



3200 E. Foothill Boulevard Mixed Use Project

Health Risk Assessment

prepared for
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Table of Contents

1	Project Summary	1
1.1	Introduction	1
1.2	Summary	1
1.3	Project Site and Description.....	2
2	Air Quality Background.....	5
2.1	Local Climate and Meteorology	5
2.2	Air Pollutants of Concern	5
2.3	Air Quality Regulation	7
2.4	Current Air Quality	8
3	Impact Analysis.....	11
3.1	Methodology.....	11
3.2	Significance Thresholds.....	Error! Bookmark not defined.
3.3	Results.....	14
4	Conclusions and Recommendations.....	16
5	References	21

Tables

Table 1	Federal and State Ambient Air Quality Standards	8
Table 2	Ambient Air Quality Data	9
Table 3	Potential Health Risks at the MEIR	15
Table 4	Mitigated Potential Carcinogenic Health Risks Within the Project Site	19

Figures

Figure 1	Project Location.....	3
Figure 2	Map of Sources and Receptors.....	12

Appendices

Appendix A	Emissions Estimates (adapted from the UC Davis-Caltrans MSAT model), AERMOD Output, and HARP Risk Results
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1 Project Summary

1.1 Introduction

This Health Risk Assessment (HRA) analyzes the possible health effects associated with toxic air contaminant (TAC) emissions from Interstate 210 (I-210) for the 3200 East Foothill Boulevard Project, located at 3202 East Foothill Boulevard in Pasadena, California. The report has been prepared under contract to the City of Pasadena.

1.2 Summary

The proposed mixed-use project involves construction of eight buildings located at 3202 East Foothill Boulevard in Pasadena. This HRA conducts site-specific air dispersion modeling to determine whether health risks to future site residents from the I-210 mainline and associated ramps would exceed the South Coast Air Quality Management District's (SCAQMD) health risk criteria for residences. SCAQMD has health risk criteria for cancer, chronic, and acute health risks.

The California Air Resources Board's (ARB) *Air Quality and Land Use Handbook: A Community Health Perspective* recommends that local agencies avoid siting new, sensitive land uses within specific distances of potential sources of TACs, such as freeways, high-traffic roads, distribution centers, railroads, and ports (ARB 2005). In particular, ARB recommends that local agencies avoid siting new, sensitive land uses within 500 feet of a freeway. The primary concern is the effect of diesel exhaust particulate, a TAC, on sensitive uses. Near the project site, the primary source of diesel exhaust particulates is truck traffic traveling on the I-210 mainline and associated ramps. Although the Los Angeles Metro Gold Line runs between I-210 East (E) and I-210 West (W) near the project site, the light rail cars are electric and excluded from the analysis since the light rail cars would not be sources of TACs. In addition to diesel exhaust particulates from the I-210 mainline and associated ramps, this analysis also examined five other vehicle exhaust pollutants of concern that are emitted from both diesel and gasoline-fueled vehicles: acrolein, acetaldehyde, formaldehyde, benzene, and 1,3-butadiene.

Cancer risk is expressed as the maximum number of new cancer cases projected to occur in a population of one million people due to exposure to a cancer-causing substance. Typically, cancer risk is analyzed over a specific exposure duration, such as the average residency (50-percentile) of nine years or high-end residency (95-percentile) of 30 years (SCAQMD 2015a). For example, a cancer risk of one in one million means that in a population of one million people, not more than one additional person would be expected to develop cancer as the result of the exposure to the substance causing that risk. Thirty years is the exposure duration scenario recommended by SCAQMD for residential receptors in the *Risk Assessment Procedures for Rules 1401, 1401.1, and 212* (SCAQMD 2015a).

An analysis using the U.S. Environmental Protection Agency's (USEPA) AERMOD dispersion model and ARB's Hotspots Analysis and Reporting Program 2 (HARP 2; version 17023) risk analysis tool determined that the maximum exposed individual receptor (MEIR) on the project site would be exposed to a high end (95-percentile), 30-year excess cancer risk of approximately 25.3 in one million. This exceeds the SCAQMD recommended health risk criteria of ten excess cases of cancer in

one million individuals (SCAQMD 2015b). The excess cancer risk for the average (50-percentile) residency of nine years would be approximately 18.0 in one million, which also exceeds SCAQMD's recommended health risk criteria. Potential acute and chronic (such as lung inflammation, immune suppression, and immune sensitization) health risks for on-site residential units were determined to be below the SCAQMD hazard index of 1.0 for either acute or chronic effects.

This analysis is based on outdoor air concentrations and conservatively assumes that interior concentrations would be the same. However, USEPA activity factors show that, on average, people in a residential environment spend only a small portion of the day outdoors. Therefore, reducing indoor exposure to diesel exhaust particulates can substantially reduce the overall cancer risk. As such, inclusion of forced air ventilation with deep pleat filter screens with a minimum Minimum Efficiency Reporting Value (MERV) 13 rating on outside air intake ducts on all residential units is recommended. MERV 13 filter screens are capable of removing at least 90% of the particulate matter, including fine particulate matter. This would provide a clean interior environment and reduce the future residents' cancer risk to below the ten in one million level for the high-end estimate for residency time (95th percentile) of 30 years and the average (50th percentile) of nine years.

1.3 Project Site and Description

The proposed project is a mixed-use development located at 3202 East Foothill Boulevard in Pasadena, California. The project site encompasses 8.32 acres and has been occupied by the Space Bank Mini Storage Facility since 1977. The proposed project involves demolition of the 29 existing buildings on the site to construct eight separate buildings that would consist of 550 apartment units (481 market rate units, 23 moderate income units, and 46 low income units) and would include 165 studio, 165 one-bedroom, 191 two-bedroom, and 29 three-bedroom apartments, along with 9,800 square feet of retail space. The project would also include a two-level subterranean parking structure located on the north side of the property along Foothill Boulevard, and a five-level above grade parking structure located along the rear of the property. In addition, an approximately 0.21-acre accessory site located at the southwest corner of the site on the west side of Kinneloa Avenue is within the project boundary, but has not been programmed for use.

Interstate-210 (I-210) is located immediately south of the project site. In addition, the project site is within 500 feet of two I-210 ramps: one is an on-ramp from Sierra Madre Villa to I-210W, and the other is an off-ramp from I-210E to Sierra Madre Villa. Primary access to the site and parking areas would be from East Foothill Boulevard via the proposed continuation of Santa Paula Street that would bisect the site. Figure 1 is a map of the location of the proposed project.

Figure 1 Project Location



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2 Air Quality Background

2.1 Local Climate and Meteorology

The project site is within the South Coast Air Basin (SCAB), which is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east, and includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, in addition to the San Gorgonio Pass area in Riverside County. The regional climate within the SCAB is semi-arid and is characterized by warm summers, mild winters, infrequent seasonal rainfall, moderate daytime onshore breezes, and moderate humidity. The air quality within the SCAB is primarily influenced by meteorology and a wide range of emissions sources, such as dense population centers, substantial vehicular traffic, and industry.

Stationary and mobile sources primarily generate air pollutant emissions in the SCAB. Stationary sources can be divided into two major subcategories: point and area sources. Point sources occur at a specific location and are often identified by an exhaust vent or stack. Examples include boilers or combustion equipment that produce electricity or generate heat. Area sources are widely distributed and include such sources as residential and commercial water heaters, painting operations, lawn mowers, agricultural fields, landfills, and some consumer products. Mobile sources refer to emissions from motor vehicles, including tailpipe and evaporative emissions, and are classified as either on-road or off-road. On-road sources may be legally operated on roadways and highways. Off-road sources include aircraft, ships, trains, and self-propelled construction equipment. The natural environment can also generate air pollutants, such as when high winds suspend fine dust particles.

2.2 Air Pollutants of Concern

The SCAQMD monitors air pollutant levels to ensure that air quality standards are met and, if they are not met, develops strategies to meet the standards. The primary air pollutants of concern in the Air Basin include the following:

OZONE

Commonly referred to as “smog,” ozone results from a chemical reaction that takes place in the atmosphere among ozone precursors (reactive organic gases and oxides of nitrogen) under the photochemical influence of sunlight. Nitrogen oxides are formed during the combustion of fuels, while reactive organic compounds are formed during combustion and evaporation of organic solvents. Various factors affect this process, including the quantity of gases present, the volume of air available for dilution, the temperature, and the intensity of the ultraviolet light. Worst case conditions for ozone formation occur in the summer and early fall on warm, windless, sunny days. The major effects of photochemical smog are aggravation of respiratory diseases, eye irritation, visibility reduction, and vegetation damage. Motor vehicles are the greatest source of ozone precursors in Los Angeles, and the groups most sensitive to ozone include children, the elderly, people with respiratory disorders, and people who exercise strenuously outdoors.

SUSPENDED PARTICLES

PM₁₀ is small particulate matter measuring no more than 10 microns in diameter, while PM_{2.5} is fine particulate matter measuring no more than 2.5 microns in diameter. Both PM₁₀ and PM_{2.5} are composed mostly of dust particles, nitrates, and sulfates. The characteristics, sources, and potential health effects associated with the small particulates (those between 2.5 and 10 microns in diameter) and fine particulates (PM_{2.5}) can be very different. The small particulates generally come from windblown dust and dust kicked up from mobile sources. The fine particulates are generally associated with combustion processes and form in the atmosphere as a secondary pollutant through chemical reactions. PM₁₀ is a by-product of fuel combustion and wind erosion of soil and unpaved roads, and it is directly emitted into the atmosphere through these processes. Chemical reactions in the atmosphere also create PM₁₀. Fine particulate matter poses a serious health threat to all groups, but particularly to the elderly, children, and those with respiratory problems. More than half of the fine particulate matter that is inhaled into the lungs remains there, which can cause permanent lung damage. These materials can damage health by interfering with the body's mechanisms for clearing the respiratory tract or by acting as carriers of an absorbed toxic substance.

Diesel engine fuel combustion forms an important fraction of the particulate matter emission inventory, as particulates in diesel emissions are very small and readily respirable. The particles have hundreds of chemicals adsorbed onto their surfaces, including many known or suspected mutagens and carcinogens. The Office of Environmental Health Hazard Assessment (OEHHA) reviewed and evaluated the potential for diesel exhaust to affect human health, and the associated scientific uncertainties (CalEPA 1998). Based on the available scientific evidence, it was determined that a level of diesel PM exposure, below which no carcinogenic effects are anticipated, has not been identified. The Scientific Review Panel that approved the OEHHA report determined that, based on studies to date, 3×10^{-4} micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) is a reasonable estimate of the unit risk for diesel PM. This means that a person exposed to a diesel PM concentration of $1 \mu\text{g}/\text{m}^3$ continuously over the course of a lifetime has a 3 per 10,000 chance (or 300 in one million chance) of contracting cancer due to this exposure. Based on an estimated year 2000 statewide average concentration of $1.26 \mu\text{g}/\text{m}^3$ for indoor and outdoor ambient air, about 380 excess cancers per one million population could be expected if diesel PM concentrations remained the same (ARB 2000). Therefore, these particulate emissions have been determined by ARB to be a TAC.

Diesel PM emissions are estimated to be responsible for about 70% of the total ambient air toxics risk. In addition to these general risks, diesel PM can also be responsible for elevated localized or near-source exposures ("hot-spots"). Depending on the activity and nearness to receptors, these potential risks can range from small to 1,500 per million or more (ARB 2000).

ARB staff have conducted risk characterization scenarios to determine the potential excess cancer risks involved when individuals are near various sources of diesel engine emissions, ranging from school buses to high volume freeways. The purpose of the risk characterization was to estimate, through air dispersion modeling, the cancer risk associated with typical diesel-fueled engine or vehicle activities based on modeled PM concentration at the point of maximum impact. The study included various sources of diesel PM emissions, including idling school buses, truck stops, low- and high-volume freeways, and other sources. High-volume freeways (20,000 trucks per day) were estimated to cause 800-1,700 per million potential excess cancers, while low-volume freeways (2,000 trucks per day) were estimated to cause about 100-200 per million potential excess cancers (ARB 2000a).

Besides diesel PM, several other pollutants that are a public health concern are emitted by vehicle exhausts. The USEPA has identified six pollutants of highest priority: diesel particulate matter, acrolein, acetaldehyde, formaldehyde, benzene, and 1,3-butadiene. The latter five pollutants are part of the total organic gases emitted by diesel and gasoline fueled vehicles. A brief description of each of these chemicals follows:

- **Acrolein** is the simplest unsaturated aldehyde. It is a widely produced substance with a piercing, disagreeable, acrid smell similar to that of burning fat. Acrolein is an unstable toxic substance that can burn the nose and throat and is a severe pulmonary irritant. It is a flammable and poisonous substance prepared industrially by the oxidation of propene. Small amounts of acrolein are formed and enter the air when trees, tobacco, other plants, gasoline, and oil are burned.
- **Acetaldehyde**, sometimes known as ethanol, is an organic chemical compound used as an intermediate in the production of acetic acid, certain esters, and a number of other chemicals. It is a flammable liquid with a fruity smell. Acetaldehyde is a toxic when applied externally for prolonged periods, an irritant, and a probable carcinogen.
- **Formaldehyde** is an organic chemical compound containing a terminal carbonyl group. It is produced in the atmosphere by the action of sunlight and oxygen on atmospheric methane and other hydrocarbons, becoming a part of smog. Additionally, formaldehyde is an intermediate in the oxidation (or combustion) of methane as well as other carbon compounds including automobile exhaust. Formaldehyde is a flammable substance that can be toxic, allergenic, and carcinogenic. It is naturally made in small amounts in human bodies and is found in small amounts in household sources, such as fiberglass, carpets, permanent press fabrics, paper products, and some household cleaners.
- **Benzene**, or benzol, is an organic chemical compound and a known carcinogen. It is a colorless and highly flammable liquid with a sweet smell and a relatively high melting point. Benzene is an important industrial solvent and precursor in the production of drugs, plastics, synthetic rubber, and dyes. Benzene is a natural constituent of crude oil and may be synthesized from other compounds present in petroleum. It is found in gasoline and cigarette smoke. Natural sources of benzene include emissions from volcanoes and forest fires.
- **1,3-Butadiene** is an important industrial chemical used in the production of synthetic rubber (about 75% of manufactured 1,3-butadiene), which is then used primarily in the production of automobile tires. It is a colorless gas with a mild gasoline-like odor. Gasoline contains small amounts that are exhausted into the air after the combustion process. It is a carcinogen, highly irritative, and flammable.

2.3 Air Quality Regulation

Federal and state governments have established ambient air quality standards for the protection of public health. The USEPA is the federal agency designated to administer air quality regulation, while the ARB is the state equivalent in the California Environmental Protection Agency (CalEPA). County-level Air Quality Management Districts (AQMDs) provide local management of air quality. The ARB has established air quality standards and is responsible for the control of mobile emission sources, while the local AQMDs are responsible for enforcing standards and regulating stationary sources. The ARB has established 15 air basins statewide.

The USEPA has set primary national ambient air quality standards for ozone, CO, nitrogen dioxide (NO₂), sulfur dioxide (SO₂), PM₁₀, PM_{2.5}, and lead (Pb). Primary standards are those levels of air quality deemed necessary, with an adequate margin of safety, to protect public health. In addition,

the State of California has established health-based ambient air quality standards for these and other pollutants, some of which are more stringent than the federal standards. Table 1 lists the current federal and state standards for regulated pollutants

Table 1 Federal and State Ambient Air Quality Standards

Pollutant	Averaging Time	Federal Primary Standards	California Standard
Ozone	8-Hour	0.070 ppm	0.07 ppm
	1-Hour	---	0.09 ppm
Carbon Monoxide	8-Hour	9.0 ppm	9.0 ppm
	1-Hour	35.0 ppm	20.0 ppm
Nitrogen Dioxide	Annual	0.053 ppm	0.030 ppm
	1-Hour	0.100 ppm	0.18 ppm
Sulfur Dioxide	24-Hour	---	0.04 ppm
	1-Hour	0.075 ppm	0.25 ppm
PM ₁₀	Annual	---	20 µg/m ³
	24-Hour	150 µg/m ³	50 µg/m ³
PM _{2.5}	Annual	12 µg/m ³	12 µg/m ³
	24-Hour	35 µg/m ³	---
Lead	30-Day Average	---	1.5 µg/m ³
	3-Month Average	0.15 µg/m ³	---

ppm = parts per million; µg/m³ = micrograms per cubic meter
 Source: ARB 2016.

The SCAQMD is the designated air quality control agency in the SCAB. The SCAB is designated in nonattainment for the federal and state one-hour and eight-hour ozone standards, the federal and state PM_{2.5} standards, and the state PM₁₀ standards. The SCAB is designated unclassifiable/attainment for all other federal and state standards.

2.4 Current Air Quality

The SCAB monitoring station located nearest to the project site is the Pasadena-S Wilson Avenue Monitoring Station, which is located approximately 2.7 miles southwest of the project site. Table 2 indicates the number of days each of the standards has been exceeded at this station in each of the last three years for which data is available. Since PM₁₀ data was unavailable at the Pasadena-S Wilson Avenue Monitoring Station, Table 2 lists PM₁₀ data from the next closest station, Burbank-W Palm Avenue Monitoring Station, which is located approximately 13.4 miles west of the project site.

Table 2 Ambient Air Quality Data

Pollutant	2013	2014	2015
Ozone (ppm) - 8-Hr Average	0.075	0.096	0.084
Number of Days of State exceedances (>0.070)	2	13	18
Number of days of Federal exceedances (>0.070)	2	13	18
Ozone (ppm) - Worst Hour	0.099	0.124	0.111
Number of days of State exceedances (>0.09 ppm)	2	6	12
Nitrogen Dioxide (ppb) - Worst Hour	0.067	0.075	0.075
Number of days of State exceedances (>0.18 ppm)	0	0	0
Particulate Matter <10 microns ($\mu\text{g}/\text{m}^3$) - Worst 24 Hours	53.3	68.6	*
Number of samples of State exceedances (>50 $\mu\text{g}/\text{m}^3$)	1	1	*
Number of samples of Federal exceedances (>150 $\mu\text{g}/\text{m}^3$)	0	0	*
Particulate Matter <2.5 microns ($\mu\text{g}/\text{m}^3$) - Worst 24 Hours	25.7	32.5	48.5
Number of days above Federal standard (>35 $\mu\text{g}/\text{m}^3$)	0	0	2

* There was insufficient (or no) data available to determine the value.

Data was obtained for the Pasadena-S Wilson Avenue Monitoring Station for all pollutants except PM₁₀, which lists data from the Burbank-W Palm Avenue Monitoring Station.

Source: ARB 2017.

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3 Impact Analysis

3.1 Methodology

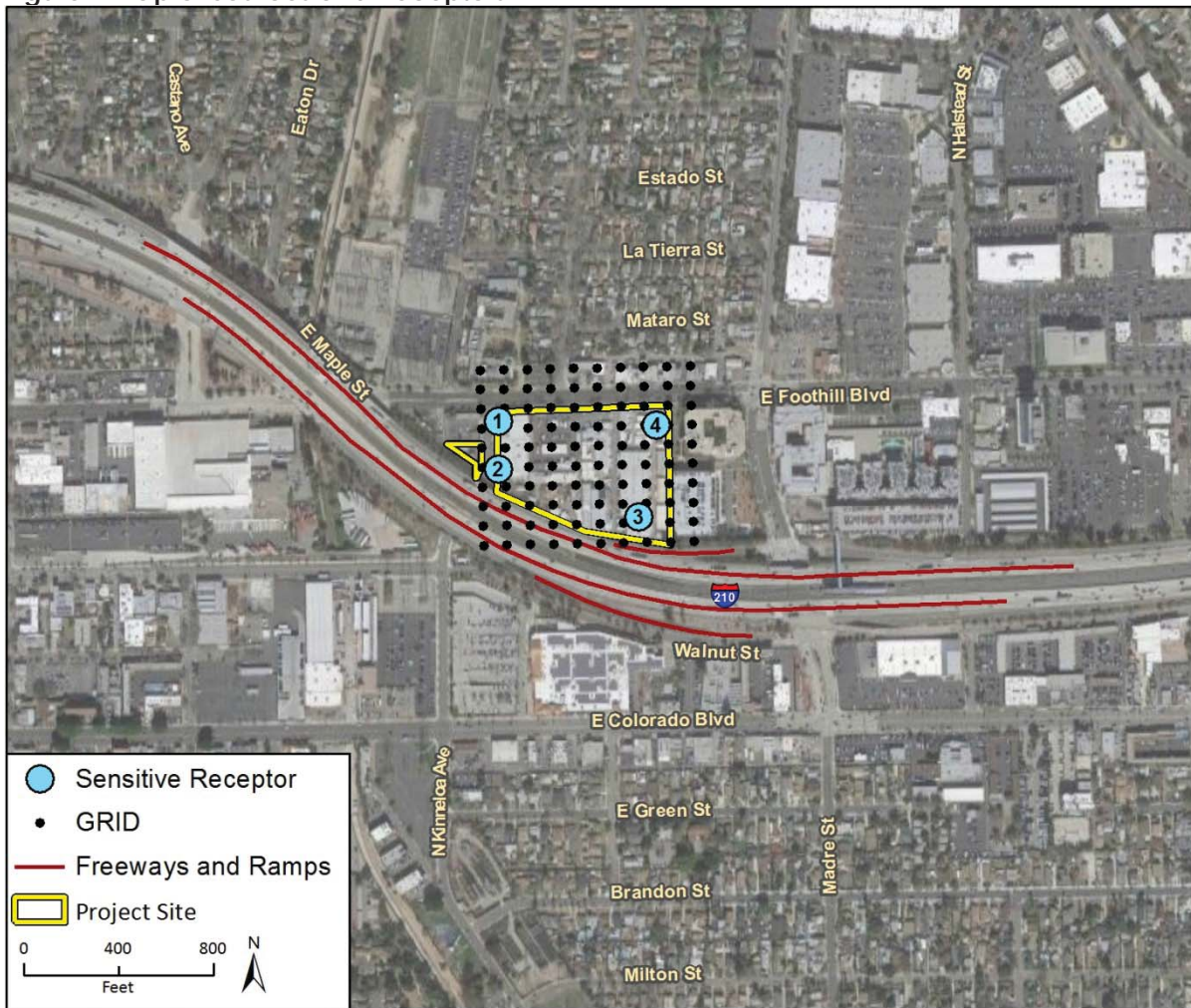
Mobile source TACs associated with vehicle traffic on I-210 and its associated on- and off-ramps within 500 feet of the project site were estimated based on the methodology developed by the UC Davis-Caltrans Air Quality Project, Estimating Mobile Source Air Toxics Emissions [MSAT]: A Step-By-Step Project Analysis Methodology (2006). This spreadsheet application was designed to generate the total amount of the above six pollutants of concern based on total organic gases emission factors and particulate emission factors from EMFAC2014. The UC Davis-Caltrans spreadsheet contained speciation factors from the ARB, and the USEPA's Motor Vehicle Emission Simulator (MOVES 2014) was used to supplement missing values for acrolein. These emission and speciation factors are then multiplied against traffic volumes for the mainline and ramp segments to obtain total emissions from I-210 within one half mile of the project site and from associated ramps within 500 feet of the project site. Emission factors for this study were based on grams per mile. Spreadsheet outputs adapted from the UC Davis-Caltrans MSAT model and composite emission rates are contained in Appendix A.

For mainline emissions, emission factors were reviewed for speeds between 50 and 65 miles per hour (mph). The worst reasonable case speed (i.e., highest emission levels) was 50 mph for heavy duty trucks and 65 mph for light duty trucks and cars. Therefore, emissions were based on an average speed of 50 mph for heavy duty trucks and 65 mph for light duty trucks and cars. For ramp emissions, emission factors were based on speeds of 35 mph and 50 mph, depending on whether it was an on-ramp or off-ramp.

Traffic volumes for the I-210 mainline were obtained from Caltrans *2015 Traffic Volumes on California State Highways*. According to the Caltrans traffic data (2015a), the Annual Average Daily Traffic (AADT) volume along the segment of I-210 east of the project site is 279,000 vehicles. Based on Caltrans *2015 Annual Average Daily Truck Traffic on the California State Highway System* (2015b), truck traffic comprises approximately 5.9% of I-210 AADT. Ramp AADT were obtained from Caltrans *2015 Ramp Volumes on the California State Freeway System: District 7* (2015c). The AADT on the I-210W on-ramp from Sierra Madre Villa is 8,500 vehicles, and the AADT on the I-210E off-ramp to Sierra Madre Villa is 9,800 vehicles. Truck traffic percentages from I-210 were used for corresponding ramps.

Four representative sensitive receptor locations on the project site were chosen. Health risks at the sensitive receptors were analyzed on each floor of the proposed four and five-story residential buildings, taking into account the proposed project's finished grade. The Point of Maximum Impact (PMI), which is typically at the border of the source (freeway fence), was not calculated since it is not relevant to the analysis given the specific location of the proposed residences. A receptor grid was used to evaluate whether or not sensitive receptor locations reflected the pattern of exposure. Grid points in the middle of the site were reflective of exposure at the chosen receptors. Figure 2 depicts the sources (freeways and ramps), receptor grid, and sensitive receptors.

Figure 2 Map of Sources and Receptors



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HRA_SensitiveReceptor

The American Meteorological Society/USEPA air dispersion model, AERMOD version 16216r, was utilized to calculate the concentrations of source emissions at the project site. Specific meteorology (i.e., prevailing winds) and terrain for the site were input to the model using the nearest available meteorological data set, SCAQMD’s Central Los Angeles station, and US Geological Survey (USGS) Digital Elevation Model (DEM) data for Mount Wilson. I-210 varies in elevation between approximately 214 and 231 meters above mean sea level (amsl) along the length of the approximately one-mile segment modeled. Ramps within 500 feet of the project site range in elevation from 213 to 227 meters amsl. Receptors on the project site are between approximately 222 and 234 meters amsl when the finished grade of the project is taken into account. The dispersion model considers these differences in topography. The I-210 mainline within a half-mile of the project site and on- and off-ramps within 500 feet of the project site were modeled as a series of volume sources in AERMOD. AERMOD provides X/Q ($CHI/Q = \chi/q = \chi/q$) values, the concentration estimated by the air quality model based on an emission rate of one gram per second.

For risk assessments conducted under the Air Toxics “Hot Spots” Information and Assessment Act (AB 2588, Connelly, Statutes of 1987; Health and Safety Code Section 44300 et seq.), a weighting factor that reflects early life exposure is applied to all carcinogens regardless of purported

mechanism of action. HARP 2 incorporates the early life exposure adjustments presented in OEHHA's 2015 *Air Toxics Hotspots Program Guidance Manual for Preparation of Health Risk Assessments* and is used in this analysis. HARP 2 calculates excess cancer risk based on the emission concentration at each sensitive or grid receptor using the toxicity data contained in the HARP 2 emissions inventory database. The chronic health risk value is calculated by HARP 2 using the OEHHA method of dividing the annual average concentration by the chronic inhalation reference exposure level (REL). The acute health risk value is calculated by HARP 2 using the OEHHA method of dividing the maximum one hour concentration by the acute inhalation REL (ARB 2015).

Three exposure pathways are considered for health effects: ingestion, dermal contact, and inhalation. The first two generally require direct contact with the contaminated medium (usually soil), while the latter includes the inhalation of vapors and respirable dust (usually in the form of PM₁₀). Inhalation is the only available pathway for the exhaust vapors that contain acrolein, acetaldehyde, formaldehyde, benzene, and 1,3-butadiene. Diesel PM is a respirable dust that can potentially be ingested (oral) or enter the body through contact with contaminated soil. Oral or non-inhalation exposure pathways include the ingestion of soil, fish, drinking water from surface waters, mother's milk, homegrown produce, beef, pork, chicken, eggs, and cow's milk. With respect to diesel PM, the oral pathway is available only through ingestion of contaminated soil, similar to dermal contact. However, oral slope toxicity for diesel PM is not listed by the OEHHA or by the USEPA Integrated Risk Information System (IRIS) because toxicity studies have focused on the inhalation hazard. Therefore, only the inhalation pathway is considered in this risk assessment.

Excess cancer risk is based on a stay-at-home resident present at the proposed residential units for the high-end estimate of 30 years, which is SCAQMD's recommended exposure duration for sensitive and residential receptors (SCAQMD 2015a). Although cancer risk is also commonly assessed for the 9-year and 70-year exposure durations, this analysis focuses on the recommended 30-year exposure and includes the 9-year exposure for informational purposes.

3.2 Evaluation Criteria

The USEPA's accepted risk management range for site-related exposures is one in 10,000 (1.0×10^{-4} or $1.0E-04$) and one in one million (1.0×10^{-6} or $1.0E-06$). In this range, site-specific conditions determine whether the potential risk is acceptable. However, cancer risk above one in 10,000 is considered unacceptable and requires further action. Passage of Proposition 65 (encoded in California Health and Safety Code Section 25249.6) in 1986 prohibits a person in the course of doing business from knowingly and intentionally exposing any individual to a chemical that has been listed as known to the state to cause cancer or reproductive toxicity without first giving clear and reasonable warning. For a chemical that is listed as a carcinogen, the "no significant risk" level under Proposition 65 is defined as the level that is calculated to result in not more than one excess case of cancer in 100,000 individuals ($1.0E-05$). The SCAQMD recommends the use of this risk level (also reportable as 10 in one million) as the applicable criteria for toxic air contaminants (SCAQMD 2015b).

In addition, the SCAQMD recommends that the non-carcinogenic hazards of toxic air contaminants should not exceed a hazard index of 1.0 for either chronic or acute effects (SCAQMD 2015b). Acute effects are due to short-term exposure, while chronic effects are due to long-term exposure to a substance. For chronic and acute risks, the hazard index is calculated as the summation of the hazard quotients for all chemicals to which an individual would be exposed.

To provide a perspective on risk, the American Cancer Society (2007) reports that in the U.S., men have about a one in two chance (0.50 probability) and women about a one in three chance (0.33) of developing cancer during a lifetime, with almost one in four deaths (0.23) in the U.S. attributed to cancer. Based on this background cancer risk level in the general population, application of a 1.0E-05 excess risk limit means that the contribution from a toxic hazard should not cause the resultant cancer risk for the exposed population to exceed 0.50001 for men or 0.33001 for women.

3.3 Results

Potential health risks were modeled for all four sensitive receptor locations, as shown in Table 3. Carcinogenic health risk exceeding the evaluation criterion of ten excess cancer cases per one million population was identified at three of the four sensitive receptor locations for both 30-year and 9-year exposures. Residential 3 exceeds the 30-year criterion, but is below the evaluation criterion for the 9-year exposure. For the 30-year exposure, excess cancer risk for Residential 1 through 4 would be between 11.8 and 25.3 in one million. Risk levels would be slightly higher at residences located on the western side of the project site (Residential 1 and 2) in comparison to residences located on the eastern side of the project site (Residential 3 and 4); this slight variation in risk exposure across the site is due to the effects of local topography and meteorology (i.e., prevailing winds), and the relative location of I-210 to receptors on the project site. In comparison, excess cancer risk for the 9-year exposure would be between 8.4 and 18.0 in one million. Diesel exhaust particulates are the major source of the carcinogenic health risk, as they are responsible for 71% of the calculated cancer risk at the maximum exposed individual receptor (MEIR), which is at Residential 1. Potential acute and chronic (such as lung inflammation, immune suppression, and immune sensitization) health risks were below SCAQMD's health risk criteria of 1.0 for all sensitive receptors. This analysis is based on outside air concentrations and conservatively assumes that interior concentrations would be the same. See Appendix A for more detailed accounting of the risk at each site per pollutant of concern.

