

Appendix FEIR-4

Construction and Operational Health Risk Assessment

HEALTH RISK ASSESSMENT

1111 Sunset Project

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1.0 Executive Summary

1.1 Findings

This report provides an analysis of potential health risk impacts related to the proposed construction and operation of the 1111 Sunset Project (Project) in the City of Los Angeles, California. The analysis identified the baseline condition around the Project and evaluated the incremental change in health risk concentration exposure from diesel exhaust/diesel particulate matter (DPM) emitted by heavy-duty construction equipment during construction and limited heavy-duty delivery trucks during operation¹ of the Project. The findings of the analysis are as follows:

- For carcinogenic exposures (construction and operational emissions), the increase in risk is calculated to be 7.7 in one million, which is less than the applicable threshold of 10 in one million for sensitive receptors in close proximity to the Project Site, resulting in a less than significant impact.
- For chronic non-carcinogenic exposures (construction and operational emissions), the increase in the respiratory hazard index was estimated to be less than the applicable threshold of one for sensitive receptors in close proximity to the Project Site, resulting in a less than significant impact.

¹ The Project would not support any land uses or activities that would involve the use, storage, or processing of carcinogenic toxic air contaminants. In addition, the proposed land uses would not generally involve the use of heavy-duty diesel trucks with the exception of occasional moving trucks, trash trucks or delivery trucks.

2.0 Introduction

The Project is a mixed-use development, considered under two development scenarios, that contains residential dwelling units, hotel uses, office space and general commercial uses. To be clear, this is not the type of project (under either development scenario) that the regulatory agencies, or the applicable regulatory laws require to produce a Health Risk Assessment (HRA) for adequate disclosure of potential air quality impacts pursuant to the California Environmental Quality Act (CEQA).

The California Air Pollution Control Officers Association (CAPCOA) Guidance Document for Health Risk Assessments for Proposed Land Use Projects (2009) (CAPCOA HRA Guidance) provides lead agencies with guidance regarding when and how an HRA should be prepared. It bases the risk assessment methodology on the procedures developed by the California Office of Environmental Health Hazard Assessment (OEHHA) to meet the mandates of the Air Toxics "Hot Spots" Information and Assessment Act (AB 2588). The CAPCOA HRA Guidance states that

"[t]here are basically two types of land use projects that have the potential to cause long-term public health risk impacts: Type A – land use projects with toxic emissions that impact receptors; and Type B land use projects that will place receptors in the vicinity of existing toxic sources. Type A project examples are combustion related power plants, gasoline dispensing facilities, asphalt batch plants, warehouse distribution centers, quarry operations, and other stationary sources that emit toxic substances. Type B project examples are project that place receptors near stationary sources, high traffic roads, freeways, rail yards, and ports."

Note that the Project does not qualify as either a Type A or Type B project. Therefore, per the CAPCOA HRA Guidance in effect when the Draft EIR for the Project was prepared, the lead agency did not include an HRA in the Draft EIR. Accordingly, this HRA was done voluntarily for informational purposes only to supplement the administrative record and respond to comments, and further demonstrates that even if an HRA was necessary (which it was not) the Project would not have a significant air quality impact.

The OEHHA adopted the Air Toxics Hot Spots Program Guidance Manual for the Preparation of Risk Assessments (2003 Guidance Manual) in October of 2003. The Guidance Manual was developed by OEHHA, in conjunction with the California Air Resources Board (CARB), for use in implementing the Air Toxics "Hot Spots" Program (Health and Safety Code Section 44360 et. seq.). The Air Toxics "Hot Spots" Program

requires stationary sources to report the types and quantities of certain substances routinely released into the air. The goals of the Air Toxics “Hot Spots” Program are to collect emission data, to identify facilities having localized impacts, to ascertain health risks, to notify nearby residents of significant risks, and to reduce those significant risks to acceptable levels.

OEHHA adopted a new version of the Air Toxics Hot Spots Program Guidance Manual for the Preparation of Risk Assessments (2015 Guidance Manual) in March of 2015.² CARB acknowledges that the Guidance Manual does not include guidance for projects prepared under the auspices of CEQA and that it would be “handled by individual [Air Pollution Control] Districts.”³ As noted by CARB,

“The Air Toxics “Hot Spots” Information and Assessment Act (AB 2588, 1987, Connelly) was enacted in September 1987. Under this, stationary sources are required to report the types and quantities of certain substances their facilities routinely release into the air. Emissions of interest are those that result from the routine operation of a facility or that are predictable, including but not limited to continuous and intermittent releases and process upsets or leaks...

