3728625.8,	9.9,	9.9,	1.5);
(414731.8,	3728625.8,	9.8,	9.8,	1.5);	(414751.8,	3728625.8,	9.6,	9.6,	1.5);
(413411.8,	3728645.8,	8.7,	11.7,	1.5);	(413431.8,	3728645.8,	8.7,	8.7,	1.5);
(413451.8,	3728645.8,	8.7,	8.7,	1.5);	(413471.8,	3728645.8,	8.7,	14.5,	1.5);
(413491.8,	3728645.8,	8.7,	14.5,	1.5);	(413511.8,	3728645.8,	8.6,	14.5,	1.5);
(413531.8,	3728645.8,	8.9,	14.5,	1.5);	(413551.8,	3728645.8,	10.4,	14.5,	1.5);
(414031.8,	3728645.8,	9.8,	9.8,	1.5);	(414051.8,	3728645.8,	9.8,	9.8,	1.5);
(414071.8,	3728645.8,	9.4,	9.4,	1.5);	(414091.8,	3728645.8,	9.1,	9.1,	1.5);
(414111.8,	3728645.8,	9.0,	9.0,	1.5);	(414131.8,	3728645.8,	9.2,	9.2,	1.5);
(414151.8,	3728645.8,	9.5,	9.5,	1.5);	(414171.8,	3728645.8,	9.8,	9.8,	1.5);
(414191.8,	3728645.8,	10.0,	10.0,	1.5);	(414211.8,	3728645.8,	10.1,	10.1,	1.5);
(414231.8,	3728645.8,	10.1,	10.1,	1.5);	(414251.8,	3728645.8,	9.7,	9.7,	1.5);
(414271.8,	3728645.8,	9.4,	9.4,	1.5);	(414311.8,	3728645.8,	9.7,	9.7,	1.5);
(414331.8,	3728645.8,	9.7,	9.7,	1.5);	(414351.8,	3728645.8,	9.5,	9.5,	1.5);
(414371.8,	3728645.8,	9.4,	9.4,	1.5);	(414391.8,	3728645.8,	9.4,	9.4,	1.5);
(414411.8,	3728645.8,	9.2,	9.2,	1.5);	(414431.8,	3728645.8,	9.3,	9.3,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	414451.8,	3728645.8,	9.2,	9.2,	1.5);	(414471.8,	3728645.8,	9.1,	9.1,	1.5);
(	414491.8,	3728645.8,	9.2,	9.2,	1.5);	(414511.8,	3728645.8,	9.1,	9.1,	1.5);
(	414531.8,	3728645.8,	9.4,	9.4,	1.5);	(414551.8,	3728645.8,	9.8,	9.8,	1.5);
(	414571.8,	3728645.8,	10.1,	10.1,	1.5);	(414591.8,	3728645.8,	10.2,	10.2,	1.5);
(	414611.8,	3728645.8,	10.3,	10.3,	1.5);	(414631.8,	3728645.8,	10.3,	10.3,	1.5);
(	414651.8,	3728645.8,	10.2,	10.2,	1.5);	(414671.8,	3728645.8,	10.3,	10.3,	1.5);
(	414691.8,	3728645.8,	10.3,	10.3,	1.5);	(414711.8,	3728645.8,	10.3,	10.3,	1.5);
(	414731.8,	3728645.8,	10.1,	10.1,	1.5);	(414751.8,	3728645.8,	9.7,	9.7,	1.5);
(	413411.8,	3728665.8,	8.8,	13.4,	1.5);	(413431.8,	3728665.8,	8.8,	15.4,	1.5);
(	413451.8,	3728665.8,	9.0,	15.4,	1.5);	(413471.8,	3728665.8,	9.2,	15.4,	1.5);
(	413491.8,	3728665.8,	9.8,	15.4,	1.5);	(413511.8,	3728665.8,	11.1,	14.5,	1.5);
(	414031.8,	3728665.8,	9.8,	9.8,	1.5);	(414051.8,	3728665.8,	9.8,	9.8,	1.5);
(	414071.8,	3728665.8,	9.4,	9.4,	1.5);	(414091.8,	3728665.8,	9.1,	9.1,	1.5);
(	414111.8,	3728665.8,	9.0,	9.0,	1.5);	(414131.8,	3728665.8,	9.3,	9.3,	1.5);
(	414151.8,	3728665.8,	9.8,	9.8,	1.5);	(414171.8,	3728665.8,	10.0,	10.0,	1.5);
(	414191.8,	3728665.8,	10.0,	10.0,	1.5);	(414211.8,	3728665.8,	10.0,	10.0,	1.5);
(	414231.8,	3728665.8,	10.1,	10.1,	1.5);	(414251.8,	3728665.8,	9.8,	9.8,	1.5);
(	414271.8,	3728665.8,	9.5,	9.5,	1.5);	(414311.8,	3728665.8,	9.5,	9.5,	1.5);
(	414331.8,	3728665.8,	9.6,	9.6,	1.5);	(414351.8,	3728665.8,	9.4,	9.4,	1.5);
(	414371.8,	3728665.8,	9.2,	9.2,	1.5);	(414391.8,	3728665.8,	9.4,	9.4,	1.5);
(	414411.8,	3728665.8,	9.1,	9.1,	1.5);	(414431.8,	3728665.8,	9.3,	9.3,	1.5);
(	414451.8,	3728665.8,	9.1,	9.1,	1.5);	(414471.8,	3728665.8,	8.9,	8.9,	1.5);
(	414491.8,	3728665.8,	8.9,	8.9,	1.5);	(414511.8,	3728665.8,	8.9,	8.9,	1.5);
(	414531.8,	3728665.8,	9.4,	9.4,	1.5);	(414551.8,	3728665.8,	10.0,	10.0,	1.5);
(	414571.8,	3728665.8,	10.3,	10.3,	1.5);	(414591.8,	3728665.8,	10.3,	10.3,	1.5);
(	414611.8,	3728665.8,	10.4,	10.4,	1.5);	(414631.8,	3728665.8,	10.3,	10.3,	1.5);
(	414651.8,	3728665.8,	10.2,	10.2,	1.5);	(414671.8,	3728665.8,	10.3,	10.3,	1.5);
(	414691.8,	3728665.8,	10.2,	10.2,	1.5);	(414711.8,	3728665.8,	10.1,	10.1,	1.5);
(	414731.8,	3728665.8,	9.9,	9.9,	1.5);	(414751.8,	3728665.8,	9.6,	9.6,	1.5);
(	413431.8,	3728685.8,	9.3,	15.9,	1.5);	(413451.8,	3728685.8,	9.6,	15.9,	1.5);
(	413471.8,	3728685.8,	10.2,	15.4,	1.5);	(414031.8,	3728685.8,	9.7,	9.7,	1.5);
(	414051.8,	3728685.8,	9.8,	9.8,	1.5);	(414071.8,	3728685.8,	9.4,	9.4,	1.5);
(	414091.8,	3728685.8,	9.2,	9.2,	1.5);	(414111.8,	3728685.8,	9.1,	9.1,	1.5);
(	414131.8,	3728685.8,	9.3,	9.3,	1.5);	(414151.8,	3728685.8,	9.9,	9.9,	1.5);
(	414171.8,	3728685.8,	10.0,	10.0,	1.5);	(414191.8,	3728685.8,	10.0,	10.0,	1.5);
(	414211.8,	3728685.8,	10.0,	10.0,	1.5);	(414231.8,	3728685.8,	10.0,	10.0,	1.5);
(	414251.8,	3728685.8,	9.8,	9.8,	1.5);	(414271.8,	3728685.8,	9.5,	9.5,	1.5);
(	414311.8,	3728685.8,	9.4,	9.4,	1.5);	(414331.8,	3728685.8,	9.7,	9.7,	1.5);
(	414351.8,	3728685.8,	9.4,	9.4,	1.5);	(414371.8,	3728685.8,	9.3,	9.3,	1.5);
(	414391.8,	3728685.8,	9.4,	9.4,	1.5);	(414411.8,	3728685.8,	9.3,	9.3,	1.5);
(	414431.8,	3728685.8,	9.3,	9.3,	1.5);	(414451.8,	3728685.8,	9.1,	9.1,	1.5);
(	414471.8,	3728685.8,	8.8,	8.8,	1.5);	(414491.8,	3728685.8,	9.0,	9.0,	1.5);
(	414511.8,	3728685.8,	9.1,	9.1,	1.5);	(414531.8,	3728685.8,	9.6,	9.6,	1.5);
(	414551.8,	3728685.8,	10.0,	10.0,	1.5);	(414571.8,	3728685.8,	10.3,	10.3,	1.5);
(	414591.8,	3728685.8,	10.4,	10.4,	1.5);	(414611.8,	3728685.8,	10.4,	10.4,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	414631.8,	3728685.8,	10.3,	10.3,	1.5);	(	414651.8,	3728685.8,	10.2,	10.2,	1.5);
(	414671.8,	3728685.8,	10.2,	10.2,	1.5);	(	414691.8,	3728685.8,	10.3,	10.3,	1.5);
(	414711.8,	3728685.8,	10.1,	10.1,	1.5);	(	414731.8,	3728685.8,	9.9,	9.9,	1.5);
(	414751.8,	3728685.8,	9.7,	9.7,	1.5);	(	413431.8,	3728705.8,	11.8,	15.9,	1.5);
(	414031.8,	3728705.8,	9.7,	9.7,	1.5);	(	414051.8,	3728705.8,	9.8,	9.8,	1.5);
(	414071.8,	3728705.8,	9.5,	9.5,	1.5);	(	414091.8,	3728705.8,	9.4,	9.4,	1.5);
(	414111.8,	3728705.8,	9.4,	9.4,	1.5);	(	414131.8,	3728705.8,	9.5,	9.5,	1.5);
(	414151.8,	3728705.8,	9.9,	9.9,	1.5);	(	414171.8,	3728705.8,	10.0,	10.0,	1.5);
(	414191.8,	3728705.8,	10.0,	10.0,	1.5);	(	414211.8,	3728705.8,	10.0,	10.0,	1.5);
(	414231.8,	3728705.8,	10.0,	10.0,	1.5);	(	414251.8,	3728705.8,	9.6,	9.6,	1.5);
(	414271.8,	3728705.8,	9.4,	9.4,	1.5);	(	414311.8,	3728705.8,	9.4,	9.4,	1.5);
(	414331.8,	3728705.8,	9.9,	9.9,	1.5);	(	414351.8,	3728705.8,	9.7,	9.7,	1.5);
(	414371.8,	3728705.8,	9.5,	9.5,	1.5);	(	414391.8,	3728705.8,	9.6,	9.6,	1.5);
(	414411.8,	3728705.8,	10.0,	10.0,	1.5);	(	414431.8,	3728705.8,	9.5,	9.5,	1.5);
(	414451.8,	3728705.8,	9.1,	9.1,	1.5);	(	414471.8,	3728705.8,	9.0,	9.0,	1.5);
(	414491.8,	3728705.8,	9.4,	9.4,	1.5);	(	414511.8,	3728705.8,	9.6,	9.6,	1.5);
(	414531.8,	3728705.8,	9.8,	9.8,	1.5);	(	414551.8,	3728705.8,	10.0,	10.0,	1.5);
(	414571.8,	3728705.8,	10.3,	10.3,	1.5);	(	414591.8,	3728705.8,	10.3,	10.3,	1.5);
(	414611.8,	3728705.8,	10.4,	10.4,	1.5);	(	414631.8,	3728705.8,	10.3,	10.3,	1.5);
(	414651.8,	3728705.8,	10.2,	10.2,	1.5);	(	414671.8,	3728705.8,	10.2,	10.2,	1.5);
(	414691.8,	3728705.8,	10.5,	10.5,	1.5);	(	414711.8,	3728705.8,	10.2,	10.2,	1.5);
(	414731.8,	3728705.8,	9.9,	9.9,	1.5);	(	414751.8,	3728705.8,	9.8,	9.8,	1.5);
(	413631.8,	3728725.8,	10.0,	10.0,	1.5);	(	414031.8,	3728725.8,	9.8,	9.8,	1.5);
(	414051.8,	3728725.8,	9.8,	9.8,	1.5);	(	414071.8,	3728725.8,	9.5,	9.5,	1.5);
(	414091.8,	3728725.8,	9.2,	9.2,	1.5);	(	414111.8,	3728725.8,	9.2,	9.2,	1.5);
(	414131.8,	3728725.8,	9.5,	9.5,	1.5);	(	414151.8,	3728725.8,	9.8,	9.8,	1.5);
(	414171.8,	3728725.8,	10.0,	10.0,	1.5);	(	414191.8,	3728725.8,	10.0,	10.0,	1.5);
(	414211.8,	3728725.8,	10.0,	10.0,	1.5);	(	414231.8,	3728725.8,	10.0,	10.0,	1.5);
(	414251.8,	3728725.8,	9.6,	9.6,	1.5);	(	414271.8,	3728725.8,	9.4,	9.4,	1.5);
(	414311.8,	3728725.8,	9.4,	9.4,	1.5);	(	414331.8,	3728725.8,	9.9,	9.9,	1.5);
(	414351.8,	3728725.8,	9.9,	9.9,	1.5);	(	414371.8,	3728725.8,	9.8,	9.8,	1.5);
(	414391.8,	3728725.8,	9.8,	9.8,	1.5);	(	414411.8,	3728725.8,	10.0,	10.0,	1.5);