Table 3 Potential Health Risks at Sensitive Receptors

Exposure Duration	Cancer Risk		Chronic Risk		Acute Risk	
	Excess Cancer Risk	Exceed Criterion? (>1.0E-05)	Chronic Hazard Quotient	Exceed Criterion? (>1?)	Acute Hazard Quotient	Exceed Criterion? (>1?)
Residential 1						
30-Year	2.53E-05 (25.3 in one million)	Yes	0.01	No	0.01	No
9-Year	1.80E-05 (18.0 in one million)	Yes	0.01	No	0.01	No
Residential 2						
30-Year	2.22E-05 (22.2 in one million)	Yes	0.01	No	0.01	No
9-Year	1.58E-05 (15.8 in one million)	Yes	0.01	No	0.01	No
Residential 3						
30-Year	1.18E-05 (11.8 in one million)	Yes	0.01	No	0.01	No
9-Year	8.41E-06 (8.4 in one million)	No	0.01	No	0.01	No
Residential 4						
30-Year	1.82E-05 (18.2 in one million)	Yes	0.01	No	0.01	No
9-Year	1.29E-05 (12.9 in one million)	Yes	0.01	No	0.01	No

All floor levels were modeled for each sensitive receptor (see Figure 2). This table reports risk from the floor exposed to the greatest cancer, acute, or chronic risk level. Refer to Appendix A for complete model results.

4 Conclusions and Recommendations

The proposed use of the site for residential development would expose on-site residents to substantial carcinogenic health risks associated with TAC emissions, specifically diesel exhaust particulates, based upon SCAQMD health risk criteria. The calculated risk is based on exposure to outdoor air 24 hours per day. However, the USEPA *Exposure Factors Handbook* indicates that the recommended daily activity pattern includes 16.6 hours per day spent inside and 2.3 hours per day outside (USEPA 2011). The remaining daily time is spent off-site. As a conservative simplifying assumption, this analysis presumes that residents would have the windows open sufficiently to equalize the concentration of pollutants between the indoor and outdoor environment. In reality, while operating, the HVAC system typically produces a positive pressure system that results in most air coming into the building through the HVAC system, rather than open windows. Therefore, this simplifying assumption results in a calculated risk that is likely to be nearly an order of magnitude higher than actual indoor risk.

Diesel particulates will also settle out to some unknown extent on window screens and other surfaces as outdoor air enters into the indoor air environment, though at least a portion of this settled material would become re-suspended during cleaning and other activities. Therefore, it is likely that this analysis over-estimates the carcinogenic health risk. Furthermore, current regulatory action by ARB is intended to reduce the amount of diesel exhaust particulates associated with on-road diesel trucks in the future (note that the analysis was based on year 2019 composite emission factors). Conversely, vehicle emissions are based on current traffic estimates; truck traffic growth that may occur in the future along this portion of I-210 may result in increased emissions on a per mile basis, but such increases in truck traffic will be offset to some degree by changes in both the truck and non-diesel vehicle fleets as newer, less polluting vehicles become the majority portion of the fleet populations. Nevertheless, the potential effect of exposure to diesel particulate air pollutants at this site exceeds the carcinogenic health risk criteria of ten in one million at the MEIR for the 30-year residency scenarios.

Based on the above analysis, the potential carcinogenic health risk can be reduced by controlling the amount of diesel exhaust particulates that the residents are exposed to in the indoor environment. According to the ARB advisory, *Strategies to Reduce Air Pollution Exposure near High-Volume Roadways*, “Research shows that both high efficiency filtration in central ventilation systems and portable air cleaners can effectively remove particles in most circumstances” (ARB 2017b; page 36). The advisory also states that MERV 13 filters remove more than 90 percent of particulates 1.0 to 10 microns in diameter, and more than 75 percent of ultrafine particulate matter (less than 1.0 microns in diameter; ARB 2017b), while MERV 16 filters remove over 98 percent of ultrafine particulates. Including high efficiency filters on HVAC systems can affect air flow through the system; however, research cited by the ARB advisory indicates that air flow resistance for the highest MERV filters tested did not create substantial issues for the HVAC system. According to the advisory, “a deep pleat MERV16 filter reduced airflow by just 2.7 percent and a 1-inch MERV13 filter reduced airflow by 4.9 percent” (ARB 2017b; page 37).

ARB’s advisory also found that, while less efficient than filtration on forced air HVAC systems, portable or stand-alone air cleaning devices can also provide filtration. The ARB found that portable

air cleaners with high efficiency filters can typically achieve 30 to 60 percent removal of particles, when sized for the space being treated.

Lastly, the advisory recognizes solid barriers, such as the project’s proposed parking structure that would be located between residences and Interstate 210, as a strategy for reducing concentrations of traffic pollution and associated health risks. While it is not possible to quantify the risk reduction associated with the proposed parking structure due to modeling limitations, it is clear from ARB’s advisory that risk levels would be lower throughout the project site than estimated in this report. Therefore, the report provides a conservative estimate of health risk.

Based on guidance provided by the ARB advisory, the following actions are recommended to reduce overall cancer risk:

- Provide forced air mechanical ventilation with deep pleat (minimum 5-inch) fresh air filtration screens on outside air intake ducts for all residential units proposed on the site. The filter screens should have a minimum MERV 13 rating, capable of removing at least 90% of the particulate matter including fine particulate matter (PM_{2.5}) and ultrafine particulate matter (less than 1.0 microns in diameter).¹ Air intakes should be located on the side of the building facing away from I-210 and windows facing I-210 should not be capable of opening, unless warranted to comply with California Building Code requirements for emergency egress.
- For individual residential units with separate HVAC systems, at the time of lease signing provide a brochure notifying the future residents of the need for maintaining the filter screens and keeping windows closed to ensure adequate fresh air filtration. In addition, record a notice of the risk hazard of diesel particulates and the need for screen maintenance in the property title and include this notice with lease agreements. Lastly, require the management company to be responsible for replacing HVAC filter screens in accordance with manufacturer recommendations.
- Portable air cleaning devices, appropriately sized for residential use based on room size recommendations included in the Association of Home Appliance Manufacturers (AHAM) portable air cleaner Certification Program,² with HEPA filter screens should also be provided for living rooms and bedrooms for all units. This requirement provide filtration when the HVAC system is not running, and would ensure that in the event that outdoor air enters the indoor environment, such as through an open window, particulate matter would continue to be reduced in the indoor space. At the time of lease signing, provide a brochure notifying the future residents of the need for maintaining/replacing the filter screens and the manufacturer’s recommendations and specifications for filter maintenance/replacement.
- Weatherproof windows and doors with caulking and weather-stripping that is rated to last at least 20 years.

These recommendations would remove particulates before they enter the indoor environment, thereby reducing the overall exposure of individual residents. The above recommendations would apply to all residential receptors on the project site. Mitigated health risk values were derived using the following equation:

$$\text{Mitigated Risk} = ([\text{Unmitigated Risk}]/\text{EF}*\text{EF}_a) + ((1 - (\text{FE}*\text{DPM})) * ([\text{Unmitigated Risk}]/\text{EF}*\text{EF}_{ai})), \text{ where:}$$

¹ Although ARB’s advisory indicates MERV 16 filters are capable of reducing ultrafine particulates by over 98 percent, the filter efficiency cited here and used in the mitigated risk calculation below is based on the composite average particle size efficiency reported by the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) Standard 52.2 (see Appendix A).

² <http://ahamverifide.org/search-for-products/room-air-cleaners/>

EF =	Exposure frequency in days per year	= 350
EF _a =	Exposure frequency adjusted outside (only 2.3 hours/day outside)	= 33.5
EF _{ai} =	Exposure frequency adjusted inside (16.9 hours/day inside)	= 246.5
FE =	Filter efficiency	= 90%
DPM =	Percent of risk associated with DPM (i.e. reduced by filter)	= 71%

Table 4 indicates the calculated cancer risk at each maximally exposed sensitive receptor in each building with implementation of the above recommendations. The estimated reduction in cancer risk assumes removal of the DPM by the HVAC system with MERV 13 filter screen (these filters have efficiency rates exceeding 90%), but continued exposure to outside air on the project site for a period of 2.3 hours daily (USEPA 2011). As Table 4 indicates, the filtration system and other recommendations would reduce the overall cancer risk for all receptors to below the ten in one million level for the 30-year scenario (95th percentile). The risk estimates below do not take into account the risk reduction associated with the proposed parking structure or the recommended portable air cleaning devices, which could be used in the event that outdoor air enters the indoor environment without the benefit of the HVAC system with filter screen (such as through an open window).

Table 4 Mitigated Potential Carcinogenic Health Risks Within the Project Site

	Mitigated Cancer Risk ¹	Exceed Criterion? (>1.0E-05)
Residential 1		
30-Year	8.85E-06 (8.8 in one million)	No
9-Year	6.29E-06 (6.3 in one million)	No
Residential 2		
30-Year	7.76E-06 (7.8 in one million)	No
9-Year	5.51E-06 (5.5 in one million)	No
Residential 3		
30-Year	4.15E-06 (4.1 in one million)	No
9-Year	2.95E-06 (2.9 in one million)	No
Residential 4		
30-Year	6.36E-06 (6.4 in one million)	No
9-Year	4.52E-06 (4.5 in one million)	No

¹ Mitigated cancer risk was calculated using a filter efficiency of 90% for DPM (assumes 71% of risk is associated with DPM). All floor levels were modeled for each sensitive receptor (see Figure 2). This table includes cancer risk levels for the maximally exposed sensitive receptor in each building. Refer to Appendix A for complete model results.

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Appendix A

Emissions Estimates (adapted from the UC Davis-Caltrans MSAT model), AERMOD Output,
and HARP Risk Results

Emissions Calculations: I-210

ADT	AADT per direction	Caltrans Truck %	Number of daily trucks	Diesel Trucks ¹	Gas Trucks ¹	LD Vehicles	LD Diesel ²	All Gas
279,000	139,500	5.90%	8,231	1,761	6,470	131,269	753	136,986

Sources: Caltrans, 2015 Traffic Volumes on California State Highways; 2015 Annual Average Daily Truck Traffic on the California Highway System.

¹ "Translation Factors" (% of trucks that are diesel-powered; they translate Caltrans truck data into an estimate of diesel vehicles)

Diesel Proportion:	21.4%
Non-Diesel Proportion:	78.6%

Source: UC Davis-Caltrans Air Quality Project, Project-Level Mobile Source Air Toxics Analysis

² Light Duty Diesel proportion based on vehicle miles traveled for LDA, LDT1, and LDT2 for Year 2014, South Coast Air Basin, EMFAC2014.

Speed (miles/hour)	Truck Diesel Vehicles		Light Duty Diesel Vehicles		All Gas Vehicles
	hot stabilized exhaust PM (grams/mile)	hot stabilized exhaust TOG (grams/mile)	hot stabilized exhaust PM (grams/mile)	hot stabilized exhaust TOG (grams/mile)	hot stabilized exhaust TOG (grams/mile)
50 mph for trucks, 65 mph for light duty and gas	0.0377	0.0891	0.0203	0.0316	0.0470

Source: EMFAC2014 Emissions Database

Mobile Source Air Toxics (MSAT) Speciation Factors Based on Proportion In TOG

Analysis Year	Diesel					Non-Diesel				
	Hot Stabilized Exhaust					Hot Stabilized Exhaust				
	benzene	1,3-butadiene	Acetaldehyde	Acrolein*	Formaldehyde	benzene	1,3-butadiene	Acetaldehyde	Acrolein	Formaldehyde
2019	0.0200	0.0019	0.0735	0.0061	0.1471	0.0222	0.0049	0.0029	0.0011	0.0147
Total Daily Emissions (g/mi)	3.62	0.34	13.29	1.10	26.59	142.83	31.83	18.42	7.28	94.65

Source: UC Davis-Caltrans Air Quality Project, Project-Level Mobile Source Air Toxics Analysis

* Acrolein for diesel was unavailable and used U.S. Environmental Protection Agency Motor Vehicle Emission Simulator (MOVES2014a).

Derivation of Emission Rates for I-210 Sources

Freeway width, one way	100.7 feet	30.7 m	7 lanes on I-210W			
Each direction segment at	1007.2 feet long	307 m long				
Emissions						
	Diesel PM	Benzene	1,3-Butadiene	Acetaldehyde	Acrolein	Formaldehyde
grams/mi/day **	81.6967	146.4440	32.1778	31.7055	8.3765	121.2473
lbs/hour/segment	0.0014	0.0026	0.0006	0.0006	0.0001	0.0021
lbs/day/segment	0.0344	0.0616	0.0135	0.0133	0.0035	0.0510
lbs/year/segment ***	12.5407	22.4797	4.9394	4.8669	1.2858	18.6119
Freeway width, one way	89.9 feet	27.4 m	6 lanes on I-210E			
Each direction segment at	899.0 feet long	274 m long				
Emissions						
	Diesel PM	Benzene	1,3-Butadiene	Acetaldehyde	Acrolein	Formaldehyde
grams/mi/day **	81.6967	146.4440	32.1778	31.7055	8.3765	121.2473
lbs/hour/segment	0.0013	0.0023	0.0005	0.0005	0.0001	0.0019
lbs/day/segment	0.0307	0.0550	0.0121	0.0119	0.0031	0.0455
lbs/year/segment ***	11.1927	20.0633	4.4085	4.3438	1.1476	16.6113

** Total emissions per mile calculated using the above speciation factors.

*** Based on 365 day/year

Ramp Key and Caltrans Traffic Volumes - Ramp AADT
4/6/2017

Ramp #	Post Mile	Description	# of Lanes	Width (m) + Mixing Zone	ADT	Source Year	Speed
1a	29.187	WB on from Sierra Madre Villa	2	13.5	8,500	2012	50
1b	29.187	WB on from Sierra Madre Villa	1	9.7	8,500	2012	50
2	29.145	EB off Sierra Madre Villa	2	12.6	9,800	2013	35

Source: Caltrans 2015.
<http://www.dot.ca.gov/trafficops/census/docs/2015-ramp-vol-district07.pdf>

Emissions Calculations: Ramp #1 (WB on from Sierra Madre Villa)

AADT	AADT per direction	Caltrans Truck %	Number of daily trucks	Diesel Truck ¹	Gas Truck ¹	LD Vehicles	LD Diesel ²	All Gas
8,500	4,250	5.90%	251	54	197	3,999	23	4,173

Sources: Caltrans. 2015 Traffic Volumes on California State Highways; 2015 Annual Average Daily Truck Traffic on the California Highway System.

¹ Translation Factors* (% of trucks that are diesel-powered; they translate Caltrans truck data into an estimate of diesel vehicles)

Diesel Proportion:	21.4%
Non-Diesel Proportion:	78.6%

Source: UC Davis-Caltrans Air Quality Project, Project-Level Mobile Source Air Toxics Analysis

² Light Duty Diesel proportion based on vehicle miles traveled for LDA, LDT1, and LDT2 for Year 2014, South Coast Air Basin, EMFAC2014.

Speed (miles/hour)	Truck Diesel Vehicles		Light Duty Diesel Vehicles		All Gas Vehicles
	hot stabilized exhaust PM (grams/mile)	hot stabilized exhaust TOG (grams/mile)	hot stabilized exhaust PM (grams/mile)	hot stabilized exhaust TOG (grams/mile)	hot stabilized exhaust TOG (grams/mile)
50	0.037728875	0.089142691	0.016190855	0.026276185	0.037223784

Source: EMFAC2014 Emissions Database

Mobile Source Air Toxics (MSAT) Speciation Factors Based on Proportion In TOG

Analysis Year	Diesel					Non-Diesel				
	Hot Stabilized Exhaust					Hot Stabilized Exhaust				
	benzene	1,3-butadiene	Acetaldehyde	Acrolein*	Formaldehyde	benzene	1,3-butadiene	Acetaldehyde	Acrolein	Formaldehyde
2019	0.020009	0.001900	0.073526	0.006088	0.147133	0.022182	0.004944	0.002860	0.001130	0.014700
Total Daily Emissions (g/mi)	0.11	0.49	7.42	0.00	17.84	3.45	0.77	0.44	0.18	2.28

Source: UC Davis-Caltrans Air Quality Project, Project-Level Mobile Source Air Toxics Analysis

* Acrolein for diesel was unavailable and used U.S. Environmental Protection Agency Motor Vehicle Emission Simulator (MOVES2014a).

Derivation of Emission Rates for I-210 Sources: Ramp #1 (WB on from Sierra Madre Villa)						
Freeway width, one way	44.3 feet		13.5 m		2 lanes	
Each direction segment at	442.9 feet long		135 m long			
	Emissions					
	Diesel PM	Benzene	1,3-Butadiene	Acetaldehyde	Acrolein	Formaldehyde
grams/mi/day **	2.4105	3.5540	1.2628	7.8655	0.1755	20.1266
lbs/hour/segment	0.0000	0.0000	0.0000	0.0001	0.0000	0.0002
lbs/day/segment	0.0004	0.0007	0.0002	0.0015	0.0000	0.0037
lbs/year/segment ***	0.1627	0.2399	0.0852	0.5309	0.0118	1.3586
Freeway width, one way	31.8 feet		9.7 m		1 lane	
Each direction segment at	318.2 feet long		97 m long			
	Emissions					
	Diesel PM	Benzene	1,3-Butadiene	Acetaldehyde	Acrolein	Formaldehyde
grams/mi/day **	2.4105	3.5540	1.2628	7.8655	0.1755	20.1266
lbs/hour/segment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
lbs/day/segment	0.0003	0.0005	0.0002	0.0010	0.0000	0.0027
lbs/year/segment ***	0.1169	0.1724	0.0612	0.3815	0.0085	0.9762

** Total emissions per mile calculated using the above speciation factors.

*** Based on 365 day/year

Emissions Calculations: Ramp #2 (EB off Sierra Madre Villa)

AADT	AADT per direction	Caltrans Truck %	Number of daily trucks	Diesel Truck ¹	Gas Truck ¹	LD Vehicles	LD Diesel ²	All Gas
9,800	4,900	5.90%	289	62	227	4,611	27	4,811

Sources: Caltrans, 2015 Traffic Volumes on California State Highways; 2015 Annual Average Daily Truck Traffic on the California Highway System.

¹ "Translation Factors" (% of trucks that are diesel-powered; they translate Caltrans truck data into an estimate of diesel vehicles)

Diesel Proportion:	21.4%
Non-Diesel Proportion:	78.6%

Source: UC Davis-Caltrans Air Quality Project, Project-Level Mobile Source Air Toxics Analysis

² Light Duty Diesel proportion based on vehicle miles traveled for LDA, LDT1, and LDT2 for Year 2014, South Coast Air Basin, EMFAC2014.

Speed (miles/hour)	Truck Diesel Vehicles		Light Duty Diesel Vehicles		All Gas Vehicles
	hot stabilized exhaust PM (grams/mile)	hot stabilized exhaust TOG (grams/mile)	hot stabilized exhaust PM (grams/mile)	hot stabilized exhaust TOG (grams/mile)	hot stabilized exhaust TOG (grams/mile)
35	0.033754071	0.20773688	0.018803051	0.033229324	0.04639923

Source: EMFAC2014 Emissions Database

Mobile Source Air Toxics (MSAT) Speciation Factors Based on Proportion In TOG

Analysis Year	Diesel					Non-Diesel				
	Hot Stabilized Exhaust					Hot Stabilized Exhaust				
	benzene	1,3-butadiene	Acetaldehyde	Acrolein*	Formaldehyde	benzene	1,3-butadiene	Acetaldehyde	Acrolein	Formaldehyde
2019	0.020009	0.001900	0.073526	0.006088	0.147133	0.022182	0.004944	0.002860	0.001130	0.014700
Total Daily Emissions (g/mi)	0.28	0.03	1.01	0.08	2.02	4.95	1.10	0.64	0.25	3.28

Source: UC Davis-Caltrans Air Quality Project, Project-Level Mobile Source Air Toxics Analysis

* Acrolein for diesel was unavailable and used U.S. Environmental Protection Agency Motor Vehicle Emission Simulator (MOVES2014a).

Derivation of Emission Rates for I-210 Sources: Ramp #2 (EB off Sierra Madre Villa)

Freeway width, one way 41.3 feet 12.6 m 2 lanes
 Each direction segment at 413.4 feet long 126 m long

	Emissions					
	Diesel PM	Benzene	1,3-Butadiene	Acetaldehyde	Acrolein	Formaldehyde
grams/mi/day **	2.5924	5.2274	1.1299	1.6504	0.3361	5.3067
lbs/hour/segment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
lbs/day/segment	0.0004	0.0009	0.0002	0.0003	0.0001	0.0009
lbs/year/segment ***	0.1633	0.3293	0.0712	0.1040	0.0212	0.3343

** Total emissions per mile calculated using the above speciation factors.

*** Based on 365 day/year

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BOULEVARD_3. 29. 18\pl t\MAX1HR1004. PLT" 34

PLOTFILE 1 1005 1ST "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
BOULEVARD_3. 29. 18\pl t\MAX1HR1005. PLT" 35

PLOTFILE 1 1006 1ST "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
BOULEVARD_3. 29. 18\pl t\MAX1HR1006. PLT" 36

PLOTFILE 1 1007 1ST "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
BOULEVARD_3. 29. 18\pl t\MAX1HR1007. PLT" 37

PLOTFILE 1 1008 1ST "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
BOULEVARD_3. 29. 18\pl t\MAX1HR1008. PLT" 38

PLOTFILE 1 1009 1ST "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
BOULEVARD_3. 29. 18\pl t\MAX1HR1009. PLT" 39

PLOTFILE 1 1010 1ST "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
BOULEVARD_3. 29. 18\pl t\MAX1HR1010. PLT" 40

PLOTFILE 1 3001 1ST "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
BOULEVARD_3. 29. 18\pl t\MAX1HR3001. PLT" 41

PLOTFILE 1 3002 1ST "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
BOULEVARD_3. 29. 18\pl t\MAX1HR3002. PLT" 42

PLOTFILE 1 3003 1ST "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
BOULEVARD_3. 29. 18\pl t\MAX1HR3003. PLT" 43

PLOTFILE 1 3004 1ST "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
BOULEVARD_3. 29. 18\pl t\MAX1HR3004. PLT" 44

PLOTFILE 1 3005 1ST "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
BOULEVARD_3. 29. 18\pl t\MAX1HR3005. PLT" 45

PLOTFILE PERIOD 1001 "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
BOULEVARD_3. 29. 18\pl t\PERIOD1001. PLT" 46

PLOTFILE PERIOD 1002 "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
BOULEVARD_3. 29. 18\pl t\PERIOD1002. PLT" 47

PLOTFILE PERIOD 1003 "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
BOULEVARD_3. 29. 18\pl t\PERIOD1003. PLT" 48

PLOTFILE PERIOD 1004 "C:\Users\I sarqui\I a\Desktop\HARP2 Model s\3200 E. FOOTHILL

3200 E. FOOTHILL BOULEVARD_AERMOD.out

BOULEVARD_3. 29. 18\pl t\PERIOD1004. PLT" 49
 PLOTFILE PERIOD 1005 "C:\Users\I sarqui I I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
 BOULEVARD_3. 29. 18\pl t\PERIOD1005. PLT" 50
 PLOTFILE PERIOD 1006 "C:\Users\I sarqui I I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
 BOULEVARD_3. 29. 18\pl t\PERIOD1006. PLT" 51
 PLOTFILE PERIOD 1007 "C:\Users\I sarqui I I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
 BOULEVARD_3. 29. 18\pl t\PERIOD1007. PLT" 52
 PLOTFILE PERIOD 1008 "C:\Users\I sarqui I I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
 BOULEVARD_3. 29. 18\pl t\PERIOD1008. PLT" 53
 PLOTFILE PERIOD 1009 "C:\Users\I sarqui I I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
 BOULEVARD_3. 29. 18\pl t\PERIOD1009. PLT" 54
 PLOTFILE PERIOD 1010 "C:\Users\I sarqui I I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
 BOULEVARD_3. 29. 18\pl t\PERIOD1010. PLT" 55
 PLOTFILE PERIOD 3001 "C:\Users\I sarqui I I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
 BOULEVARD_3. 29. 18\pl t\PERIOD3001. PLT" 56
 PLOTFILE PERIOD 3002 "C:\Users\I sarqui I I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
 BOULEVARD_3. 29. 18\pl t\PERIOD3002. PLT" 57
 PLOTFILE PERIOD 3003 "C:\Users\I sarqui I I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
 BOULEVARD_3. 29. 18\pl t\PERIOD3003. PLT" 58
 PLOTFILE PERIOD 3004 "C:\Users\I sarqui I I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
 BOULEVARD_3. 29. 18\pl t\PERIOD3004. PLT" 59
 PLOTFILE PERIOD 3005 "C:\Users\I sarqui I I a\Desktop\HARP2 Model s\3200 E. FOOTHILL
 BOULEVARD_3. 29. 18\pl t\PERIOD3005. PLT" 60
 OUFINISHED

 *** SETUP Finishes Successfully ***

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 1
 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN

*** 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 15 Source(s),
 for Total of 1 Urban Area(s):
 Urban Population = 9862049.0 ; 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:

3200 E. FOOTHILL BOULEVARD_AERMOD.out
TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: OTHER

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

**This Run Includes: 15 Source(s); 15 Source Group(s); and 119
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 15 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: 14134

**Output Options Selected:

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

**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) = 87.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.6 MB of RAM.

**Detailed Error/Message File: C:\Users\lsarqui\Ila\Desktop\HARP2 Model s\3200 E.
FOOTHILL BOULEVARD_3.29.18\3200 E. FOOTHILL BOU
♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
Project *** 03/30/18
*** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
*** 08:23:51

PAGE 2

*** MODELOPTs: RegDFault CONC ELEV URBAN

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	RATE		ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	(METERS)	(METERS)	(METERS)
ID	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)
		CATS.			(METERS)	(METERS)	(METERS)

(METERS)

1001		0	0.10000E+01	399462.0	3779510.0	225.5	3.00	71.40
3.70	YES							
1002		0	0.10000E+01	399696.0	3779313.0	220.1	3.00	71.40
3.70	YES							
1003		0	0.10000E+01	399951.0	3779144.0	216.2	3.00	71.40
3.70	YES							
1004		0	0.10000E+01	400251.0	3779087.0	213.1	3.00	71.40
3.70	YES							
1005		0	0.10000E+01	400558.0	3779094.0	209.8	3.00	71.40
3.70	YES							
1006		0	0.10000E+01	399502.0	3779437.0	223.3	3.00	63.70
3.40	YES							
1007		0	0.10000E+01	399706.0	3779252.0	218.5	3.00	63.70
3.40	YES							
1008		0	0.10000E+01	399935.0	3779102.0	215.4	3.00	63.70
3.40	YES							
1009		0	0.10000E+01	400200.0	3779046.0	213.1	3.00	63.70
3.40	YES							
1010		0	0.10000E+01	400474.0	3779050.0	209.7	3.00	63.70
3.40	YES							
3001		0	0.10000E+01	400145.0	3779121.0	214.7	3.00	31.40
2.50	YES							
3002		0	0.10000E+01	400029.0	3779130.0	215.7	3.00	22.60
2.20	YES							
3003		0	0.10000E+01	399929.0	3779085.0	215.3	3.00	29.30
2.40	YES							
3004		0	0.10000E+01	400046.0	3779037.0	213.8	3.00	29.30
2.40	YES							
3005		0	0.10000E+01	400171.0	3779014.0	212.7	3.00	29.30
2.40	YES							

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Project 03/30/18
*** AERMET - VERSION 14134 *** *** Heal th Ri sk Assessment 3.30.18
08:23:51

PAGE 3

*** MODELOPTs: RegDFault CONC ELEV URBAN

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
1001	1001 ,
1002	1002 ,
1003	1003 ,
1004	1004 ,
1005	1005 ,
1006	1006 ,
1007	1007 ,

3200 E. FOO TH I L L B O U L E V A R D _ A E R M O D . o u t

1008 1008 ,
1009 1009 ,
1010 1010 ,
3001 3001 ,
3002 3002 ,
3003 3003 ,
3004 3004 ,

3005 3005 ,
♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi l l B o u l e v a r d M i x e d - U s e
Project *** 03/30/18
*** AERMET - VERSION 14134 *** *** H e a l t h R i s k A s s e s s m e n t 3 . 3 0 . 1 8
*** 08: 23: 51

*** MODEL OPTS: Reg DFAULT CONC ELEV URBAN PAGE 4

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID URBAN POP SOURCE IDs

1005 9862049. 1001 , 1002 , 1003 , 1004 ,
1008 , 1006 , 1007 ,
3004 1009 , 1010 , 3001 , 3002 , 3003 ,
3005

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi l l B o u l e v a r d M i x e d - U s e
Project *** 03/30/18
*** AERMET - VERSION 14134 *** *** H e a l t h R i s k A s s e s s m e n t 3 . 3 0 . 1 8
*** 08: 23: 51

*** MODEL OPTS: Reg DFAULT CONC ELEV URBAN PAGE 5

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: C1001 ; NETWORK TYPE: GRID CART

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

399846.0, 399876.0, 399906.0, 399936.0, 399966.0, 399996.0, 400026.0,
400056.0, 400086.0, 400116.0,

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

3779136.0, 3779161.0, 3779186.0, 3779211.0, 3779236.0, 3779261.0, 3779286.0,
3779311.0, 3779336.0, 3779361.0,

3200 E. FOO TH I L L B O U L E V A R D _ A E R M O D . o u t
 ♀ *** A E R M O D - V E R S I O N 1 6 2 1 6 r *** *** 3 2 0 0 E. F o o t h i l l B o u l e v a r d M i x e d - U s e
 P r o j e c t
 *** A E R M E T - V E R S I O N 1 4 1 3 4 *** *** H e a l t h R i s k A s s e s s m e n t 3 . 3 0 . 1 8
 *** 0 3 / 3 0 / 1 8
 0 8 : 2 3 : 5 1

P A G E 6
 *** M O D E L O P T s : R e g D F A U L T C O N C E L E V U R B A N

*** N E T W O R K I D : C 1 0 0 1 ; N E T W O R K T Y P E : G R I D C A R T

* E L E V A T I O N H E I G H T S I N M E T E R S *

Y-COORD (METERS)	399846.00	399876.00	399906.00	399936.00	X-COORD (METERS)	399966.00
399996.00	400026.00	400056.00	400086.00			

3779361.00	221.00	220.90	220.80	220.70	220.40
219.80	219.40	219.10	218.70		
3779336.00	220.60	220.50	220.40	220.30	220.10
219.50	219.00	218.70	218.30		
3779311.00	220.10	220.00	220.00	219.80	219.70
219.40	218.90	218.40	217.90		
3779286.00	219.60	219.60	219.60	219.40	219.30
219.00	218.70	218.10	217.60		
3779261.00	219.20	219.20	219.10	218.90	218.80
218.60	218.30	217.80	217.30		
3779236.00	218.60	218.60	218.60	218.50	218.30
218.00	217.80	217.30	216.90		
3779211.00	218.20	218.20	218.00	217.90	217.70
217.60	217.30	217.00	216.60		
3779186.00	217.60	217.60	217.50	217.40	217.30
217.00	216.80	216.60	216.20		
3779161.00	216.90	216.90	216.90	216.70	216.70
216.50	216.20	216.00	215.70		
3779136.00	216.30	216.30	216.20	216.10	216.10
216.00	215.80	215.60	215.40		