The Act requires that toxic air emissions from stationary sources (facilities) be quantified and compiled into an inventory according to criteria and guidelines developed by the ARB, that each facility be prioritized to determine whether a risk assessment must be conducted, that the risk assessments be conducted according to methods developed by OEHHA...”⁴

As reported above, applicability is associated with commercial and industrial operations. There are two broad classes of facilities subject to the AB 2588 Program: Core facilities and facilities identified within discrete industry-wide source categories. Core facilities subject to AB 2588 compliance are sources whose criteria pollutant emissions (particulate matter, oxides of sulfur, oxides of nitrogen, and volatile organic compounds)

² Office of Environmental Health Hazard Assessment, *Air Toxicology and Epidemiology, Adoption of Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. March 6, 2015, www.oehha.ca.gov/air/hot_spots/hotspots2015.html.

³ CARB, *Risk Management Guidance for Stationary Sources of Air Toxics*, July 23, 2015, p. 19, www.arb.ca.gov/toxics/rma/rmgssat.pdf.

⁴ CARB, *Overview of the Air Toxics “Hot Spots” Information and Assessment Act* <https://ww2.arb.ca.gov/overview-air-toxics-hot-spots-information-and-assessment-act>, accessed October 13, 2021.

are 25 tons per year or more as well as those facilities whose criteria pollutant emissions are 10 tons per year or more but less than 25 tons per year. Industry-wide source facilities are classified as smaller operations with relatively similar emission profiles (e.g., auto body shops, gas stations and dry cleaners using perchloroethylene). It is apparent that the emissions generated from the construction and subsequent occupancy of a mixed-use development project are not classified as core operations nor subject to industry-wide source evaluation.

The intent in developing the 2015 Guidance Manual was to provide HRA procedures for use in the Air Toxics Hot Spots Program or for the permitting of new or modified stationary sources. As noted above, the Project is not a new or modified stationary source that requires air quality permits to construct or operate. Air districts are to determine which facilities will prepare an HRA based on a prioritization process. The 2015 Guidance Manual provides recommendations related to cancer risk evaluation of short-term projects. As discussed in Section 8.2.10 of the 2015 Guidance Manual, “[t]he local air pollution control districts sometimes use the risk assessment guidelines for the Hot Spots program in permitting decisions for short-term projects such as construction or waste site remediation.” Thus, to be conservative, this HRA was prepared in part to analyze potential construction impacts, even though short-term projects that would require a permitting decision by South Coast Air Quality Management District (SCAQMD) typically would be limited to site remediation (e.g., stationary soil vapor extractors) and would not be applicable to the Project. The 2015 Guidance Manual does not provide specific recommendations for evaluation of short-term use of mobile sources (e.g., heavy-duty diesel construction equipment). In addition, potential operational impacts, despite the fact that no considered stationary source is part of the Project’s land uses, were assessed for informational purposes given the limited use of heavy-duty trucks associated with occasional moving trucks, trash trucks and delivery trucks.

OEHHA’s 2015 Guidance Manual provides Age Sensitivity Factors (ASFs) to account for potential increased sensitivity of early-in-life exposure to carcinogens. For risk assessments conducted under the auspices of AB 2588, a weighting factor is applied to all carcinogens regardless of purported mechanism of action. In comments presented to the SCAQMD Governing Board (Meeting Date: June 5, 2015, Agenda No. 28) relating to toxic air contaminant exposures under Rules 1401 (New Source Review of Toxic Air Contaminants), use of the 2015 OEHHA guidelines and their applicability for projects subject to CEQA, as they relate to the incorporation of early-life exposure adjustments, it was reported that:

The Proposed Amended Rules are separate from the CEQA significance thresholds. The Response to Comments Staff Report PAR 1401, 1401.1, 1402, and 212 A - 8 June 2015 SCAQMD staff is currently evaluating how to implement the Revised OEHHA

Guidelines under CEQA. The SCAQMD staff will evaluate a variety of options on how to evaluate health risks under the Revised OEHHA Guidelines under CEQA. The SCAQMD staff will conduct public workshops to gather input before bringing recommendations to the Governing Board.

The SCAQMD, as a commenting agency, has not conducted public workshops nor developed policy relating to the applicability of applying the 2015 OEHHA guidance for projects prepared by other public/lead agencies subject to CEQA.