(	414431.8,	3728725.8,	9.6,	9.6,	1.5);	(	414451.8,	3728725.8,	9.1,	9.1,	1.5);
(	414471.8,	3728725.8,	9.1,	9.1,	1.5);	(	414491.8,	3728725.8,	9.6,	9.6,	1.5);
(	414511.8,	3728725.8,	9.8,	9.8,	1.5);	(	414531.8,	3728725.8,	9.9,	9.9,	1.5);
(	414551.8,	3728725.8,	10.0,	10.0,	1.5);	(	414571.8,	3728725.8,	10.3,	10.3,	1.5);
(	414591.8,	3728725.8,	10.3,	10.3,	1.5);	(	414611.8,	3728725.8,	10.4,	10.4,	1.5);
(	414631.8,	3728725.8,	10.3,	10.3,	1.5);	(	414651.8,	3728725.8,	10.2,	10.2,	1.5);
(	414671.8,	3728725.8,	10.2,	10.2,	1.5);	(	414691.8,	3728725.8,	10.3,	10.3,	1.5);
(	414711.8,	3728725.8,	10.1,	10.1,	1.5);	(	414731.8,	3728725.8,	9.9,	9.9,	1.5);
(	414751.8,	3728725.8,	9.8,	9.8,	1.5);	(	413591.8,	3728745.8,	10.0,	14.3,	1.5);
(	413611.8,	3728745.8,	10.3,	10.3,	1.5);	(	413631.8,	3728745.8,	10.4,	10.4,	1.5);
(	413651.8,	3728745.8,	10.2,	10.2,	1.5);	(	414031.8,	3728745.8,	9.8,	9.8,	1.5);
(	414051.8,	3728745.8,	9.8,	9.8,	1.5);	(	414071.8,	3728745.8,	9.4,	9.4,	1.5);
(	414091.8,	3728745.8,	9.1,	9.1,	1.5);	(	414111.8,	3728745.8,	9.1,	9.1,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	414131.8,	3728745.8,	9.5,	9.5,	1.5);	(414151.8,	3728745.8,	9.6,	9.6,	1.5);
(	414171.8,	3728745.8,	9.9,	9.9,	1.5);	(414191.8,	3728745.8,	10.0,	10.0,	1.5);
(	414211.8,	3728745.8,	9.9,	9.9,	1.5);	(414231.8,	3728745.8,	9.9,	9.9,	1.5);
(	414251.8,	3728745.8,	9.6,	9.6,	1.5);	(414271.8,	3728745.8,	9.4,	9.4,	1.5);
(	414311.8,	3728745.8,	9.5,	9.5,	1.5);	(414331.8,	3728745.8,	9.8,	9.8,	1.5);
(	414351.8,	3728745.8,	9.8,	9.8,	1.5);	(414371.8,	3728745.8,	9.8,	9.8,	1.5);
(	414391.8,	3728745.8,	9.8,	9.8,	1.5);	(414411.8,	3728745.8,	9.8,	9.8,	1.5);
(	414431.8,	3728745.8,	9.4,	9.4,	1.5);	(414451.8,	3728745.8,	9.1,	9.1,	1.5);
(	414471.8,	3728745.8,	9.1,	9.1,	1.5);	(414491.8,	3728745.8,	9.6,	9.6,	1.5);
(	414511.8,	3728745.8,	9.8,	9.8,	1.5);	(414531.8,	3728745.8,	9.9,	9.9,	1.5);
(	414551.8,	3728745.8,	10.0,	10.0,	1.5);	(414571.8,	3728745.8,	10.2,	10.2,	1.5);
(	414591.8,	3728745.8,	10.2,	10.2,	1.5);	(414611.8,	3728745.8,	10.3,	10.3,	1.5);
(	414631.8,	3728745.8,	10.3,	10.3,	1.5);	(414651.8,	3728745.8,	10.2,	10.2,	1.5);
(	414671.8,	3728745.8,	10.1,	10.1,	1.5);	(414691.8,	3728745.8,	10.1,	10.1,	1.5);
(	414711.8,	3728745.8,	10.0,	10.0,	1.5);	(414731.8,	3728745.8,	9.9,	9.9,	1.5);
(	414751.8,	3728745.8,	9.7,	9.7,	1.5);	(413551.8,	3728765.8,	10.1,	15.0,	1.5);
(	413571.8,	3728765.8,	10.3,	10.3,	1.5);	(413591.8,	3728765.8,	10.2,	10.2,	1.5);
(	413611.8,	3728765.8,	10.4,	10.4,	1.5);	(413631.8,	3728765.8,	10.4,	10.4,	1.5);
(	413651.8,	3728765.8,	10.3,	10.3,	1.5);	(414031.8,	3728765.8,	9.6,	9.6,	1.5);
(	414051.8,	3728765.8,	9.7,	9.7,	1.5);	(414071.8,	3728765.8,	9.5,	9.5,	1.5);
(	414091.8,	3728765.8,	9.4,	9.4,	1.5);	(414111.8,	3728765.8,	9.4,	9.4,	1.5);
(	414131.8,	3728765.8,	9.7,	9.7,	1.5);	(414151.8,	3728765.8,	9.7,	9.7,	1.5);
(	414171.8,	3728765.8,	9.8,	9.8,	1.5);	(414191.8,	3728765.8,	9.8,	9.8,	1.5);
(	414211.8,	3728765.8,	9.8,	9.8,	1.5);	(414231.8,	3728765.8,	9.5,	9.5,	1.5);
(	414251.8,	3728765.8,	9.4,	9.4,	1.5);	(414271.8,	3728765.8,	9.4,	9.4,	1.5);
(	414311.8,	3728765.8,	9.5,	9.5,	1.5);	(414331.8,	3728765.8,	9.4,	9.4,	1.5);
(	414351.8,	3728765.8,	9.4,	9.4,	1.5);	(414371.8,	3728765.8,	9.4,	9.4,	1.5);
(	414391.8,	3728765.8,	9.3,	9.3,	1.5);	(414411.8,	3728765.8,	9.3,	9.3,	1.5);
(	414431.8,	3728765.8,	9.2,	9.2,	1.5);	(414451.8,	3728765.8,	9.1,	9.1,	1.5);
(	414471.8,	3728765.8,	9.2,	9.2,	1.5);	(414491.8,	3728765.8,	9.3,	9.3,	1.5);
(	414511.8,	3728765.8,	9.8,	9.8,	1.5);	(414531.8,	3728765.8,	9.8,	9.8,	1.5);
(	414551.8,	3728765.8,	9.8,	9.8,	1.5);	(414571.8,	3728765.8,	10.0,	10.0,	1.5);
(	414591.8,	3728765.8,	10.0,	10.0,	1.5);	(414611.8,	3728765.8,	10.2,	10.2,	1.5);
(	414631.8,	3728765.8,	10.2,	10.2,	1.5);	(414651.8,	3728765.8,	10.0,	10.0,	1.5);
(	414671.8,	3728765.8,	10.0,	10.0,	1.5);	(414691.8,	3728765.8,	10.0,	10.0,	1.5);
(	414711.8,	3728765.8,	9.9,	9.9,	1.5);	(414731.8,	3728765.8,	9.8,	9.8,	1.5);
(	414751.8,	3728765.8,	9.7,	9.7,	1.5);	(413511.8,	3728785.8,	9.8,	15.5,	1.5);
(	413531.8,	3728785.8,	10.1,	15.0,	1.5);	(413551.8,	3728785.8,	10.2,	10.2,	1.5);
(	413571.8,	3728785.8,	10.1,	10.1,	1.5);	(413591.8,	3728785.8,	10.0,	10.0,	1.5);
(	413611.8,	3728785.8,	10.1,	10.1,	1.5);	(413631.8,	3728785.8,	10.1,	10.1,	1.5);
(	413651.8,	3728785.8,	10.0,	10.0,	1.5);	(413671.8,	3728785.8,	9.9,	9.9,	1.5);
(	413531.8,	3728805.8,	10.0,	10.0,	1.5);	(413551.8,	3728805.8,	9.8,	9.8,	1.5);
(	413571.8,	3728805.8,	9.5,	9.5,	1.5);	(413591.8,	3728805.8,	9.5,	9.5,	1.5);
(	413611.8,	3728805.8,	9.7,	9.7,	1.5);	(413631.8,	3728805.8,	9.6,	9.6,	1.5);
(	413651.8,	3728805.8,	9.5,	9.5,	1.5);	(413671.8,	3728805.8,	9.5,	9.5,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	413691.8,	3728805.8,	9.2,	9.2,	1.5);	(413771.8,	3728805.8,	9.4,	9.4,	1.5);
(	413791.8,	3728805.8,	9.4,	9.4,	1.5);	(413811.8,	3728805.8,	9.5,	9.5,	1.5);
(	413831.8,	3728805.8,	9.4,	9.4,	1.5);	(413851.8,	3728805.8,	9.3,	9.3,	1.5);
(	413871.8,	3728805.8,	9.3,	9.3,	1.5);	(413891.8,	3728805.8,	9.4,	9.4,	1.5);
(	413911.8,	3728805.8,	9.4,	9.4,	1.5);	(413931.8,	3728805.8,	9.4,	9.4,	1.5);
(	413951.8,	3728805.8,	9.4,	9.4,	1.5);	(413971.8,	3728805.8,	9.6,	9.6,	1.5);
(	413991.8,	3728805.8,	9.9,	9.9,	1.5);	(414011.8,	3728805.8,	10.0,	10.0,	1.5);
(	414031.8,	3728805.8,	10.0,	10.0,	1.5);	(414051.8,	3728805.8,	10.0,	10.0,	1.5);
(	414071.8,	3728805.8,	9.9,	9.9,	1.5);	(414091.8,	3728805.8,	9.8,	9.8,	1.5);
(	414111.8,	3728805.8,	9.8,	9.8,	1.5);	(414131.8,	3728805.8,	9.6,	9.6,	1.5);
(	414151.8,	3728805.8,	9.6,	9.6,	1.5);	(414171.8,	3728805.8,	9.6,	9.6,	1.5);
(	414191.8,	3728805.8,	9.6,	9.6,	1.5);	(414211.8,	3728805.8,	9.6,	9.6,	1.5);
(	414231.8,	3728805.8,	9.6,	9.6,	1.5);	(414251.8,	3728805.8,	9.5,	9.5,	1.5);
(	414291.8,	3728805.8,	9.2,	9.2,	1.5);	(414311.8,	3728805.8,	9.5,	9.5,	1.5);
(	414331.8,	3728805.8,	9.6,	9.6,	1.5);	(414351.8,	3728805.8,	9.6,	9.6,	1.5);
(	414371.8,	3728805.8,	9.5,	9.5,	1.5);	(414391.8,	3728805.8,	9.4,	9.4,	1.5);
(	414411.8,	3728805.8,	9.5,	9.5,	1.5);	(414431.8,	3728805.8,	9.5,	9.5,	1.5);
(	414451.8,	3728805.8,	9.7,	9.7,	1.5);	(414471.8,	3728805.8,	9.7,	9.7,	1.5);
(	414491.8,	3728805.8,	9.5,	9.5,	1.5);	(414511.8,	3728805.8,	9.4,	9.4,	1.5);
(	414531.8,	3728805.8,	9.4,	9.4,	1.5);	(414551.8,	3728805.8,	9.5,	9.5,	1.5);
(	414571.8,	3728805.8,	9.7,	9.7,	1.5);	(414591.8,	3728805.8,	9.6,	9.6,	1.5);
(	414611.8,	3728805.8,	9.6,	9.6,	1.5);	(414631.8,	3728805.8,	9.7,	9.7,	1.5);
(	414651.8,	3728805.8,	9.8,	9.8,	1.5);	(414671.8,	3728805.8,	9.7,	9.7,	1.5);
(	414691.8,	3728805.8,	9.9,	9.9,	1.5);	(414711.8,	3728805.8,	10.0,	10.0,	1.5);
(	414731.8,	3728805.8,	10.0,	10.0,	1.5);	(414751.8,	3728805.8,	9.9,	9.9,	1.5);
(	413531.8,	3728825.8,	9.8,	9.8,	1.5);	(413551.8,	3728825.8,	10.0,	10.0,	1.5);
(	413571.8,	3728825.8,	10.0,	10.0,	1.5);	(413591.8,	3728825.8,	10.0,	10.0,	1.5);
(	413611.8,	3728825.8,	9.9,	9.9,	1.5);	(413631.8,	3728825.8,	9.9,	9.9,	1.5);
(	413651.8,	3728825.8,	9.9,	9.9,	1.5);	(413671.8,	3728825.8,	9.8,	9.8,	1.5);
(	413691.8,	3728825.8,	9.4,	9.4,	1.5);	(413711.8,	3728825.8,	9.6,	9.6,	1.5);
(	413731.8,	3728825.8,	9.2,	9.2,	1.5);	(413771.8,	3728825.8,	10.0,	10.0,	1.5);
(	413791.8,	3728825.8,	10.0,	10.0,	1.5);	(413811.8,	3728825.8,	9.9,	9.9,	1.5);
(	413831.8,	3728825.8,	9.7,	9.7,	1.5);	(413851.8,	3728825.8,	9.2,	9.2,	1.5);
(	413871.8,	3728825.8,	9.1,	9.1,	1.5);	(413891.8,	3728825.8,	9.4,	9.4,	1.5);
(	413911.8,	3728825.8,	9.5,	9.5,	1.5);	(413931.8,	3728825.8,	9.5,	9.5,	1.5);
(	413951.8,	3728825.8,	9.5,	9.5,	1.5);	(413971.8,	3728825.8,	9.5,	9.5,	1.5);