♀ *** A E R M O D - V E R S I O N 1 6 2 1 6 r *** *** 3 2 0 0 E. F o o t h i l l B o u l e v a r d M i x e d - U s e
 P r o j e c t
 *** A E R M E T - V E R S I O N 1 4 1 3 4 *** *** H e a l t h R i s k A s s e s s m e n t 3 . 3 0 . 1 8
 *** 0 3 / 3 0 / 1 8
 0 8 : 2 3 : 5 1

P A G E 7
 *** M O D E L O P T s : R e g D F A U L T C O N C E L E V U R B A N

*** N E T W O R K I D : C 1 0 0 1 ; N E T W O R K T Y P E : G R I D C A R T

* E L E V A T I O N H E I G H T S I N M E T E R S *

Y-COORD (METERS)	400116.00	X-COORD (METERS)

3779361.00	218.30
3779336.00	217.90
3779311.00	217.60
3779286.00	217.20
3779261.00	216.80
3779236.00	216.40

3200 E. FOOTHILL BOULEVARD_AERMOD.out

3779211.00 | 216.20
3779186.00 | 215.90
3779161.00 | 215.60
3779136.00 | 215.10

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
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*** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
08:23:51

PAGE 8

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS) | 399846.00 399876.00 399906.00 X-COORD (METERS)
399996.00 | 400026.00 400056.00 400086.00 399936.00 399966.00

3779361.00 | 1878.40 1878.40 1878.40 1878.40 1878.40
1878.40 | 1878.40 1878.40 1878.40 1878.40 1878.40
3779336.00 | 1878.40 1878.40 1878.40 1878.40 1878.40
1878.40 | 1878.40 1878.40 1878.40 1878.40 1878.40
3779311.00 | 1878.40 1878.40 1878.40 1878.40 1878.40
1878.40 | 1878.40 1878.40 1878.40 1878.40 1878.40
3779286.00 | 1878.40 1878.40 1878.40 1878.40 1878.40
1878.40 | 1878.40 1878.40 1878.40 1878.40 1878.40
3779261.00 | 1878.40 1878.40 1878.40 1878.40 1878.40
1878.40 | 1878.40 1878.40 1878.40 1878.40 1878.40
3779236.00 | 1878.40 1878.40 1878.40 1878.40 1878.40
1878.40 | 1878.40 1878.40 1878.40 1878.40 1878.40
3779211.00 | 1878.40 1878.40 1878.40 1878.40 1878.40
1878.40 | 1878.40 1878.40 1878.40 1878.40 1878.40
3779186.00 | 1878.40 1878.40 1878.40 1878.40 1878.40
1878.40 | 1878.40 1878.40 1878.40 1878.40 1878.40
3779161.00 | 1878.40 1878.40 1878.40 1878.40 1878.40
1878.40 | 1878.40 1878.40 1878.40 1878.40 1878.40
3779136.00 | 1878.40 1878.40 1878.40 1878.40 1878.40
1878.40 | 1878.40 1878.40 1878.40 1878.40 1878.40

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
Project ***
*** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
08:23:51

PAGE 9

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS) | 400116.00 X-COORD (METERS)

3779361.00 | 1878.40
3779336.00 | 1878.40

3200 E. FOO THI LL BOULEVARD_AERMOD.out

3779311.00 | 1878.40
3779286.00 | 1878.40
3779261.00 | 1878.40
3779236.00 | 1878.40
3779211.00 | 1878.40
3779186.00 | 1878.40
3779161.00 | 1878.40
3779136.00 | 1878.40

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi ll Boulevard Mi xed-Use
Project *** 03/30/18
*** AERMET - VERSION 14134 *** *** Heal th Ri sk Assessment 3. 30. 18
*** 08: 23: 51

PAGE 10

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** DI SCRETE CARTESI AN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHI LL, ZFLAG)
(METERS)

(399868.0, 3779295.0, 222.8, 1878.4, 0.0); (399868.0,
3779295.0, 225.8, 1878.4, 0.0);
(399868.0, 3779295.0, 228.8, 1878.4, 0.0); (399868.0,
3779295.0, 231.8, 1878.4, 0.0);
(399867.0, 3779234.0, 221.6, 1878.4, 0.0); (399867.0,
3779234.0, 224.6, 1878.4, 0.0);
(399867.0, 3779234.0, 227.6, 1878.4, 0.0); (399867.0,
3779234.0, 230.6, 1878.4, 0.0);
(399867.0, 3779234.0, 233.6, 1878.4, 0.0); (400046.0,
3779169.0, 220.7, 1878.4, 0.0);
(400046.0, 3779169.0, 223.7, 1878.4, 0.0); (400046.0,
3779169.0, 226.7, 1878.4, 0.0);
(400046.0, 3779169.0, 229.7, 1878.4, 0.0); (400046.0,
3779169.0, 232.7, 1878.4, 0.0);
(400071.0, 3779286.0, 222.3, 1878.4, 0.0); (400071.0,
3779286.0, 225.3, 1878.4, 0.0);
(400071.0, 3779286.0, 228.3, 1878.4, 0.0); (400071.0,
3779286.0, 231.3, 1878.4, 0.0);
(400071.0, 3779286.0, 234.3, 1878.4, 0.0);

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi ll Boulevard Mi xed-Use
Project *** 03/30/18
*** AERMET - VERSION 14134 *** *** Heal th Ri sk Assessment 3. 30. 18
*** 08: 23: 51

PAGE 11

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT
BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR
FASTAREA/FASTALL

DI STANCE (METERS)	SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS) YR (METERS)
- - -	1002	399846.0 3779286.0

3200 E. FOOTHILL BOULEVARD_AERMOD.out

-3.50	1002	399846.0	3779311.0
-1.76	1002	399846.0	3779336.0
-48.21	1003	399846.0	3779136.0
-78.08	1003	399876.0	3779136.0
-107.80	1003	399906.0	3779136.0
-136.51	1003	399936.0	3779136.0
-136.51	1003	399966.0	3779136.0
-107.80	1003	399996.0	3779136.0
-78.08	1003	400026.0	3779136.0
-48.21	1003	400056.0	3779136.0
-18.27	1003	400086.0	3779136.0
-47.14	1003	399846.0	3779161.0
-76.61	1003	399876.0	3779161.0
-105.41	1003	399906.0	3779161.0
-130.84	1003	399936.0	3779161.0
-130.84	1003	399966.0	3779161.0
-105.41	1003	399996.0	3779161.0
-76.61	1003	400026.0	3779161.0
-47.14	1003	400056.0	3779161.0
-17.44	1003	400086.0	3779161.0
-40.42	1003	399846.0	3779186.0
-67.55	1003	399876.0	3779186.0
-91.96	1003	399906.0	3779186.0
-108.91	1003	399936.0	3779186.0
-108.91	1003	399966.0	3779186.0
-91.96	1003	399996.0	3779186.0
-67.55	1003	400026.0	3779186.0
-40.42	1003	400056.0	3779186.0
-12.13	1003	400086.0	3779186.0
-28.95	1003	399846.0	3779211.0
-52.94	1003	399876.0	3779211.0
	1003	399906.0	3779211.0

3200 E. FOO TH I LL BOULEVARD_AERMOD.out

-72.80	1003	399936.0	3779211.0
-84.85	1003	399966.0	3779211.0
-84.85	1003	399996.0	3779211.0
-72.80	1003	400026.0	3779211.0
-52.94	1003	400056.0	3779211.0
-28.95	1003	400086.0	3779211.0
-2.80	1003	399846.0	3779236.0
-13.91	1003	399876.0	3779261.0

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 12

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

BE PERFORMED * * SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT
 FASTAREA/FASTALL LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR

DI STANCE (METERS)	SOURCE ID	- - RECEPTOR LOCATI ON - - XR (METERS)	YR (METERS)
- - -			
-34.81	1003	399876.0	3779236.0
-51.09	1003	399906.0	3779236.0
-60.30	1003	399936.0	3779236.0
-60.30	1003	399966.0	3779236.0
-51.09	1003	399996.0	3779236.0
-34.81	1003	400026.0	3779236.0
-13.91	1003	400056.0	3779236.0
-14.54	1003	399876.0	3779261.0
-28.15	1003	399906.0	3779261.0
-35.55	1003	399936.0	3779261.0
-35.55	1003	399966.0	3779261.0
-28.15	1003	399996.0	3779261.0
-14.54	1003	400026.0	3779261.0
	1003	399906.0	3779286.0

3200 E. FOOTHILL BOULEVARD_AERMOD.out

-4.55			
	1003	399936.0	3779286.0
-10.72			
	1003	399966.0	3779286.0
-10.72			
	1003	399996.0	3779286.0
-4.55			
	1003	399867.0	3779234.0
-30.40			
	1003	399867.0	3779234.0
-30.40			
	1003	399867.0	3779234.0
-30.40			
	1003	399867.0	3779234.0
-30.40			
	1003	399867.0	3779234.0
-30.40			
	1003	400046.0	3779169.0
-55.28			
	1003	400046.0	3779169.0
-55.28			
	1003	400046.0	3779169.0
-55.28			
	1003	400046.0	3779169.0
-55.28			
	1003	400046.0	3779169.0
-55.28			
	1004	400116.0	3779136.0
-9.89			
	1004	400116.0	3779161.0
0.44			
	1008	399846.0	3779136.0
-41.68			
	1008	399876.0	3779136.0
-68.86			
	1008	399906.0	3779136.0
-92.27			
	1008	399936.0	3779136.0
-102.94			
	1008	399966.0	3779136.0
-90.94			
	1008	399996.0	3779136.0
-67.12			
	1008	400026.0	3779136.0
-39.81			
	1008	400056.0	3779136.0
-11.27			
	1008	399846.0	3779161.0
-30.17			
	1008	399876.0	3779161.0
-53.52			
	1008	399906.0	3779161.0

-71.21
 *** AERMOD - VERSION 16216r *** ** 3200 E. Foothill Boulevard Mixed-Use
 Project *** ** 03/30/18
 *** AERMET - VERSION 14134 *** ** Health Risk Assessment 3.30.18
 *** ** 08:23:51

PAGE 13

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *

FASTAREA/FASTALL

DI STANCE (METERS)	SOURCE	- - RECEPTOR LOCATION - -	
	ID	XR (METERS)	YR (METERS)
- - -			
-77.95	1008	399936.0	3779161.0
-70.31	1008	399966.0	3779161.0
-52.09	1008	399996.0	3779161.0
-28.50	1008	400026.0	3779161.0
-2.34	1008	400056.0	3779161.0
-14.57	1008	399846.0	3779186.0
-34.31	1008	399876.0	3779186.0
-48.09	1008	399906.0	3779186.0
-52.95	1008	399936.0	3779186.0
-47.42	1008	399966.0	3779186.0
-33.14	1008	399996.0	3779186.0
-13.11	1008	400026.0	3779186.0
-13.01	1008	399876.0	3779211.0
-24.16	1008	399906.0	3779211.0
-27.95	1008	399936.0	3779211.0
-23.63	1008	399966.0	3779211.0
-12.05	1008	399996.0	3779211.0
0.15	1008	399906.0	3779236.0
-2.95	1008	399936.0	3779236.0
0.58	1008	399966.0	3779236.0
-7.30	1008	400046.0	3779169.0
-7.30	1008	400046.0	3779169.0
-7.30	1008	400046.0	3779169.0
-7.30	1008	400046.0	3779169.0
-7.30	1008	400046.0	3779169.0
-7.30	1008	400046.0	3779169.0
-13.85	1009	400116.0	3779136.0

3200 E. FOO TH I LL BOULEVARD_AERMOD.out

-6.63	3001	400086.0	3779136.0
-34.86	3001	400116.0	3779136.0
-18.10	3001	400116.0	3779161.0
-15.05	3002	399996.0	3779136.0
-41.88	3002	400026.0	3779136.0
-20.93	3002	400056.0	3779136.0
-3.31	3002	399996.0	3779161.0
-17.45	3002	400026.0	3779161.0
-7.48	3002	400056.0	3779161.0
-6.05	3002	400046.0	3779169.0
-6.05	3002	400046.0	3779169.0
-6.05	3002	400046.0	3779169.0
-6.05	3002	400046.0	3779169.0
-6.05	3002	400046.0	3779169.0

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi ll Boulevard Mi xed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Heal th Ri sk Assessment 3. 30. 18
 *** 08: 23: 51

PAGE 14

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT
 BE PERFORMED *
 FASTAREA/FASTALL LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR

DI STANCE (METERS)	SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS) YR (METERS)
- - -	3003	399906.0 3779136.0
-7.05	3003	399936.0 3779136.0
-11.52	3003	399966.0 3779136.0

0.01
 ♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi ll Boulevard Mi xed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Heal th Ri sk Assessment 3. 30. 18
 *** 08: 23: 51

PAGE 15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

3200 E. FOOTHILL BOULEVARD_AERMOD.out

1.00	1.30	81.	9.1	286.4	5.5								
06 01 01	1 03	-2.3	0.065	-9.000	-9.000	-999.	39.	10.5	0.56	1.00			
1.00	0.90	66.	9.1	286.4	5.5								
06 01 01	1 04	-5.6	0.093	-9.000	-9.000	-999.	68.	13.0	0.56	1.00			
1.00	1.30	23.	9.1	285.9	5.5								
06 01 01	1 05	-5.6	0.093	-9.000	-9.000	-999.	68.	13.0	0.56	1.00			
1.00	1.30	61.	9.1	285.4	5.5								
06 01 01	1 06	-6.5	0.093	-9.000	-9.000	-999.	68.	11.2	0.56	1.00			
1.00	1.30	83.	9.1	285.4	5.5								
06 01 01	1 07	-11.6	0.210	-9.000	-9.000	-999.	232.	71.6	0.56	1.00			
1.00	1.80	64.	9.1	285.4	5.5								
06 01 01	1 08	-6.0	0.093	-9.000	-9.000	-999.	77.	12.0	0.56	1.00			
0.55	1.30	46.	9.1	285.4	5.5								
06 01 01	1 09	26.6	0.340	0.706	0.005	474.	476.	-132.1	0.56	1.00			
0.32	2.20	87.	9.1	286.4	5.5								
06 01 01	1 10	21.0	0.284	0.736	0.005	681.	364.	-97.2	0.56	1.00			
0.24	1.80	76.	9.1	286.4	5.5								
06 01 01	1 11	35.8	0.230	0.921	0.005	780.	266.	-30.3	0.56	1.00			
0.21	1.30	66.	9.1	287.5	5.5								
06 01 01	1 12	14.9	0.331	0.694	0.008	804.	458.	-218.6	0.56	1.00			
0.20	2.20	79.	9.1	287.5	5.5								
06 01 01	1 13	26.4	0.460	0.854	0.012	844.	749.	-330.2	0.56	1.00			
0.20	3.10	76.	9.1	287.5	5.5								
06 01 01	1 14	39.0	0.466	0.995	0.015	902.	763.	-231.5	0.56	1.00			
0.21	3.10	80.	9.1	288.1	5.5								
06 01 01	1 15	11.4	0.328	0.664	0.015	917.	466.	-277.7	0.56	1.00			
0.25	2.20	85.	9.1	287.5	5.5								
06 01 01	1 16	0.1	0.445	0.137	0.015	917.	712.	-8888.0	0.56	1.00			
0.33	3.10	75.	9.1	287.0	5.5								
06 01 01	1 17	-21.5	0.423	-9.000	-9.000	-999.	661.	315.0	0.56	1.00			
0.60	3.10	82.	9.1	286.4	5.5								
06 01 01	1 18	-33.6	0.332	-9.000	-9.000	-999.	464.	97.1	0.56	1.00			
1.00	2.70	101.	9.1	286.4	5.5								
06 01 01	1 19	-30.9	0.412	-9.000	-9.000	-999.	634.	201.9	0.56	1.00			
1.00	3.10	97.	9.1	285.9	5.5								
06 01 01	1 20	-34.9	0.630	-9.000	-9.000	-999.	1200.	640.4	0.56	1.00			
1.00	4.50	92.	9.1	284.9	5.5								
06 01 01	1 21	-47.1	0.624	-9.000	-9.000	-999.	1183.	460.9	0.56	1.00			
1.00	4.50	88.	9.1	284.2	5.5								
06 01 01	1 22	-62.8	0.616	-9.000	-9.000	-999.	1160.	332.6	0.56	1.00			
1.00	4.50	91.	9.1	284.9	5.5								
06 01 01	1 23	-61.4	0.816	-9.000	-9.000	-999.	1765.	791.1	0.56	1.00			
1.00	5.80	82.	9.1	285.4	5.5								
06 01 01	1 24	-45.3	0.820	-9.000	-9.000	-999.	1783.	1090.2	0.56	1.00			
1.00	5.80	84.	9.1	285.9	5.5								

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
06	01	01	01	5.5	0	-999.	-99.00	286.5	99.0	-99.00	-99.00
06	01	01	01	9.1	1	347.	0.90	-999.0	99.0	-99.00	-99.00

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

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project ***
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 17

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1001 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION ***

3200 E. FOOTHILL BOULEVARD_AERMOD.out
INCLUDING SOURCE(S): 1001

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

**

Y-COORD (METERS)	399846.00	399876.00	399906.00	X-COORD (METERS)	399936.00	399966.00
399996.00	400026.00	400056.00	400086.00			

3779361.00	5.80980	5.19516	4.67442	4.22965	3.84530
3.51017	3.21951	2.96524	2.74040		
3779336.00	5.53306	4.97284	4.49350	4.08068	3.72212
3.40667	3.13107	2.88961	2.67524		
3779311.00	5.25505	4.74778	4.31033	3.92822	3.59555
3.30221	3.04241	2.81253	2.60820		
3779286.00	4.98162	4.52584	4.12740	3.77607	3.46789
3.19422	2.95170	2.73411	2.54045		
3779261.00	4.71728	4.30811	3.94556	3.62388	3.33952
3.08589	2.85905	2.65496	2.47192		
3779236.00	4.45972	4.09393	3.76733	3.47467	3.21222
2.97651	2.76574	2.57434	2.40244		
3779211.00	4.21598	3.88941	3.59278	3.32660	3.08591
2.86961	2.67293	2.49510	2.33345		
3779186.00	3.98137	3.69065	3.42479	3.18314	2.96363
2.76281	2.58107	2.41576	2.26412		
3779161.00	3.75787	3.49954	3.26191	3.04217	2.84268
2.65870	2.48985	2.33606	2.19474		
3779136.00	3.54814	3.31864	3.10464	2.90680	2.72507
2.55692	2.40153	2.25860	2.12711		

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
Project 03/30/18
*** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
08:23:51

PAGE 18

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1001 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION ***

INCLUDING SOURCE(S): 1001

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

**

Y-COORD (METERS)	400116.00	X-COORD (METERS)
------------------	-----------	------------------

3779361.00	2.54109
3779336.00	2.48457
3779311.00	2.42687
3779286.00	2.36746
3779261.00	2.30725
3779236.00	2.24657

3200 E. FOO TH I L L B O U L E V A R D _ A E R M O D . o u t

3779211.00 | 2.18673
3779186.00 | 2.12638
3779161.00 | 2.06626
3779136.00 | 2.00558

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi ll Boulevard Mi xed-Use
Project ***
*** AERMET - VERSION 14134 *** *** Heal th Ri sk Assessment 3. 30. 18
08: 23: 51

PAGE 19

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1001 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

INCLUDING SOURCE(S): 1001 ,

*** DI SCRETE CARTESI AN RECEPTOR POINTS

** CONC OF OTHER IN MI CROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
399868.00	3779295.00	4.75768	399868.00
3779295.00	4.77237		
399868.00	3779295.00	4.74695	399868.00
3779295.00	4.51395		
399867.00	3779234.00	4.21372	399867.00
3779234.00	4.23188		
399867.00	3779234.00	4.22330	399867.00
3779234.00	4.01494		
399867.00	3779234.00	3.70080	400046.00
3779169.00	2.43411		
400046.00	3779169.00	2.44255	400046.00
3779169.00	2.44328		
400046.00	3779169.00	2.43607	400046.00
3779169.00	2.22098		
400071.00	3779286.00	2.65469	400071.00
3779286.00	2.66111		
400071.00	3779286.00	2.65399	400071.00
3779286.00	2.64444		
400071.00	3779286.00	2.61163	

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi ll Boulevard Mi xed-Use
Project ***
*** AERMET - VERSION 14134 *** *** Heal th Ri sk Assessment 3. 30. 18
08: 23: 51

PAGE 20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1002 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

INCLUDING SOURCE(S): 1002 ,

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

** CONC OF OTHER IN MI CROGRAMS/M**3

**

3200 E. FOO THI LL BOULEVARD_AERMOD.out

Y-COORD (METERS)	399846.00	399876.00	399906.00	X-COORD (METERS)	399936.00	399966.00
399996.00	400026.00	400056.00	400086.00			

3779361.00	33.97442	25.43030	19.75078	15.80819	12.96391
10.84601	9.22140	7.94789	6.92848		
3779336.00	0.00000	26.39885	20.24533	16.06975	13.10551
10.91513	9.25103	7.95594	6.92394		
3779311.00	0.00000	26.57495	20.25098	16.00937	13.02777
10.83961	9.17950	7.88813	6.86173		
3779286.00	0.00000	25.76908	19.70682	15.62194	12.74029
10.61870	9.00793	7.74862	6.74733		
3779261.00	32.30997	24.10600	18.68483	14.94657	12.26735
10.27426	8.74694	7.54658	6.58658		
3779236.00	28.59615	21.93704	17.34467	14.06520	11.65418
9.82842	8.41481	7.29088	6.38664		
3779211.00	24.77568	19.60991	15.83683	13.05518	10.94715
9.31967	8.03261	7.00074	6.15940		
3779186.00	21.17575	17.29459	14.30829	12.00306	10.20138
8.76845	7.61960	6.68442	5.91109		
3779161.00	18.02157	15.15946	12.83790	10.95735	9.44410
8.20708	7.19060	6.35159	5.64969		
3779136.00	15.38631	13.28450	11.48300	9.97017	8.70909
7.65249	6.76515	6.01839	5.38622		

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothi ll Boulevard Mi xed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Heal th Ri sk Assessment 3. 30. 18
 08: 23: 51

PAGE 21

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1002 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATI ON
 *** INCLUDING SOURCE(S): 1002 ,

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)	400116.00	X-COORD (METERS)
------------------	-----------	------------------

3779361.00	6.09948
3779336.00	6.08782
3779311.00	6.03313
3779286.00	5.93709
3779261.00	5.80579
3779236.00	5.64552
3779211.00	5.46543
3779186.00	5.26834
3779161.00	5.06122
3779136.00	4.84647

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothi ll Boulevard Mi xed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Heal th Ri sk Assessment 3. 30. 18

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1002
 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1002 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
399868.00	3779295.00	3779295.00	28.51181	399868.00
3779295.00	28.84023	399868.00	28.16408	399868.00
3779295.00	26.17209	3779234.00	23.52473	399867.00
3779234.00	23.29618	399867.00	22.40788	399867.00
3779234.00	20.85712	3779234.00	19.04162	400046.00
3779169.00	6.77215	400046.00	6.72405	400046.00
3779169.00	6.60427	3779169.00	6.41407	400046.00
3779169.00	6.13584	400071.00	7.23515	400071.00
3779286.00	7.62571	3779286.00	7.98895	400071.00
3779286.00	8.01624	400071.00	7.76802	

♀ *** AERMOD - VERSION 16216r ***
 Project 03/30/18
 *** AERMET - VERSION 14134 ***
 Health Risk Assessment 3.30.18
 *** 08: 23: 51

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1003
 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1003 ,

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

**

Y-COORD (METERS)	X-COORD (METERS)	Y-COORD (METERS)	CONC	X-COORD (METERS)
399996.00	400026.00	399846.00	399876.00	399906.00
	400056.00	399906.00	400086.00	399936.00
		399966.00		399966.00

3200 E. FOOTHILL BOULEVARD_AERMOD.out

3779361.00	14.58470	16.07546	17.35479	18.17800	18.41241
18.03415	17.13856	15.89598	14.47918		
3779336.00	17.32659	19.52421	21.48174	22.77634	23.03323
22.29974	20.84176	18.94694	16.89982		
3779311.00	20.87476	24.25284	27.42719	29.56147	29.78803
28.31900	25.82450	22.84431	19.83153		
3779286.00	25.51092	30.78114	0.00000	0.00000	0.00000
0.00000	32.63788	27.81465	23.33584		
3779261.00	31.40151	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	34.06367	27.39483		
3779236.00	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	31.86386		
3779211.00	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000		
3779186.00	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000		
3779161.00	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000		
3779136.00	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000		

*** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 24

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1003 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

INCLUDING SOURCE(S): 1003

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

Y-COORD (METERS) | 400116.00 X-COORD (METERS)

3779361.00	13.02950
3779336.00	14.90554
3779311.00	17.07398
3779286.00	19.50733
3779261.00	22.13791
3779236.00	24.88553
3779211.00	27.48550
3779186.00	29.56994
3779161.00	30.76835
3779136.00	30.72362

*** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 25

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1003 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

*** DISCRETE CARTESIAN RECEPTOR POINTS

		** CONC OF OTHER		IN MICROGRAMS/M**3	
Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	CONC
399868.00	3779295.00	3779295.00	23.52688	399868.00	23.52688
3779295.00	20.18786	3779295.00	16.96467	399868.00	16.96467
3779295.00	14.20957	3779234.00	0.00000	399867.00	0.00000
3779234.00	0.00000	3779234.00	0.00000	399867.00	0.00000
3779234.00	0.00000	3779234.00	0.00000	400046.00	0.00000
3779169.00	0.00000	3779169.00	0.00000	400046.00	0.00000
3779169.00	0.00000	3779169.00	0.00000	400046.00	0.00000
3779169.00	0.00000	3779169.00	0.00000	400046.00	0.00000
3779286.00	24.87561	3779286.00	25.82138	400071.00	25.82138
3779286.00	20.29984	3779286.00	22.77767	400071.00	22.77767
3779286.00	20.29984	3779286.00	18.10784	400071.00	18.10784

*** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 26

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1004
 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 INCLUDING SOURCE(S): 1004

GRI DCART ***
 *** NETWORK ID: C1001 ; NETWORK TYPE:

		** CONC OF OTHER		IN MICROGRAMS/M**3	
Y-COORD (METERS)	X-COORD (METERS)	Y-COORD (METERS)	CONC	X-COORD (METERS)	CONC
399996.00	400026.00	399846.00	3.12818	399876.00	3.43496
399996.00	400056.00	399906.00	3.78386	399936.00	3.78386
399996.00	400086.00	399906.00	4.18210	399966.00	4.18210
3779361.00	6.19366	3779361.00	6.96948	3779361.00	6.96948
3779336.00	6.93595	3779336.00	3.39892	3779336.00	3.39892
3779311.00	7.88514	3779311.00	7.88514	3779311.00	7.88514
3779311.00	3.72272	3779311.00	4.13242	3779311.00	4.13242
3779311.00	7.65944	3779311.00	8.91824	3779311.00	8.91824
3779286.00	4.05027	3779286.00	4.48257	3779286.00	4.48257

3200 E. FOO TH I L L B O U L E V A R D _ A E R M O D . o u t

7. 34574	8. 52085	10. 12706	12. 71410			
3779261. 00	4. 32674	4. 81485	5. 41943	6. 17643	7. 05229	
8. 16727	9. 60190	12. 40640	14. 50538			
3779236. 00	4. 65973	5. 21429	5. 87563	6. 71215	7. 78356	
9. 99961	11. 70759	13. 86971	16. 59141			
3779211. 00	4. 94657	5. 56365	6. 90924	7. 91877	9. 17289	
10. 75022	12. 78038	15. 43901	18. 95890			
3779186. 00	5. 56185	6. 29115	7. 18249	8. 28650	9. 67744	
11. 47322	13. 83973	17. 05193	21. 54226			
3779161. 00	5. 69770	6. 46816	7. 41635	8. 60665	10. 12287	
12. 11366	14. 80977	18. 59530	24. 13249			
3779136. 00	5. 80148	6. 60405	7. 59955	8. 85606	10. 47539	
12. 62610	15. 59143	19. 84660	26. 33756			

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3. 30. 18
 08: 23: 51

PAGE 27

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1004 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1004 ,

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

**

Y-COORD
(METERS)

400116. 00

X-COORD (METERS)

3779361. 00	8. 83625
3779336. 00	10. 92904
3779311. 00	12. 55061
3779286. 00	14. 54260
3779261. 00	16. 98970
3779236. 00	19. 99624
3779211. 00	23. 63235
3779186. 00	27. 84995
3779161. 00	0. 00000
3779136. 00	0. 00000

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3. 30. 18
 08: 23: 51

PAGE 28

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1004 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1004 ,

*** DI SCRETE CARTESIAN RECEPTOR POINTS

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

**

3200 E. FOO TH I L L B O U L E V A R D _ A E R M O D . o u t

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3779295.00	399868.00	3779295.00	3.40273	399868.00
3779295.00	399868.00	2.76516		
3779295.00	399868.00	3779295.00	2.26773	399868.00
3779295.00	399867.00	1.89183		
3779234.00	399867.00	3779234.00	4.15218	399867.00
3779234.00	399867.00	3.43204		
3779234.00	399867.00	3779234.00	2.81950	399867.00
3779234.00	399867.00	2.35755		
3779169.00	399867.00	3779234.00	1.99260	400046.00
3779169.00	400046.00	13.34880		
3779169.00	400046.00	3779169.00	11.02459	400046.00
3779169.00	400046.00	8.89125		
3779169.00	400046.00	3779169.00	7.28814	400046.00
3779169.00	400046.00	6.13625		
3779286.00	400071.00	3779286.00	8.25883	400071.00
3779286.00	400071.00	6.69403		
3779286.00	400071.00	3779286.00	5.39213	400071.00
3779286.00	400071.00	4.41987		
3779286.00	400071.00	3779286.00	3.70260	

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 29

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1005 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 INCLUDING SOURCE(S): 1005 ,

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)	399846.00	399876.00	399906.00	X-COORD (METERS)	399936.00	399966.00
399996.00	400026.00	400056.00	400086.00			

3779361.00	1.24307	1.32691	1.41950	1.52204	1.65942
1.84007	2.02119	2.21553	2.45373		
3779336.00	1.31332	1.40442	1.50532	1.61694	1.74975
1.94025	2.15059	2.36588	2.63181		
3779311.00	1.39189	1.48860	1.58772	1.71538	1.84897
2.02140	2.24553	2.50931	2.82293		
3779286.00	1.46542	1.56204	1.66907	1.80710	1.95226
2.14016	2.35645	2.65893	3.00407		
3779261.00	1.53380	1.63755	1.76209	1.91220	2.07073
2.26346	2.49999	2.81362	3.19059		
3779236.00	1.62059	1.73305	1.85840	2.00992	2.19404
2.42001	2.66571	3.01281	3.40467		
3779211.00	1.69248	1.81249	1.96895	2.13416	2.33618
2.55203	2.83707	3.17180	3.59442		