To emphasize variability in methodology for conducting HRAs, regulatory agencies throughout the State of California including the Department of Toxic Substances Control (DTSC) which is charged with protecting individuals and the environment from the effects of toxic substances and responsible for assessing, investigating and evaluating sensitive receptor populations to ensure that properties are free of contamination or that health protective remediation levels are achieved have adopted the U.S. Environmental Protection Agency's (USEPA's) policy in the application of early-life exposure adjustments.

Specifically, USEPA guidance relating to the use of early life exposure adjustments (*Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens, EPA/630/R-003F*) are considered when carcinogens act "through the mutagenic mode of action." As reported:

The Agency considered both the advantages and disadvantages of extending the recommended, age dependent adjustment factors for carcinogenic potency to carcinogenic agents for which the mode of action remains unknown. EPA recommends these factors only for carcinogens acting through a mutagenic mode of action based on a combination of analysis of available data and long-standing science policy positions that set out the Agency's overall approach to carcinogen risk assessment, e.g., the use of a linear, no threshold extrapolation procedure in the absence of data in order to be health protective. In general, the Agency prefers to rely on analyses of data rather than on general defaults. When data are available for a susceptible lifestage, they should be used directly to evaluate risks for that chemical and that lifestage on a case-by-case basis. In the case of nonmutagenic carcinogens, when the mode of action is unknown, the data were judged by EPA to be too limited and the modes of action too diverse to use this as a category for which a general default adjustment factor approach can be applied. In this situation per the Agency's *Guidelines for Carcinogen Risk Assessment*, a linear low-dose extrapolation methodology is

recommended. It is the Agency's long-standing science policy position that use of the linear low-dose extrapolation approach (without further adjustment) provides adequate public health conservatism in the absence of chemical-specific data indicating differential early-life susceptibility or when the mode of action is not mutagenicity.

In 2006, the USEPA published a memorandum which provides guidance regarding the preparation of health risk assessments should carcinogenic compounds elicit a mutagenic mode of action.⁵ As presented in the technical memorandum, numerous compounds were identified as having a mutagenic mode of action. For diesel particulates, polycyclic aromatic hydrocarbons (PAHs) and their derivatives, which are known to exhibit a mutagenic mode of action, comprise less than one percent of the exhaust particulate mass. To date, the USEPA reports that whole diesel engine exhaust has not been shown to elicit a mutagenic mode of action.⁶

Based on a review of relevant guidance on the applicability of the use of early life exposure adjustments to identified carcinogens, the use of these factors would not be applicable to this HRA as neither the Lead Agency nor SCAQMD have developed recommendations on whether these factors should be used for CEQA analyses of potential DPM construction or operational impacts. For this assessment, the HRA relied upon USEPA guidance relating to the use of early life exposure adjustment factors (Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens, EPA/630/R-003F) whereby adjustment factors are only considered when carcinogens act "through the mutagenic mode of action." Therefore, early life exposure adjustments were not considered in this HRA.

In addition, the *L.A. City CEQA Thresholds Guide* (Thresholds Guide) states that "impacts from toxic air contaminants can occur during either the construction or operational phases of a project. During certain construction activities, potential releases of toxic air contaminants could occur during site remediation activities or during building demolition. Toxic air contaminants may also be released during industrial or manufacturing processes, or other activities that involve the use, storage, processing, or disposal of toxic materials."⁷

⁵ *United States Environmental Protection Agency, 2006. Memorandum - Implementation of the Cancer Guidelines and Accompanying Supplemental Guidance - Science Policy Council Cancer Guidelines Implementation Workgroup Communication II: Performing Risk Assessments that include Carcinogens Described in the Supplemental Guidance as having a Mutagenic Mode of Action.*

⁶ *United States Environmental Protection Agency, National Center for Environmental Assessment, 2018. Integrated Risk Information System (IRIS). Diesel Engine Exhaust.*

⁷ *City of Los Angeles, CEQA Thresholds Guide, 2006, p. B.3-2.*

Importantly, note that, the Thresholds Guide does not specifically recommend an HRA for short-term DPM emissions from construction activities or for operational activities when land uses are not “industrial or manufacturing processes, or other activities that involve the use, storage, processing, or disposal of toxic materials.” The Thresholds Guide also sets forth the following factors for consideration on a case-by-case basis in making a determination of significance with regard to toxic air contaminants: the regulatory framework for the toxic material(s) and process(es) involved; the proximity of the toxic air contaminants to sensitive receptors; the quantity, volume, and toxicity of the contaminants expected to be emitted; the likelihood and potential level of exposure; and the degree to which project design will reduce the risk of exposure. Based on this information, the methodology utilized in the Draft EIR remains consistent with City of Los Angeles guidance, which indicates that preparation of an HRA was not required for the Project.