(	413991.8,	3728825.8,	9.9,	9.9,	1.5);	(414011.8,	3728825.8,	10.2,	10.2,	1.5);
(	414031.8,	3728825.8,	10.1,	10.1,	1.5);	(414051.8,	3728825.8,	10.1,	10.1,	1.5);
(	414071.8,	3728825.8,	10.1,	10.1,	1.5);	(414091.8,	3728825.8,	10.1,	10.1,	1.5);
(	414111.8,	3728825.8,	10.0,	10.0,	1.5);	(414131.8,	3728825.8,	9.5,	9.5,	1.5);
(	414151.8,	3728825.8,	9.8,	9.8,	1.5);	(414171.8,	3728825.8,	9.8,	9.8,	1.5);
(	414191.8,	3728825.8,	9.9,	9.9,	1.5);	(414211.8,	3728825.8,	10.3,	10.3,	1.5);
(	414231.8,	3728825.8,	10.6,	10.6,	1.5);	(414251.8,	3728825.8,	10.2,	10.2,	1.5);
(	414291.8,	3728825.8,	9.3,	9.3,	1.5);	(414311.8,	3728825.8,	10.0,	10.0,	1.5);
(	414331.8,	3728825.8,	10.2,	10.2,	1.5);	(414351.8,	3728825.8,	10.3,	10.3,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(414371.8, 3728825.8,	10.1,	10.1,	1.5);	(414391.8, 3728825.8,	9.8,	9.8,	1.5);
(414411.8, 3728825.8,	10.0,	10.0,	1.5);	(414431.8, 3728825.8,	10.1,	10.1,	1.5);
(414451.8, 3728825.8,	10.4,	10.4,	1.5);	(414471.8, 3728825.8,	10.6,	10.6,	1.5);
(414491.8, 3728825.8,	10.0,	10.0,	1.5);	(414511.8, 3728825.8,	9.7,	9.7,	1.5);
(414531.8, 3728825.8,	9.6,	9.6,	1.5);	(414551.8, 3728825.8,	9.8,	9.8,	1.5);
(414571.8, 3728825.8,	10.2,	10.2,	1.5);	(414591.8, 3728825.8,	10.1,	10.1,	1.5);
(414611.8, 3728825.8,	10.0,	10.0,	1.5);	(414631.8, 3728825.8,	10.1,	10.1,	1.5);
(414651.8, 3728825.8,	10.2,	10.2,	1.5);	(414671.8, 3728825.8,	10.1,	10.1,	1.5);
(414691.8, 3728825.8,	10.7,	10.7,	1.5);	(414711.8, 3728825.8,	10.9,	10.9,	1.5);
(414731.8, 3728825.8,	10.9,	10.9,	1.5);	(414751.8, 3728825.8,	10.8,	10.8,	1.5);
(413551.8, 3728845.8,	9.9,	9.9,	1.5);	(413571.8, 3728845.8,	10.2,	10.2,	1.5);
(413591.8, 3728845.8,	10.3,	10.3,	1.5);	(413611.8, 3728845.8,	10.0,	10.0,	1.5);
(413631.8, 3728845.8,	10.0,	10.0,	1.5);	(413651.8, 3728845.8,	10.0,	10.0,	1.5);
(413671.8, 3728845.8,	10.0,	10.0,	1.5);	(413691.8, 3728845.8,	9.4,	9.4,	1.5);
(413711.8, 3728845.8,	9.9,	9.9,	1.5);	(413731.8, 3728845.8,	9.5,	9.5,	1.5);
(413771.8, 3728845.8,	10.2,	10.2,	1.5);	(413791.8, 3728845.8,	10.2,	10.2,	1.5);
(413811.8, 3728845.8,	10.1,	10.1,	1.5);	(413831.8, 3728845.8,	9.8,	9.8,	1.5);
(413851.8, 3728845.8,	9.3,	9.3,	1.5);	(413871.8, 3728845.8,	9.4,	9.4,	1.5);
(413891.8, 3728845.8,	9.4,	9.4,	1.5);	(413911.8, 3728845.8,	9.5,	9.5,	1.5);
(413931.8, 3728845.8,	9.5,	9.5,	1.5);	(413951.8, 3728845.8,	9.2,	9.2,	1.5);
(413971.8, 3728845.8,	9.4,	9.4,	1.5);	(413991.8, 3728845.8,	9.9,	9.9,	1.5);
(414011.8, 3728845.8,	10.2,	10.2,	1.5);	(414031.8, 3728845.8,	10.2,	10.2,	1.5);
(414051.8, 3728845.8,	10.2,	10.2,	1.5);	(414071.8, 3728845.8,	10.2,	10.2,	1.5);
(414091.8, 3728845.8,	10.3,	10.3,	1.5);	(414111.8, 3728845.8,	10.1,	10.1,	1.5);
(414131.8, 3728845.8,	9.5,	9.5,	1.5);	(414151.8, 3728845.8,	10.0,	10.0,	1.5);
(414171.8, 3728845.8,	10.2,	10.2,	1.5);	(414191.8, 3728845.8,	10.2,	10.2,	1.5);
(414211.8, 3728845.8,	10.3,	10.3,	1.5);	(414231.8, 3728845.8,	10.5,	10.5,	1.5);
(414251.8, 3728845.8,	10.0,	10.0,	1.5);	(414291.8, 3728845.8,	9.7,	9.7,	1.5);
(414311.8, 3728845.8,	10.3,	10.3,	1.5);	(414331.8, 3728845.8,	10.5,	10.5,	1.5);
(414351.8, 3728845.8,	10.5,	10.5,	1.5);	(414371.8, 3728845.8,	10.2,	10.2,	1.5);
(414391.8, 3728845.8,	9.9,	9.9,	1.5);	(414411.8, 3728845.8,	10.1,	10.1,	1.5);
(414431.8, 3728845.8,	10.2,	10.2,	1.5);	(414451.8, 3728845.8,	10.3,	10.3,	1.5);
(414471.8, 3728845.8,	10.4,	10.4,	1.5);	(414491.8, 3728845.8,	9.9,	9.9,	1.5);
(414511.8, 3728845.8,	9.7,	9.7,	1.5);	(414531.8, 3728845.8,	9.6,	9.6,	1.5);
(414551.8, 3728845.8,	9.9,	9.9,	1.5);	(414571.8, 3728845.8,	10.6,	10.6,	1.5);
(414591.8, 3728845.8,	10.4,	10.4,	1.5);	(414611.8, 3728845.8,	10.2,	10.2,	1.5);
(414631.8, 3728845.8,	10.3,	10.3,	1.5);	(414651.8, 3728845.8,	10.4,	10.4,	1.5);
(414671.8, 3728845.8,	10.3,	10.3,	1.5);	(414691.8, 3728845.8,	10.9,	10.9,	1.5);
(414711.8, 3728845.8,	11.0,	11.0,	1.5);	(414731.8, 3728845.8,	11.0,	11.0,	1.5);
(414751.8, 3728845.8,	10.8,	10.8,	1.5);	(413551.8, 3728865.8,	9.6,	9.6,	1.5);
(413571.8, 3728865.8,	10.1,	10.1,	1.5);	(413591.8, 3728865.8,	10.2,	10.2,	1.5);
(413611.8, 3728865.8,	10.2,	10.2,	1.5);	(413631.8, 3728865.8,	9.8,	9.8,	1.5);
(413651.8, 3728865.8,	9.7,	9.7,	1.5);	(413671.8, 3728865.8,	9.9,	9.9,	1.5);
(413691.8, 3728865.8,	9.4,	9.4,	1.5);	(413711.8, 3728865.8,	9.9,	9.9,	1.5);
(413731.8, 3728865.8,	9.5,	9.5,	1.5);	(413771.8, 3728865.8,	9.9,	9.9,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	413791.8,	3728865.8,	10.0,	10.0,	1.5);	(413811.8,	3728865.8,	10.0,	10.0,	1.5);
(	413831.8,	3728865.8,	9.8,	9.8,	1.5);	(413851.8,	3728865.8,	9.5,	9.5,	1.5);
(	413871.8,	3728865.8,	9.8,	9.8,	1.5);	(413891.8,	3728865.8,	9.4,	9.4,	1.5);
(	413911.8,	3728865.8,	9.3,	9.3,	1.5);	(413931.8,	3728865.8,	9.3,	9.3,	1.5);
(	413951.8,	3728865.8,	8.6,	8.6,	1.5);	(413971.8,	3728865.8,	9.2,	9.2,	1.5);
(	413991.8,	3728865.8,	9.9,	9.9,	1.5);	(414011.8,	3728865.8,	10.2,	10.2,	1.5);
(	414031.8,	3728865.8,	10.2,	10.2,	1.5);	(414051.8,	3728865.8,	10.2,	10.2,	1.5);
(	414071.8,	3728865.8,	10.2,	10.2,	1.5);	(414091.8,	3728865.8,	10.3,	10.3,	1.5);
(	414111.8,	3728865.8,	10.1,	10.1,	1.5);	(414131.8,	3728865.8,	9.5,	9.5,	1.5);
(	414151.8,	3728865.8,	10.2,	10.2,	1.5);	(414171.8,	3728865.8,	10.5,	10.5,	1.5);
(	414191.8,	3728865.8,	10.4,	10.4,	1.5);	(414211.8,	3728865.8,	10.2,	10.2,	1.5);
(	414231.8,	3728865.8,	10.1,	10.1,	1.5);	(414251.8,	3728865.8,	9.6,	9.6,	1.5);
(	414291.8,	3728865.8,	10.1,	10.1,	1.5);	(414311.8,	3728865.8,	10.5,	10.5,	1.5);
(	414331.8,	3728865.8,	10.5,	10.5,	1.5);	(414351.8,	3728865.8,	10.4,	10.4,	1.5);
(	414371.8,	3728865.8,	10.2,	10.2,	1.5);	(414391.8,	3728865.8,	9.9,	9.9,	1.5);
(	414411.8,	3728865.8,	10.2,	10.2,	1.5);	(414431.8,	3728865.8,	10.2,	10.2,	1.5);
(	414451.8,	3728865.8,	10.2,	10.2,	1.5);	(414471.8,	3728865.8,	10.0,	10.0,	1.5);
(	414491.8,	3728865.8,	9.6,	9.6,	1.5);	(414511.8,	3728865.8,	9.7,	9.7,	1.5);
(	414531.8,	3728865.8,	9.7,	9.7,	1.5);	(414551.8,	3728865.8,	10.0,	10.0,	1.5);
(	414571.8,	3728865.8,	10.8,	10.8,	1.5);	(414591.8,	3728865.8,	10.5,	10.5,	1.5);
(	414611.8,	3728865.8,	10.4,	10.4,	1.5);	(414631.8,	3728865.8,	10.5,	10.5,	1.5);
(	414651.8,	3728865.8,	10.6,	10.6,	1.5);	(414671.8,	3728865.8,	10.6,	10.6,	1.5);
(	414691.8,	3728865.8,	10.9,	10.9,	1.5);	(414711.8,	3728865.8,	10.9,	10.9,	1.5);
(	414731.8,	3728865.8,	10.9,	10.9,	1.5);	(414751.8,	3728865.8,	10.7,	10.7,	1.5);
(	413571.8,	3728885.8,	9.8,	9.8,	1.5);	(413591.8,	3728885.8,	10.0,	10.0,	1.5);
(	413611.8,	3728885.8,	9.9,	9.9,	1.5);	(413631.8,	3728885.8,	9.9,	9.9,	1.5);
(	413651.8,	3728885.8,	9.9,	9.9,	1.5);	(413671.8,	3728885.8,	10.0,	10.0,	1.5);
(	413691.8,	3728885.8,	9.5,	9.5,	1.5);	(413711.8,	3728885.8,	9.9,	9.9,	1.5);
(	413731.8,	3728885.8,	9.6,	9.6,	1.5);	(413771.8,	3728885.8,	9.2,	9.2,	1.5);
(	413791.8,	3728885.8,	9.6,	9.6,	1.5);	(413811.8,	3728885.8,	9.9,	9.9,	1.5);
(	413831.8,	3728885.8,	10.0,	10.0,	1.5);	(413851.8,	3728885.8,	9.9,	9.9,	1.5);
(	413871.8,	3728885.8,	9.8,	9.8,	1.5);	(413891.8,	3728885.8,	9.7,	9.7,	1.5);
(	413911.8,	3728885.8,	9.6,	9.6,	1.5);	(413931.8,	3728885.8,	9.5,	9.5,	1.5);
(	413951.8,	3728885.8,	9.0,	9.0,	1.5);	(413971.8,	3728885.8,	9.3,	9.3,	1.5);
(	413991.8,	3728885.8,	9.9,	9.9,	1.5);	(414011.8,	3728885.8,	10.3,	10.3,	1.5);
(	414031.8,	3728885.8,	10.2,	10.2,	1.5);	(414051.8,	3728885.8,	10.2,	10.2,	1.5);
(	414071.8,	3728885.8,	10.2,	10.2,	1.5);	(414091.8,	3728885.8,	10.2,	10.2,	1.5);
(	414111.8,	3728885.8,	10.1,	10.1,	1.5);	(414131.8,	3728885.8,	9.6,	9.6,	1.5);