3200 E. FOO TH I L L B O U L E V A R D _ A E R M O D . o u t

3779186.00	|	1.78543	1.91465	2.07176	2.24955	2.45187
2.71826	|	3.00961	3.35039	3.78063		
3779161.00	|	1.89166	2.03103	2.18756	2.39399	2.59742
2.86622	|	3.18089	3.52861	3.95499		
3779136.00	|	1.98053	2.12839	2.30327	2.50129	2.71719
2.97539	|	3.28666	3.65142	4.08293		

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

PAGE 30

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1005 ,

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

**

Y-COORD (METERS)	|	400116.00	X-COORD (METERS)
------------------	--	-----------	------------------

3779361.00	|	2.73051
3779336.00	|	2.94385
3779311.00	|	3.15007
3779286.00	|	3.39192
3779261.00	|	3.64497
3779236.00	|	3.89875
3779211.00	|	4.07457
3779186.00	|	4.25681
3779161.00	|	4.42628
3779136.00	|	4.61909

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

PAGE 31

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1005 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

399868.00	3779295.00	1.26480	399868.00
3779295.00	1.08210		

3200 E. FOOTHILL BOULEVARD_AERMOD.out					
3779295.00	399868.00	0.82677	3779295.00	0.94201	399868.00
3779234.00	399867.00	1.24584	3779234.00	1.45217	399867.00
3779234.00	399867.00	0.96182	3779234.00	1.08994	399867.00
3779169.00	399867.00	2.63523	3779234.00	0.85381	400046.00
3779169.00	400046.00	1.94526	3779169.00	2.24548	400046.00
3779169.00	400046.00	1.49170	3779169.00	1.69858	400046.00
3779286.00	400071.00	1.77785	3779286.00	2.13237	400071.00
3779286.00	400071.00	1.29180	3779286.00	1.50863	400071.00
3779286.00	400071.00		3779286.00	1.11759	

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1006
 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 INCLUDING SOURCE(S): 1006

GRI DCART *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)	399846.00	399876.00	399906.00	X-COORD (METERS)	399936.00	399966.00
399996.00	400026.00	400056.00	400086.00			
3779361.00	7.86302	6.85423	6.03463	5.35920	4.79410	
4.31537	3.90897	3.56037	3.25792			
3779336.00	7.52748	6.59428	5.82923	5.19412	4.66015	
4.20457	3.81562	3.48148	3.19062			
3779311.00	7.16367	6.31151	5.60657	5.01408	4.51405	
4.08600	3.71665	3.39680	3.11792			
3779286.00	6.78697	6.01827	5.37344	4.82595	4.36023	
3.95869	3.61149	3.30741	3.04177			
3779261.00	6.41013	5.72092	5.13425	4.63190	4.20091	
3.82718	3.50123	3.21473	2.96272			
3779236.00	6.03588	5.42246	4.89454	4.43723	4.03942	
3.69179	3.38799	3.11862	2.88110			
3779211.00	5.67677	5.13296	4.65640	4.24137	3.87681	
3.55718	3.27365	3.02260	2.79884			
3779186.00	5.32948	4.84966	4.42469	4.04935	3.71733	
3.42136	3.15916	2.92546	2.71536			
3779161.00	4.99804	4.57610	4.19873	3.85950	3.55851	
3.28769	3.04455	2.82717	2.63113			
3779136.00	4.68689	4.31639	3.97981	3.67605	3.40310	
3.15613	2.93261	2.73081	2.54834			

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Page 26

Project 3200 E. FOOTHILL BOULEVARD_AERMOD.out
 *** AERMET - VERSION 14134 *** 03/30/18
 *** Health Risk Assessment 3. 30. 18
 *** 08: 23: 51

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1006 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1006 ,

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS) | 400116. 00 X-COORD (METERS)

3779361. 00 | 2. 99411
 3779336. 00 | 2. 93622
 3779311. 00 | 2. 87430
 3779286. 00 | 2. 80838
 3779261. 00 | 2. 73990
 3779236. 00 | 2. 66961
 3779211. 00 | 2. 59922
 3779186. 00 | 2. 52756
 3779161. 00 | 2. 45556
 3779136. 00 | 2. 38250

*** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3. 30. 18
 *** 08: 23: 51

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1006 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1006 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3779295. 00	399868. 00	3779295. 00	6. 35538	399868. 00
3779295. 00	399868. 00	3779295. 00	6. 28924	399868. 00
3779295. 00	399867. 00	3779234. 00	5. 60735	399867. 00
3779234. 00	399867. 00	3779234. 00	5. 57052	399867. 00
3779234. 00	399867. 00	3779234. 00	4. 85515	400046. 00

3200 E. FOOTHILL BOULEVARD_AERMOD.out

3779169.00	2.95262			
400046.00	3779169.00	2.95831		400046.00
3779169.00	2.94724			
400046.00	3779169.00	2.79934		400046.00
3779169.00	2.67093			
400071.00	3779286.00	3.18862		400071.00
3779286.00	3.18382			
400071.00	3779286.00	3.17124		400071.00
3779286.00	3.32889			
400071.00	3779286.00	3.33151		

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 35

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: 1007
 INCLUDING SOURCE(S): 1007

*** NETWORK ID: C1001 ; NETWORK TYPE:
 GRIDCART ***

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

**

Y-COORD (METERS)	399846.00	399876.00	399906.00	X-COORD (METERS)	399936.00	399966.00
399996.00	400026.00	400056.00	400086.00			

3779361.00	28.02473	22.46085	18.25570	15.06762	12.61661
10.70016	9.18952	7.97949	6.99900		
3779336.00	32.34908	25.00724	19.80951	16.04984	13.25954
11.12921	9.48062	8.19007	7.14974		
3779311.00	36.45991	27.21962	21.07227	16.79472	13.72328
11.43414	9.68437	8.32564	7.23940		
3779286.00	39.65944	28.78201	21.88122	17.23360	13.97024
11.57610	9.77562	8.37555	7.26506		
3779261.00	41.18156	29.38465	22.10469	17.31135	13.98360
11.56597	9.74653	8.33843	7.22577		
3779236.00	40.54068	28.89269	21.73815	17.03159	13.76038
11.38377	9.59857	8.21580	7.12403		
3779211.00	37.60394	27.30835	20.75970	16.38293	13.30479
11.05272	9.34597	8.02085	6.96864		
3779186.00	33.30143	24.91520	19.32815	15.45876	12.67373
10.59606	9.00774	7.76333	6.76683		
3779161.00	28.63957	22.19378	17.64619	14.35241	11.91495
10.05426	8.60459	7.45642	6.52881		
3779136.00	24.24411	19.47368	15.88744	13.17360	11.09113
9.46101	8.16500	7.12121	6.26900		

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 36

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

3200 E. FOO TH I L L B O U L E V A R D _ A E R M O D . o u t

VALUES FOR SOURCE GROUP: 1007 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION ***

INCLUDING SOURCE(S): 1007 ,

GRI DCART ***

*** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)

400116.00

X-COORD (METERS)

3779361.00	6.19103
3779336.00	6.29878
3779311.00	6.35941
3779286.00	6.36952
3779261.00	6.33000
3779236.00	6.24396
3779211.00	6.11881
3779186.00	5.95859
3779161.00	5.77173
3779136.00	5.56338

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 37

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1007 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION ***

INCLUDING SOURCE(S): 1007 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
-------------	-------------	-------------	------	-------------

3779295.00	399868.00	3779295.00	30.82465	399868.00
3779295.00	399868.00	31.72955	30.08913	399868.00
3779295.00	399867.00	27.35599	31.85131	399867.00
3779234.00	399867.00	32.07560	30.92269	399867.00
3779234.00	399867.00	28.42952	25.50595	400046.00
3779169.00	400046.00	7.92174	8.10655	400046.00
3779169.00	400046.00	8.21029	8.05649	400046.00
3779169.00	400071.00	7.68568	7.80833	400071.00
3779286.00	400071.00	8.66204		

3200 E. FOOTHILL BOULEVARD_AERMOD.out
 400071.00 3779286.00 8.92208 400071.00
 3779286.00 8.78430
 400071.00 3779286.00 8.38517

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN
 PAGE 38

VALUES FOR SOURCE GROUP: 1008 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 INCLUDING SOURCE(S): 1008 ,

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)	399846.00	399876.00	399906.00	399936.00	X-COORD (METERS)	399966.00
399996.00	400026.00	400056.00	400086.00			

3779361.00	10.80940	11.73788	12.47754	12.93167	13.32645
13.02766	12.46699	11.72201	10.87467		
3779336.00	14.63790	12.73856	13.94947	15.52914	15.90856
15.45064	14.63790	13.59201	12.43974		
3779311.00	16.19085	17.73912	18.91963	19.52208	19.40842
18.65632	17.42847	15.92114	14.32265		
3779286.00	19.52059	21.86230	23.72325	24.63248	24.32829
23.03331	21.08363	18.83646	16.57580		
3779261.00	23.98422	27.73868	30.89881	32.34015	31.52486
29.14450	25.92011	22.47399	19.23624		
3779236.00	30.07388	36.31602	0.00000	0.00000	0.00000
37.87072	32.31876	26.93479	22.28838		
3779211.00	38.18635	0.00000	0.00000	0.00000	0.00000
0.00000	40.69421	32.27328	25.66051		
3779186.00	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	38.29637	29.11290		
3779161.00	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	32.32970		
3779136.00	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	34.86134		

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN
 PAGE 39

VALUES FOR SOURCE GROUP: 1008 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 INCLUDING SOURCE(S): 1008 ,

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

3200 E. FOOTHILL BOULEVARD_AERMOD.out
 ** CONC OF OTHER IN MICROGRAMS/M**3

**

Y-COORD
(METERS)

400116.00

X-COORD (METERS)

3779361.00 | 9.99131
 3779336.00 | 11.27523
 3779311.00 | 12.76779
 3779286.00 | 14.48052
 3779261.00 | 16.40082
 3779236.00 | 18.47971
 3779211.00 | 20.64310
 3779186.00 | 22.71463
 3779161.00 | 24.53800
 3779136.00 | 25.79800

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

*** MODELOPTs: RegDFault CONC ELEV URBAN

PAGE 40

VALUES FOR SOURCE GROUP: 1008 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1008

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3779295.00	399868.00	3779295.00	17.04222	399868.00
3779295.00	399868.00	15.00343		
3779295.00	399868.00	3779295.00	12.85764	399868.00
3779234.00	399867.00	10.97903		
3779234.00	399867.00	3779234.00	30.98154	399867.00
3779234.00	399867.00	26.53876		
3779234.00	399867.00	3779234.00	22.19575	399867.00
3779169.00	399867.00	18.51258		
3779169.00	400046.00	3779234.00	15.95212	400046.00
3779169.00	400046.00	0.00000		
3779169.00	400046.00	3779169.00	0.00000	400046.00
3779169.00	400046.00	0.00000		
3779169.00	400046.00	3779169.00	0.00000	400046.00
3779286.00	400071.00	0.00000		
3779286.00	400071.00	3779286.00	17.56621	400071.00
3779286.00	400071.00	16.61133		
3779286.00	400071.00	3779286.00	15.15467	400071.00
3779286.00	400071.00	13.53519		
3779286.00	400071.00	3779286.00	12.07877	

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 Page 31

*** MODEL OPTs: Reg DFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1009 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1009 ,

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)	399846.00	399876.00	399906.00	X-COORD (METERS)	399936.00	399966.00
399996.00	400026.00	400056.00	400086.00			

3779361.00	3.28137	3.58976	3.93659	4.32812	4.84769
5.56298	6.21034	6.86509	7.55905		
3779336.00	3.59752	3.95727	4.36490	4.82806	5.40000
6.20062	7.00119	7.79670	8.64576		
3779311.00	3.98299	4.40839	4.85184	5.44877	6.07437
6.85770	7.82299	8.88976	10.63127		
3779286.00	4.38941	4.84647	5.37128	6.04434	6.78866
7.73761	8.83419	10.22522	12.25035		
3779261.00	4.75345	5.28405	5.93546	6.74076	7.64877
8.77198	10.14980	12.70255	14.26452		
3779236.00	5.20192	5.82477	6.56024	7.48122	8.64181
11.05299	12.71713	14.65453	16.80883		
3779211.00	5.61567	6.33413	7.95540	9.12299	10.54753
12.28611	14.42069	17.00156	20.04864		
3779186.00	6.47903	7.37141	8.46258	9.81008	11.49382
13.63147	16.35292	19.82107	24.18020		
3779161.00	6.75181	7.73306	8.94990	10.48789	12.45384
15.03493	18.49263	23.15692	29.40921		
3779136.00	6.99190	8.05548	9.39548	11.11514	13.37035
16.42470	20.70550	26.85730	35.77445		

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 *** 08: 23: 51

*** MODEL OPTs: Reg DFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1009 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1009 ,

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)	400116.00	X-COORD (METERS)

3779361.00 | 8.20949
 3779336.00 | 9.92822
 3779311.00 | 11.44627
 3779286.00 | 13.36096
 3779261.00 | 15.82294
 3779236.00 | 19.06273
 3779211.00 | 23.41373
 3779186.00 | 29.37427
 3779161.00 | 37.53745
 3779136.00 | 0.00000

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 43

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1009 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 INCLUDING SOURCE(S): 1009 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
399868.00	3779295.00	3.63175	399868.00
3779295.00	2.92434		
399868.00	3779295.00	2.37617	399868.00
3779295.00	1.96557		
399867.00	3779234.00	4.57172	399867.00
3779234.00	3.71840		
399867.00	3779234.00	3.00121	399867.00
3779234.00	2.46899		
399867.00	3779234.00	2.05757	400046.00
3779169.00	15.80822		
400046.00	3779169.00	12.79341	400046.00
3779169.00	10.11016		
400046.00	3779169.00	8.15720	400046.00
3779169.00	6.80951		
400071.00	3779286.00	8.62619	400071.00
3779286.00	7.21803		
400071.00	3779286.00	5.97950	400071.00
3779286.00	5.00476		
400071.00	3779286.00	4.26046	

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 44

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1010 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

3200 E. FOOTHILL BOULEVARD_AERMOD.out
 INCLUDING SOURCE(S): 1010

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

**

Y-COORD (METERS)	399846.00	399876.00	399906.00	399936.00	X-COORD (METERS)	399966.00
399996.00	400026.00	400056.00	400086.00			

3779361.00	1.38638	1.48438	1.59276	1.71290	1.87432
2.08725	2.29941	2.52590	2.80235		
3779336.00	1.47390	1.58156	1.70111	1.83373	1.99210
2.21993	2.47114	2.72719	3.04269		
3779311.00	1.57344	1.68919	1.80801	1.96196	2.12326
2.33244	2.60535	2.92669	3.30838		
3779286.00	1.66850	1.78547	1.91556	2.08460	2.26285
2.49513	2.76344	3.14102	3.57237		
3779261.00	1.75890	1.88627	2.04026	2.22726	2.42562
2.66849	2.96866	3.36983	3.85469		
3779236.00	1.87438	2.01472	2.17214	2.36406	2.59938
2.89101	3.21041	3.66700	4.18666		
3779211.00	1.97314	2.12527	2.32581	2.53934	2.80329
3.08794	3.46871	3.92120	4.49999		
3779186.00	2.10122	2.26802	2.47299	2.70748	2.97743
3.33804	3.73791	4.21256	4.82438		
3779161.00	2.24938	2.43279	2.64105	2.91941	3.19736
3.57051	4.01649	4.51748	5.14441		
3779136.00	2.37799	2.57615	2.81384	3.08686	3.38877
3.75620	4.20802	4.74894	5.40419		

*** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 45

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1010 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION ***

INCLUDING SOURCE(S): 1010

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

**

Y-COORD (METERS)	400116.00	X-COORD (METERS)
------------------	-----------	------------------

3779361.00	3.12145
3779336.00	3.41094
3779311.00	3.70426
3779286.00	4.05658
3779261.00	4.44139
3779236.00	4.84882

3200 E. FOO TH I L L B O U L E V A R D _ A E R M O D . o u t

3779211.00 | 5.16817
3779186.00 | 5.51179
3779161.00 | 5.85100
3779136.00 | 6.24107

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
Project *** 03/30/18
*** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
*** 08:23:51

PAGE 46

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1010 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

INCLUDING SOURCE(S): 1010 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
399868.00	3779295.00	1.41800	399868.00
3779295.00	1.19451		
399868.00	3779295.00	1.02466	399868.00
3779295.00	0.88695		
399867.00	3779234.00	1.65839	399867.00
3779234.00	1.39762		
399867.00	3779234.00	1.20235	399867.00
3779234.00	1.04437		
399867.00	3779234.00	0.91412	400046.00
3779169.00	3.22123		
400046.00	3779169.00	2.67282	400046.00
3779169.00	2.25779		
400046.00	3779169.00	1.92700	400046.00
3779169.00	1.66099		
400071.00	3779286.00	2.46838	400071.00
3779286.00	2.02152		
400071.00	3779286.00	1.68623	400071.00
3779286.00	1.42170		
400071.00	3779286.00	1.21504	

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
Project *** 03/30/18
*** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
*** 08:23:51

PAGE 47

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3001 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

INCLUDING SOURCE(S): 3001 ,

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

**

3200 E. FOO THI LL BOULEVARD_AERMOD.out

Y-COORD (METERS)	399846.00	399876.00	399906.00	X-COORD (METERS)	399936.00	399966.00
399996.00	400026.00	400056.00	400086.00			

3779361.00	5.32656	5.94698	6.65959	7.47658	8.51057
9.86299	11.97812	13.08703	14.08394		
3779336.00	5.84715	6.58792	7.45335	8.46310	9.69874
12.36996	13.88603	15.41354	16.81980		
3779311.00	6.45938	7.35158	8.35781	9.67855	11.18304
14.17848	16.23788	18.41020	20.47348		
3779286.00	7.77930	8.90249	10.26294	11.92255	13.92989
16.34928	19.17956	22.34671	25.49369		
3779261.00	8.26142	9.55284	11.15965	13.17716	15.71330
18.90867	22.87598	27.60611	32.65285		
3779236.00	8.72588	10.19279	12.05932	14.47595	17.65286
21.87791	27.47190	34.75830	43.31766		
3779211.00	9.14388	10.78063	12.91928	15.76594	19.66515
25.12551	32.99391	44.34107	59.80564		
3779186.00	9.50051	11.29053	13.67131	16.93080	21.55661
28.43870	39.14845	56.68943	85.83529		
3779161.00	9.77032	11.68084	14.25565	17.86409	23.12493
31.30122	45.02821	70.54660	124.19026		
3779136.00	9.92949	11.91180	14.60951	18.42431	24.08928
33.11095	48.93863	81.05407	0.00000		

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothi ll Boulevard Mi xed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Heal th Ri sk Assessment 3. 30. 18
 08: 23: 51

PAGE 48

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3001 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATI ON
 *** INCLUDING SOURCE(S): 3001 ,

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)	400116.00	X-COORD (METERS)
------------------	-----------	------------------

3779361.00	14.84149
3779336.00	17.89921
3779311.00	22.07435
3779286.00	28.02221
3779261.00	36.94370
3779236.00	51.30206
3779211.00	76.68420
3779186.00	127.05600
3779161.00	0.00000
3779136.00	0.00000

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothi ll Boulevard Mi xed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Heal th Ri sk Assessment 3. 30. 18
 Page 36

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3001
 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 3001

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3779295.00	399868.00	3779295.00	6.09066	399868.00
3779295.00	399868.00	4.89608	3.87697	399868.00
3779295.00	399867.00	3.13008	7.92785	399867.00
3779234.00	399867.00	6.35840	5.09205	399867.00
3779234.00	399867.00	4.10841	3.37292	400046.00
3779169.00	400046.00	46.51269	35.65927	400046.00
3779169.00	400046.00	26.98231	20.73693	400046.00
3779169.00	400071.00	17.03049	19.17208	400071.00
3779286.00	400071.00	15.86803	12.75115	400071.00
3779286.00	400071.00	10.37290	8.71189	400071.00

♀ *** AERMOD - VERSION 16216r ***
 Project 03/30/18
 *** AERMET - VERSION 14134 ***
 Health Risk Assessment 3.30.18
 *** 08: 23: 51

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3002
 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 3002

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

Y-COORD (METERS)	X-COORD (METERS)	Y-COORD (METERS)	CONC	X-COORD (METERS)
399996.00	400026.00	399846.00	400056.00	399936.00
		399876.00	400086.00	399966.00
		399906.00		

3200 E. FOOTHILL BOULEVARD_AERMOD.out

3779361.00	8.92347	10.07061	11.34050	12.68882	14.80053
15.72126	16.24532	16.28184	15.83500		
3779336.00	11.25386	12.76347	14.41205	16.11971	17.74285
19.07289	19.82246	19.82880	19.11908		
3779311.00	12.66365	14.63894	16.87751	19.30966	21.69610
23.68336	24.80931	24.75588	23.58407		
3779286.00	14.25756	16.84878	19.94005	23.48534	27.15920
30.34346	32.12314	31.91769	29.87048		
3779261.00	16.01346	19.41910	23.74252	29.05218	34.99230
40.46340	43.57095	42.96096	39.08844		
3779236.00	17.89567	22.33931	28.37077	36.46673	46.62724
57.03623	63.17552	61.37441	53.14274		
3779211.00	19.76209	25.42479	33.77239	46.24623	64.47810
86.71564	101.66116	95.43416	75.17200		
3779186.00	21.46156	28.40932	39.43692	58.09006	91.35881
146.81574	195.26671	166.22566	108.73634		
3779161.00	22.75250	30.78802	44.32465	69.98058	126.80437
0.00000	0.00000	0.00000	154.70183		
3779136.00	23.38937	31.98195	46.94047	76.92116	153.25189
0.00000	0.00000	0.00000	189.45818		

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 51

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3002 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 3002

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS) | 400116.00 X-COORD (METERS)

3779361.00	14.99770
3779336.00	17.86920
3779311.00	21.64739
3779286.00	26.71843
3779261.00	33.62387
3779236.00	42.98787
3779211.00	55.35609
3779186.00	70.43667
3779161.00	85.16920
3779136.00	92.63779

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 52

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3002 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

*** DISCRETE CARTESIAN RECEPTOR POINTS

		** CONC OF OTHER IN MICROGRAMS/M**3		
Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3779295.00	399868.00	3779295.00	11.93585	399868.00
3779295.00	399868.00	9.33822	7.22003	399868.00
3779295.00	399867.00	5.65356	17.70891	399867.00
3779234.00	399867.00	13.80381	10.69242	399867.00
3779234.00	399867.00	8.20844	6.50255	400046.00
3779169.00	400046.00	0.00000	0.00000	400046.00
3779169.00	400046.00	0.00000	0.00000	400046.00
3779169.00	400046.00	0.00000	0.00000	400046.00
3779286.00	400071.00	29.15184	29.96063	400071.00
3779286.00	400071.00	24.41319	27.02740	400071.00
3779286.00	400071.00	3779286.00	22.19816	

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 53

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3003
 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 INCLUDING SOURCE(S): 3002

GRI DCART ***
 *** NETWORK ID: C1001 ; NETWORK TYPE:

		** CONC OF OTHER IN MICROGRAMS/M**3			
Y-COORD (METERS)		399846.00	399876.00	399906.00	X-COORD (METERS)
399996.00	400026.00	400056.00	400086.00	399936.00	399966.00
3779361.00	9.83622	10.66895	11.34266	11.74667	11.79963
11.62835	11.13305	10.49106	9.77121		
3779336.00	11.48510	12.51830	13.33808	13.80022	14.01142
13.59782	12.90518	12.03345	11.08335		
3779311.00	14.53748	15.68631	16.52129	16.90903	16.76321
16.13079	15.13562	13.93115	12.65737		
3779286.00	17.31858	18.97243	20.19285	20.73642	20.46775

3200 E. FOO THI LL BOULEVARD_AERMOD.out

19. 48222	18. 00069	16. 29074	14. 54788			
3779261. 00	20. 96735	23. 45960	25. 34425	26. 14373	25. 63826	
24. 02801	21. 74884	19. 24319	16. 81061			
3779236. 00	25. 88939	29. 83726	32. 91421	34. 16651	33. 17848	
30. 39724	26. 71879	22. 93014	19. 47517			
3779211. 00	32. 60415	39. 24339	44. 79649	46. 97819	44. 83705	
39. 60120	33. 33205	27. 45337	22. 51261			
3779186. 00	41. 96038	53. 95308	65. 15928	69. 58533	64. 16621	
53. 18392	41. 95638	32. 75172	25. 75986			
3779161. 00	54. 80371	78. 07988	104. 82302	115. 57673	98. 51103	
73. 00663	52. 43020	38. 35311	28. 89649			
3779136. 00	70. 96814	117. 73173	0. 00000	0. 00000	0. 00000	
99. 81766	63. 74899	43. 64788	31. 63044			

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothi ll Boulevard Mi xed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Heal th Ri sk Assessment 3. 30. 18
 08: 23: 51

PAGE 54

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3003 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 3003 ,

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

**

Y-COORD (METERS) | 400116. 00 X-COORD (METERS)

3779361. 00	9. 02691
3779336. 00	10. 12603
3779311. 00	11. 40858
3779286. 00	12. 89988
3779261. 00	14. 60808
3779236. 00	16. 51244
3779211. 00	18. 55915
3779186. 00	20. 60298
3779161. 00	22. 48221
3779136. 00	23. 95593

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothi ll Boulevard Mi xed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Heal th Ri sk Assessment 3. 30. 18
 08: 23: 51

PAGE 55

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3003 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 3003 ,

*** DI SCRETE CARTESI AN RECEPTOR POINTS

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

**

3200 E. FOO TH I L L B O U L E V A R D _ A E R M O D . o u t

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3779295.00	399868.00	3779295.00	14.86143	399868.00
3779295.00	399868.00	12.98069		
3779295.00	399868.00	3779295.00	10.98945	399868.00
3779295.00	399867.00	9.27258		
3779234.00	399867.00	3779234.00	25.29153	399867.00
3779234.00	399867.00	21.08241		
3779234.00	399867.00	3779234.00	17.17117	399867.00
3779234.00	399867.00	13.88747		
3779169.00	399867.00	3779234.00	11.58059	400046.00
3779169.00	400046.00	40.92269		
3779169.00	400046.00	3779169.00	38.24998	400046.00
3779169.00	400046.00	33.77787		
3779169.00	400046.00	3779169.00	29.18032	400046.00
3779169.00	400046.00	25.59870		
3779286.00	400071.00	3779286.00	14.78366	400071.00
3779286.00	400071.00	13.60225		
3779286.00	400071.00	3779286.00	12.16491	400071.00
3779286.00	400071.00	10.70574		
3779286.00	400071.00	3779286.00	9.43304	

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 56

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3004 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 3004 ,

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)	399846.00	399876.00	399906.00	X-COORD (METERS)	399936.00	399966.00
399996.00	400026.00	400056.00	400086.00			

3779361.00	5.18463	5.70237	6.27923	6.90889	7.60491
8.25883	8.71606	8.95834	9.04843		
3779336.00	5.86490	6.47759	7.14737	7.87309	8.65125
9.43930	9.98666	10.42032	10.38481		
3779311.00	6.64721	7.37715	8.14761	9.06804	9.97842
10.87732	11.57376	12.12356	12.05957		
3779286.00	7.55190	8.41027	9.36998	10.52233	11.66065
12.78461	14.04475	14.31287	14.19871		
3779261.00	8.57855	9.66061	10.94881	12.43404	14.85091
16.01377	16.84645	17.19999	16.99883		
3779236.00	10.79862	12.31263	14.01613	15.86542	17.74374
19.43878	20.64991	21.13614	20.77276		
3779211.00	12.03007	13.97050	16.25621	18.83763	21.57919
24.12985	26.00618	26.69833	26.03682		

3200 E. FOOHILL BOULEVARD_AERMOD.out

3779186.00	13.39185	15.88194	18.94897	22.61906	26.74723
30.85100	33.93277	34.99992	33.72223		
3779161.00	14.85327	18.03266	22.15946	27.47559	33.92901
40.89834	46.50087	48.32645	45.58525		
3779136.00	16.34104	20.33809	25.86872	33.57113	44.01932
56.80529	68.35818	71.97960	65.13146		

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 57

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 INCLUDING SOURCE(S): 3004 ,

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

**

Y-COORD (METERS)	400116.00	X-COORD (METERS)
------------------	-----------	------------------

3779361.00	8.88787
3779336.00	10.15979
3779311.00	11.73708
3779286.00	13.72995
3779261.00	16.29701
3779236.00	19.68104
3779211.00	24.26232
3779186.00	30.65526
3779161.00	39.83540
3779136.00	53.15680

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 58

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 INCLUDING SOURCE(S): 3004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

399868.00	3779295.00	6.24800	399868.00
3779295.00	5.02674		

3200 E. FOO TH I L L B O U L E V A R D _ A E R M O D . o u t			
3779295.00	399868.00	3779295.00	4.01961
3779234.00	399867.00	3779234.00	8.83344
3779234.00	399867.00	3779234.00	5.48235
3779169.00	399867.00	3779234.00	3.55071
3779169.00	400046.00	3779169.00	36.04426
3779169.00	400046.00	3779169.00	27.93805
3779286.00	400071.00	3779286.00	14.43161
3779286.00	400071.00	3779286.00	13.59555
3779286.00	400071.00	3779286.00	11.56812

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi I I Boul evard Mi xed-Use
 Project *** 03/30/18
 *** AERMET - VERSI ON 14134 *** *** Heal th Ri sk Assessment 3.30.18
 *** 08:23:51

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3005 *** THE PERI OD (43800 HRS) AVERAGE CONCENTRATI ON
 *** INCLUDI NG SOURCE(S): 3005

GRI DCART *** *** NETWORK I D: C1001 ; NETWORK TYPE:

** CONC OF OTHER I N MI CROGRAMS/M**3

Y-COORD (METERS)	399846.00	399876.00	399906.00	X-COORD (METERS)	399936.00	399966.00
399996.00	400026.00	400056.00	400086.00			

3779361.00	3.17275	3.44884	3.75493	4.09622	4.54795
5.16905	5.76381	6.31326	6.87331		
3779336.00	3.48842	3.81261	4.17353	4.57645	5.06859
5.79834	6.48311	7.12819	7.78937		
3779311.00	3.87728	4.26319	4.65580	5.18119	5.72585
6.43340	7.23819	8.08835	8.92214		
3779286.00	4.32088	4.74030	5.21162	5.83762	6.48190
7.28198	8.17353	9.26538	10.90459		
3779261.00	4.74536	5.24242	5.84194	6.56381	7.34914
8.28933	9.40198	10.72756	12.65460		
3779236.00	5.23568	5.82935	6.51507	7.35225	8.37601
9.62578	10.98815	13.48681	14.87578		
3779211.00	5.71020	6.41024	7.32881	8.36608	10.64779
12.15971	13.88549	15.77815	17.73488		
3779186.00	6.85679	7.77876	8.88680	10.22102	11.82810
13.76359	16.04619	18.66184	21.50238		
3779161.00	7.24274	8.28876	9.56944	11.15702	13.12283
15.58083	18.63334	22.32352	26.57138		
3779136.00	7.60879	8.78136	10.24911	12.10922	14.49293
17.59318	21.65083	26.90963	33.46058		

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi I I Boul evard Mi xed-Use
 Page 43