Also, CARB published and adopted the *Air Quality and Land Use Handbook: A Community Health Perspective*, which provides recommendations regarding the siting of new sensitive land uses near potential sources of air toxic emissions (e.g., freeways, distribution centers, rail yards, ports, refineries, chrome plating facilities, dry cleaners, and gasoline dispensing facilities).⁸ SCAQMD adopted similar recommendations in its *Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning*.⁹ Together, the CARB and SCAQMD guidelines recommend siting distances for both the development of sensitive land uses in proximity to Toxic Air Contaminates (TAC) sources and the addition of new TAC sources in proximity to existing sensitive land uses. When considering potential air quality impacts under CEQA, consideration is given to the location of sensitive receptors within close proximity of land uses that emit TACs. Both CARB and SCAQMD guidelines recommend conducting an HRA when siting new sensitive land uses (e.g., residential uses) within 500 feet of a freeway. Applied here, the Project does not site new sensitive land uses near existing sources of air toxic emissions since the Project Site is more than 500 feet from the US-101 and I-110 freeways. However, the Project Site is within an area subject to Los Angeles’ ZI File No. 2427, which addresses the siting of sensitive land uses within 1,000 feet of freeways.¹⁰ The advisory does not require that a Project conduct an HRA, but does require project features (e.g., requiring all new mechanically ventilated buildings located within 1,000 feet of the freeway to install air filtration media that provides a Minimum Efficiency Reporting Value (MERV) of 13 (Ordinance 184245) to be implemented to reduce air pollution exposure and associated health risks.

⁸ CARB, *Air Quality and Land Use Handbook, a Community Health Perspective*, April 2005.

⁹ SCAQMD, *Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning*, May 6, 2005.

¹⁰ ZI 2427, *Freeway Adjacent Advisory Notice for Sensitive Uses*, addresses air pollution caused by freeway proximity.

The primary sources of potential air toxics associated with Project operations include DPM from delivery trucks (e.g., truck traffic on local streets and idling on adjacent streets associated with occasional moving trucks, trash trucks and delivery trucks). However, these activities, and the land uses associated with the Project, are not considered land uses that generate substantial TAC emissions based on review of the air toxic sources listed in SCAQMD's and CARB's guidelines. It should be noted that the SCAQMD recommends that HRAs be conducted for substantial individual sources of DPM (e.g., truck stops and warehouse distribution facilities that generate more than 100 trucks per day or more than 40 trucks with operating transport refrigeration units) and has provided guidance for analyzing mobile source diesel emissions.¹¹ Based on this guidance, the Project is not considered these types of land uses and is not considered to be a substantial source of operational DPM warranting a refined HRA since daily truck trips to the Project Site would not exceed 100 trucks per day or more than 40 trucks with operating transport refrigeration units. In addition, the CARB-mandated ATCM limits diesel-fueled commercial vehicles (delivery trucks) to idle for no more than 5 minutes at any given time, which would further limit diesel particulate emissions.

Although a construction and operational HRA is not required for the reasons discussed above, for informational purposes only, this HRA has been prepared to provide a good faith and reasoned response to public comments and to provide the City with additional substantial evidence that demonstrates that the Project would not create a significant health risk impact.

¹¹ SCAQMD, *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*, 2003.

3.0 Health Risk Assessment

3.1 Project Description

The Project is a new mixed-use development proposed on a 272,918-square-foot (6.27-acre) site comprised of a 262,437-square-foot lot located at 1111–1115 Sunset Boulevard and a 10,481-square-foot portion of Beaudry Avenue and Sunset Boulevard adjacent to the 1111–1115 Sunset Boulevard lot.

The Project proposes two development scenarios—the Mixed Use Development Scenario and the No-Hotel Development Scenario. Under the Mixed Use Development Scenario, up to 737 residential units, up to 180 hotel rooms, up to 48,000 square feet of office space, and up to 95,000 square feet of general commercial floor area are proposed. Under the No-Hotel Development Scenario, a maximum of up to 827 residential units would be constructed along with up to 48,000 square feet of office space, and up to 95,000 square feet of general commercial floor area. The additional residential units (under the No-Hotel Development Scenario) would be located in the Sunset Buildings and would replace the 180 hotel rooms proposed by the Mixed Use Development Scenario.

Regardless of the removal of the hotel, the Project design would remain as proposed. Specifically, the total floor area, building heights, massing, and footprint would be the same under both development scenarios. In addition, construction activities including depth of excavation, overall amount of grading, and the types of equipment to be used would be the same under both development scenarios. The following analysis accounts for both development scenarios and the term “Project” is used unless stated otherwise.