(	414151.8,	3728885.8,	10.3,	10.3,	1.5);	(414171.8,	3728885.8,	10.5,	10.5,	1.5);
(	414191.8,	3728885.8,	10.5,	10.5,	1.5);	(414211.8,	3728885.8,	10.4,	10.4,	1.5);
(	414231.8,	3728885.8,	10.1,	10.1,	1.5);	(414251.8,	3728885.8,	9.7,	9.7,	1.5);
(	414271.8,	3728885.8,	9.7,	9.7,	1.5);	(414291.8,	3728885.8,	10.1,	10.1,	1.5);
(	414311.8,	3728885.8,	10.5,	10.5,	1.5);	(414331.8,	3728885.8,	10.5,	10.5,	1.5);
(	414351.8,	3728885.8,	10.5,	10.5,	1.5);	(414371.8,	3728885.8,	10.2,	10.2,	1.5);
(	414391.8,	3728885.8,	9.9,	9.9,	1.5);	(414411.8,	3728885.8,	10.2,	10.2,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(414431.8,	3728885.8,	10.3,	10.3,	1.5);	(414451.8,	3728885.8,	10.2,	10.2,	1.5);
(414471.8,	3728885.8,	9.9,	9.9,	1.5);	(414491.8,	3728885.8,	9.3,	9.3,	1.5);
(414511.8,	3728885.8,	9.7,	9.7,	1.5);	(414531.8,	3728885.8,	9.8,	9.8,	1.5);
(414551.8,	3728885.8,	10.0,	10.0,	1.5);	(414571.8,	3728885.8,	10.4,	10.4,	1.5);
(414591.8,	3728885.8,	10.5,	10.5,	1.5);	(414611.8,	3728885.8,	10.6,	10.6,	1.5);
(414631.8,	3728885.8,	10.7,	10.7,	1.5);	(414651.8,	3728885.8,	10.8,	10.8,	1.5);
(414671.8,	3728885.8,	10.8,	10.8,	1.5);	(414691.8,	3728885.8,	10.8,	10.8,	1.5);
(414711.8,	3728885.8,	10.7,	10.7,	1.5);	(414731.8,	3728885.8,	10.6,	10.6,	1.5);
(414751.8,	3728885.8,	10.5,	10.5,	1.5);	(413591.8,	3728905.8,	9.8,	9.8,	1.5);
(413611.8,	3728905.8,	9.8,	9.8,	1.5);	(413631.8,	3728905.8,	9.9,	9.9,	1.5);
(413651.8,	3728905.8,	10.1,	10.1,	1.5);	(413671.8,	3728905.8,	10.1,	10.1,	1.5);
(413691.8,	3728905.8,	9.6,	9.6,	1.5);	(413711.8,	3728905.8,	9.9,	9.9,	1.5);
(413731.8,	3728905.8,	9.6,	9.6,	1.5);	(413771.8,	3728905.8,	8.9,	8.9,	1.5);
(413791.8,	3728905.8,	9.5,	9.5,	1.5);	(413811.8,	3728905.8,	9.8,	9.8,	1.5);
(413831.8,	3728905.8,	9.9,	9.9,	1.5);	(413851.8,	3728905.8,	9.9,	9.9,	1.5);
(413871.8,	3728905.8,	9.9,	9.9,	1.5);	(413891.8,	3728905.8,	9.8,	9.8,	1.5);
(413911.8,	3728905.8,	9.8,	9.8,	1.5);	(413931.8,	3728905.8,	9.8,	9.8,	1.5);
(413951.8,	3728905.8,	9.5,	9.5,	1.5);	(413971.8,	3728905.8,	9.5,	9.5,	1.5);
(413991.8,	3728905.8,	9.8,	9.8,	1.5);	(414011.8,	3728905.8,	10.1,	10.1,	1.5);
(414031.8,	3728905.8,	10.2,	10.2,	1.5);	(414051.8,	3728905.8,	10.1,	10.1,	1.5);
(414071.8,	3728905.8,	10.1,	10.1,	1.5);	(414091.8,	3728905.8,	10.1,	10.1,	1.5);
(414111.8,	3728905.8,	10.0,	10.0,	1.5);	(414131.8,	3728905.8,	9.6,	9.6,	1.5);
(414151.8,	3728905.8,	10.1,	10.1,	1.5);	(414171.8,	3728905.8,	10.3,	10.3,	1.5);
(414191.8,	3728905.8,	10.3,	10.3,	1.5);	(414211.8,	3728905.8,	10.2,	10.2,	1.5);
(414231.8,	3728905.8,	10.0,	10.0,	1.5);	(414251.8,	3728905.8,	9.8,	9.8,	1.5);
(414271.8,	3728905.8,	9.8,	9.8,	1.5);	(414291.8,	3728905.8,	10.2,	10.2,	1.5);
(414311.8,	3728905.8,	10.2,	10.2,	1.5);	(414331.8,	3728905.8,	10.2,	10.2,	1.5);
(414351.8,	3728905.8,	10.2,	10.2,	1.5);	(414371.8,	3728905.8,	10.1,	10.1,	1.5);
(414391.8,	3728905.8,	10.0,	10.0,	1.5);	(414411.8,	3728905.8,	10.2,	10.2,	1.5);
(414431.8,	3728905.8,	10.3,	10.3,	1.5);	(414451.8,	3728905.8,	10.3,	10.3,	1.5);
(414471.8,	3728905.8,	10.1,	10.1,	1.5);	(414491.8,	3728905.8,	9.8,	9.8,	1.5);
(414511.8,	3728905.8,	9.9,	9.9,	1.5);	(414531.8,	3728905.8,	9.9,	9.9,	1.5);
(414551.8,	3728905.8,	10.0,	10.0,	1.5);	(414571.8,	3728905.8,	10.3,	10.3,	1.5);
(414591.8,	3728905.8,	10.6,	10.6,	1.5);	(414611.8,	3728905.8,	10.8,	10.8,	1.5);
(414631.8,	3728905.8,	10.9,	10.9,	1.5);	(414651.8,	3728905.8,	11.0,	11.0,	1.5);
(414671.8,	3728905.8,	10.8,	10.8,	1.5);	(414691.8,	3728905.8,	10.8,	10.8,	1.5);
(414711.8,	3728905.8,	10.7,	10.7,	1.5);	(414731.8,	3728905.8,	10.6,	10.6,	1.5);
(414751.8,	3728905.8,	10.3,	10.3,	1.5);	(413591.8,	3728925.8,	9.8,	9.8,	1.5);
(413611.8,	3728925.8,	10.1,	10.1,	1.5);	(413631.8,	3728925.8,	10.0,	10.0,	1.5);
(413651.8,	3728925.8,	9.9,	9.9,	1.5);	(413671.8,	3728925.8,	10.2,	10.2,	1.5);
(413691.8,	3728925.8,	9.7,	9.7,	1.5);	(413711.8,	3728925.8,	9.8,	9.8,	1.5);
(413731.8,	3728925.8,	9.5,	9.5,	1.5);	(413771.8,	3728925.8,	9.3,	9.3,	1.5);
(413791.8,	3728925.8,	9.6,	9.6,	1.5);	(413811.8,	3728925.8,	9.7,	9.7,	1.5);
(413831.8,	3728925.8,	9.6,	9.6,	1.5);	(413851.8,	3728925.8,	9.4,	9.4,	1.5);
(413871.8,	3728925.8,	10.1,	10.1,	1.5);	(413891.8,	3728925.8,	9.9,	9.9,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(	413911.8,	3728925.8,	10.0,	10.0,	1.5);	(413931.8,	3728925.8,	10.2,	10.2,	1.5);
(	413951.8,	3728925.8,	10.1,	10.1,	1.5);	(413971.8,	3728925.8,	9.7,	9.7,	1.5);
(	413991.8,	3728925.8,	9.8,	9.8,	1.5);	(414011.8,	3728925.8,	9.9,	9.9,	1.5);
(	414031.8,	3728925.8,	10.0,	10.0,	1.5);	(414051.8,	3728925.8,	10.0,	10.0,	1.5);
(	414071.8,	3728925.8,	9.9,	9.9,	1.5);	(414091.8,	3728925.8,	9.9,	9.9,	1.5);
(	414111.8,	3728925.8,	9.8,	9.8,	1.5);	(414131.8,	3728925.8,	9.6,	9.6,	1.5);
(	414151.8,	3728925.8,	9.9,	9.9,	1.5);	(414171.8,	3728925.8,	10.1,	10.1,	1.5);
(	414191.8,	3728925.8,	10.0,	10.0,	1.5);	(414211.8,	3728925.8,	9.8,	9.8,	1.5);
(	414231.8,	3728925.8,	9.8,	9.8,	1.5);	(414251.8,	3728925.8,	9.8,	9.8,	1.5);
(	414271.8,	3728925.8,	10.0,	10.0,	1.5);	(414291.8,	3728925.8,	10.2,	10.2,	1.5);
(	414311.8,	3728925.8,	10.0,	10.0,	1.5);	(414331.8,	3728925.8,	9.9,	9.9,	1.5);
(	414351.8,	3728925.8,	9.9,	9.9,	1.5);	(414371.8,	3728925.8,	10.1,	10.1,	1.5);
(	414391.8,	3728925.8,	10.2,	10.2,	1.5);	(414411.8,	3728925.8,	10.3,	10.3,	1.5);
(	414431.8,	3728925.8,	10.4,	10.4,	1.5);	(414451.8,	3728925.8,	10.4,	10.4,	1.5);
(	414471.8,	3728925.8,	10.4,	10.4,	1.5);	(414491.8,	3728925.8,	10.4,	10.4,	1.5);
(	414511.8,	3728925.8,	10.2,	10.2,	1.5);	(414531.8,	3728925.8,	10.1,	10.1,	1.5);
(	414551.8,	3728925.8,	10.1,	10.1,	1.5);	(414571.8,	3728925.8,	10.4,	10.4,	1.5);
(	414591.8,	3728925.8,	10.7,	10.7,	1.5);	(414611.8,	3728925.8,	10.9,	10.9,	1.5);
(	414631.8,	3728925.8,	11.1,	11.1,	1.5);	(414651.8,	3728925.8,	11.1,	11.1,	1.5);
(	414671.8,	3728925.8,	10.7,	10.7,	1.5);	(414691.8,	3728925.8,	10.8,	10.8,	1.5);
(	414711.8,	3728925.8,	10.9,	10.9,	1.5);	(414731.8,	3728925.8,	10.7,	10.7,	1.5);
(	414751.8,	3728925.8,	10.2,	10.2,	1.5);	(413611.8,	3728945.8,	10.0,	10.0,	1.5);
(	413631.8,	3728945.8,	10.1,	10.1,	1.5);	(413651.8,	3728945.8,	10.0,	10.0,	1.5);
(	413671.8,	3728945.8,	10.0,	10.0,	1.5);	(413691.8,	3728945.8,	9.8,	9.8,	1.5);
(	413711.8,	3728945.8,	9.9,	9.9,	1.5);	(413731.8,	3728945.8,	9.7,	9.7,	1.5);
(	413771.8,	3728945.8,	9.4,	9.4,	1.5);	(413791.8,	3728945.8,	9.8,	9.8,	1.5);
(	413811.8,	3728945.8,	9.9,	9.9,	1.5);	(413831.8,	3728945.8,	9.8,	9.8,	1.5);
(	413851.8,	3728945.8,	9.6,	9.6,	1.5);	(413871.8,	3728945.8,	9.9,	9.9,	1.5);
(	413891.8,	3728945.8,	9.7,	9.7,	1.5);	(413911.8,	3728945.8,	9.7,	9.7,	1.5);
(	413931.8,	3728945.8,	9.9,	9.9,	1.5);	(413951.8,	3728945.8,	10.1,	10.1,	1.5);
(	413971.8,	3728945.8,	9.9,	9.9,	1.5);	(413991.8,	3728945.8,	10.0,	10.0,	1.5);
(	414011.8,	3728945.8,	10.3,	10.3,	1.5);	(414031.8,	3728945.8,	10.3,	10.3,	1.5);
(	414051.8,	3728945.8,	10.1,	10.1,	1.5);	(414071.8,	3728945.8,	10.2,	10.2,	1.5);
(	414091.8,	3728945.8,	10.2,	10.2,	1.5);	(414111.8,	3728945.8,	10.2,	10.2,	1.5);
(	414131.8,	3728945.8,	10.2,	10.2,	1.5);	(414151.8,	3728945.8,	10.2,	10.2,	1.5);
(	414171.8,	3728945.8,	10.2,	10.2,	1.5);	(414191.8,	3728945.8,	10.0,	10.0,	1.5);
(	414211.8,	3728945.8,	9.7,	9.7,	1.5);	(414231.8,	3728945.8,	9.8,	9.8,	1.5);
(	414251.8,	3728945.8,	10.1,	10.1,	1.5);	(414271.8,	3728945.8,	10.4,	10.4,	1.5);
(	414291.8,	3728945.8,	10.4,	10.4,	1.5);	(414311.8,	3728945.8,	10.4,	10.4,	1.5);
(	414331.8,	3728945.8,	10.3,	10.3,	1.5);	(414351.8,	3728945.8,	10.3,	10.3,	1.5);