Project 3200 E. FOOTHILL BOULEVARD_AERMOD.out
 *** AERMET - VERSION 14134 *** 03/30/18
 *** Health Risk Assessment 3. 30. 18
 *** 08: 23: 51

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN
 PAGE 60
 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: 3005
 *** INCLUDING SOURCE(S): 3005
 *** NETWORK ID: C1001 ; NETWORK TYPE:
 GRID CART ***
 ** CONC OF OTHER IN MICROGRAMS/M**3

Y-COORD (METERS)	X-COORD (METERS)
400116.00	
3779361.00	7.36605
3779336.00	8.36710
3779311.00	9.99083
3779286.00	11.55820
3779261.00	13.54686
3779236.00	16.12505
3779211.00	19.54139
3779186.00	24.22687
3779161.00	30.88070
3779136.00	40.78832

*** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3. 30. 18
 *** 08: 23: 51

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN
 PAGE 61
 *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: 3005
 *** INCLUDING SOURCE(S): 3005
 *** DISCRETE CARTESIAN RECEPTOR POINTS
 ** CONC OF OTHER IN MICROGRAMS/M**3

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
399868.00	3779295.00		3.54988	399868.00
3779295.00	2.84012			
399868.00	3779295.00		2.30705	399868.00
3779295.00	1.90676			
399867.00	3779234.00		4.52521	399867.00
3779234.00	3.63951			
399867.00	3779234.00		2.91426	399867.00
3779234.00	2.37929			
399867.00	3779234.00		1.96951	400046.00

3779169.00	14.36854			
400046.00		3779169.00	11.30050	400046.00
3779169.00	8.69398			
400046.00		3779169.00	6.85284	400046.00
3779169.00	5.59644			
400071.00		3779286.00	7.89109	400071.00
3779286.00	6.64883			
400071.00		3779286.00	5.55132	400071.00
3779286.00	4.66769			
400071.00		3779286.00	3.98083	

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 62

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1001 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 INCLUDING SOURCE(S): 1001

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

**

Y-COORD (METERS)	399846.00	399966.00	399876.00	X-COORD (METERS)	399906.00
399936.00					

3779361.0	17.25721	(09042808)	15.69744	(09042808)	14.23468	(09042808)
12.87521	(09042808)	11.61955	(09042808)			
3779336.0	16.38586	(09042808)	15.19763	(09042808)	14.03066	(09042808)
12.90223	(09042808)	11.82276	(09042808)			
3779311.0	15.34646	(06090401)	14.19399	(09042808)	13.35517	(09042808)
12.49755	(09042808)	11.63909	(09042808)			
3779286.0	14.87071	(09042807)	13.54012	(09042807)	12.29359	(09042808)
11.71727	(09042808)	11.10010	(09042808)			
3779261.0	14.37964	(09042807)	13.40945	(09042807)	12.34079	(09042807)
11.22377	(09042807)	10.26730	(09042808)			
3779236.0	13.50207	(09042807)	12.89772	(09042807)	12.14386	(09042807)
11.28542	(09042807)	10.36364	(09042807)			
3779211.0	12.56164	(06090401)	12.07167	(09042807)	11.62656	(09042807)
11.04097	(09042807)	10.34853	(09042807)			
3779186.0	13.06232	(07092007)	11.19832	(09012017)	10.84712	(09042807)
10.52664	(09042807)	10.07270	(09042807)			
3779161.0	13.64781	(07092007)	11.29201	(07092007)	10.17288	(09012017)
9.79032	(09042807)	9.56505	(09042807)			
3779136.0	14.00345	(07092007)	11.87363	(07092007)	9.95535	(09012017)
9.28978	(09012017)	8.87341	(09042807)			

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 63

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

3200 E. FOOTHILL BOULEVARD_AERMOD.out

VALUES FOR SOURCE GROUP: 1001 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION ***

INCLUDING SOURCE(S): 1001

GRI DCART ***

*** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)	X-COORD (METERS)
400086.00	400056.00
399996.00	400116.00
400116.00	400026.00

3779361.0	10.46586	(09042808)	9.95335	(10020915)	9.47797	(10020915)
9.03171	(10020915)	8.61306	(10020915)			
3779336.0	10.79993	(09042808)	9.84063	(09042808)	8.94764	(09042808)
8.12085	(09042808)	7.79835	(10020915)			
3779311.0	10.79373	(09042808)	9.97323	(09042808)	9.18643	(09042808)
8.43899	(09042808)	7.73474	(09042808)			
3779286.0	10.45855	(09042808)	9.80788	(09042808)	9.15936	(09042808)
8.52320	(09042808)	7.90645	(09042808)			
3779261.0	9.83641	(09042808)	9.36884	(09042808)	8.87747	(09042808)
8.37389	(09042808)	7.86723	(09042808)			
3779236.0	9.41488	(09042807)	8.70216	(09042808)	8.37183	(09042808)
8.01029	(09042808)	7.62669	(09042808)			
3779211.0	9.58683	(09042807)	8.78554	(09042807)	7.97389	(09042807)
7.46751	(09042808)	7.20963	(09042808)			
3779186.0	9.51412	(09042807)	8.88347	(09042807)	8.20741	(09042807)
7.50899	(09042807)	6.81059	(09042807)			
3779161.0	9.21534	(09042807)	8.76685	(09042807)	8.24591	(09042807)
7.67457	(09042807)	7.07595	(09042807)			
3779136.0	8.72075	(09042807)	8.45531	(09042807)	8.09758	(09042807)
7.66799	(09042807)	7.18592	(09042807)			

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 64

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1001 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION ***

INCLUDING SOURCE(S): 1001

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
3779295.00	399868.00	3779295.00	13.91376 (06090401)	399868.00
3779295.00	399868.00	13.93596 (06090401)		
3779295.00	399868.00	3779295.00	15.27960 (09042807)	399868.00
3779295.00	399867.00	32.37887 (10081906)		
3779295.00	399867.00	3779234.00	13.06699 (09042807)	399867.00

3200 E. FOOTHILL BOULEVARD_AERMOD.out

3779234.00	13.08578 (09042807)			
399867.00	3779234.00	13.90001 (09042807)		399867.00
3779234.00	19.82647 (09092420)			
399867.00	3779234.00	42.39511 (09092420)		400046.00
3779169.00	8.47604 (09042807)			
400046.00	3779169.00	8.48552 (09042807)		400046.00
3779169.00	8.67725 (09042807)			
400046.00	3779169.00	9.24619 (09042807)		400046.00
3779169.00	24.70595 (10100124)			
400071.00	3779286.00	8.84040 (09042808)		400071.00
3779286.00	8.83294 (09042808)			
400071.00	3779286.00	9.15144 (09042808)		400071.00
3779286.00	17.90936 (10092724)			
400071.00	3779286.00	32.81316 (10090323)		

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 65

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1002 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1002

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)			X-COORD (METERS)
399936.00	399846.00	399966.00	399906.00

3779361.0 |	117.48017 (07040816)	91.32778 (07040816)	71.22369 (07040816)
55.66825 (07040816)	43.56590 (07040816)		
3779336.0 |	0.00000 (00000000)	83.18601 (07040816)	63.14577 (07040816)
48.11674 (07040816)	38.06476 (07101317)		
3779311.0 |	0.00000 (00000000)	73.72360 (07040816)	53.88255 (07040816)
41.56774 (06090401)	34.07498 (06090401)		
3779286.0 |	0.00000 (00000000)	66.32079 (06090401)	51.35847 (06090401)
41.11530 (06090401)	33.78017 (06090401)		
3779261.0 |	83.52703 (06090401)	63.11234 (06090401)	49.49025 (06090506)
39.95318 (06090401)	33.01789 (06090401)		
3779236.0 |	75.33755 (06090401)	58.53255 (06090401)	46.74891 (06090401)
38.21613 (06090401)	31.85730 (06090401)		
3779211.0 |	66.52243 (06090506)	53.28244 (06090506)	43.44690 (06090401)
36.05410 (06090401)	30.38574 (06090401)		
3779186.0 |	58.01758 (06090506)	47.87241 (06090506)	39.90482 (06090401)
33.65552 (06090401)	28.71692 (06090401)		
3779161.0 |	53.46154 (07092007)	44.55285 (07092007)	36.34791 (06090401)
31.15382 (06090401)	26.92759 (06090401)		
3779136.0 |	49.45690 (07092007)	43.01935 (07092007)	35.80190 (07092007)
28.68296 (06090401)	25.10652 (06090401)		

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1002 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 INCLUDING SOURCE(S): 1002

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS) | 399996.00 400116.00 400026.00 X-COORD (METERS)
 400086.00 400056.00

3779361.0	35.16877	(07101317)	30.43706	(07101317)	26.46128	(07101317)
23.08617	(07101317)	20.20875	(07101317)			
3779336.0	32.26585	(07101317)	27.54567	(07101317)	23.66119	(07101317)
20.72798	(11121516)	18.74170	(11121516)			
3779311.0	28.52538	(06090401)	24.28729	(06090401)	21.57685	(11121516)
19.31486	(11121516)	17.38623	(11121516)			
3779286.0	28.32355	(06090401)	24.42219	(10020915)	21.92396	(10020915)
19.81411	(10020915)	18.00459	(10020915)			
3779261.0	27.80371	(06090506)	24.08765	(09061217)	21.66787	(10020915)
19.69091	(10020915)	17.97999	(10020915)			
3779236.0	26.99661	(06090401)	23.20345	(06090401)	20.66363	(09061217)
18.83962	(09061217)	17.31729	(10020915)			
3779211.0	25.96800	(06090401)	22.45640	(06090401)	19.62658	(06090401)
17.40654	(09061217)	16.09698	(10020915)			
3779186.0	24.76505	(06090401)	21.57558	(06090401)	19.09187	(09042808)
17.11566	(09042808)	15.31224	(09042808)			
3779161.0	23.45865	(06090401)	20.59728	(06090401)	18.45604	(09042808)
16.87601	(09042808)	15.37467	(09042808)			
3779136.0	22.09952	(06090401)	19.56771	(06090401)	17.43039	(06090401)
16.01702	(09042808)	14.87486	(09042808)			

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1002 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 INCLUDING SOURCE(S): 1002

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC (YYMMDDHH)		
399868.00	3779295.00	76.69203 (07040816)	399868.00

3200 E. FOOTHILL BOULEVARD_AERMOD.out

3779295.00	87.55606	(07083020)			
399868.00	3779295.00		123.04010	(06072722)	399868.00
3779295.00	127.37196	(06072722)			
399867.00	3779234.00		62.59265	(06090401)	399867.00
3779234.00	62.39770	(06090401)			
399867.00	3779234.00		105.80195	(10092724)	399867.00
3779234.00	121.21537	(10092724)			
399867.00	3779234.00		122.35187	(07050822)	400046.00
3779169.00	19.41497	(09042808)			
400046.00	3779169.00		20.78084	(09042808)	400046.00
3779169.00	44.88525	(10092724)			
400046.00	3779169.00		64.90671	(10092724)	400046.00
3779169.00	73.15231	(10092724)			
400071.00	3779286.00		22.86548	(10020915)	400071.00
3779286.00	29.11280	(07083020)			
400071.00	3779286.00		56.93928	(07083020)	400071.00
3779286.00	69.81539	(07083020)			
400071.00	3779286.00		74.06885	(07082121)	

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 68

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1003 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 INCLUDING SOURCE(S): 1003

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)	399846.00	399966.00	399876.00	X-COORD (METERS)	399906.00
399936.00					

3779361.0	41.15506	(06090401)	44.68393	(06090401)	48.84463	(10100517)
60.53860	(10100517)	67.63185	(07052117)			
3779336.0	48.46680	(06090506)	53.61814	(06090401)	58.09614	(10100517)
71.38866	(10100517)	78.92116	(07052117)			
3779311.0	57.77471	(06090506)	65.54993	(06090401)	72.15425	(06090401)
85.30661	(07052117)	92.92339	(07052117)			
3779286.0	69.69143	(06090401)	110.64298	(07040816)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			
3779261.0	85.00505	(07040815)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			
3779236.0	0.00000	(00000000)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			
3779211.0	0.00000	(00000000)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			
3779186.0	0.00000	(00000000)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			
3779161.0	0.00000	(00000000)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			
3779136.0	0.00000	(00000000)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			

3200 E. FOO TH I LL BOULEVARD_AERMOD.out
 ♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi ll Boul evard Mi xed-Use
 Project ***
 *** AERMET - VERSION 14134 *** *** Heal th Ri sk Assessment 3. 30. 18
 *** 08: 23: 51

PAGE 69

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATI ON
 VALUES FOR SOURCE GROUP: 1003
 *** I NCLUDING SOURCE(S): 1003 ,

*** NETWORK ID: C1001 ; NETWORK TYPE:
 GRI DCART ***

** CONC OF OTHER I N MI CROGRAMS/M**3

**

Y-COORD (METERS)	399996.00	400116.00	400026.00	X-COORD (METERS)	400056.00
400086.00					

3779361.0 |	67.82542 (07052117)	61.86492 (07052117)	51.76983 (07052117)
44.75841 (07040816)	47.82992 (07040816)		
3779336.0 |	77.32808 (07052117)	68.45513 (07052117)	56.28477 (07040816)
59.25504 (07040816)	59.93727 (07040816)		
3779311.0 |	89.76260 (07052117)	77.28953 (07052117)	76.12250 (07040816)
75.09636 (07040816)	72.26144 (07040816)		
3779286.0 |	0.00000 (00000000)	103.36839 (07040816)	98.58582 (07040816)
91.29171 (07040816)	82.86336 (07040816)		
3779261.0 |	0.00000 (00000000)	0.00000 (00000000)	121.76704 (07040816)
105.85983 (07040816)	90.47326 (07040816)		
3779236.0 |	0.00000 (00000000)	0.00000 (00000000)	0.00000 (00000000)
115.65796 (07040816)	97.27084 (07040816)		
3779211.0 |	0.00000 (00000000)	0.00000 (00000000)	0.00000 (00000000)
0.00000 (00000000)	100.67685 (07040816)		
3779186.0 |	0.00000 (00000000)	0.00000 (00000000)	0.00000 (00000000)
0.00000 (00000000)	99.57487 (07040816)		
3779161.0 |	0.00000 (00000000)	0.00000 (00000000)	0.00000 (00000000)
0.00000 (00000000)	93.79952 (07040816)		
3779136.0 |	0.00000 (00000000)	0.00000 (00000000)	0.00000 (00000000)
0.00000 (00000000)	83.75867 (07040816)		

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi ll Boul evard Mi xed-Use
 Project ***
 *** AERMET - VERSION 14134 *** *** Heal th Ri sk Assessment 3. 30. 18
 *** 08: 23: 51

PAGE 70

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATI ON
 VALUES FOR SOURCE GROUP: 1003
 *** I NCLUDING SOURCE(S): 1003 ,

*** DI SCRETE CARTESI AN RECEPTOR POINTS

** CONC OF OTHER I N MI CROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
-------------	-------------	-----------------	-------------

Y-COORD (M)	CONC				
399868.00	3779295.00	98.89581	(06062603)	399868.00	
3779295.00	124.58951 (11042824)				
399868.00	3779295.00	127.74661	(07090104)	399868.00	
3779295.00	127.60098 (07090104)				
399867.00	3779234.00	0.00000	(00000000)	399867.00	
3779234.00	0.00000 (00000000)				
399867.00	3779234.00	0.00000	(00000000)	399867.00	
3779234.00	0.00000 (00000000)				
399867.00	3779234.00	0.00000	(00000000)	400046.00	
3779169.00	0.00000 (00000000)				
400046.00	3779169.00	0.00000	(00000000)	400046.00	
3779169.00	0.00000 (00000000)				
400046.00	3779169.00	0.00000	(00000000)	400046.00	
3779169.00	0.00000 (00000000)				
400071.00	3779286.00	105.62538	(07040816)	400071.00	
3779286.00	117.51135 (09071924)				
400071.00	3779286.00	121.44901	(09071924)	400071.00	
3779286.00	123.18290 (06070324)				
400071.00	3779286.00	117.00712	(06070324)		

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
Project 03/30/18
*** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
08:23:51

PAGE 71

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1004 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
INCLUDING SOURCE(S): 1004

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)			X-COORD (METERS)
399936.00	399846.00	399966.00	399876.00
			399906.00

3779361.0 | 40.01984 (10081503) 41.77971 (10081503) 43.95196 (09081404)
46.21685 (11082006) 47.58753 (09082623)
3779336.0 | 38.90489 (07102622) 40.58378 (10081503) 42.66322 (10081503)
45.05555 (09081404) 46.80985 (11082006)
3779311.0 | 36.56704 (09080424) 38.43022 (07102622) 41.24563 (07102622)
42.50377 (10081503) 45.15221 (09081404)
3779286.0 | 34.81941 (09080424) 37.03307 (09080424) 39.16762 (07102622)
40.62336 (07102622) 42.81230 (10081503)
3779261.0 | 32.29521 (09080424) 35.07188 (09080424) 36.87462 (09080424)
37.43341 (09080424) 39.08173 (07102622)
3779236.0 | 26.75337 (06061502) 29.46372 (09080424) 32.53875 (09080424)
34.54002 (09080424) 35.07402 (09080424)
3779211.0 | 23.61901 (07090402) 25.66638 (07090402) 24.59562 (09012717)
27.69478 (09012717) 31.01603 (09012717)
3779186.0 | 17.96394 (09012717) 20.70081 (09012717) 23.82677 (09012717)
27.41714 (09012717) 31.52484 (09012717)

3200 E. FOOTHILL BOULEVARD_AERMOD.out
 3779161.0 | 16.99427 (10102717) 18.96524 (06090401) 22.06065 (09012717)
 25.82035 (09012717) 30.39791 (09012717)
 3779136.0 | 17.79149 (09121516) 19.95602 (09121516) 22.50357 (09121516)
 25.74429 (06090401) 30.33525 (06090401)
 *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 72
 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: 1004 INCLUDING SOURCE(S): 1004
 *** NETWORK ID: C1001 ; NETWORK TYPE:
 GRIDCART ***

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

Y-COORD (METERS)	399996.00	400116.00	400026.00	X-COORD (METERS)	400056.00
400086.00					

 3779361.0 | 45.66980 (09082623) 43.51907 (09082623) 43.00636 (07032221)
 39.72229 (11042824) 36.47052 (07040921)
 3779336.0 | 45.23276 (09082623) 42.77866 (09082623) 41.08491 (07032221)
 37.66113 (07032221) 31.37098 (06090506)
 3779311.0 | 45.93454 (11082006) 44.50876 (09082623) 40.62295 (09082623)
 34.85618 (09052507) 35.88683 (06090401)
 3779286.0 | 43.45969 (09081404) 44.07715 (09082623) 38.98996 (09082623)
 40.14448 (09052507) 41.35641 (06090401)
 3779261.0 | 40.04502 (07102622) 40.01938 (09081404) 40.40962 (09052507)
 44.96442 (09052507) 47.98505 (06090401)
 3779236.0 | 31.58202 (09012717) 34.24220 (09052507) 41.64234 (09052507)
 48.75472 (09052507) 55.97962 (06090401)
 3779211.0 | 34.65951 (09012717) 38.40499 (09012717) 44.23548 (06090401)
 53.54583 (06090401) 65.45790 (06090401)
 3779186.0 | 36.07392 (09012717) 41.30584 (09012717) 48.56549 (06090401)
 60.30366 (06090401) 76.33606 (06090401)
 3779161.0 | 35.70667 (09012717) 42.46390 (06090401) 52.63965 (06090401)
 67.01220 (06090506) 0.00000 (00000000)
 3779136.0 | 36.37096 (06090401) 44.54522 (06090401) 56.02066 (06090401)
 72.87041 (06090401) 0.00000 (00000000)

*** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 73
 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: 1004 INCLUDING SOURCE(S): 1004

*** DISCRETE CARTESIAN RECEPTOR POINTS

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M) CONC	(YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)
3779295.00	399868.00	62.63961	(06032705)	54.25623	(06032705)	399868.00
3779295.00	399868.00	69.23788	(06100901)	66.54756	(11092605)	399868.00
3779234.00	399867.00	64.35801	(06061422)	52.79529	(06061422)	399867.00
3779234.00	399867.00	72.63701	(07102718)	68.58544	(11060301)	399867.00
3779169.00	400046.00	90.47545	(09080424)	72.40522	(07102718)	400046.00
3779169.00	400046.00	109.11579	(07102718)	106.94730	(06061422)	400046.00
3779169.00	400046.00	106.66512	(06070724)	109.28180	(07102718)	400046.00
3779286.00	400071.00	94.78623	(09082623)	86.49624	(09082623)	400071.00
3779286.00	400071.00	95.90462	(11111121)	96.82544	(07080506)	400071.00
400071.00	399868.00	94.98704	(06062205)			

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 74

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1005 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1005

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

**

Y-COORD (METERS)	X-COORD (METERS)	Y-COORD (METERS)	X-COORD (METERS)	CONC	(YYMMDDHH)	X-COORD (METERS)
3779361.0	399936.00	33.30514	399966.00	34.50602	(06061422)	36.15866 (06061422)
3779336.0	399936.00	33.09650	399966.00	34.31786	(06061502)	35.46209 (11060301)
3779311.0	399936.00	31.78918	399966.00	33.29921	(06061502)	35.10351 (06061502)
3779286.0	399936.00	31.70850	399966.00	33.00001	(07090402)	34.27716 (07090402)
3779261.0	399936.00	30.95525	399966.00	32.54656	(07090402)	33.86261 (07090402)
3779236.0	399936.00	28.77700	399966.00	30.34548	(07090402)	32.17943 (07090402)
33.73554	399936.00	34.93127	399966.00		(07090402)	

3200 E. FOOTHILL BOULEVARD_AERMOD.out

3779211.0 |	27.54242 (10082605)	28.86831 (09042202)	29.70435 (09042202)
30.98129 (09042202)	31.88374 (07090402)		
3779186.0 |	25.89581 (10082605)	27.23734 (10082605)	28.22925 (10082605)
29.28880 (10082605)	30.42396 (10082605)		
3779161.0 |	22.78109 (10082605)	24.07929 (10082605)	25.49338 (10082605)
25.96444 (10082605)	27.59903 (10082605)		
3779136.0 |	19.73535 (06061423)	20.81848 (06061423)	21.44789 (06061423)
22.13535 (11101122)	23.63365 (10082605)		

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 75

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1005 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1005

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)	399996.00	400116.00	400026.00	X-COORD (METERS)	400056.00
400086.00					

3779361.0 |	38.89909 (09080424)	39.28044 (09080424)	39.58074 (09080424)
40.24706 (06032705)	40.88206 (07102622)		
3779336.0 |	38.63887 (06061422)	38.99039 (09080424)	39.93538 (09080424)
40.04132 (09080424)	39.62457 (06032705)		
3779311.0 |	38.55934 (06061422)	39.22896 (06061422)	39.41777 (06061422)
39.47483 (09080424)	40.15404 (09080424)		
3779286.0 |	38.09695 (06061502)	39.00213 (06061502)	38.38385 (06061422)
38.45146 (06061422)	38.62307 (09080424)		
3779261.0 |	37.05458 (07090402)	37.73757 (06061502)	37.79631 (06061502)
37.34361 (06061502)	36.37240 (06061502)		
3779236.0 |	35.64533 (07090402)	36.74682 (07090402)	36.10154 (07090402)
35.72094 (07090402)	34.31724 (07090402)		
3779211.0 |	33.62551 (07090402)	34.36109 (07090402)	34.98702 (07090402)
34.77454 (07090402)	34.22290 (07090402)		
3779186.0 |	30.54269 (10082605)	31.19214 (10082605)	31.95761 (07090402)
31.73471 (07090402)	31.97734 (07090402)		
3779161.0 |	28.16471 (10082605)	28.04189 (10082605)	28.54512 (10082605)
28.18452 (10082605)	29.52390 (10082605)		
3779136.0 |	24.63548 (10082605)	24.99650 (10082605)	25.32268 (10082605)
25.60253 (10082605)	24.76757 (10082605)		

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 76

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1005 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1005

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC (YYMMDDHH)	X-COORD (M)
3779295.00	399868.00	3779295.00	38.82978 (09092803)	399868.00
3779295.00	399868.00	42.39743 (07071822)	46.11109 (07071822)	399868.00
3779295.00	399867.00	3779295.00	37.69717 (09042202)	399867.00
3779234.00	399867.00	47.57467 (07071822)	45.28322 (11081002)	399867.00
3779234.00	399867.00	42.19888 (09042202)	48.25374 (10110221)	400046.00
3779234.00	399867.00	47.50196 (11081002)	56.19045 (10082605)	400046.00
3779169.00	400046.00	3779234.00	61.78234 (11082903)	400046.00
3779169.00	400046.00	50.51473 (10082605)	53.01266 (06061422)	400071.00
3779169.00	400046.00	59.77492 (11082903)	60.25203 (07050521)	400071.00
3779169.00	400046.00	61.55209 (06061004)	62.29868 (06070724)	
3779286.00	400071.00	3779286.00		
3779286.00	400071.00	56.43064 (09032722)		
3779286.00	400071.00	3779286.00		
3779286.00	400071.00	60.79167 (07050521)		
3779286.00	400071.00	3779286.00		

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 77

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1006 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1006

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

**

Y-COORD (METERS)	X-COORD (METERS)	Y-COORD (METERS) CONC (YYMMDDHH)	CONC (YYMMDDHH)	X-COORD (METERS)
3779361.0	399846.00	22.63132 (09061217)	20.55507 (09061217)	18.74889 (09061217)
3779361.0	399846.00	17.21703 (10020915)	15.89065 (10020915)	17.34222 (09061217)
3779336.0	399966.00	21.10327 (06090401)	18.80200 (09061217)	16.84950 (09042808)
3779336.0	399966.00	16.03567 (09061217)	14.90431 (10020915)	16.81089 (09042808)
3779311.0	399966.00	21.11554 (09042808)	18.88761 (09042808)	
3779311.0	399966.00	14.99977 (09042808)	13.49965 (10020915)	
3779286.0	399966.00	20.18451 (09042808)	18.46427 (09042808)	
3779286.0	399966.00	15.24583 (09042808)	13.78313 (09042808)	

3200 E. FOO TH I L L B O U L E V A R D _ A E R M O D . o u t

3779261.0	18.57607	(06090401)	17.30324	(09042808)	16.10021	(09042808)
14.89508	(09042808)	13.71431	(09042808)			
3779236.0	17.80488	(09042807)	16.06232	(09042807)	14.82962	(09042808)
14.01267	(09042808)	13.15448	(09042808)			
3779211.0	17.10966	(09042807)	15.86969	(09042807)	14.49713	(09042807)
13.07026	(09042807)	12.18155	(09042808)			
3779186.0	15.89462	(09042807)	15.16120	(09042807)	14.21940	(09042807)
13.13922	(09042807)	11.98187	(09042807)			
3779161.0	15.69584	(07092007)	14.03510	(09042807)	13.51689	(09042807)
12.80311	(09042807)	11.95276	(09042807)			
3779136.0	16.57504	(07092007)	13.35135	(07092007)	12.47532	(09042807)
12.11661	(09042807)	11.58175	(09042807)			

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
Project 03/30/18

*** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
08:23:51

PAGE 78

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: 1006 INCLUDING SOURCE(S): 1006

*** NETWORK ID: C1001 ; NETWORK TYPE:
GRID CART ***

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

**

Y-COORD (METERS)	399996.00	400116.00	400026.00	X-COORD (METERS)	400056.00
400086.00					

3779361.0	14.71136	(10020915)	13.66166	(10020915)	12.72266	(10020915)
11.87802	(10020915)	11.11470	(10020915)			
3779336.0	13.89973	(10020915)	12.99383	(10020915)	12.17500	(10020915)
11.43062	(10020915)	10.75111	(10020915)			
3779311.0	12.70484	(10020915)	11.97407	(10020915)	11.30229	(10020915)
10.68359	(10020915)	10.11258	(10020915)			
3779286.0	12.42809	(09042808)	11.18109	(09042808)	10.18226	(10020915)
9.70269	(10020915)	9.25200	(10020915)			
3779261.0	12.57479	(09042808)	11.48844	(09042808)	10.46425	(09042808)
9.50759	(09042808)	8.62051	(09042808)			
3779236.0	12.27822	(09042808)	11.40389	(09042808)	10.54653	(09042808)
9.71855	(09042808)	8.92781	(09042808)			
3779211.0	11.58670	(09042808)	10.95067	(09042808)	10.29274	(09042808)
9.62811	(09042808)	8.96918	(09042808)			
3779186.0	10.79711	(09042807)	10.18579	(09042808)	9.73827	(09042808)
9.25479	(09042808)	8.74972	(09042808)			
3779161.0	11.01113	(09042807)	10.02295	(09042807)	9.02761	(09042807)
8.64095	(09042808)	8.29711	(09042808)			
3779136.0	10.90955	(09042807)	10.14162	(09042807)	9.31730	(09042807)
8.46969	(09042807)	7.65562	(09042808)			

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
Project 03/30/18

*** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
08:23:51

PAGE 79

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1006 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 INCLUDING SOURCE(S): 1006

*** DI SCRET E CARTESI AN RECEPTOR POINTS

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

Y-COORD (M)	X-COORD (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC (YYMMDDHH)	X-COORD (M)
399868.00	3779295.00	19.20779	(09042808)	399868.00
3779295.00	20.28753	(09042808)		
399868.00	3779295.00	32.50302	(10092724)	399868.00
3779295.00	59.33519	(10092724)		
399867.00	3779234.00	16.62124	(09042807)	399867.00
3779234.00	17.33316	(09042807)		
399867.00	3779234.00	18.95608	(09042807)	399867.00
3779234.00	46.77182	(09090224)		
399867.00	3779234.00	63.70531	(09090224)	400046.00
3779169.00	9.32920	(09042808)		
400046.00	3779169.00	9.32177	(09042808)	400046.00
3779169.00	9.95023	(09042807)		
400046.00	3779169.00	24.77335	(10081906)	400046.00
3779169.00	39.67708	(10101021)		
400071.00	3779286.00	9.95720	(10020915)	400071.00
3779286.00	10.39663	(10020915)		
400071.00	3779286.00	10.89843	(10020915)	400071.00
3779286.00	34.42916	(09102320)		
400071.00	3779286.00	45.79910	(09102320)	

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothi ll Boul evard Mi xed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Heal th Ri sk Assessment 3. 30. 18
 08: 23: 51

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1007 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 INCLUDING SOURCE(S): 1007

GRI DCART *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)	X-COORD (METERS)	CONC	X-COORD (METERS)
399936.00	399846.00	399966.00	399876.00
3779361.0	126.53811	(07040816)	109.40946 (07040816)
77.97733	(07040816)	64.16753	(07040816)
3779336.0	138.84593	(07040816)	113.59842 (07040816)
74.15010	(07040816)	59.15900	(07040816)
93.00122	(07040816)		
92.10500	(07040816)		

3200 E. FOOTHILL BOULEVARD_AERMOD.out

3779311.0	141.89999	(07040816)	110.32231	(07040816)	86.17389	(07040816)
66.56723	(07040816)	51.71595	(07040816)			
3779286.0	135.72079	(07040816)	101.49467	(07040816)	76.20960	(07040816)
57.02204	(07040816)	44.07888	(07101317)			
3779261.0	122.97224	(07040816)	88.12405	(07040816)	63.63423	(07040816)
47.04585	(07101317)	38.82218	(07101317)			
3779236.0	106.82118	(07040816)	74.00325	(06090506)	56.31431	(06090401)
44.52029	(06090401)	36.22202	(06090401)			
3779211.0	96.60805	(06090401)	71.04258	(06090506)	54.65098	(06090401)
43.51207	(06090401)	35.57374	(06090401)			
3779186.0	87.27461	(06090506)	66.11200	(06090401)	51.81676	(06090401)
41.76505	(06090401)	34.44071	(06090401)			
3779161.0	76.62866	(06090401)	60.08146	(06090401)	48.19039	(06090401)
39.45439	(06090401)	32.90893	(06090401)			
3779136.0	66.25899	(06090401)	53.75384	(06090401)	44.16827	(06090401)
36.80951	(06090401)	31.10441	(06090401)			

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 81

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1007 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 INCLUDING SOURCE(S): 1007

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

**

Y-COORD (METERS)	399996.00	400116.00	400026.00	X-COORD (METERS)	400056.00
400086.00					

3779361.0	51.84726	(07040816)	42.10104	(07040816)	34.25272	(07040816)
28.34206	(07101317)	25.48583	(07101317)			
3779336.0	46.47500	(07040816)	36.77487	(07040816)	31.15795	(07101317)
27.57528	(07101317)	24.44164	(07101317)			
3779311.0	40.24949	(07101317)	33.92880	(07101317)	29.50996	(07101317)
25.74851	(07101317)	22.53655	(07101317)			
3779286.0	36.54174	(07101317)	31.15784	(07101317)	26.72581	(07101317)
23.03808	(07101317)	20.49389	(11121516)			
3779261.0	32.37832	(07101317)	27.24763	(07101317)	24.09588	(11121516)
21.51375	(11121516)	19.31612	(11121516)			
3779236.0	30.14188	(06090506)	26.21482	(10020915)	23.37058	(10020915)
20.99236	(10020915)	18.97280	(10020915)			
3779211.0	29.79984	(09061217)	26.38134	(09061217)	23.52475	(09061217)
21.21147	(10020915)	19.25776	(10020915)			
3779186.0	28.93355	(06090401)	25.30468	(09061217)	22.78516	(09061217)
20.62480	(09061217)	18.78689	(10020915)			
3779161.0	27.87896	(06090401)	23.93921	(06090401)	21.03049	(09061217)
19.25147	(09061217)	17.68384	(09061217)			
3779136.0	26.61232	(06090506)	23.32547	(09042808)	20.72814	(09042808)
18.37563	(09042808)	16.26092	(09042808)			

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 Page 58

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1007 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1007

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

Y-COORD (M)	X-COORD (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)
399868.00	3779295.00	3779295.00	127.68161	(07040816)	399868.00
3779295.00	132.09096	(07040816)			
399868.00	3779295.00	3779295.00	142.33763	(11090724)	399868.00
3779295.00	141.89431	(07083002)			
399867.00	3779234.00	3779234.00	84.83082	(07040816)	399867.00
3779234.00	107.35802	(07083020)			
399867.00	3779234.00	3779234.00	141.82752	(06072722)	399867.00
3779234.00	143.14274	(09122817)			
399867.00	3779234.00	3779234.00	143.73891	(06081101)	400046.00
3779169.00	24.32371	(10020915)			
400046.00	3779169.00	3779169.00	32.21942	(10100104)	400046.00
3779169.00	64.30227	(09102320)			
400046.00	3779169.00	3779169.00	79.14027	(09102320)	400046.00
3779169.00	83.67044	(09102320)			
400071.00	3779286.00	3779286.00	27.28259	(11121516)	400071.00
3779286.00	49.87420	(11112717)			
400071.00	3779286.00	3779286.00	70.98284	(11112717)	400071.00
3779286.00	79.60969	(11112717)			
400071.00	3779286.00	3779286.00	84.02792	(11090624)	

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 *** 08: 23: 51

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1008 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1008

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

Y-COORD (METERS)	X-COORD (METERS)	Y-COORD (METERS)	X-COORD (METERS)
399936.00	399846.00	399966.00	399876.00
			399906.00

3200 E. FOOTHILL BOULEVARD_AERMOD.out

3779361.0	50.00617	(06090902)	50.88506	(10071401)	50.85780	(09090404)
53.56775	(10100517)	58.98896	(07052117)			
3779336.0	47.84943	(06090902)	48.96699	(10071401)	51.03970	(10100517)
61.87726	(10100517)	67.44120	(07052117)			
3779311.0	45.51840	(06090401)	49.11174	(06090401)	60.18060	(10100517)
72.12947	(07052117)	77.59672	(07052117)			
3779286.0	54.42904	(06090401)	59.84456	(06090401)	72.05087	(10100517)
85.55639	(07052117)	90.19754	(07052117)			
3779261.0	66.11863	(06090401)	74.64962	(06090401)	87.72278	(10100517)
102.63134	(07052117)	105.52585	(07052117)			
3779236.0	81.70344	(06090401)	99.37873	(07040816)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			
3779211.0	102.54987	(06090401)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			
3779186.0	0.00000	(00000000)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			
3779161.0	0.00000	(00000000)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			
3779136.0	0.00000	(00000000)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			

*** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18

*** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 84

*** MODELOPTS: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1008 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 INCLUDING SOURCE(S): 1008

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS) | 399996.00 400116.00 400026.00 X-COORD (METERS)
 400086.00 400056.00

3779361.0	58.22716	(07052117)	52.21966	(07052117)	42.79195	(07052117)
35.62723	(11111416)	35.25693	(11111416)			
3779336.0	65.18623	(07052117)	56.81424	(07052117)	45.23428	(07052117)
41.22124	(11111416)	41.55837	(07040816)			
3779311.0	73.81026	(07052117)	62.48987	(07052117)	48.85330	(11111416)
50.76144	(07040816)	53.67451	(07040816)			
3779286.0	83.45988	(07052117)	68.80523	(07052117)	63.97285	(07040816)
66.49895	(07040816)	66.18772	(07040816)			
3779261.0	94.96898	(07052117)	83.93295	(07040816)	85.61275	(07040816)
83.19338	(07040816)	77.74113	(07040816)			
3779236.0	115.62820	(07040816)	114.65466	(07040816)	107.85823	(07040816)
98.38349	(07040816)	86.71818	(07040816)			
3779211.0	0.00000	(00000000)	147.02432	(07040816)	129.45993	(07040816)
110.79383	(07040816)	93.25088	(07040816)			
3779186.0	0.00000	(00000000)	0.00000	(00000000)	145.14001	(07040816)
116.84344	(07040816)	94.75524	(07040816)			
3779161.0	0.00000	(00000000)	0.00000	(00000000)	0.00000	(00000000)
117.74565	(07040816)	93.71621	(07040816)			
3779136.0	0.00000	(00000000)	0.00000	(00000000)	0.00000	(00000000)

3200 E. FOOTHILL BOULEVARD_AERMOD.out
 115.59116 (07040816) 87.73446 (07040816)
 *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 85
 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN
 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: 1008
 INCLUDING SOURCE(S): 1008
 *** DISCRETE CARTESIAN RECEPTOR POINTS

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
399868.00	3779295.00	99.98975	(06090902)	399868.00
3779295.00	121.11517	(07102021)		
399868.00	3779295.00	123.58025	(06081206)	399868.00
3779295.00	124.41815	(06081206)		
399867.00	3779234.00	115.98116	(06062603)	399867.00
3779234.00	149.03071	(09070803)		
399867.00	3779234.00	152.00415	(07090104)	399867.00
3779234.00	150.99402	(07090104)		
399867.00	3779234.00	144.23163	(06071602)	400046.00
3779169.00	0.00000	(00000000)		
400046.00	3779169.00	0.00000	(00000000)	400046.00
3779169.00	0.00000	(00000000)		
400046.00	3779169.00	0.00000	(00000000)	400046.00
3779169.00	0.00000	(00000000)		
400071.00	3779286.00	85.03999	(06090320)	400071.00
3779286.00	110.58959	(06090320)		
400071.00	3779286.00	114.82734	(06090320)	400071.00
3779286.00	117.97127	(07090224)		
400071.00	3779286.00	113.42922	(07090224)	

*** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 86
 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN
 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: 1009
 INCLUDING SOURCE(S): 1009
 *** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

Y-COORD (METERS) | 399846.00 | 399876.00 | X-COORD (METERS) 399906.00

399936.00

3779361.0	|	43.65348	(11082006)	46.02769	(09082623)	48.16194	(09082623)
48.70490	(09070505)	49.61933	(07032221)				
3779336.0	|	42.52766	(09081404)	44.70149	(11082006)	47.39963	(09082623)
49.40589	(09082623)	49.67954	(07032221)				
3779311.0	|	39.89456	(09052205)	42.38924	(09081404)	45.63801	(11082006)
47.68391	(09082623)	49.50175	(09082623)				
3779286.0	|	37.39452	(10081503)	40.06798	(10081503)	43.73165	(09081404)
45.33190	(09082623)	48.52725	(09082623)				
3779261.0	|	35.14578	(07102622)	37.89907	(07102622)	39.79613	(10081503)
41.37805	(09081404)	44.47717	(09082623)				
3779236.0	|	30.61963	(09080424)	32.69554	(09080424)	35.62793	(07102622)
37.50049	(09081404)	38.65167	(09081404)				
3779211.0	|	27.02839	(09080424)	29.60187	(09080424)	27.72816	(09012717)
29.48418	(09012717)	33.99599	(09052507)				
3779186.0	|	24.47265	(09012717)	27.29824	(09012717)	30.22095	(09012717)
33.21666	(09012717)	36.20497	(09012717)				
3779161.0	|	24.03821	(09012717)	27.44824	(09012717)	31.27163	(09012717)
35.33356	(09012717)	39.97795	(09012717)				
3779136.0	|	22.57054	(09012717)	26.30109	(09012717)	30.58012	(09012717)
35.56041	(09012717)	41.51329	(09012717)				

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
Project
*** AERMET - VERSION 14134 *** 03/30/18
Health Risk Assessment 3.30.18
08:23:51

PAGE 87

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: 1009
INCLUDING SOURCE(S): 1009

*** NETWORK ID: C1001 ; NETWORK TYPE:
GRID CART ***

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

Y-COORD (METERS) | 399996.00 400116.00 400026.00 X-COORD (METERS)
400086.00 400056.00

3779361.0	|	45.72670	(11042824)	43.79284	(11042824)	42.73451	(07040921)
39.42958	(06090902)	35.35178	(10071401)				
3779336.0	|	46.49675	(07032221)	42.52235	(11042824)	40.95251	(07040921)
36.67738	(07102021)	28.18607	(06090401)				
3779311.0	|	48.86700	(07032221)	44.88876	(07032221)	39.74346	(06062603)
31.77823	(11091107)	32.39644	(06090401)				
3779286.0	|	47.62621	(09082623)	46.30626	(07032221)	38.26503	(06062603)
35.48192	(11091107)	37.66178	(06090401)				
3779261.0	|	45.87537	(09082623)	43.89198	(09082623)	38.32580	(09052507)
40.55037	(06090401)	44.35234	(06090401)				
3779236.0	|	39.92614	(09052507)	43.98876	(09052507)	45.67685	(09052507)
47.51647	(06090401)	53.00831	(06090401)				
3779211.0	|	41.36032	(09052507)	47.98421	(09052507)	52.92832	(09052507)
56.24546	(06090401)	64.40655	(06090401)				
3779186.0	|	41.05107	(09052507)	50.38644	(09052507)	59.02525	(09052507)

3200 E. FOOTHILL BOULEVARD_AERMOD.out

67.21103 (06090401) 79.71280 (06090401) 52.66320 (06090401) 64.93327 (06090401)
3779161.0 | 44.73260 (09012717) 100.52642 (06090401)
80.84989 (06090401) 100.52642 (06090401)
3779136.0 | 48.27166 (09012717) 58.56912 (06090401) 74.60428 (06090401)
97.24667 (06090401) 0.00000 (00000000)

*** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
Project 03/30/18

*** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
08:23:51

PAGE 88

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1009 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
INCLUDING SOURCE(S): 1009

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

Table with 5 columns: X-COORD (M), Y-COORD (M), CONC (YYMMDDHH), X-COORD (M), and Y-COORD (M). It lists receptor points with their coordinates and concentrations.

*** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
Project 03/30/18

*** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
08:23:51

PAGE 89

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1010 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
INCLUDING SOURCE(S): 1010

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

** CONC OF OTHER IN MICROGRAMS/M**3
Page 63

**

Y-COORD (METERS)				X-COORD (METERS)
399936.00	399846.00	399966.00	399876.00	399906.00
3779361.0	37.84833 (09080424)	38.64690 (09080424)	40.24876 (06032705)	
42.19663 (06032705)	43.47094 (07102622)			
3779336.0	37.81277 (09080424)	39.34558 (09080424)	40.57682 (09080424)	
41.43020 (09080424)	43.47331 (06032705)			
3779311.0	37.10715 (06061422)	38.62774 (06061422)	40.67063 (09080424)	
42.05984 (09080424)	43.41467 (09080424)			
3779286.0	35.82497 (11060301)	37.79500 (06061422)	40.08820 (06061422)	
41.52302 (06061422)	43.63056 (09080424)			
3779261.0	35.32618 (06061502)	37.20653 (06061502)	38.65425 (06061502)	
40.13078 (06061422)	42.38621 (06061422)			
3779236.0	33.51508 (07090402)	35.15529 (06061502)	37.44812 (06061502)	
39.31634 (06061502)	40.63335 (06061502)			
3779211.0	33.05492 (07090402)	34.82027 (07090402)	35.69911 (07090402)	
37.01111 (07090402)	38.09651 (06061502)			
3779186.0	30.38481 (07090402)	32.35876 (07090402)	33.92022 (07090402)	
35.53858 (07090402)	37.21020 (07090402)			
3779161.0	26.56480 (09042202)	28.24651 (09042202)	30.19738 (07090402)	
31.23947 (07090402)	33.65315 (07090402)			
3779136.0	23.95771 (10082605)	25.41777 (10082605)	26.35057 (10082605)	
27.35767 (10082605)	29.21442 (10082605)			

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 90

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1010 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 1010

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

**

Y-COORD (METERS)				X-COORD (METERS)
400086.00	399996.00	400116.00	400026.00	400056.00
3779361.0	43.61804 (07102622)	44.69196 (10081503)	45.48273 (10081503)	
46.57444 (09052205)	47.10564 (11082006)			
3779336.0	43.72199 (07102622)	44.24902 (07102622)	45.47169 (10081503)	
45.86860 (10081503)	46.55135 (09052205)			
3779311.0	44.22722 (06032705)	44.91190 (06032705)	45.39002 (07102622)	
45.26102 (10081503)	46.16932 (10081503)			
3779286.0	44.73590 (09080424)	45.35451 (09080424)	44.83269 (06032705)	
44.91524 (07102622)	44.98140 (07102622)			
3779261.0	44.03400 (09080424)	45.49351 (09080424)	45.26941 (09080424)	
44.21036 (09080424)	43.44900 (07102622)			
3779236.0	41.61718 (06061422)	43.55156 (06061422)	43.40901 (09080424)	

3200 E. FOO TH I I L L B O U L E V A R D _ A E R M O D . o u t

43. 65675 (09080424)	42. 31246 (09080424)	41. 06616 (06061502)	41. 82417 (06061422)
3779211. 0 | 40. 25513 (06061502)	42. 17484 (09080424)	39. 64471 (06061502)	
42. 10175 (06061422)	39. 65364 (06061422)	36. 08812 (07090402)	
3779186. 0 | 37. 60023 (07090402)	35. 08037 (07090402)	32. 46739 (07090402)	
39. 34464 (06061502)	31. 47263 (07090402)		
3779161. 0 | 34. 79819 (07090402)	32. 96059 (07090402)		
36. 00124 (07090402)			
3779136. 0 | 30. 46468 (10082605)			
33. 41423 (07090402)			

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi I I B o u l e v a r d M i x e d - U s e
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** H e a l t h R i s k A s s e s s m e n t 3. 30. 18
 *** 08: 23: 51

PAGE 91

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 1010 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATI ON
 *** I N C L U D I N G S O U R C E (S) : 1010 ,

*** DI SCRETE CARTESIAN RECEPTOR POINTS

** CONC OF OTHER I N M I C R O G R A M S / M ** 3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M) CONC	(YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)
3779295. 00	399868. 00	3779295. 00	(06061422)	44. 86240	(06061422)	399868. 00
3779295. 00	399868. 00	48. 48378 (06061422)		52. 01125	(07050521)	399868. 00
3779295. 00	3779295. 00	53. 40577 (07050521)		43. 43696	(09092803)	399867. 00
3779234. 00	399867. 00	3779234. 00	(09092803)	52. 88847	(07071822)	399867. 00
3779234. 00	399867. 00	48. 25104 (09092803)		55. 35291	(06083124)	400046. 00
3779234. 00	399867. 00	55. 10214 (07071822)		68. 15206	(07090402)	400046. 00
3779169. 00	400046. 00	3779169. 00	(07090402)	73. 73404	(07071822)	400046. 00
3779169. 00	400046. 00	72. 30639 (07071822)		61. 71945	(06032705)	400071. 00
3779169. 00	400046. 00	3779169. 00	(07071822)	69. 89423	(11092605)	400071. 00
3779169. 00	400046. 00	73. 70593 (06083124)		70. 31198	(06060404)	
3779286. 00	400071. 00	3779286. 00	(11092605)			
3779286. 00	400071. 00	66. 11249 (11092605)				
3779286. 00	400071. 00	3779286. 00	(11092605)			
3779286. 00	400071. 00	69. 91306 (11092605)				
3779286. 00	400071. 00	3779286. 00	(11092605)			

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi I I B o u l e v a r d M i x e d - U s e
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** H e a l t h R i s k A s s e s s m e n t 3. 30. 18
 *** 08: 23: 51

PAGE 92

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3001 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATI ON
 *** I N C L U D I N G S O U R C E (S) : 3001 ,

GRI DCART ***

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

**

Y-COORD (METERS)	399846.00	399966.00	399876.00	X-COORD (METERS)	399906.00
399936.00					

3779361.0	|	46.64956	(09081404)	49.84814	(11082006)	53.84455	(09082623)
56.07109	(09082623)	54.61207	(07032221)				
3779336.0	|	43.09245	(10081503)	46.21983	(09081404)	49.64775	(11082006)
53.93326	(09082623)	53.61065	(09082623)				
3779311.0	|	37.58938	(07102622)	39.42940	(10081503)	44.66031	(09081404)
49.57822	(09052507)	56.26989	(09052507)				
3779286.0	|	31.72857	(09012717)	33.46159	(09012717)	37.58847	(09052507)
49.67721	(09052507)	61.52514	(09052507)				
3779261.0	|	35.29952	(09012717)	39.10162	(09012717)	42.44549	(09012717)
46.11802	(09052507)	62.47297	(09052507)				
3779236.0	|	36.43494	(09012717)	42.15895	(09012717)	48.39739	(09012717)
54.62538	(09012717)	60.06000	(09012717)				
3779211.0	|	35.10289	(09012717)	42.15802	(09012717)	50.24845	(09012717)
59.92660	(09012717)	70.49932	(09012717)				
3779186.0	|	31.22075	(09121516)	38.43482	(09012717)	47.63214	(09012717)
59.38656	(09012717)	74.37790	(09012717)				
3779161.0	|	33.79811	(09121516)	39.69983	(09121516)	47.26074	(09121516)
56.72131	(09121516)	69.81698	(09121516)				
3779136.0	|	34.25298	(07042007)	41.37252	(07042007)	50.62062	(07042007)
63.06279	(07042007)	80.84898	(07042007)				

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
Project 03/30/18
*** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
*** 08:23:51

PAGE 93

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3001 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
*** INCLUDING SOURCE(S): 3001

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

**

Y-COORD (METERS)	399996.00	400116.00	400026.00	X-COORD (METERS)	400056.00
400086.00					

3779361.0	|	44.34100	(07032221)	45.32574	(11091107)	45.14923	(11091107)
47.92870	(11060807)	52.12836	(11013010)				
3779336.0	|	45.25669	(09052507)	50.10327	(11091107)	53.51274	(11091107)
53.71143	(11060807)	59.95970	(11013010)				
3779311.0	|	57.74963	(09052507)	54.61687	(11091107)	62.80624	(11091107)
60.30093	(11060807)	70.20103	(10100517)				
3779286.0	|	69.47290	(09052507)	70.09885	(09052507)	72.34342	(11091107)

3200 E. FOOTHILL BOULEVARD_AERMOD.out

74.25641	(11091107)	85.88417	(10100517)		
3779261.0	| 78.27921	(09052507)	88.19840	(09052507)	86.00617 (09052507)
91.51451	(11091107)	107.23231	(10100517)		
3779236.0	| 80.57848	(09052507)	102.31051	(09052507)	112.81050 (09052507)
118.92236	(06090401)	137.77430	(06090401)		
3779211.0	| 82.02682	(09012717)	107.87421	(09052507)	138.10941 (09052507)
162.58226	(06090401)	202.91315	(06090401)		
3779186.0	| 91.69120	(09012717)	112.97239	(09012717)	156.10623 (06090401)
230.43015	(06090401)	330.24467	(06090401)		
3779161.0	| 89.80048	(09012717)	125.06617	(06090401)	192.34405 (06090401)
329.50833	(06090401)	0.00000	(00000000)		
3779136.0	| 106.22826	(07042007)	143.90419	(07042007)	219.89283 (06090401)
0.00000	(00000000)	0.00000	(00000000)		

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 94

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3001 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 INCLUDING SOURCE(S): 3001

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)
399868.00	3779295.00	80.82854	(07102622)	399868.00
3779295.00	104.33333	(07102622)		
399868.00	3779295.00	113.58946	(07102622)	399868.00
3779295.00	121.76240	(10071803)		
399867.00	3779234.00	75.24056	(06061422)	399867.00
3779234.00	109.08520	(06061422)		
399867.00	3779234.00	123.14492	(06061422)	399867.00
3779234.00	129.64163	(07050521)		
399867.00	3779234.00	132.41795	(07050521)	400046.00
3779169.00	212.94993	(09080424)		
400046.00	3779169.00	284.33975	(09080424)	400046.00
3779169.00	280.63065	(09080424)		
400046.00	3779169.00	281.69470	(07072904)	400046.00
3779169.00	272.78821	(07072904)		
400071.00	3779286.00	153.37734	(09070803)	400071.00
3779286.00	189.53853	(09051203)		
400071.00	3779286.00	194.40699	(10032321)	400071.00
3779286.00	198.83688	(10032321)		
400071.00	3779286.00	195.70204	(11082701)	

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 95

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

3200 E. FOO TH I LL BOULEVARD_AERMOD.out

VALUES FOR SOURCE GROUP: 3002 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION ***

INCLUDING SOURCE(S): 3002

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

**

Y-COORD (METERS)				X-COORD (METERS)
399936.00	399846.00	399966.00	399876.00	399906.00

3779361.0	49.09759	(07032221)	50.45581	(07032221)	51.52039	(07040921)
52.45677	(07102021)	52.41566	(11060807)			
3779336.0	53.37557	(09052507)	52.12278	(09052507)	54.02177	(11091107)
61.71576	(11091107)	58.74632	(11060807)			
3779311.0	60.13339	(09052507)	64.99867	(09052507)	61.67953	(09052507)
71.43350	(11091107)	72.34062	(11091107)			
3779286.0	63.05442	(09052507)	76.13034	(09052507)	81.56499	(09052507)
80.70711	(11091107)	91.12891	(11091107)			
3779261.0	60.76447	(09052507)	82.08196	(09052507)	99.69425	(09052507)
103.73998	(09052507)	111.75081	(11091107)			
3779236.0	64.85605	(09012717)	79.04318	(09052507)	110.24064	(09052507)
135.05690	(09052507)	136.10588	(09052507)			
3779211.0	73.18371	(09012717)	88.73478	(09012717)	107.01282	(09052507)
154.09654	(09052507)	189.52401	(09052507)			
3779186.0	71.61890	(09012717)	93.09091	(09012717)	120.25099	(09012717)
160.38657	(06090401)	247.34204	(06090401)			
3779161.0	71.17023	(09121516)	90.46885	(09121516)	123.01693	(06090401)
191.10835	(06090401)	338.80751	(06090401)			
3779136.0	82.67172	(07042007)	107.69420	(07042007)	143.32114	(07042007)
208.49564	(06090401)	405.37125	(06090506)			

♀ *** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 96

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3002 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION ***

INCLUDING SOURCE(S): 3002

*** NETWORK ID: C1001 ; NETWORK TYPE:

GRI DCART ***

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

**

Y-COORD (METERS)				X-COORD (METERS)
400086.00	399996.00	400116.00	400026.00	400056.00

3779361.0	58.02668	(11060807)	72.53924	(10100517)	86.96102	(07052117)
85.60098	(07052117)	70.11040	(07052117)			
3779336.0	68.17722	(11060807)	87.11601	(10100517)	102.65972	(07052117)

3200 E. FOOTHILL BOULEVARD_AERMOD.out

96.77805	(07052117)	75.17315	(07052117)		
3779311.0	|	81.80722	(11060807)	107.76501	(10100517)
109.29757	(07052117)			80.50772	(07052117)
3779286.0	|	97.99850	(11060807)	135.98487	(10100517)
124.41444	(07052117)			88.09402	(11111416)
3779261.0	|	118.98429	(11060807)	174.46991	(10100517)
141.76531	(07052117)			112.51164	(07040816)
3779236.0	|	154.22793	(06090401)	229.26607	(10100517)
159.25506	(07052117)			168.92612	(07040816)
3779211.0	|	232.03557	(06090401)	314.35643	(07052117)
263.97310	(07040816)			228.00058	(07040816)
3779186.0	|	386.65956	(06090401)	498.61434	(06090401)
363.69310	(07040816)			281.36268	(07040816)
3779161.0	|	0.00000	(00000000)	0.00000	(00000000)
463.46698	(07040816)			304.37108	(07040816)
3779136.0	|	0.00000	(00000000)	0.00000	(00000000)
498.21134	(07040816)			273.61754	(07040816)

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
Project 03/30/18

*** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
08:23:51

PAGE 97

*** MODELOPTs: RegDFault CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3002 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
INCLUDING SOURCE(S): 3002

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC (YMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC (YMMDDHH)		
399868.00	3779295.00	116.49978 (09082623)	399868.00
3779295.00	160.27253 (09082623)		
399868.00	3779295.00	174.07642 (09082623)	399868.00
3779295.00	182.51320 (11070605)		
399867.00	3779234.00	108.18903 (07102622)	399867.00
3779234.00	177.02449 (07102622)		
399867.00	3779234.00	200.35968 (07102622)	399867.00
3779234.00	211.12926 (11100223)		
399867.00	3779234.00	211.91873 (11100223)	400046.00
3779169.00	0.00000 (00000000)		
400046.00	3779169.00	0.00000 (00000000)	400046.00
3779169.00	0.00000 (00000000)		
400046.00	3779169.00	0.00000 (00000000)	400046.00
3779169.00	0.00000 (00000000)		
400071.00	3779286.00	177.15546 (07052117)	400071.00
3779286.00	231.86111 (07090321)		
400071.00	3779286.00	241.90833 (07090321)	400071.00
3779286.00	249.59752 (07090324)		
400071.00	3779286.00	244.90664 (07090324)	

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
Project 03/30/18

*** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
08:23:51

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3003 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION INCLUDING SOURCE(S): 3003

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS) | 399846.00 399966.00 399876.00 X-COORD (METERS) 399906.00

Table with 6 columns: Y-COORD (METERS), CONC, SOURCE ID, ELEV, SOURCE ID, CONC. Rows include data for various source IDs like (10100517), (11091107), (06090902), etc.