(	414371.8,	3728945.8,	10.4,	10.4,	1.5);	(414391.8,	3728945.8,	10.4,	10.4,	1.5);
(	414411.8,	3728945.8,	10.6,	10.6,	1.5);	(414431.8,	3728945.8,	10.6,	10.6,	1.5);
(	414451.8,	3728945.8,	10.6,	10.6,	1.5);	(414471.8,	3728945.8,	10.6,	10.6,	1.5);
(	414491.8,	3728945.8,	10.6,	10.6,	1.5);	(414511.8,	3728945.8,	10.3,	10.3,	1.5);
(	414531.8,	3728945.8,	10.2,	10.2,	1.5);	(414551.8,	3728945.8,	10.4,	10.4,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(414571.8, 3728945.8,	10.8,	10.8,	1.5);	(414591.8, 3728945.8,	10.8,	10.8,	1.5);
(414611.8, 3728945.8,	11.0,	11.0,	1.5);	(414631.8, 3728945.8,	11.1,	11.1,	1.5);
(414651.8, 3728945.8,	11.1,	11.1,	1.5);	(414671.8, 3728945.8,	10.6,	10.6,	1.5);
(414691.8, 3728945.8,	10.9,	10.9,	1.5);	(414711.8, 3728945.8,	11.1,	11.1,	1.5);
(414731.8, 3728945.8,	10.9,	10.9,	1.5);	(414751.8, 3728945.8,	10.4,	10.4,	1.5);
(413631.8, 3728965.8,	10.1,	10.1,	1.5);	(413651.8, 3728965.8,	10.1,	10.1,	1.5);
(413671.8, 3728965.8,	9.9,	9.9,	1.5);	(413691.8, 3728965.8,	9.9,	9.9,	1.5);
(413711.8, 3728965.8,	10.0,	10.0,	1.5);	(413731.8, 3728965.8,	9.8,	9.8,	1.5);
(413771.8, 3728965.8,	9.4,	9.4,	1.5);	(413791.8, 3728965.8,	10.0,	10.0,	1.5);
(413811.8, 3728965.8,	10.0,	10.0,	1.5);	(413831.8, 3728965.8,	9.7,	9.7,	1.5);
(413851.8, 3728965.8,	9.6,	9.6,	1.5);	(413871.8, 3728965.8,	9.7,	9.7,	1.5);
(413891.8, 3728965.8,	9.5,	9.5,	1.5);	(413911.8, 3728965.8,	9.5,	9.5,	1.5);
(413931.8, 3728965.8,	9.8,	9.8,	1.5);	(413951.8, 3728965.8,	10.1,	10.1,	1.5);
(413971.8, 3728965.8,	9.9,	9.9,	1.5);	(413991.8, 3728965.8,	10.2,	10.2,	1.5);
(414011.8, 3728965.8,	10.6,	10.6,	1.5);	(414031.8, 3728965.8,	10.5,	10.5,	1.5);
(414051.8, 3728965.8,	10.4,	10.4,	1.5);	(414071.8, 3728965.8,	10.4,	10.4,	1.5);
(414091.8, 3728965.8,	10.3,	10.3,	1.5);	(414111.8, 3728965.8,	10.3,	10.3,	1.5);
(414131.8, 3728965.8,	10.5,	10.5,	1.5);	(414151.8, 3728965.8,	10.4,	10.4,	1.5);
(414171.8, 3728965.8,	10.4,	10.4,	1.5);	(414191.8, 3728965.8,	10.2,	10.2,	1.5);
(414211.8, 3728965.8,	9.6,	9.6,	1.5);	(414231.8, 3728965.8,	10.0,	10.0,	1.5);
(414251.8, 3728965.8,	10.4,	10.4,	1.5);	(414271.8, 3728965.8,	10.7,	10.7,	1.5);
(414291.8, 3728965.8,	10.7,	10.7,	1.5);	(414311.8, 3728965.8,	10.6,	10.6,	1.5);
(414331.8, 3728965.8,	10.6,	10.6,	1.5);	(414351.8, 3728965.8,	10.6,	10.6,	1.5);
(414371.8, 3728965.8,	10.6,	10.6,	1.5);	(414391.8, 3728965.8,	10.6,	10.6,	1.5);
(414411.8, 3728965.8,	10.8,	10.8,	1.5);	(414431.8, 3728965.8,	10.9,	10.9,	1.5);
(414451.8, 3728965.8,	10.9,	10.9,	1.5);	(414471.8, 3728965.8,	10.8,	10.8,	1.5);
(414491.8, 3728965.8,	10.7,	10.7,	1.5);	(414511.8, 3728965.8,	10.4,	10.4,	1.5);
(414531.8, 3728965.8,	10.3,	10.3,	1.5);	(414551.8, 3728965.8,	10.5,	10.5,	1.5);
(414571.8, 3728965.8,	10.7,	10.7,	1.5);	(414591.8, 3728965.8,	10.8,	10.8,	1.5);
(414611.8, 3728965.8,	11.0,	11.0,	1.5);	(414631.8, 3728965.8,	11.1,	11.1,	1.5);
(414651.8, 3728965.8,	11.0,	11.0,	1.5);	(414671.8, 3728965.8,	10.6,	10.6,	1.5);
(414691.8, 3728965.8,	10.9,	10.9,	1.5);	(414711.8, 3728965.8,	11.1,	11.1,	1.5);
(414731.8, 3728965.8,	11.1,	11.1,	1.5);	(414751.8, 3728965.8,	10.6,	10.6,	1.5);
(413631.8, 3728985.8,	10.1,	10.1,	1.5);	(413651.8, 3728985.8,	10.1,	10.1,	1.5);
(413671.8, 3728985.8,	9.9,	9.9,	1.5);	(413691.8, 3728985.8,	10.1,	10.1,	1.5);
(413711.8, 3728985.8,	9.8,	9.8,	1.5);	(413731.8, 3728985.8,	9.7,	9.7,	1.5);
(413751.8, 3728985.8,	9.8,	9.8,	1.5);	(413771.8, 3728985.8,	9.0,	9.0,	1.5);
(413791.8, 3728985.8,	9.9,	9.9,	1.5);	(413811.8, 3728985.8,	9.8,	9.8,	1.5);
(413831.8, 3728985.8,	9.3,	9.3,	1.5);	(413851.8, 3728985.8,	9.2,	9.2,	1.5);
(413871.8, 3728985.8,	9.6,	9.6,	1.5);	(413891.8, 3728985.8,	9.5,	9.5,	1.5);
(413911.8, 3728985.8,	9.6,	9.6,	1.5);	(413931.8, 3728985.8,	9.9,	9.9,	1.5);
(413951.8, 3728985.8,	10.2,	10.2,	1.5);	(413971.8, 3728985.8,	10.0,	10.0,	1.5);
(413991.8, 3728985.8,	10.3,	10.3,	1.5);	(414011.8, 3728985.8,	10.7,	10.7,	1.5);
(414031.8, 3728985.8,	10.8,	10.8,	1.5);	(414051.8, 3728985.8,	10.7,	10.7,	1.5);
(414071.8, 3728985.8,	10.4,	10.4,	1.5);	(414091.8, 3728985.8,	10.1,	10.1,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(414111.8,	3728985.8,	10.0,	10.0,	1.5);	(414131.8,	3728985.8,	10.5,	10.5,	1.5);
(414151.8,	3728985.8,	10.6,	10.6,	1.5);	(414171.8,	3728985.8,	10.7,	10.7,	1.5);
(414191.8,	3728985.8,	10.5,	10.5,	1.5);	(414211.8,	3728985.8,	9.7,	9.7,	1.5);
(414231.8,	3728985.8,	10.1,	10.1,	1.5);	(414251.8,	3728985.8,	10.7,	10.7,	1.5);
(414271.8,	3728985.8,	10.9,	10.9,	1.5);	(414291.8,	3728985.8,	10.9,	10.9,	1.5);
(414311.8,	3728985.8,	10.7,	10.7,	1.5);	(414331.8,	3728985.8,	10.8,	10.8,	1.5);
(414351.8,	3728985.8,	10.9,	10.9,	1.5);	(414371.8,	3728985.8,	10.8,	10.8,	1.5);
(414391.8,	3728985.8,	10.7,	10.7,	1.5);	(414411.8,	3728985.8,	11.0,	11.0,	1.5);
(414431.8,	3728985.8,	11.0,	11.0,	1.5);	(414451.8,	3728985.8,	11.1,	11.1,	1.5);
(414471.8,	3728985.8,	11.1,	11.1,	1.5);	(414491.8,	3728985.8,	10.7,	10.7,	1.5);
(414511.8,	3728985.8,	10.4,	10.4,	1.5);	(414531.8,	3728985.8,	10.4,	10.4,	1.5);
(414551.8,	3728985.8,	10.5,	10.5,	1.5);	(414571.8,	3728985.8,	10.6,	10.6,	1.5);
(414591.8,	3728985.8,	10.8,	10.8,	1.5);	(414611.8,	3728985.8,	11.0,	11.0,	1.5);
(414631.8,	3728985.8,	11.1,	11.1,	1.5);	(414651.8,	3728985.8,	11.0,	11.0,	1.5);
(414671.8,	3728985.8,	10.6,	10.6,	1.5);	(414691.8,	3728985.8,	10.8,	10.8,	1.5);
(414711.8,	3728985.8,	11.0,	11.0,	1.5);	(414731.8,	3728985.8,	11.0,	11.0,	1.5);
(414751.8,	3728985.8,	10.8,	10.8,	1.5);	(413651.8,	3729005.8,	10.0,	10.0,	1.5);
(413671.8,	3729005.8,	9.8,	9.8,	1.5);	(413691.8,	3729005.8,	10.2,	10.2,	1.5);
(413711.8,	3729005.8,	10.0,	10.0,	1.5);	(413731.8,	3729005.8,	10.0,	10.0,	1.5);
(413751.8,	3729005.8,	10.0,	10.0,	1.5);	(413771.8,	3729005.8,	9.3,	9.3,	1.5);
(413791.8,	3729005.8,	9.4,	9.4,	1.5);	(413811.8,	3729005.8,	9.5,	9.5,	1.5);
(413831.8,	3729005.8,	9.5,	9.5,	1.5);	(413851.8,	3729005.8,	9.5,	9.5,	1.5);
(413871.8,	3729005.8,	9.6,	9.6,	1.5);	(413891.8,	3729005.8,	9.2,	9.2,	1.5);
(413911.8,	3729005.8,	9.3,	9.3,	1.5);	(413931.8,	3729005.8,	9.8,	9.8,	1.5);
(413951.8,	3729005.8,	10.2,	10.2,	1.5);	(413971.8,	3729005.8,	10.1,	10.1,	1.5);
(413991.8,	3729005.8,	10.3,	10.3,	1.5);	(414011.8,	3729005.8,	10.6,	10.6,	1.5);
(414031.8,	3729005.8,	10.6,	10.6,	1.5);	(414051.8,	3729005.8,	10.5,	10.5,	1.5);
(414071.8,	3729005.8,	10.2,	10.2,	1.5);	(414091.8,	3729005.8,	10.0,	10.0,	1.5);
(414111.8,	3729005.8,	10.0,	10.0,	1.5);	(414131.8,	3729005.8,	10.0,	10.0,	1.5);
(414151.8,	3729005.8,	10.0,	10.0,	1.5);	(414171.8,	3729005.8,	10.0,	10.0,	1.5);
(414191.8,	3729005.8,	9.9,	9.9,	1.5);	(414211.8,	3729005.8,	9.6,	9.6,	1.5);
(414231.8,	3729005.8,	10.0,	10.0,	1.5);	(414251.8,	3729005.8,	10.5,	10.5,	1.5);
(414271.8,	3729005.8,	10.8,	10.8,	1.5);	(414291.8,	3729005.8,	10.8,	10.8,	1.5);
(414311.8,	3729005.8,	10.5,	10.5,	1.5);	(414331.8,	3729005.8,	10.5,	10.5,	1.5);
(414351.8,	3729005.8,	10.6,	10.6,	1.5);	(414371.8,	3729005.8,	10.6,	10.6,	1.5);
(414391.8,	3729005.8,	10.8,	10.8,	1.5);	(414411.8,	3729005.8,	10.9,	10.9,	1.5);
(414431.8,	3729005.8,	10.9,	10.9,	1.5);	(414451.8,	3729005.8,	11.0,	11.0,	1.5);
(414471.8,	3729005.8,	11.0,	11.0,	1.5);	(414491.8,	3729005.8,	10.8,	10.8,	1.5);
(414511.8,	3729005.8,	10.5,	10.5,	1.5);	(414531.8,	3729005.8,	10.5,	10.5,	1.5);
(414551.8,	3729005.8,	10.6,	10.6,	1.5);	(414571.8,	3729005.8,	10.6,	10.6,	1.5);
(414591.8,	3729005.8,	10.9,	10.9,	1.5);	(414611.8,	3729005.8,	11.0,	11.0,	1.5);
(414631.8,	3729005.8,	11.1,	11.1,	1.5);	(414651.8,	3729005.8,	11.0,	11.0,	1.5);
(414671.8,	3729005.8,	10.9,	10.9,	1.5);	(414691.8,	3729005.8,	10.6,	10.6,	1.5);