*** AERMOD - VERSION 16216r *** 3200 E. Foothill Boulevard Mixed-Use Project 03/30/18 *** AERMET - VERSION 14134 *** Health Risk Assessment 3.30.18 08:23:51

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3003 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION INCLUDING SOURCE(S): 3003

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS) | 399996.00 400116.00 400026.00 X-COORD (METERS) 400056.00

3200 E. FOOTHILL BOULEVARD_AERMOD.out

3779361.0	|	67.13485	(07052117)	57.09868	(07052117)	42.60209	(07052117)
35.93583	(11111416)	37.29296	(11111416)				
3779336.0	|	75.42973	(07052117)	61.30356	(07052117)	43.54991	(07052117)
43.22686	(11111416)	42.51603	(11111416)				
3779311.0	|	85.60639	(07052117)	66.05789	(07052117)	50.27706	(11111416)
50.82252	(11111416)	47.36388	(11111416)				
3779286.0	|	96.39966	(07052117)	70.44625	(07052117)	61.81407	(11111416)
58.34983	(11111416)	61.19029	(07040816)				
3779261.0	|	108.34840	(07052117)	75.83170	(11111416)	73.99044	(11111416)
76.89518	(07040816)	79.75308	(07040816)				
3779236.0	|	119.83785	(07052117)	95.12582	(11111416)	99.64674	(07040816)
102.74186	(07040816)	96.41917	(07040816)				
3779211.0	|	133.62372	(07052117)	135.20755	(07040816)	138.15952	(07040816)
126.87334	(07040816)	109.61819	(07040816)				
3779186.0	|	193.27274	(07040816)	192.00471	(07040816)	171.80855	(07040816)
141.37284	(07040816)	113.84106	(07040816)				
3779161.0	|	285.02267	(07040816)	232.88269	(07040816)	184.32383	(07040816)
141.56816	(07040816)	110.41790	(07040816)				
3779136.0	|	350.45745	(07040816)	249.61068	(07040816)	184.17486	(07040816)
135.19487	(07040816)	98.61616	(07040816)				

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 100

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3003 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 3003

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
399868.00	3779295.00	125.18000	(06090902)	399868.00
3779295.00	161.65264	(06090902)		
399868.00	3779295.00	169.78783	(06090902)	399868.00
3779295.00	177.99395	(06061623)		
399867.00	3779234.00	144.05119	(09070803)	399867.00
3779234.00	206.74633	(11042523)		
399867.00	3779234.00	218.41489	(11042523)	399867.00
3779234.00	223.92096	(09080622)		
399867.00	3779234.00	218.53578	(09080622)	400046.00
3779169.00	264.88376	(07040816)		
400046.00	3779169.00	281.22829	(07040816)	400046.00
3779169.00	284.12396	(07040816)		
400046.00	3779169.00	281.67062	(07040816)	400046.00
3779169.00	272.97730	(07040816)		
400071.00	3779286.00	102.24512	(06090320)	400071.00
3779286.00	141.63420	(06090320)		
400071.00	3779286.00	154.43573	(06090320)	400071.00
3779286.00	162.69904	(07090224)		
400071.00	3779286.00	162.09149	(07090224)	

3200 E. FOO THI LL BOULEVARD_AERMOD.out
 ♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi ll Boul evard Mi xed-Use
 Project ***
 *** AERMET - VERSION 14134 *** *** Heal th Ri sk Assessment 3. 30. 18
 *** 08: 23: 51

PAGE 101

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATI ON
 VALUES FOR SOURCE GROUP: 3004 ***
 INCLUDING SOURCE(S): 3004 ,

*** NETWORK ID: C1001 ; NETWORK TYPE:
 GRIDCART ***

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

**

Y-COORD (METERS)	|	399846.00		399876.00	X-COORD (METERS)
399936.00			399966.00		399906.00

3779361.0 |	58.01020 (11042824)	58.82349 (11060302)	61.44528 (09070803)
63.33015 (06090902)	61.69998 (10071401)		
3779336.0 |	57.09789 (07032221)	59.37112 (11042824)	61.30570 (07040921)
63.21943 (07102021)	62.66719 (10071401)		
3779311.0 |	55.69970 (07032221)	56.92704 (11042824)	60.31086 (07040921)
60.38171 (11042523)	62.32893 (06090902)		
3779286.0 |	51.60934 (07032221)	55.48747 (07032221)	58.85726 (11042824)
58.92159 (07040921)	60.76688 (06090902)		
3779261.0 |	49.35546 (09082623)	52.88218 (07032221)	53.68127 (11042824)
53.33204 (07040921)	51.25564 (11091107)		
3779236.0 |	50.75078 (09052507)	54.50373 (09052507)	52.48380 (09052507)
57.83504 (11091107)	61.86769 (11091107)		
3779211.0 |	53.37716 (09052507)	62.72249 (09052507)	66.36585 (09052507)
62.64082 (11091107)	73.41073 (11091107)		
3779186.0 |	52.04560 (09052507)	67.08003 (09052507)	79.00328 (09052507)
82.66239 (09052507)	85.81627 (11091107)		
3779161.0 |	51.61379 (09012717)	65.68916 (09052507)	86.38252 (09052507)
101.51113 (09052507)	104.82416 (09052507)		
3779136.0 |	59.07821 (09012717)	68.15173 (09012717)	85.20423 (09052507)
113.74424 (09052507)	136.46105 (09052507)		

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi ll Boul evard Mi xed-Use
 Project ***
 *** AERMET - VERSION 14134 *** *** Heal th Ri sk Assessment 3. 30. 18
 *** 08: 23: 51

PAGE 102

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATI ON
 VALUES FOR SOURCE GROUP: 3004 ***
 INCLUDING SOURCE(S): 3004 ,

*** NETWORK ID: C1001 ; NETWORK TYPE:
 GRIDCART ***

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

**

Y-COORD	|			X-COORD (METERS)
---------	--	--	--	------------------

3200 E. FOOTHILL BOULEVARD_AERMOD.out
 (METERS) | 399996.00 400116.00 400026.00 400056.00
 400086.00

3779361.0	|	53.90612	(09090404)	48.04289	(06090522)	45.10101	(10100517)
51.98566	(07052117)	53.14909	(07052117)				
3779336.0	|	53.98980	(09090404)	45.28015	(06090522)	51.68631	(10100517)
59.01359	(07052117)	58.89640	(07052117)				
3779311.0	|	58.57330	(10071401)	48.60287	(06090522)	59.89656	(10100517)
67.41923	(07052117)	65.63592	(07052117)				
3779286.0	|	56.27121	(10071401)	53.24430	(11013010)	70.17900	(10100517)
77.81422	(07052117)	72.92280	(07052117)				
3779261.0	|	56.76067	(11060807)	62.81104	(10100517)	83.30309	(10100517)
90.42776	(07052117)	80.93417	(07052117)				
3779236.0	|	64.54644	(11060807)	75.72641	(10100517)	99.50290	(10100517)
105.18959	(07052117)	89.64427	(07052117)				
3779211.0	|	74.36767	(11060807)	92.90967	(10100517)	121.54546	(07052117)
123.88617	(07052117)	100.48998	(07052117)				
3779186.0	|	88.53793	(11091107)	116.22431	(10100517)	150.59850	(07052117)
145.76434	(07052117)	111.63361	(07052117)				
3779161.0	|	112.22184	(06090401)	148.23363	(10100517)	186.59720	(07052117)
170.84722	(07052117)	123.80204	(07052117)				
3779136.0	|	154.41693	(06090401)	198.19563	(10100517)	241.41804	(07052117)
207.57122	(07052117)	195.26163	(07040816)				

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 103

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: 3004 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 3004

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	CONC (YYMMDDHH)	X-COORD (M)
399868.00	3779295.00	95.65879	(07032221)	399868.00
3779295.00	114.50719	(07032221)		
399868.00	3779295.00	124.67837	(07072803)	399868.00
3779295.00	131.25154	(07072803)		
399867.00	3779234.00	104.02737	(09082623)	399867.00
3779234.00	133.55057	(09082623)		
399867.00	3779234.00	142.38321	(09082623)	399867.00
3779234.00	149.63632	(11111121)		
399867.00	3779234.00	148.82231	(11111121)	400046.00
3779169.00	210.51980	(07090401)		
400046.00	3779169.00	259.87648	(07090401)	400046.00
3779169.00	259.87268	(07090102)		
400046.00	3779169.00	260.39074	(07090102)	400046.00
3779169.00	252.52256	(07090102)		
400071.00	3779286.00	125.13325	(07090221)	400071.00
3779286.00	149.40251	(07090221)		

3200 E. FOOTHILL BOULEVARD_AERMOD.out
 400071.00 3779286.00 154.36445 (06071506) 400071.00
 3779286.00 159.67127 (06071506)
 400071.00 3779286.00 158.31504 (07090203)

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN
 PAGE 104

VALUES FOR SOURCE GROUP: 3005 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 3005

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

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

Y-COORD (METERS)	399846.00	399966.00	399876.00	X-COORD (METERS)	399906.00
399936.00					

3779361.0 |	53.57866 (09082623)	54.31225 (09070505)	57.33918 (07032221)
58.17056 (07032221)	58.95989 (11042824)		
3779336.0 |	52.95164 (09082623)	55.28715 (09082623)	56.25256 (09070505)
59.47085 (07032221)	59.71233 (11042824)		
3779311.0 |	50.45265 (11082006)	53.80679 (09082623)	56.84897 (09082623)
57.78918 (07032221)	59.82185 (07032221)		
3779286.0 |	47.42939 (09081404)	51.59252 (11082006)	56.54165 (09082623)
56.92038 (09082623)	59.77741 (07032221)		
3779261.0 |	44.66043 (09052205)	49.06405 (09081404)	52.49936 (09082623)
54.93424 (09082623)	56.04915 (09082623)		
3779236.0 |	39.18396 (10081503)	42.74890 (09081404)	47.55641 (09081404)
51.55270 (09082623)	53.06039 (09082623)		
3779211.0 |	35.32541 (07102622)	38.75541 (07102622)	39.22366 (09081404)
42.37240 (09052507)	50.25713 (09052507)		
3779186.0 |	28.99901 (09012717)	30.74475 (09012717)	31.75934 (09012717)
40.25247 (09052507)	51.84298 (09052507)		
3779161.0 |	31.44850 (09012717)	34.84064 (09012717)	38.00329 (09012717)
40.37355 (09012717)	49.51387 (09052507)		
3779136.0 |	31.98716 (09012717)	36.81773 (09012717)	41.91215 (09012717)
47.16816 (09012717)	52.34653 (09012717)		

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN
 PAGE 105

VALUES FOR SOURCE GROUP: 3005 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 *** INCLUDING SOURCE(S): 3005

GRI DCART *** *** NETWORK ID: C1001 ; NETWORK TYPE:

**

Y-COORD (METERS)	399996.00	400116.00	400026.00	X-COORD (METERS)
400086.00				400056.00

3779361.0	|	54.70856	(11060302)	52.75459	(11042523)	51.48997	(06090902)
47.68362	(10071401)	42.47412	(09090404)				
3779336.0	|	55.21199	(11042824)	51.78598	(09070803)	49.85973	(07102021)
45.29325	(10071401)	39.21953	(09090404)				
3779311.0	|	59.25505	(11042824)	54.92095	(07040921)	49.17714	(07102021)
41.86767	(06090902)	38.30751	(11060807)				
3779286.0	|	57.91310	(11042824)	56.12690	(07040921)	48.19669	(07040921)
35.75516	(11060807)	42.74063	(11060807)				
3779261.0	|	57.24689	(07032221)	54.43888	(11042824)	46.92117	(07040921)
42.90039	(11091107)	47.92292	(11060807)				
3779236.0	|	49.87063	(07032221)	48.68823	(07032221)	50.61296	(11091107)
51.58980	(11091107)	53.97153	(11060807)				
3779211.0	|	55.06502	(09052507)	54.14387	(09052507)	55.85039	(11091107)
61.60292	(11091107)	61.50057	(11060807)				
3779186.0	|	61.74038	(09052507)	67.08012	(09052507)	64.47846	(09052507)
72.06329	(11091107)	70.81645	(11091107)				
3779161.0	|	64.76557	(09052507)	77.54024	(09052507)	83.36212	(09052507)
81.66104	(11091107)	89.31931	(11091107)				
3779136.0	|	62.45475	(09052507)	83.32978	(09052507)	100.82429	(09052507)
106.82156	(09052507)	112.09513	(06090401)				

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 106

*** MODELOPTs: RegDFault CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: 3005 ***
 INCLUDING SOURCE(S): 3005

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	CONC (YYMMDDHH)	X-COORD (M)

399868.00		3779295.00	76.10876	(11082006)	399868.00
3779295.00		88.94400	(11082006)		
399868.00		3779295.00	96.10160	(06091822)	399868.00
3779295.00		101.49267	(06091822)		
399867.00		3779234.00	75.93575	(10081503)	399867.00
3779234.00		93.95757	(10081503)		
399867.00		3779234.00	102.64078	(11082624)	399867.00
3779234.00		110.47130	(11082624)		
399867.00		3779234.00	111.32313	(11082624)	400046.00
3779169.00		148.62607	(07032221)		
400046.00		3779169.00	179.29740	(07032221)	400046.00
3779169.00		187.15377	(09090402)		

3200 E. FOOTHILL BOULEVARD_AERMOD.out

400046.00	3779169.00	190.90171	(09090402)	400046.00
3779169.00	185.74351	(06081205)		
400071.00	3779286.00	111.26070	(07102021)	400071.00
3779286.00	128.05622	(09050202)		
400071.00	3779286.00	135.68926	(06083006)	400071.00
3779286.00	139.48155	(06083006)		
400071.00	3779286.00	139.37113	(07062804)	

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 107

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

*** THE SUMMARY OF MAXIMUM PERIOD (43800

HRS) RESULTS ***

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

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE GRID-ID		
1001	1ST HIGHEST VALUE IS	5.80980 AT (	399846.00, 3779361.00, 221.00,
1878.40,	0.00) GC C1001		
1878.40,	2ND HIGHEST VALUE IS	5.53306 AT (	399846.00, 3779336.00, 220.60,
1878.40,	0.00) GC C1001		
1878.40,	3RD HIGHEST VALUE IS	5.25505 AT (	399846.00, 3779311.00, 220.10,
1878.40,	0.00) GC C1001		
1878.40,	4TH HIGHEST VALUE IS	5.19516 AT (	399876.00, 3779361.00, 220.90,
1878.40,	0.00) GC C1001		
1878.40,	5TH HIGHEST VALUE IS	4.98162 AT (	399846.00, 3779286.00, 219.60,
1878.40,	0.00) GC C1001		
1878.40,	6TH HIGHEST VALUE IS	4.97284 AT (	399876.00, 3779336.00, 220.50,
1878.40,	0.00) GC C1001		
1878.40,	7TH HIGHEST VALUE IS	4.77237 AT (	399868.00, 3779295.00, 225.77,
1878.40,	0.00) DC		
1878.40,	8TH HIGHEST VALUE IS	4.75768 AT (	399868.00, 3779295.00, 222.77,
1878.40,	0.00) DC		
1878.40,	9TH HIGHEST VALUE IS	4.74778 AT (	399876.00, 3779311.00, 220.00,
1878.40,	0.00) GC C1001		
1878.40,	10TH HIGHEST VALUE IS	4.74695 AT (	399868.00, 3779295.00, 228.77,
1878.40,	0.00) DC		
1002	1ST HIGHEST VALUE IS	33.97442 AT (	399846.00, 3779361.00, 221.00,
1878.40,	0.00) GC C1001		
1878.40,	2ND HIGHEST VALUE IS	32.30997 AT (	399846.00, 3779261.00, 219.20,
1878.40,	0.00) GC C1001		
1878.40,	3RD HIGHEST VALUE IS	28.84023 AT (	399868.00, 3779295.00, 225.77,
1878.40,	0.00) DC		
1878.40,	4TH HIGHEST VALUE IS	28.59615 AT (	399846.00, 3779236.00, 218.60,
1878.40,	0.00) GC C1001		
1878.40,	5TH HIGHEST VALUE IS	28.51181 AT (	399868.00, 3779295.00, 222.77,
1878.40,	0.00) DC		
1878.40,	6TH HIGHEST VALUE IS	28.16408 AT (	399868.00, 3779295.00, 228.77,
1878.40,	0.00) DC		

		3200 E. FOOTHILL BOULEVARD_AERMOD.out			
1878.40,	7TH HIGHEST VALUE IS 0.00) GC C1001	26.57495	AT (	399876.00,	3779311.00, 220.00,
1878.40,	8TH HIGHEST VALUE IS 0.00) GC C1001	26.39885	AT (	399876.00,	3779336.00, 220.50,
1878.40,	9TH HIGHEST VALUE IS 0.00) DC	26.17209	AT (	399868.00,	3779295.00, 231.77,
1878.40,	10TH HIGHEST VALUE IS 0.00) GC C1001	25.76908	AT (	399876.00,	3779286.00, 219.60,
1003	1ST HIGHEST VALUE IS 0.00) GC C1001	34.06367	AT (	400056.00,	3779261.00, 217.80,
1878.40,	2ND HIGHEST VALUE IS 0.00) GC C1001	32.63788	AT (	400026.00,	3779286.00, 218.70,
1878.40,	3RD HIGHEST VALUE IS 0.00) GC C1001	31.86386	AT (	400086.00,	3779236.00, 216.90,
1878.40,	4TH HIGHEST VALUE IS 0.00) GC C1001	31.40151	AT (	399846.00,	3779261.00, 219.20,
1878.40,	5TH HIGHEST VALUE IS 0.00) GC C1001	30.78114	AT (	399876.00,	3779286.00, 219.60,
1878.40,	6TH HIGHEST VALUE IS 0.00) GC C1001	30.76835	AT (	400116.00,	3779161.00, 215.60,
1878.40,	7TH HIGHEST VALUE IS 0.00) GC C1001	30.72362	AT (	400116.00,	3779136.00, 215.10,
1878.40,	8TH HIGHEST VALUE IS 0.00) GC C1001	29.78803	AT (	399966.00,	3779311.00, 219.70,
1878.40,	9TH HIGHEST VALUE IS 0.00) GC C1001	29.56994	AT (	400116.00,	3779186.00, 215.90,
1878.40,	10TH HIGHEST VALUE IS 0.00) GC C1001	29.56147	AT (	399936.00,	3779311.00, 219.80,
1004	1ST HIGHEST VALUE IS 0.00) GC C1001	27.84995	AT (	400116.00,	3779186.00, 215.90,
1878.40,	2ND HIGHEST VALUE IS 0.00) GC C1001	26.33756	AT (	400086.00,	3779136.00, 215.40,
1878.40,	3RD HIGHEST VALUE IS 0.00) GC C1001	24.13249	AT (	400086.00,	3779161.00, 215.70,
1878.40,	4TH HIGHEST VALUE IS 0.00) GC C1001	23.63235	AT (	400116.00,	3779211.00, 216.20,
1878.40,	5TH HIGHEST VALUE IS 0.00) GC C1001	21.54226	AT (	400086.00,	3779186.00, 216.20,
1878.40,	6TH HIGHEST VALUE IS 0.00) GC C1001	19.99624	AT (	400116.00,	3779236.00, 216.40,
1878.40,	7TH HIGHEST VALUE IS 0.00) GC C1001	19.84660	AT (	400056.00,	3779136.00, 215.60,
1878.40,	8TH HIGHEST VALUE IS 0.00) GC C1001	18.95890	AT (	400086.00,	3779211.00, 216.60,
1878.40,	9TH HIGHEST VALUE IS 0.00) GC C1001	18.59530	AT (	400056.00,	3779161.00, 216.00,
1878.40,	10TH HIGHEST VALUE IS 0.00) GC C1001	17.05193	AT (400056.00,	3779186.00, 216.60,

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 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 108

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE SUMMARY OF MAXIMUM PERIOD (43800

HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3
 Page 77

**

GROUP ID ZHI LL, ZFLAG)	NETWORK OF TYPE GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
1005	1ST HIGHEST VALUE IS	4. 61909 AT (	400116. 00, 3779136. 00, 215. 10,
1878. 40,	0. 00) GC C1001		
	2ND HIGHEST VALUE IS	4. 42628 AT (	400116. 00, 3779161. 00, 215. 60,
1878. 40,	0. 00) GC C1001		
	3RD HIGHEST VALUE IS	4. 25681 AT (	400116. 00, 3779186. 00, 215. 90,
1878. 40,	0. 00) GC C1001		
	4TH HIGHEST VALUE IS	4. 08293 AT (	400086. 00, 3779136. 00, 215. 40,
1878. 40,	0. 00) GC C1001		
	5TH HIGHEST VALUE IS	4. 07457 AT (	400116. 00, 3779211. 00, 216. 20,
1878. 40,	0. 00) GC C1001		
	6TH HIGHEST VALUE IS	3. 95499 AT (	400086. 00, 3779161. 00, 215. 70,
1878. 40,	0. 00) GC C1001		
	7TH HIGHEST VALUE IS	3. 89875 AT (	400116. 00, 3779236. 00, 216. 40,
1878. 40,	0. 00) GC C1001		
	8TH HIGHEST VALUE IS	3. 78063 AT (	400086. 00, 3779186. 00, 216. 20,
1878. 40,	0. 00) GC C1001		
	9TH HIGHEST VALUE IS	3. 65142 AT (	400056. 00, 3779136. 00, 215. 60,
1878. 40,	0. 00) GC C1001		
	10TH HIGHEST VALUE IS	3. 64497 AT (	400116. 00, 3779261. 00, 216. 80,
1878. 40,	0. 00) GC C1001		
1006	1ST HIGHEST VALUE IS	7. 86302 AT (	399846. 00, 3779361. 00, 221. 00,
1878. 40,	0. 00) GC C1001		
	2ND HIGHEST VALUE IS	7. 52748 AT (	399846. 00, 3779336. 00, 220. 60,
1878. 40,	0. 00) GC C1001		
	3RD HIGHEST VALUE IS	7. 16367 AT (	399846. 00, 3779311. 00, 220. 10,
1878. 40,	0. 00) GC C1001		
	4TH HIGHEST VALUE IS	6. 85423 AT (	399876. 00, 3779361. 00, 220. 90,
1878. 40,	0. 00) GC C1001		
	5TH HIGHEST VALUE IS	6. 78697 AT (	399846. 00, 3779286. 00, 219. 60,
1878. 40,	0. 00) GC C1001		
	6TH HIGHEST VALUE IS	6. 59428 AT (	399876. 00, 3779336. 00, 220. 50,
1878. 40,	0. 00) GC C1001		
	7TH HIGHEST VALUE IS	6. 41013 AT (	399846. 00, 3779261. 00, 219. 20,
1878. 40,	0. 00) GC C1001		
	8TH HIGHEST VALUE IS	6. 35538 AT (	399868. 00, 3779295. 00, 222. 77,
1878. 40,	0. 00) DC		
	9TH HIGHEST VALUE IS	6. 32737 AT (	399868. 00, 3779295. 00, 225. 77,
1878. 40,	0. 00) DC		
	10TH HIGHEST VALUE IS	6. 31151 AT (	399876. 00, 3779311. 00, 220. 00,
1878. 40,	0. 00) GC C1001		
1007	1ST HIGHEST VALUE IS	41. 18156 AT (	399846. 00, 3779261. 00, 219. 20,
1878. 40,	0. 00) GC C1001		
	2ND HIGHEST VALUE IS	40. 54068 AT (	399846. 00, 3779236. 00, 218. 60,
1878. 40,	0. 00) GC C1001		
	3RD HIGHEST VALUE IS	39. 65944 AT (	399846. 00, 3779286. 00, 219. 60,
1878. 40,	0. 00) GC C1001		
	4TH HIGHEST VALUE IS	37. 60394 AT (	399846. 00, 3779211. 00, 218. 20,
1878. 40,	0. 00) GC C1001		
	5TH HIGHEST VALUE IS	36. 45991 AT (	399846. 00, 3779311. 00, 220. 10,
1878. 40,	0. 00) GC C1001		
	6TH HIGHEST VALUE IS	33. 30143 AT (399846. 00, 3779186. 00, 217. 60,
1878. 40,	0. 00) GC C1001		

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1878.40,	7TH HIGHEST VALUE IS 0.00) GC C1001	32.34908 AT (399846.00,	3779336.00, 220.60,
1878.40,	8TH HIGHEST VALUE IS 0.00) DC	32.07560 AT (	399867.00,	3779234.00, 224.60,
1878.40,	9TH HIGHEST VALUE IS 0.00) DC	31.85131 AT (	399867.00,	3779234.00, 221.60,
1878.40,	10TH HIGHEST VALUE IS 0.00) DC	31.72955 AT (	399868.00,	3779295.00, 225.77,
1008	1ST HIGHEST VALUE IS 0.00) GC C1001	40.69421 AT (	400026.00,	3779211.00, 217.30,
1878.40,	2ND HIGHEST VALUE IS 0.00) GC C1001	38.29637 AT (	400056.00,	3779186.00, 216.60,
1878.40,	3RD HIGHEST VALUE IS 0.00) GC C1001	38.18635 AT (	399846.00,	3779211.00, 218.20,
1878.40,	4TH HIGHEST VALUE IS 0.00) GC C1001	37.87072 AT (	399996.00,	3779236.00, 218.00,
1878.40,	5TH HIGHEST VALUE IS 0.00) GC C1001	36.31602 AT (	399876.00,	3779236.00, 218.60,
1878.40,	6TH HIGHEST VALUE IS 0.00) GC C1001	34.86134 AT (	400086.00,	3779136.00, 215.40,
1878.40,	7TH HIGHEST VALUE IS 0.00) GC C1001	32.34015 AT (	399936.00,	3779261.00, 218.90,
1878.40,	8TH HIGHEST VALUE IS 0.00) GC C1001	32.32970 AT (	400086.00,	3779161.00, 215.70,
1878.40,	9TH HIGHEST VALUE IS 0.00) GC C1001	32.31876 AT (	400026.00,	3779236.00, 217.80,
1878.40,	10TH HIGHEST VALUE IS 0.00) GC C1001	32.27328 AT (	400056.00,	3779211.00, 217.00,

*** AERMOD - VERSION 16216r ***
 Project ***
 *** AERMET - VERSION 14134 ***
 *** 3200 E. Foothill Boulevard Mixed-Use
 03/30/18
 *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 109

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

*** THE SUMMARY OF MAXIMUM PERIOD (43800
 HRS) RESULTS ***

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

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GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR	(XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE GRID-ID			
1009	1ST HIGHEST VALUE IS 0.00) GC C1001	37.53745 AT (	400116.00,	3779161.00, 215.60,
1878.40,	2ND HIGHEST VALUE IS 0.00) GC C1001	35.77445 AT (	400086.00,	3779136.00, 215.40,
1878.40,	3RD HIGHEST VALUE IS 0.00) GC C1001	29.40921 AT (	400086.00,	3779161.00, 215.70,
1878.40,	4TH HIGHEST VALUE IS 0.00) GC C1001	29.37427 AT (	400116.00,	3779186.00, 215.90,
1878.40,	5TH HIGHEST VALUE IS 0.00) GC C1001	26.85730 AT (	400056.00,	3779136.00, 215.60,
1878.40,	6TH HIGHEST VALUE IS 0.00) GC C1001	24.18020 AT (	400086.00,	3779186.00, 216.20,

		3200 E. FOOTHILL BOULEVARD_AERMOD.out			
1878.40,	7TH HIGHEST VALUE IS 0.00) GC C1001	23.41373	AT (	400116.00,	3779211.00, 216.20,
1878.40,	8TH HIGHEST VALUE IS 0.00) GC C1001	23.15692	AT (	400056.00,	3779161.00, 216.00,
1878.40,	9TH HIGHEST VALUE IS 0.00) GC C1001	20.70550	AT (	400026.00,	3779136.00, 215.80,
1878.40,	10TH HIGHEST VALUE IS 0.00) GC C1001	20.04864	AT (	400086.00,	3779211.00, 216.60,
1010 1878.40,	1ST HIGHEST VALUE IS 0.00) GC C1001	6.24107	AT (	400116.00,	3779136.00, 215.10,
1878.40,	2ND HIGHEST VALUE IS 0.00) GC C1001	5.85100	AT (	400116.00,	3779161.00, 215.60,
1878.40,	3RD HIGHEST VALUE IS 0.00) GC C1001	5.51179	AT (	400116.00,	3779186.00, 215.90,
1878.40,	4TH HIGHEST VALUE IS 0.00) GC C1001	5.40419	AT (	400086.00,	3779136.00, 215.40,
1878.40,	5TH HIGHEST VALUE IS 0.00) GC C1001	5.16817	AT (	400116.00,	3779211.00, 216.20,
1878.40,	6TH HIGHEST VALUE IS 0.00) GC C1001	5.14441	AT (	400086.00,	3779161.00, 215.70,
1878.40,	7TH HIGHEST VALUE IS 0.00) GC C1001	4.84882	AT (	400116.00,	3779236.00, 216.40,
1878.40,	8TH HIGHEST VALUE IS 0.00) GC C1001	4.82438	AT (	400086.00,	3779186.00, 216.20,
1878.40,	9TH HIGHEST VALUE IS 0.00) GC C1001	4.74894	AT (	400056.00,	3779136.00, 215.60,
1878.40,	10TH HIGHEST VALUE IS 0.00) GC C1001	4.51748	AT (	400056.00,	3779161.00, 216.00,
3001 1878.40,	1ST HIGHEST VALUE IS 0.00) GC C1001	127.05600	AT (	400116.00,	3779186.00, 215.90,
1878.40,	2ND HIGHEST VALUE IS 0.00) GC C1001	124.19026	AT (	400086.00,	3779161.00, 215.70,
1878.40,	3RD HIGHEST VALUE IS 0.00) GC C1001	85.83529	AT (	400086.00,	3779186.00, 216.20,
1878.40,	4TH HIGHEST VALUE IS 0.00) GC C1001	81.05407	AT (	400056.00,	3779136.00, 215.60,
1878.40,	5TH HIGHEST VALUE IS 0.00) GC C1001	76.68420	AT (	400116.00,	3779211.00, 216.20,
1878.40,	6TH HIGHEST VALUE IS 0.00) GC C1001	70.54660	AT (	400056.00,	3779161.00, 216.00,
1878.40,	7TH HIGHEST VALUE IS 0.00) GC C1001	59.80564	AT (	400086.00,	3779211.00, 216.60,
1878.40,	8TH HIGHEST VALUE IS 0.00) GC C1001	56.68943	AT (	400056.00,	3779186.00, 216.60,
1878.40,	9TH HIGHEST VALUE IS 0.00) GC C1001	51.30206	AT (	400116.00,	3779236.00, 216.40,
1878.40,	10TH HIGHEST VALUE IS 0.00) GC C1001	48.93863	AT (	400026.00,	3779136.00, 215.80,
3002 1878.40,	1ST HIGHEST VALUE IS 0.00) GC C1001	195.26671	AT (	400026.00,	3779186.00, 216.80,
1878.40,	2ND HIGHEST VALUE IS 0.00) GC C1001	189.45818	AT (	400086.00,	3779136.00, 215.40,
1878.40,	3RD HIGHEST VALUE IS 0.00) GC C1001	166.22566	AT (	400056.00,	3779186.00, 216.60,
1878.40,	4TH HIGHEST VALUE IS 0.00) GC C1001	154.70183	AT (	400086.00,	3779161.00, 215.70,
1878.40,	5TH HIGHEST VALUE IS 0.00) GC C1001	153.25189	AT (	399966.00,	3779136.00, 216.10,
1878.40,	6TH HIGHEST VALUE IS 0.00) GC C1001	146.81574	AT (	399996.00,	3779186.00, 217.00,

3200 E. FOO THI LL BOULEVARD_AERMOD.out
 1878. 40, 7TH HIGHEST VALUE IS 126. 80437 AT (399966. 00, 3779161. 00, 216. 70,
 0. 00) GC C1001
 1878. 40, 8TH HIGHEST VALUE IS 108. 73634 AT (400086. 00, 3779186. 00, 216. 20,
 0. 00) GC C1001
 1878. 40, 9TH HIGHEST VALUE IS 101. 66116 AT (400026. 00, 3779211. 00, 217. 30,
 0. 00) GC C1001
 1878. 40, 10TH HIGHEST VALUE IS 95. 43416 AT (400056. 00, 3779211. 00, 217. 00,
 0. 00) GC C1001
 *** AERMOD - VERSION 16216r *** *** 3200 E. Foothi ll Boulevard Mi xed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Heal th Ri sk Assessment 3. 30. 18
 08: 23: 51

PAGE 110

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE SUMMARY OF MAXIMUM PERIOD (43800
 HRS) RESULTS ***

** CONC OF OTHER I N MI CROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR	(XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE GRID-ID			
3003	1ST HIGHEST VALUE IS	117. 73173 AT (399876. 00, 3779136. 00, 216. 30,		
1878. 40,	0. 00) GC C1001			
1878. 40,	2ND HIGHEST VALUE IS	115. 57673 AT (399936. 00, 3779161. 00, 216. 70,		
1878. 40,	0. 00) GC C1001			
1878. 40,	3RD HIGHEST VALUE IS	104. 82302 AT (399906. 00, 3779161. 00, 216. 90,		
1878. 40,	0. 00) GC C1001			
1878. 40,	4TH HIGHEST VALUE IS	99. 81766 AT (399996. 00, 3779136. 00, 216. 00,		
1878. 40,	0. 00) GC C1001			
1878. 40,	5TH HIGHEST VALUE IS	98. 51103 AT (399966. 00, 3779161. 00, 216. 70,		
1878. 40,	0. 00) GC C1001			
1878. 40,	6TH HIGHEST VALUE IS	78. 07988 AT (399876. 00, 3779161. 00, 216. 90,		
1878. 40,	0. 00) GC C1001			
1878. 40,	7TH HIGHEST VALUE IS	73. 00663 AT (399996. 00, 3779161. 00, 216. 50,		
1878. 40,	0. 00) GC C1001			
1878. 40,	8TH HIGHEST VALUE IS	70. 96814 AT (399846. 00, 3779136. 00, 216. 30,		
1878. 40,	0. 00) GC C1001			
1878. 40,	9TH HIGHEST VALUE IS	69. 58533 AT (399936. 00, 3779186. 00, 217. 40,		
1878. 40,	0. 00) GC C1001			
1878. 40,	10TH HIGHEST VALUE IS	65. 15928 AT (399906. 00, 3779186. 00, 217. 50,		
1878. 40,	0. 00) GC C1001			
3004	1ST HIGHEST VALUE IS	71. 97960 AT (400056. 00, 3779136. 00, 215. 60,		
1878. 40,	0. 00) GC C1001			
1878. 40,	2ND HIGHEST VALUE IS	68. 35818 AT (400026. 00, 3779136. 00, 215. 80,		
1878. 40,	0. 00) GC C1001			
1878. 40,	3RD HIGHEST VALUE IS	65. 13146 AT (400086. 00, 3779136. 00, 215. 40,		
1878. 40,	0. 00) GC C1001			
1878. 40,	4TH HIGHEST VALUE IS	56. 80529 AT (399996. 00, 3779136. 00, 216. 00,		
1878. 40,	0. 00) GC C1001			
1878. 40,	5TH HIGHEST VALUE IS	53. 15680 AT (400116. 00, 3779136. 00, 215. 10,		
1878. 40,	0. 00) GC C1001			
1878. 40,	6TH HIGHEST VALUE IS	48. 32645 AT (400056. 00, 3779161. 00, 216. 00,		
1878. 40,	0. 00) GC C1001			

3200 E. FOOTHILL BOULEVARD_AERMOD.out

1878.40,	7TH HIGHEST VALUE IS 0.00) GC C1001	46.50087 AT (	400026.00,	3779161.00,	216.20,
1878.40,	8TH HIGHEST VALUE IS 0.00) GC C1001	45.58525 AT (	400086.00,	3779161.00,	215.70,
1878.40,	9TH HIGHEST VALUE IS 0.00) GC C1001	44.01932 AT (	399966.00,	3779136.00,	216.10,
1878.40,	10TH HIGHEST VALUE IS 0.00) GC C1001	40.89834 AT (	399996.00,	3779161.00,	216.50,
3005 1878.40,	1ST HIGHEST VALUE IS 0.00) GC C1001	40.78832 AT (	400116.00,	3779136.00,	215.10,
1878.40,	2ND HIGHEST VALUE IS 0.00) GC C1001	33.46058 AT (	400086.00,	3779136.00,	215.40,
1878.40,	3RD HIGHEST VALUE IS 0.00) GC C1001	30.88070 AT (	400116.00,	3779161.00,	215.60,
1878.40,	4TH HIGHEST VALUE IS 0.00) GC C1001	26.90963 AT (	400056.00,	3779136.00,	215.60,
1878.40,	5TH HIGHEST VALUE IS 0.00) GC C1001	26.57138 AT (	400086.00,	3779161.00,	215.70,
1878.40,	6TH HIGHEST VALUE IS 0.00) GC C1001	24.22687 AT (	400116.00,	3779186.00,	215.90,
1878.40,	7TH HIGHEST VALUE IS 0.00) GC C1001	22.32352 AT (	400056.00,	3779161.00,	216.00,
1878.40,	8TH HIGHEST VALUE IS 0.00) GC C1001	21.65083 AT (	400026.00,	3779136.00,	215.80,
1878.40,	9TH HIGHEST VALUE IS 0.00) GC C1001	21.50238 AT (	400086.00,	3779186.00,	216.20,
1878.40,	10TH HIGHEST VALUE IS 0.00) GC C1001	19.54139 AT (	400116.00,	3779211.00,	216.20,

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

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 08:23:51

PAGE 111

*** MODELOPTs: RegDFault CONC ELEV URBAN

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

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

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	NETWORK GRID-ID	DATE (YYMMDDHH)	RECEPTOR
1001 HIGH 1ST HIGH VALUE IS 3779234.00, 233.60, 1878.40,	42.39511 0.00) DC	ON 09092420:	AT (399867.00,	
1002 HIGH 1ST HIGH VALUE IS 3779295.00, 231.77, 1878.40,	127.37196 0.00) DC	ON 06072722:	AT (399868.00,	

3200 E. FOOTHILL BOULEVARD_AERMOD.out

1003	HIGH	1ST HIGH VALUE	IS	127.74661	ON 07090104:	AT (	399868.00,
3779295.00,		228.77,	1878.40,	0.00)	DC		
1004	HIGH	1ST HIGH VALUE	IS	109.28180	ON 07102718:	AT (	400046.00,
3779169.00,		229.71,	1878.40,	0.00)	DC		
1005	HIGH	1ST HIGH VALUE	IS	62.29868	ON 06070724:	AT (	400071.00,
3779286.00,		234.26,	1878.40,	0.00)	DC		
1006	HIGH	1ST HIGH VALUE	IS	63.70531	ON 09090224:	AT (	399867.00,
3779234.00,		233.60,	1878.40,	0.00)	DC		
1007	HIGH	1ST HIGH VALUE	IS	143.73891	ON 06081101:	AT (	399867.00,
3779234.00,		233.60,	1878.40,	0.00)	DC		
1008	HIGH	1ST HIGH VALUE	IS	152.00415	ON 07090104:	AT (	399867.00,
3779234.00,		227.60,	1878.40,	0.00)	DC		
1009	HIGH	1ST HIGH VALUE	IS	127.74237	ON 11082624:	AT (	400046.00,
3779169.00,		226.71,	1878.40,	0.00)	DC		
1010	HIGH	1ST HIGH VALUE	IS	73.73404	ON 07071822:	AT (	400046.00,
3779169.00,		229.71,	1878.40,	0.00)	DC		
3001	HIGH	1ST HIGH VALUE	IS	330.24467	ON 06090401:	AT (	400116.00,
3779186.00,		215.90,	1878.40,	0.00)	GC C1001		
3002	HIGH	1ST HIGH VALUE	IS	498.61434	ON 06090401:	AT (	400026.00,
3779186.00,		216.80,	1878.40,	0.00)	GC C1001		
3003	HIGH	1ST HIGH VALUE	IS	350.45745	ON 07040816:	AT (	399996.00,
3779136.00,		216.00,	1878.40,	0.00)	GC C1001		
3004	HIGH	1ST HIGH VALUE	IS	260.39074	ON 07090102:	AT (	400046.00,
3779169.00,		229.71,	1878.40,	0.00)	DC		
3005	HIGH	1ST HIGH VALUE	IS	190.90171	ON 09090402:	AT (	400046.00,
3779169.00,		229.71,	1878.40,	0.00)	DC		

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

♀ *** AERMOD - VERSION 16216r *** *** 3200 E. Foothill Boulevard Mixed-Use
 Project *** 03/30/18
 *** AERMET - VERSION 14134 *** *** Health Risk Assessment 3.30.18
 *** 08:23:51

PAGE 112

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** 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 756 Informational Message(s)

A Total of 43800 Hours Were Processed

A Total of 4 Calm Hours Identified
 Page 83

3200 E. FOOTHILL BOULEVARD_AERMOD.out

A Total of 752 Missing Hours Identified (1.72 Percent)

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

***** WARNING MESSAGES *****
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at:
09010101
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at:
1 year gap

*** AERMOD Finishes Successfully ***

HARP Health Risk Summary by Receptor

HARP ID	ID	GE ID	Easting	Northing	Base Elev (m)	Floor Elev (m)	Percent Cancer Risk DPM	30-Year Cancer	9-Year Cancer	Chronic	Acute
101	SR1001	SR1	399868	3779295	221.27	222.77	70.9%	2.53E-05	1.80E-05	0.01	0.01
102	SR1002	SR1	399868	3779295	221.27	225.77	70.9%	2.40E-05	1.71E-05	0.01	0.01
103	SR1003	SR1	399868	3779295	221.27	228.77	70.9%	2.21E-05	1.57E-05	0.01	0.01
104	SR1004	SR1	399868	3779295	221.27	231.77	70.9%	1.98E-05	1.41E-05	0.01	0.01
105	SR1005	SR2	399867	3779234	220.1	221.6	70.9%	2.22E-05	1.58E-05	0.01	0.01
106	SR1006	SR2	399867	3779234	220.1	224.6	70.9%	2.08E-05	1.48E-05	0.01	0.01
107	SR1007	SR2	399867	3779234	220.1	227.6	70.9%	1.92E-05	1.36E-05	0.01	0.01
108	SR1008	SR2	399867	3779234	220.1	230.6	70.9%	1.72E-05	1.22E-05	0.01	0.01
109	SR1009	SR2	399867	3779234	220.1	233.6	70.9%	1.54E-05	1.09E-05	0.01	0.01
110	SR1010	SR3	400046	3779169	219.21	220.71	70.8%	1.18E-05	8.41E-06	0.01	0.00
111	SR1011	SR3	400046	3779169	219.21	223.71	70.8%	1.05E-05	7.47E-06	0.01	0.01
112	SR1012	SR3	400046	3779169	219.21	226.71	70.8%	9.30E-06	6.61E-06	0.01	0.01
113	SR1013	SR3	400046	3779169	219.21	229.71	70.8%	8.29E-06	5.89E-06	0.00	0.01
114	SR1014	SR3	400046	3779169	219.21	232.71	70.8%	7.44E-06	5.28E-06	0.00	0.01
115	SR1015	SR4	400071	3779286	220.76	222.26	70.9%	1.82E-05	1.29E-05	0.01	0.01
116	SR1016	SR4	400071	3779286	220.76	225.26	70.9%	1.72E-05	1.22E-05	0.01	0.01
117	SR1017	SR4	400071	3779286	220.76	228.26	70.9%	1.59E-05	1.13E-05	0.01	0.01
118	SR1018	SR4	400071	3779286	220.76	231.26	70.9%	1.45E-05	1.03E-05	0.01	0.01
119	SR1019	SR4	400071	3779286	220.76	234.26	70.9%	1.32E-05	9.40E-06	0.01	0.01
MAX:							70.9%	2.53E-05	1.8E-05	0.01	0.01

113	SENSITIV	SR3	400046	3779169	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	4.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-03	0.00E+00	0.00E+00	4.54E-03
114	SENSITIV	SR3	400046	3779169	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	4.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-03	0.00E+00	0.00E+00	4.07E-03
115	SENSITIV	SR4	400071	3779286	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03	9.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-03	0.00E+00	0.00E+00	9.91E-03
116	SENSITIV	SR4	400071	3779286	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	9.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-03	0.00E+00	0.00E+00	9.39E-03
117	SENSITIV	SR4	400071	3779286	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03	8.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-03	0.00E+00	0.00E+00	8.68E-03
118	SENSITIV	SR4	400071	3779286	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	7.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-03	0.00E+00	0.00E+00	7.92E-03
119	SENSITIV	SR4	400071	3779286	NonCancerChronicDerived_InhSoilDermMMilk	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03	7.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-03	0.00E+00	0.00E+00	7.21E-03

*HARP - HRACalc v17023 3/30/2018 8:32:35 AM - Acute Risk - Input File: C:\Users\lsarquilla\Desktop\HARP2 Models\3200 E. FOOTHILL BOULEVARD_3.29.18\hra\30yearResidentialHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	CARTGRID	C1001	399846	3779136	NonCancerAcute	0.00E+00	0.00E+00	2.65E-03	0.00E+00	0.00E+00	2.68E-03	1.68E-03	0.00E+00	2.79E-03	0.00E+00	0.00E+00	2.65E-03	0.00E+00	0.00E+00	2.79E-03
2	CARTGRID	C1001	399876	3779136	NonCancerAcute	0.00E+00	0.00E+00	2.50E-03	0.00E+00	0.00E+00	2.53E-03	1.58E-03	0.00E+00	2.65E-03	0.00E+00	0.00E+00	2.50E-03	0.00E+00	0.00E+00	2.65E-03
3	CARTGRID	C1001	399906	3779136	NonCancerAcute	0.00E+00	0.00E+00	2.33E-03	0.00E+00	0.00E+00	2.35E-03	1.47E-03	0.00E+00	2.47E-03	0.00E+00	0.00E+00	2.33E-03	0.00E+00	0.00E+00	2.47E-03
4	CARTGRID	C1001	399936	3779136	NonCancerAcute	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	2.30E-03	1.44E-03	0.00E+00	2.43E-03	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	2.43E-03
5	CARTGRID	C1001	399966	3779136	NonCancerAcute	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	2.37E-03	1.48E-03	0.00E+00	2.55E-03	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	2.55E-03
6	CARTGRID	C1001	399996	3779136	NonCancerAcute	0.00E+00	0.00E+00	2.46E-03	0.00E+00	0.00E+00	2.48E-03	1.56E-03	0.00E+00	2.60E-03	0.00E+00	0.00E+00	2.46E-03	0.00E+00	0.00E+00	2.60E-03
7	CARTGRID	C1001	400026	3779136	NonCancerAcute	0.00E+00	0.00E+00	2.60E-03	0.00E+00	0.00E+00	2.62E-03	1.65E-03	0.00E+00	2.76E-03	0.00E+00	0.00E+00	2.60E-03	0.00E+00	0.00E+00	2.76E-03
8	CARTGRID	C1001	400056	3779136	NonCancerAcute	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	2.89E-03	1.81E-03	0.00E+00	3.05E-03	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	3.05E-03
9	CARTGRID	C1001	400086	3779136	NonCancerAcute	0.00E+00	0.00E+00	4.51E-03	0.00E+00	0.00E+00	4.55E-03	2.85E-03	0.00E+00	4.80E-03	0.00E+00	0.00E+00	4.51E-03	0.00E+00	0.00E+00	4.80E-03
10	CARTGRID	C1001	400116	3779136	NonCancerAcute	0.00E+00	0.00E+00	3.21E-03	0.00E+00	0.00E+00	3.23E-03	2.03E-03	0.00E+00	3.40E-03	0.00E+00	0.00E+00	3.21E-03	0.00E+00	0.00E+00	3.40E-03
11	CARTGRID	C1001	399846	3779161	NonCancerAcute	0.00E+00	0.00E+00	2.86E-03	0.00E+00	0.00E+00	2.89E-03	1.81E-03	0.00E+00	3.00E-03	0.00E+00	0.00E+00	2.86E-03	0.00E+00	0.00E+00	3.00E-03
12	CARTGRID	C1001	399876	3779161	NonCancerAcute	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	2.66E-03	1.67E-03	0.00E+00	2.78E-03	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	2.78E-03
13	CARTGRID	C1001	399906	3779161	NonCancerAcute	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	2.55E-03	1.60E-03	0.00E+00	2.68E-03	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	2.68E-03
14	CARTGRID	C1001	399936	3779161	NonCancerAcute	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	2.51E-03	1.57E-03	0.00E+00	2.65E-03	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	2.65E-03
15	CARTGRID	C1001	399966	3779161	NonCancerAcute	0.00E+00	0.00E+00	2.52E-03	0.00E+00	0.00E+00	2.54E-03	1.60E-03	0.00E+00	2.72E-03	0.00E+00	0.00E+00	2.52E-03	0.00E+00	0.00E+00	2.72E-03
16	CARTGRID	C1001	399996	3779161	NonCancerAcute	0.00E+00	0.00E+00	2.51E-03	0.00E+00	0.00E+00	2.54E-03	1.59E-03	0.00E+00	2.65E-03	0.00E+00	0.00E+00	2.51E-03	0.00E+00	0.00E+00	2.65E-03
17	CARTGRID	C1001	400026	3779161	NonCancerAcute	0.00E+00	0.00E+00	2.59E-03	0.00E+00	0.00E+00	2.62E-03	1.64E-03	0.00E+00	2.74E-03	0.00E+00	0.00E+00	2.59E-03	0.00E+00	0.00E+00	2.74E-03
18	CARTGRID	C1001	400056	3779161	NonCancerAcute	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00	2.82E-03	1.77E-03	0.00E+00	2.97E-03	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00	2.97E-03
19	CARTGRID	C1001	400086	3779161	NonCancerAcute	0.00E+00	0.00E+00	4.39E-03	0.00E+00	0.00E+00	4.43E-03	2.78E-03	0.00E+00	4.77E-03	0.00E+00	0.00E+00	4.39E-03	0.00E+00	0.00E+00	4.77E-03
20	CARTGRID	C1001	400116	3779161	NonCancerAcute	0.00E+00	0.00E+00	4.59E-03	0.00E+00	0.00E+00	4.63E-03	2.90E-03	0.00E+00	4.84E-03	0.00E+00	0.00E+00	4.59E-03	0.00E+00	0.00E+00	4.84E-03
21	CARTGRID	C1001	399846	3779186	NonCancerAcute	0.00E+00	0.00E+00	3.11E-03	0.00E+00	0.00E+00	3.14E-03	1.97E-03	0.00E+00	3.26E-03	0.00E+00	0.00E+00	3.11E-03	0.00E+00	0.00E+00	3.26E-03
22	CARTGRID	C1001	399876	3779186	NonCancerAcute	0.00E+00	0.00E+00	2.84E-03	0.00E+00	0.00E+00	2.87E-03	1.80E-03	0.00E+00	2.99E-03	0.00E+00	0.00E+00	2.84E-03	0.00E+00	0.00E+00	2.99E-03
23	CARTGRID	C1001	399906	3779186	NonCancerAcute	0.00E+00	0.00E+00	2.69E-03	0.00E+00	0.00E+00	2.72E-03	1.70E-03	0.00E+00	2.84E-03	0.00E+00	0.00E+00	2.69E-03	0.00E+00	0.00E+00	2.84E-03
24	CARTGRID	C1001	399936	3779186	NonCancerAcute	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	2.64E-03	1.66E-03	0.00E+00	2.78E-03	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	2.78E-03
25	CARTGRID	C1001	399966	3779186	NonCancerAcute	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	2.61E-03	1.63E-03	0.00E+00	2.77E-03	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	2.77E-03
26	CARTGRID	C1001	399996	3779186	NonCancerAcute	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	2.60E-03	1.63E-03	0.00E+00	2.80E-03	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	2.80E-03
27	CARTGRID	C1001	400026	3779186	NonCancerAcute	0.00E+00	0.00E+00	2.69E-03	0.00E+00	0.00E+00	2.71E-03	1.70E-03	0.00E+00	2.94E-03	0.00E+00	0.00E+00	2.69E-03	0.00E+00	0.00E+00	2.94E-03
28	CARTGRID	C1001	400056	3779186	NonCancerAcute	0.00E+00	0.00E+00	4.38E-03	0.00E+00	0.00E+00	4.42E-03	2.77E-03	0.00E+00	4.70E-03	0.00E+00	0.00E+00	4.38E-03	0.00E+00	0.00E+00	4.70E-03
29	CARTGRID	C1001	400086	3779186	NonCancerAcute	0.00E+00	0.00E+00	4.23E-03	0.00E+00	0.00E+00	4.27E-03	2.67E-03	0.00E+00	4.55E-03	0.00E+00	0.00E+00	4.23E-03	0.00E+00	0.00E+00	4.55E-03
30	CARTGRID	C1001	400116	3779186	NonCancerAcute	0.00E+00	0.00E+00	5.46E-03	0.00E+00	0.00E+00	5.51E-03	3.45E-03	0.00E+00	5.83E-03	0.00E+00	0.00E+00	5.46E-03	0.00E+00	0.00E+00	5.83E-03
31	CARTGRID	C1001	399846	3779211	NonCancerAcute	0.00E+00	0.00E+00	4.56E-03	0.00E+00	0.00E+00	4.60E-03	2.88E-03	0.00E+00	4.76E-03	0.00E+00	0.00E+00	4.56E-03	0.00E+00	0.00E+00	4.76E-03
32	CARTGRID	C1001	399876	3779211	NonCancerAcute	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	3.13E-03	1.96E-03	0.00E+00	3.26E-03	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	3.26E-03
33	CARTGRID	C1001	399906	3779211	NonCancerAcute	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	2.81E-03	1.76E-03	0.00E+00	2.93E-03	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	2.93E-03
34	CARTGRID	C1001	399936	3779211	NonCancerAcute	0.00E+00	0.00E+00	2.66E-03	0.00E+00	0.00E+00	2.68E-03	1.68E-03	0.00E+00	2.81E-03	0.00E+00	0.00E+00	2.66E-03	0.00E+00	0.00E+00	2.81E-03
35	CARTGRID	C1001	399966	3779211	NonCancerAcute	0.00E+00	0.00E+00	2.60E-03	0.00E+00	0.00E+00	2.63E-03	1.64E-03	0.00E+00	2.77E-03	0.00E+00	0.00E+00	2.60E-03	0.00E+00	0.00E+00	2.77E-03
36	CARTGRID	C1001	399996	3779211	NonCancerAcute	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	2.66E-03	1.67E-03	0.00E+00	2.82E-03	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	2.82E-03
37	CARTGRID	C1001	400026	3779211	NonCancerAcute	0.00E+00	0.00E+00	4.26E-03	0.00E+00	0.00E+00	4.30E-03	2.69E-03	0.00E+00	4.53E-03	0.00E+00	0.00E+00	4.26E-03	0.00E+00	0.00E+00	4.53E-03
38	CARTGRID	C1001	400056	3779211	NonCancerAcute	0.00E+00	0.00E+00	4.14E-03	0.00E+00	0.00E+00	4.17E-03	2.61E-03	0.00E+00	4.40E-03	0.00E+00	0.00E+00	4.14E-03	0.00E+00	0.00E+00	4.40E-03
39	CARTGRID	C1001	400086	3779211	NonCancerAcute	0.00E+00	0.00E+00	4.02E-03	0.00E+00	0.00E+00	4.06E-03	2.54E-03	0.00E+00	4.29E-03	0.00E+00	0.00E+00	4.02E-03	0.00E+00	0.00E+00	4.29E-03
40	CARTGRID	C1001	400116	3779211	NonCancerAcute	0.00E+00	0.00E+00	5.21E-03	0.00E+00	0.00E+00	5.26E-03	3.29E-03	0.00E+00	5.52E-03	0.00E+00	0.00E+00	5.21E-03	0.00E+00	0.00E+00	5.52E-03
41	CARTGRID	C1001	399846	3779236	NonCancerAcute	0.00E+00	0.00E+00	4.66E-03	0.00E+00	0.00E+00	4.70E-03	2.94E-03	0.00E+00	4.86E-03	0.00E+00	0.00E+00	4.66E-03	0.00E+00	0.00E+00	4.86E-03
42	CARTGRID	C1001	399876	3779236	NonCancerAcute	0.00E+00	0.00E+00	4.37E-03	0.00E+00	0.00E+00	4.41E-03	2.75E-03	0.00E+00	4.56E-03	0.00E+00	0.00E+00	4.37E-03	0.00E+00	0.00E+00	4.56E-03
43	CARTGRID	C1001	399906	3779236	NonCancerAcute	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	3.10E-03	1.94E-03	0.00E+00	3.23E-03	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	3.23E-03
44	CARTGRID	C1001	399936	3779236	NonCancerAcute	0.00E+00	0.00E+00	2.92E-03	0.00E+00	0.00E+00	2.95E-03	1.85E-03	0.00E+00	3.08E-03	0.00E+00	0.00E+00	2.92E-03	0.00E+00	0.00E+00	3.08E-03
45	CARTGRID	C1001	399966	3779236	NonCancerAcute	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	2.81E-03	1.76E-03	0.00E+00	2.95E-03	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	2.95E-03
46	CARTGRID	C1001	399996	3779236	NonCancerAcute	0.00E+00	0.00E+00	3.87E-03	0.00E+00	0.00E+00	3.90E-03	2.44E-03	0.00E+00	4.08E-03	0.00E+00	0.00E+00	3.87E-03	0.00E+00	0.00E+00	4.08E-03
47	CARTGRID	C1001	400026	3779236	NonCancerAcute	0.00E+00	0.00E+00	3.87E-03	0.00E+00	0.00E+00	3.90E-03	2.44E-03	0.00E+00	4.10E-03	0.00E+00	0.00E+00	3.87E-03	0.00E+00	0.00E+00	4.10E-03
48	CARTGRID	C1001</																		

99	CARTGRID	C1001	400086	3779361	NonCancerAcute	0.00E+00	0.00E+00	3.65E-03	0.00E+00	0.00E+00	3.68E-03	2.30E-03	0.00E+00	3.82E-03	0.00E+00	0.00E+00	3.65E-03	0.00E+00	0.00E+00	3.82E-03
100	CARTGRID	C1001	400116	3779361	NonCancerAcute	0.00E+00	0.00E+00	3.53E-03	0.00E+00	0.00E+00	3.56E-03	2.23E-03	0.00E+00	3.69E-03	0.00E+00	0.00E+00	3.53E-03	0.00E+00	0.00E+00	3.69E-03
101	SENSITIV	SR1	399868	3779295	NonCancerAcute	0.00E+00	0.00E+00	7.22E-03	0.00E+00	0.00E+00	7.28E-03	4.55E-03	0.00E+00	7.54E-03	0.00E+00	0.00E+00	7.22E-03	0.00E+00	0.00E+00	7.54E-03
102	SENSITIV	SR1	399868	3779295	NonCancerAcute	0.00E+00	0.00E+00	8.24E-03	0.00E+00	0.00E+00	8.31E-03	5.20E-03	0.00E+00	8.62E-03	0.00E+00	0.00E+00	8.24E-03	0.00E+00	0.00E+00	8.62E-03
103	SENSITIV	SR1	399868	3779295	NonCancerAcute	0.00E+00	0.00E+00	9.18E-03	0.00E+00	0.00E+00	9.26E-03	5.79E-03	0.00E+00	9.60E-03	0.00E+00	0.00E+00	9.18E-03	0.00E+00	0.00E+00	9.60E-03
104	SENSITIV	SR1	399868	3779295	NonCancerAcute	0.00E+00	0.00E+00	9.83E-03	0.00E+00	0.00E+00	9.92E-03	6.20E-03	0.00E+00	1.03E-02	0.00E+00	0.00E+00	9.83E-03	0.00E+00	0.00E+00	1.03E-02
105	SENSITIV	SR2	399867	3779234	NonCancerAcute	0.00E+00	0.00E+00	5.48E-03	0.00E+00	0.00E+00	5.53E-03	3.46E-03	0.00E+00	5.74E-03	0.00E+00	0.00E+00	5.48E-03	0.00E+00	0.00E+00	5.74E-03
106	SENSITIV	SR2	399867	3779234	NonCancerAcute	0.00E+00	0.00E+00	6.50E-03	0.00E+00	0.00E+00	6.56E-03	4.10E-03	0.00E+00	6.82E-03	0.00E+00	0.00E+00	6.50E-03	0.00E+00	0.00E+00	6.82E-03
107	SENSITIV	SR2	399867	3779234	NonCancerAcute	0.00E+00	0.00E+00	7.64E-03	0.00E+00	0.00E+00	7.71E-03	4.82E-03	0.00E+00	8.02E-03	0.00E+00	0.00E+00	7.64E-03	0.00E+00	0.00E+00	8.02E-03
108	SENSITIV	SR2	399867	3779234	NonCancerAcute	0.00E+00	0.00E+00	8.35E-03	0.00E+00	0.00E+00	8.43E-03	5.27E-03	0.00E+00	8.76E-03	0.00E+00	0.00E+00	8.35E-03	0.00E+00	0.00E+00	8.76E-03
109	SENSITIV	SR2	399867	3779234	NonCancerAcute	0.00E+00	0.00E+00	8.75E-03	0.00E+00	0.00E+00	8.83E-03	5.52E-03	0.00E+00	9.18E-03	0.00E+00	0.00E+00	8.75E-03	0.00E+00	0.00E+00	9.18E-03
110	SENSITIV	SR3	400046	3779169	NonCancerAcute	0.00E+00	0.00E+00	4.32E-03	0.00E+00	0.00E+00	4.36E-03	2.74E-03	0.00E+00	4.57E-03	0.00E+00	0.00E+00	4.32E-03	0.00E+00	0.00E+00	4.57E-03
111	SENSITIV	SR3	400046	3779169	NonCancerAcute	0.00E+00	0.00E+00	4.97E-03	0.00E+00	0.00E+00	5.02E-03	3.15E-03	0.00E+00	5.27E-03	0.00E+00	0.00E+00	4.97E-03	0.00E+00	0.00E+00	5.27E-03
112	SENSITIV	SR3	400046	3779169	NonCancerAcute	0.00E+00	0.00E+00	5.76E-03	0.00E+00	0.00E+00	5.81E-03	3.64E-03	0.00E+00	6.08E-03	0.00E+00	0.00E+00	5.76E-03	0.00E+00	0.00E+00	6.08E-03
113	SENSITIV	SR3	400046	3779169	NonCancerAcute	0.00E+00	0.00E+00	6.35E-03	0.00E+00	0.00E+00	6.41E-03	4.02E-03	0.00E+00	6.70E-03	0.00E+00	0.00E+00	6.35E-03	0.00E+00	0.00E+00	6.70E-03
114	SENSITIV	SR3	400046	3779169	NonCancerAcute	0.00E+00	0.00E+00	6.75E-03	0.00E+00	0.00E+00	6.81E-03	4.27E-03	0.00E+00	7.10E-03	0.00E+00	0.00E+00	6.75E-03	0.00E+00	0.00E+00	7.10E-03
115	SENSITIV	SR4	400071	3779286	NonCancerAcute	0.00E+00	0.00E+00	6.32E-03	0.00E+00	0.00E+00	6.38E-03	3.99E-03	0.00E+00	6.65E-03	0.00E+00	0.00E+00	6.32E-03	0.00E+00	0.00E+00	6.65E-03
116	SENSITIV	SR4	400071	3779286	NonCancerAcute	0.00E+00	0.00E+00	7.38E-03	0.00E+00	0.00E+00	7.44E-03	4.66E-03	0.00E+00	7.77E-03	0.00E+00	0.00E+00	7.38E-03	0.00E+00	0.00E+00	7.77E-03
117	SENSITIV	SR4	400071	3779286	NonCancerAcute	0.00E+00	0.00E+00	8.22E-03	0.00E+00	0.00E+00	8.29E-03	5.19E-03	0.00E+00	8.64E-03	0.00E+00	0.00E+00	8.22E-03	0.00E+00	0.00E+00	8.64E-03
118	SENSITIV	SR4	400071	3779286	NonCancerAcute	0.00E+00	0.00E+00	8.87E-03	0.00E+00	0.00E+00	8.95E-03	5.60E-03	0.00E+00	9.32E-03	0.00E+00	0.00E+00	8.87E-03	0.00E+00	0.00E+00	9.32E-03
119	SENSITIV	SR4	400071	3779286	NonCancerAcute	0.00E+00	0.00E+00	9.13E-03	0.00E+00	0.00E+00	9.21E-03	5.76E-03	0.00E+00	9.59E-03	0.00E+00	0.00E+00	9.13E-03	0.00E+00	0.00E+00	9.59E-03

Minimum Efficiency Reporting Values (MERV) as defined by the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Standard 52.2.

Standard 52.2 Minimum Efficiency Reporting Value (MERV)	Composite Average Particle Size Efficiency, % in Size Range, μm		
	Range 1 0.30 to 1.0	Range 2 1.0 to 3.0	Range 3 3.0 to 10.0
1	N/A	N/A	$E_3 < 20$
2	N/A	N/A	$E_3 < 20$
3	N/A	N/A	$E_3 < 20$
4	N/A	N/A	$E_3 < 20$
5	N/A	N/A	$20 \leq E_3$
6	N/A	N/A	$35 \leq E_3$
7	N/A	N/A	$50 \leq E_3$
8	N/A	$20 \leq E_2$	$70 \leq E_3$
9	N/A	$35 \leq E_2$	$75 \leq E_3$
10	N/A	$50 \leq E_2$	$80 \leq E_3$
11	$20 \leq E_1$	$65 \leq E_2$	$85 \leq E_3$
12	$35 \leq E_1$	$80 \leq E_2$	$90 \leq E_3$
13	$50 \leq E_1$	$85 \leq E_2$	$90 \leq E_3$
14	$75 \leq E_1$	$90 \leq E_2$	$95 \leq E_3$
15	$85 \leq E_1$	$90 \leq E_2$	$95 \leq E_3$
16	$95 \leq E_1$	$95 \leq E_2$	$95 \leq E_3$