(414711.8,	3729005.8,	10.5,	10.5,	1.5);	(414731.8,	3729005.8,	10.7,	10.7,	1.5);
(414751.8,	3729005.8,	10.8,	10.8,	1.5);	(413651.8,	3729025.8,	9.8,	9.8,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(413671.8,	3729025.8,	9.8,	9.8,	1.5);	(413691.8,	3729025.8,	10.2,	10.2,	1.5);
(413711.8,	3729025.8,	10.2,	10.2,	1.5);	(413731.8,	3729025.8,	10.2,	10.2,	1.5);
(413751.8,	3729025.8,	10.0,	10.0,	1.5);	(413771.8,	3729025.8,	9.8,	9.8,	1.5);
(413791.8,	3729025.8,	9.2,	9.2,	1.5);	(413811.8,	3729025.8,	9.2,	9.2,	1.5);
(413831.8,	3729025.8,	9.6,	9.6,	1.5);	(413851.8,	3729025.8,	9.7,	9.7,	1.5);
(413871.8,	3729025.8,	9.6,	9.6,	1.5);	(413891.8,	3729025.8,	9.2,	9.2,	1.5);
(413911.8,	3729025.8,	9.2,	9.2,	1.5);	(413931.8,	3729025.8,	9.8,	9.8,	1.5);
(413951.8,	3729025.8,	10.1,	10.1,	1.5);	(413971.8,	3729025.8,	10.1,	10.1,	1.5);
(413991.8,	3729025.8,	10.3,	10.3,	1.5);	(414011.8,	3729025.8,	10.5,	10.5,	1.5);
(414031.8,	3729025.8,	10.5,	10.5,	1.5);	(414051.8,	3729025.8,	10.4,	10.4,	1.5);
(414071.8,	3729025.8,	10.3,	10.3,	1.5);	(414091.8,	3729025.8,	10.2,	10.2,	1.5);
(414111.8,	3729025.8,	10.1,	10.1,	1.5);	(414131.8,	3729025.8,	9.8,	9.8,	1.5);
(414151.8,	3729025.8,	9.9,	9.9,	1.5);	(414171.8,	3729025.8,	9.8,	9.8,	1.5);
(414191.8,	3729025.8,	9.7,	9.7,	1.5);	(414211.8,	3729025.8,	9.6,	9.6,	1.5);
(414231.8,	3729025.8,	9.9,	9.9,	1.5);	(414251.8,	3729025.8,	10.4,	10.4,	1.5);
(414271.8,	3729025.8,	10.7,	10.7,	1.5);	(414291.8,	3729025.8,	10.8,	10.8,	1.5);
(414311.8,	3729025.8,	10.5,	10.5,	1.5);	(414331.8,	3729025.8,	10.5,	10.5,	1.5);
(414351.8,	3729025.8,	10.5,	10.5,	1.5);	(414371.8,	3729025.8,	10.6,	10.6,	1.5);
(414391.8,	3729025.8,	10.8,	10.8,	1.5);	(414411.8,	3729025.8,	10.9,	10.9,	1.5);
(414431.8,	3729025.8,	10.8,	10.8,	1.5);	(414451.8,	3729025.8,	10.9,	10.9,	1.5);
(414471.8,	3729025.8,	11.0,	11.0,	1.5);	(414491.8,	3729025.8,	10.9,	10.9,	1.5);
(414511.8,	3729025.8,	10.6,	10.6,	1.5);	(414531.8,	3729025.8,	10.6,	10.6,	1.5);
(414551.8,	3729025.8,	10.6,	10.6,	1.5);	(414571.8,	3729025.8,	10.7,	10.7,	1.5);
(414591.8,	3729025.8,	10.9,	10.9,	1.5);	(414611.8,	3729025.8,	11.0,	11.0,	1.5);
(414631.8,	3729025.8,	11.0,	11.0,	1.5);	(414651.8,	3729025.8,	11.0,	11.0,	1.5);
(414671.8,	3729025.8,	11.0,	11.0,	1.5);	(414691.8,	3729025.8,	10.6,	10.6,	1.5);
(414711.8,	3729025.8,	10.5,	10.5,	1.5);	(414731.8,	3729025.8,	10.5,	10.5,	1.5);
(414751.8,	3729025.8,	10.5,	10.5,	1.5);	(413671.8,	3729045.8,	10.1,	10.1,	1.5);
(413691.8,	3729045.8,	10.2,	10.2,	1.5);	(413711.8,	3729045.8,	10.0,	10.0,	1.5);
(413731.8,	3729045.8,	9.8,	9.8,	1.5);	(413751.8,	3729045.8,	9.7,	9.7,	1.5);
(413771.8,	3729045.8,	10.2,	10.2,	1.5);	(413791.8,	3729045.8,	9.4,	9.4,	1.5);
(413811.8,	3729045.8,	9.2,	9.2,	1.5);	(413831.8,	3729045.8,	9.5,	9.5,	1.5);
(413851.8,	3729045.8,	9.7,	9.7,	1.5);	(413871.8,	3729045.8,	9.6,	9.6,	1.5);
(413891.8,	3729045.8,	9.5,	9.5,	1.5);	(413911.8,	3729045.8,	9.6,	9.6,	1.5);
(413931.8,	3729045.8,	9.7,	9.7,	1.5);	(413951.8,	3729045.8,	10.0,	10.0,	1.5);
(413971.8,	3729045.8,	10.2,	10.2,	1.5);	(413991.8,	3729045.8,	10.4,	10.4,	1.5);
(414011.8,	3729045.8,	10.7,	10.7,	1.5);	(414031.8,	3729045.8,	10.7,	10.7,	1.5);
(414051.8,	3729045.8,	10.6,	10.6,	1.5);	(414071.8,	3729045.8,	10.6,	10.6,	1.5);
(414091.8,	3729045.8,	10.7,	10.7,	1.5);	(414111.8,	3729045.8,	10.6,	10.6,	1.5);
(414131.8,	3729045.8,	10.0,	10.0,	1.5);	(414151.8,	3729045.8,	10.2,	10.2,	1.5);
(414171.8,	3729045.8,	10.3,	10.3,	1.5);	(414191.8,	3729045.8,	10.1,	10.1,	1.5);
(414211.8,	3729045.8,	9.7,	9.7,	1.5);	(414231.8,	3729045.8,	9.9,	9.9,	1.5);
(414251.8,	3729045.8,	10.3,	10.3,	1.5);	(414271.8,	3729045.8,	10.7,	10.7,	1.5);
(414291.8,	3729045.8,	10.8,	10.8,	1.5);	(414311.8,	3729045.8,	10.8,	10.8,	1.5);
(414331.8,	3729045.8,	10.8,	10.8,	1.5);	(414351.8,	3729045.8,	10.8,	10.8,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(414371.8,	3729045.8,	10.7,	10.7,	1.5);	(414391.8,	3729045.8,	10.6,	10.6,	1.5);
(414411.8,	3729045.8,	10.7,	10.7,	1.5);	(414431.8,	3729045.8,	10.8,	10.8,	1.5);
(414451.8,	3729045.8,	10.8,	10.8,	1.5);	(414471.8,	3729045.8,	10.9,	10.9,	1.5);
(414491.8,	3729045.8,	11.1,	11.1,	1.5);	(414511.8,	3729045.8,	10.8,	10.8,	1.5);
(414531.8,	3729045.8,	10.6,	10.6,	1.5);	(414551.8,	3729045.8,	10.7,	10.7,	1.5);
(414571.8,	3729045.8,	10.7,	10.7,	1.5);	(414591.8,	3729045.8,	10.9,	10.9,	1.5);
(414611.8,	3729045.8,	11.0,	11.0,	1.5);	(414631.8,	3729045.8,	11.0,	11.0,	1.5);
(414651.8,	3729045.8,	11.0,	11.0,	1.5);	(414671.8,	3729045.8,	11.0,	11.0,	1.5);
(414691.8,	3729045.8,	10.7,	10.7,	1.5);	(414711.8,	3729045.8,	10.6,	10.6,	1.5);
(414731.8,	3729045.8,	10.5,	10.5,	1.5);	(414751.8,	3729045.8,	10.2,	10.2,	1.5);
(413671.8,	3729065.8,	10.1,	10.1,	1.5);	(413691.8,	3729065.8,	10.0,	10.0,	1.5);
(413711.8,	3729065.8,	9.9,	9.9,	1.5);	(413731.8,	3729065.8,	9.7,	9.7,	1.5);
(413751.8,	3729065.8,	9.7,	9.7,	1.5);	(413771.8,	3729065.8,	10.2,	10.2,	1.5);
(413791.8,	3729065.8,	9.9,	9.9,	1.5);	(413811.8,	3729065.8,	9.6,	9.6,	1.5);
(413831.8,	3729065.8,	9.4,	9.4,	1.5);	(413851.8,	3729065.8,	9.8,	9.8,	1.5);
(413871.8,	3729065.8,	9.7,	9.7,	1.5);	(413891.8,	3729065.8,	9.8,	9.8,	1.5);
(413911.8,	3729065.8,	9.9,	9.9,	1.5);	(413931.8,	3729065.8,	9.9,	9.9,	1.5);
(413951.8,	3729065.8,	10.0,	10.0,	1.5);	(413971.8,	3729065.8,	10.3,	10.3,	1.5);
(413991.8,	3729065.8,	10.6,	10.6,	1.5);	(414011.8,	3729065.8,	10.9,	10.9,	1.5);
(414031.8,	3729065.8,	10.8,	10.8,	1.5);	(414051.8,	3729065.8,	10.5,	10.5,	1.5);
(414071.8,	3729065.8,	10.7,	10.7,	1.5);	(414091.8,	3729065.8,	10.8,	10.8,	1.5);
(414111.8,	3729065.8,	10.7,	10.7,	1.5);	(414131.8,	3729065.8,	10.1,	10.1,	1.5);
(414151.8,	3729065.8,	10.3,	10.3,	1.5);	(414171.8,	3729065.8,	10.5,	10.5,	1.5);
(414191.8,	3729065.8,	10.3,	10.3,	1.5);	(414211.8,	3729065.8,	9.8,	9.8,	1.5);
(414231.8,	3729065.8,	10.0,	10.0,	1.5);	(414251.8,	3729065.8,	10.4,	10.4,	1.5);
(414271.8,	3729065.8,	10.8,	10.8,	1.5);	(414291.8,	3729065.8,	11.1,	11.1,	1.5);
(414311.8,	3729065.8,	11.0,	11.0,	1.5);	(414331.8,	3729065.8,	11.0,	11.0,	1.5);
(414351.8,	3729065.8,	11.0,	11.0,	1.5);	(414371.8,	3729065.8,	10.8,	10.8,	1.5);
(414391.8,	3729065.8,	10.4,	10.4,	1.5);	(414411.8,	3729065.8,	10.5,	10.5,	1.5);
(414431.8,	3729065.8,	10.6,	10.6,	1.5);	(414451.8,	3729065.8,	10.8,	10.8,	1.5);
(414471.8,	3729065.8,	11.0,	11.0,	1.5);	(414491.8,	3729065.8,	10.9,	10.9,	1.5);
(414511.8,	3729065.8,	10.7,	10.7,	1.5);	(414531.8,	3729065.8,	10.7,	10.7,	1.5);
(414551.8,	3729065.8,	10.8,	10.8,	1.5);	(414571.8,	3729065.8,	10.8,	10.8,	1.5);
(414591.8,	3729065.8,	11.0,	11.0,	1.5);	(414611.8,	3729065.8,	11.1,	11.1,	1.5);
(414631.8,	3729065.8,	11.1,	11.1,	1.5);	(414651.8,	3729065.8,	11.0,	11.0,	1.5);
(414671.8,	3729065.8,	10.9,	10.9,	1.5);	(414691.8,	3729065.8,	10.9,	10.9,	1.5);
(414711.8,	3729065.8,	10.8,	10.8,	1.5);	(414731.8,	3729065.8,	10.6,	10.6,	1.5);
(414751.8,	3729065.8,	10.4,	10.4,	1.5);	(413691.8,	3729085.8,	9.7,	9.7,	1.5);
(413711.8,	3729085.8,	9.7,	9.7,	1.5);	(413731.8,	3729085.8,	9.8,	9.8,	1.5);
(413751.8,	3729085.8,	9.8,	9.8,	1.5);	(413771.8,	3729085.8,	10.0,	10.0,	1.5);
(413791.8,	3729085.8,	10.3,	10.3,	1.5);	(413811.8,	3729085.8,	9.9,	9.9,	1.5);
(413831.8,	3729085.8,	9.4,	9.4,	1.5);	(413851.8,	3729085.8,	9.8,	9.8,	1.5);
(413871.8,	3729085.8,	9.8,	9.8,	1.5);	(413891.8,	3729085.8,	10.0,	10.0,	1.5);
(413911.8,	3729085.8,	10.1,	10.1,	1.5);	(413931.8,	3729085.8,	10.0,	10.0,	1.5);
(413951.8,	3729085.8,	10.0,	10.0,	1.5);	(413971.8,	3729085.8,	10.3,	10.3,	1.5);

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

(413991.8,	3729085.8,	10.7,	10.7,	1.5);	(414011.8,	3729085.8,	10.9,	10.9,	1.5);
(414031.8,	3729085.8,	10.8,	10.8,	1.5);	(414051.8,	3729085.8,	10.5,	10.5,	1.5);
(414071.8,	3729085.8,	10.6,	10.6,	1.5);	(414091.8,	3729085.8,	10.8,	10.8,	1.5);
(414111.8,	3729085.8,	10.6,	10.6,	1.5);	(414131.8,	3729085.8,	10.2,	10.2,	1.5);
(414151.8,	3729085.8,	10.3,	10.3,	1.5);	(414171.8,	3729085.8,	10.4,	10.4,	1.5);
(414191.8,	3729085.8,	10.3,	10.3,	1.5);	(414211.8,	3729085.8,	9.8,	9.8,	1.5);
(414231.8,	3729085.8,	10.4,	10.4,	1.5);	(414251.8,	3729085.8,	10.7,	10.7,	1.5);
(414271.8,	3729085.8,	11.0,	11.0,	1.5);	(414291.8,	3729085.8,	11.3,	11.3,	1.5);
(414311.8,	3729085.8,	11.0,	11.0,	1.5);	(414331.8,	3729085.8,	10.9,	10.9,	1.5);
(414351.8,	3729085.8,	10.9,	10.9,	1.5);	(414371.8,	3729085.8,	10.7,	10.7,	1.5);
(414391.8,	3729085.8,	10.4,	10.4,	1.5);	(414411.8,	3729085.8,	10.6,	10.6,	1.5);
(414431.8,	3729085.8,	10.7,	10.7,	1.5);	(414451.8,	3729085.8,	10.8,	10.8,	1.5);
(414471.8,	3729085.8,	11.1,	11.1,	1.5);	(414491.8,	3729085.8,	10.8,	10.8,	1.5);
(414511.8,	3729085.8,	10.8,	10.8,	1.5);	(414531.8,	3729085.8,	10.8,	10.8,	1.5);
(414551.8,	3729085.8,	11.0,	11.0,	1.5);	(414571.8,	3729085.8,	11.0,	11.0,	1.5);
(414591.8,	3729085.8,	11.1,	11.1,	1.5);	(414611.8,	3729085.8,	11.1,	11.1,	1.5);
(414631.8,	3729085.8,	11.1,	11.1,	1.5);	(414651.8,	3729085.8,	11.0,	11.0,	1.5);
(414671.8,	3729085.8,	10.9,	10.9,	1.5);	(414691.8,	3729085.8,	10.8,	10.8,	1.5);
(414711.8,	3729085.8,	10.8,	10.8,	1.5);	(414731.8,	3729085.8,	10.7,	10.7,	1.5);
(414751.8,	3729085.8,	10.6,	10.6,	1.5);					

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

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1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

Surface file: JohnWayneInt'lAirportADJU\KSNA_V9_ADJU\KSNA_v9.SFC Met Version: 16216
Profile file: JohnWayneInt'lAirportADJU\KSNA_V9_ADJU\KSNA_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93184 Upper air station no.: 3190
Name: 365540.00 Name: MIRAMAR_AIR_STATION
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALB	REF WS	WD	HT	REF TA	HT	IPCOD	PRATE	RH	SFCP	CCVR
12	01	01	01	-4.5	0.082	-9.000	-9.000	-999.	56.	11.0	0.12	2.65	1.00	0.87	62.	6.	283.8	2.	0	0.00	92.	1017.	10
12	01	01	02	-3.5	0.073	-9.000	-9.000	-999.	47.	9.9	0.12	2.65	1.00	0.77	27.	6.	283.1	2.	0	0.00	96.	1017.	10
12	01	01	03	-3.5	0.073	-9.000	-9.000	-999.	47.	9.9	0.12	2.65	1.00	0.77	336.	6.	283.1	2.	0	0.00	92.	1017.	10
12	01	01	04	-3.3	0.070	-9.000	-9.000	-999.	45.	9.7	0.12	2.65	1.00	0.74	34.	6.	283.1	2.	0	0.00	92.	1017.	10
12	01	01	05	-3.0	0.068	-9.000	-9.000	-999.	42.	9.4	0.12	2.65	1.00	0.70	154.	6.	282.5	2.	0	0.00	92.	1017.	10
12	01	01	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.12	2.65	1.00	0.00	0.	6.	282.0	2.	0	0.00	92.	1018.	10
12	01	01	07	-2.0	0.059	-9.000	-9.000	-999.	34.	9.0	0.12	2.65	1.00	0.55	343.	6.	281.4	2.	0	0.00	96.	1019.	10
12	01	01	08	-2.6	0.066	-9.000	-9.000	-999.	40.	9.7	0.12	2.65	0.53	0.69	25.	6.	281.4	2.	0	0.00	96.	1019.	10
12	01	01	09	21.6	0.133	0.252	0.010	27.	116.	-9.9	0.12	2.65	0.31	1.03	344.	6.	282.5	2.	0	0.00	92.	1020.	9
12	01	01	10	115.6	0.162	0.713	0.008	114.	156.	-3.3	0.12	2.65	0.24	1.06	233.	6.	286.4	2.	0	0.00	74.	1020.	5
12	01	01	11	160.9	0.126	1.129	0.005	325.	108.	-1.1	0.12	2.65	0.21	0.67	261.	6.	291.4	2.	0	0.00	51.	1020.	0
12	01	01	12	187.0	0.138	1.467	0.005	614.	123.	-1.3	0.12	2.65	0.20	0.75	252.	6.	294.9	2.	0	0.00	43.	1018.	0
12	01	01	13	186.9	0.189	1.755	0.005	1051.	197.	-3.3	0.12	2.65	0.20	1.23	280.	6.	297.5	2.	0	0.00	30.	1018.	0
12	01	01	14	168.3	0.247	1.857	0.005	1383.	295.	-8.1	0.12	2.65	0.21	1.86	268.	6.	299.2	2.	0	0.00	24.	1017.	3
12	01	01	15	115.3	0.275	1.688	0.005	1517.	346.	-16.3	0.12	2.65	0.24	2.25	248.	6.	298.1	2.	0	0.00	19.	1017.	3
12	01	01	16	41.5	0.262	1.211	0.005	1552.	322.	-39.2	0.12	2.65	0.33	2.32	227.	6.	295.9	2.	0	0.00	40.	1017.	3
12	01	01	17	-17.9	0.217	-9.000	-9.000	-999.	244.	52.0	0.12	2.65	0.60	2.18	227.	6.	292.5	2.	0	0.00	56.	1018.	3
12	01	01	18	-24.7	0.250	-9.000	-9.000	-999.	300.	68.7	0.12	2.65	1.00	2.50	219.	6.	288.8	2.	0	0.00	77.	1018.	0
12	01	01	19	-5.2	0.088	-9.000	-9.000	-999.	91.	12.0	0.12	2.65	1.00	0.94	201.	6.	287.5	2.	0	0.00	80.	1019.	0
12	01	01	20	-3.5	0.073	-9.000	-9.000	-999.	47.	10.0	0.12	2.65	1.00	0.77	259.	6.	287.0	2.	0	0.00	83.	1019.	3
12	01	01	21	-2.6	0.064	-9.000	-9.000	-999.	39.	9.1	0.12	2.65	1.00	0.65	264.	6.	286.4	2.	0	0.00	86.	1019.	0
12	01	01	22	-4.4	0.081	-9.000	-9.000	-999.	55.	10.9	0.12	2.65	1.00	0.86	211.	6.	285.9	2.	0	0.00	86.	1019.	0
12	01	01	23	-4.2	0.079	-9.000	-9.000	-999.	53.	10.7	0.12	2.65	1.00	0.84	247.	6.	284.9	2.	0	0.30	85.	1020.	0
12	01	01	24	-7.1	0.103	-9.000	-9.000	-999.	80.	14.1	0.12	2.65	1.00	1.09	236.	6.	283.8	2.	0	0.00	92.	1020.	10

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.8	1	62.	0.87	283.8	99.0	-99.00	-99.00

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

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
PAREA1	1ST HIGHEST VALUE IS	9.27833 AT (413911.83, 3728805.77, 9.39, 9.39, 1.50)	DC	
	2ND HIGHEST VALUE IS	9.24326 AT (413931.83, 3728805.77, 9.38, 9.38, 1.50)	DC	
	3RD HIGHEST VALUE IS	9.24020 AT (413891.83, 3728805.77, 9.39, 9.39, 1.50)	DC	
	4TH HIGHEST VALUE IS	9.13249 AT (413871.83, 3728805.77, 9.32, 9.32, 1.50)	DC	
	5TH HIGHEST VALUE IS	9.12234 AT (413951.83, 3728805.77, 9.43, 9.43, 1.50)	DC	
	6TH HIGHEST VALUE IS	8.94889 AT (413851.83, 3728805.77, 9.26, 9.26, 1.50)	DC	
	7TH HIGHEST VALUE IS	8.84778 AT (413971.83, 3728805.77, 9.63, 9.63, 1.50)	DC	
	8TH HIGHEST VALUE IS	8.67552 AT (413831.83, 3728805.77, 9.39, 9.39, 1.50)	DC	
	9TH HIGHEST VALUE IS	8.29506 AT (413811.83, 3728805.77, 9.45, 9.45, 1.50)	DC	
	10TH HIGHEST VALUE IS	8.16219 AT (413991.83, 3728805.77, 9.85, 9.85, 1.50)	DC	

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

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

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

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
PAREA1	HIGH 1ST HIGH VALUE IS	46.92194m	ON 15123124:	AT (414031.83, 3728625.77, 9.83, 9.83, 1.50)	DC	
	HIGH 8TH HIGH VALUE IS	33.08211c	ON 16020924:	AT (414031.83, 3728685.77, 9.73, 9.73, 1.50)	DC	

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

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

** DEPO OF PM_10 IN GRAMS/M**2/YR **

GROUP ID		DRY DEPO	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
PAREA1	1ST HIGHEST VALUE IS	13.50326 AT	(413951.83,	3728805.77,	9.43,	9.43, 1.50)	DC	
	2ND HIGHEST VALUE IS	13.48345 AT	(413931.83,	3728805.77,	9.38,	9.38, 1.50)	DC	
	3RD HIGHEST VALUE IS	13.36922 AT	(413911.83,	3728805.77,	9.39,	9.39, 1.50)	DC	
	4TH HIGHEST VALUE IS	13.30980 AT	(413971.83,	3728805.77,	9.63,	9.63, 1.50)	DC	
	5TH HIGHEST VALUE IS	13.17282 AT	(413891.83,	3728805.77,	9.39,	9.39, 1.50)	DC	
	6TH HIGHEST VALUE IS	12.88792 AT	(413871.83,	3728805.77,	9.32,	9.32, 1.50)	DC	
	7TH HIGHEST VALUE IS	12.51582 AT	(413851.83,	3728805.77,	9.26,	9.26, 1.50)	DC	
	8TH HIGHEST VALUE IS	12.39025 AT	(413991.83,	3728805.77,	9.85,	9.85, 1.50)	DC	
	9TH HIGHEST VALUE IS	12.05342 AT	(413831.83,	3728805.77,	9.39,	9.39, 1.50)	DC	
	10TH HIGHEST VALUE IS	11.43340 AT	(413811.83,	3728805.77,	9.45,	9.45, 1.50)	DC	

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

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** DEPO OF PM_10 IN GRAMS/M**2 **

GROUP ID		DRY DEPO	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
PAREA1	HIGH 1ST HIGH VALUE IS	0.11236	ON 14022824:	AT (413891.83, 3728805.77, 9.39, 9.39, 1.50)	DC	
	HIGH 8TH HIGH VALUE IS	0.09935	ON 12042624:	AT (413911.83, 3728805.77, 9.39, 9.39, 1.50)	DC	

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

*** MODELOPTs: RegDFAULT CONC DDEP ELEV FLGPOL DRYDPLT URBAN ADJ_U*

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

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

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   1864 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   1500 Calm Hours Identified

A Total of   364 Missing Hours Identified (0.83 Percent)

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

   ********   WARNING MESSAGES   ********
ME W186   3013   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
ME W187   3013   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ****
   *** AERMOD Finishes Successfully ***
   ****

APPENDIX C

CONSTRUCTION HRA WORKSHEETS

Annual Unmitigated Onsite Construction Exhaust Emission Rates from the CalEEMod Modeling

	Days per phase	Annual Emissions (tons/year)	
		PM_{10}	**$PM_{2.5}$**
Demolition	66	0.0817	0.076
Site Preparation	33	0.0266	0.0245
Grading	99	0.0464	0.0427
Building Construction	990	0.0803	0.0756
Paving	66	0.0138	0.0127
Architectural Coating	66	0.00129	0.00129
Annual Average tons/yr		0.0692	0.0650

Daily Unmitigated Onsite Construction Exhaust Emission Rates from the CalEEMod Modeling

Construction Emissions	Daily Emissions (lbs/day)	
	PM_{10}	**$PM_{2.5}$**
Demolition	2.3661	2.3027
Site Preparation	1.6126	1.4836
Grading	0.9366	0.8617
Building Construction	0.809	0.7612
Paving	0.4185	0.385
Architectural Coating	0.0515	0.0515
Daily Average lbs/day	1.0324	0.9743

Unitized concentrations at the MEI

From LST AERMOD	
24-hr	1101.65673
annual	255.27068

Unmitigated Construction Equipment Pollutant Concentrations at the MEI

24-Hr Conc.		Annual Concentrations	
PM_{10} µg/m^3	**$PM_{2.5}$ µg/m^3**	**PM_{10} µg/m^3**	**$PM_{2.5}$ µg/m^3**
at 1.03 lb/day	**at 0.97 lb/day**	**at 0.07 ton/yr**	**at 0.07 ton/yr**
0.560	0.528	0.013	0.012

Assume that the average daily activity would be approximately 50% of the peak daily activity
Note: Assumes construction equipment operates 8 hours per day.
Note: Number of AERMOD volume sources used for exhaust modeling: 16

Construction days per month: 22
Months per year: 12
Years of construction: 5

Unmitigated Health Risk Worksheet

Point Estimates of Residential Daily Breathing Rates for 3rd trimester, 0<2, 2<9, 2<16, 16<30 and 16-70 years (L/kg BW-day)

	3rd Trimester	0<2 years	2<9 years	2<16 years	16<30 years	16<70 years
	L/kg-day					
Mean	225	658	535	452	210	185
95th Percentile	361	1090	861	745	335	290

Source: OEHHA Hotspots Guidance Manual, 2015

2015 OEHHA Recommended Fraction of Time at Home for Evaluating Residential Cancer Risk

Age Range	Fraction of Time at Home
3rd Trimester and 0-2 Years	0.85
2-16 Years	0.72
16-70 Years	0.73

Source: OEHHA Hotspots Guidance Manual, 2015

	Dose						
PM10 Annual Cair	3rd Trimester	0<2 years	2<9 years	2<16 years	16<30 years	Cancer Risk	Chronic
0.013	1.25E-03	3.79E-03	2.53E-03	2.19E-03	1.00E-03	2.824	0.003

RISKair = (Cair x [BR/BW] x A x EF) x (1 x 10-6) x CPF x ED/AT

A = inhalation absorption factor	1	
EF = exposure frequency (days/365 days)	0.66	(240/365)
AT	25,550	
DPM CPF	1.1	$(mg/kg\text{-}day)^{-1}$
DPM Inhalation Chronic REL	5.0	(ug/m^3)
Exposure Duration (ED)	1	(years)

Annual Mitigated Onsite Construction Exhaust Emission Rates from the CalEEMod Modeling

	Days per phase	Annual Emissions (tons/year)	
		PM_{10}	$PM_{2.5}$
Demolition	66	0.0433	0.0417
Site Preparation	33	0.012	0.0116
Grading	99	0.0238	0.0232
Building Construction	990	0.0592	0.0592
Paving	66	0.0101	0.0101
Architectural Coating	66	0.00119	0.00119
Annual Average tons/yr		0.0492	0.0491

Daily Mitigated Onsite Construction Exhaust Emission Rates from the CalEEMod Modeling

Construction Emissions	Daily Emissions (lbs/day)	
	PM_{10}	$PM_{2.5}$
Demolition	1.3114	1.2625
Site Preparation	0.7286	0.7036
Grading	0.4817	0.4681
Building Construction	0.4518	0.4518
Paving	0.3047	0.3047
Architectural Coating	0.0475	0.0475
Daily Average lbs/day	0.5543	0.5397

Unitized concentrations at the MEI

From LST AERMOD	
24-hr	1101.65673
annual	255.27068

Mitigated Construction Equipment Pollutant Concentrations at the MEI

24-Hr Conc.		Annual Concentrations	
PM_{10} $\mu g/m^3$	$PM_{2.5}$ $\mu g/m^3$	PM_{10} $\mu g/m^3$	$PM_{2.5}$ $\mu g/m^3$
at 0.55 lb/day	**at 0.54 lb/day**	**at 0.05 ton/yr**	**at 0.05 ton/yr**
0.301	0.293	0.009	0.009

Assume that the average daily activity would be approximately 50% of the peak daily activity
Note: Assumes construction equipment operates 8 hours per day.
Note: Number of AERMOD volume sources used for exhaust modeling: 16

Construction days per month: 22
Months per year: 12
Years of construction: 5

Mitigated Health Risk Worksheet

Point Estimates of Residential Daily Breathing Rates for 3rd trimester, 0<2, 2<9, 2<16, 16<30 and 16-70 years (L/kg BW-day)

	3rd Trimester	0<2 years	2<9 years	2<16 years	16<30 years	16<70 years
	L/kg-day					
Mean	225	658	535	452	210	185
95th Percentile	361	1090	861	745	335	290

Source: OEHHA Hotspots Guidance Manual, 2015

2015 OEHHA Recommended Fraction of Time at Home for Evaluating Residential Cancer Risk

Age Range	Fraction of Time at Home
3rd Trimester and 0-2 Years	0.85
2-16 Years	0.72
16-70 Years	0.73

Source: OEHHA Hotspots Guidance Manual, 2015

	Dose						
PM10 Annual Cair	3rd Trimester	0<2 years	2<9 years	2<16 years	16<30 years	Cancer Risk	Chronic
0.009	8.92E-04	2.69E-03	1.80E-03	1.56E-03	7.11E-04	2.008	0.002

RISKair = (Cair x [BR/BW] x A x EF) x (1 x 10-6) x CPF x ED/AT

A = inhalation absorption factor	1	
EF = exposure frequency (days/365 days)	0.66	(240/365)
AT	25,550	
DPM CPF	1.1	$(mg/kg\text{-}day)^{-1}$
DPM Inhalation Chronic REL	5.0	(ug/m^3)
Exposure Duration (ED)	1	(years)