Certain activities would emit DPM from heavy-duty trucks and heavy-duty equipment used during construction and to a lesser extent heavy-duty trucks accessing the Project Site during operation of the Project associated with occasional moving trucks, trash trucks and delivery trucks. CARB and OEHHA have classified DPM as a carcinogen. Existing adjacent uses consist of residential uses (Elysian Apartments) located north of the site. Additional residential uses are located across Beaudry Avenue, Alpine Street and White Knoll Drive.

3.2 The Assessment Process

The risk assessment process provided in OEHHA's 2003 Guidance Manual consists of four basic steps: (1) hazard identification; (2) exposure assessment; (3) dose-response assessment; and (4) risk characterization.¹² In the first step, hazard identification involves determining the potential health effect which may be associated with emitted pollutants. The purpose is to identify qualitatively whether a pollutant is a potential human carcinogen or is associated with other types of adverse health effects. Depending on the chemical, these health effects may include short-term ailments or chronic diseases. The dose-response assessment is designed to characterize the relationship between the amount or dose of a chemical and its toxicological effect on the human body. Responses to toxic chemicals will vary depending on the amount and length of exposure. For example, short-term exposure to low concentrations of chemicals may produce no noticeable effect, but continued exposure to the same levels of chemicals over a long period of time may eventually cause harm. The purpose of the exposure assessment is to estimate the extent of exposure to each substance for which risk will be evaluated. This involves emission quantification, modeling of environmental transport, identification of chemicals of concern, identification of exposure routes, identification of exposed populations, and estimation of long-term exposure levels. Risk characterization is an integration of the health effects and public exposure information developed for emitted pollutants to provide a quantitative probability of adverse health effects.

3.3 Source Identification and Characterization

3.3.1 Source Identification

As indicated above, the primary source of potential air toxics associated with the Project is DPM from heavy-duty trucks and heavy-duty construction equipment used during construction and to a lesser extent heavy-duty trucks accessing the Project Site during operation of the Project associated with occasional moving trucks, trash trucks and delivery trucks. The SCAQMD recommends that an HRA be conducted for substantial sources of long-term DPM operational sources (e.g., truck stops and warehouse distribution facilities) and has provided guidance for analyzing mobile source diesel emissions.¹³ While Project

¹² Office of Environmental Health Hazard Assessment, *The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*, August 2003, Page 1-6.

¹³ SCAQMD, *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Emissions*, August 2003.

construction and operation would not represent a long-term source of DPM emissions¹⁴, the SCAQMD Guidance was used for purposes of modeling parameters and assumptions.

3.3.2 Source Characterization

Construction

As described in detail in Section II, Project Description, of the Draft EIR, Project construction would commence with demolition of the existing uses, followed by grading and excavation for the subterranean parking garages. Building foundations would then be placed, followed by building construction, paving/concrete installation, and landscape installation. Project construction is anticipated to occur over approximately 44 months. It is estimated that approximately 472,000 cubic yards (cy) of soil would be hauled from the Project Site during the grading and excavation phase.

Total DPM emissions over the duration of Project construction were calculated using the SCAQMD recommended California Emissions Estimator Model (CalEEMod) and consistent with the methodology for calculating criteria pollutant emissions provided in Section IV.A, Air Quality, of the Draft EIR. The calculations of the emissions generated during Project construction activities reflect the types and quantities of construction equipment and haul trucks that would be used to complete the proposed construction activities. As the assumptions used in the air quality analysis were developed to characterize a worst-case peak day of construction by phase, equipment usage assumptions were modified to reflect average daily use.

CalEEMod calculates annual emissions based on worst-case conditions occurring on a daily basis. This scenario would not represent real world conditions as construction activities and equipment would not be expected to operate at 100 percent on an average daily basis. Construction surveys prepared for CARB have documented that on a typical construction site, daily average equipment hours range from 2 to 7.5 hours depending on the type of equipment.¹⁵ Therefore, an adjustment was taken into account which assumes that annual average emissions would conservatively represent 80 percent of a worst-case day.

As an example, the heavy-duty construction equipment mix provided in the air quality analysis for the foundation phase reflects all equipment needed for the largest

¹⁴ *Project construction is short term—44 months. Moreover, the Project is residential, hotel, commercial, and office uses, none of which are associated with significant heavy-duty truck use or significant DPM emissions.*

¹⁵ *California Air Resources Board, Characterization of the Off-Road Equipment Population, December 2008.*

concrete pour day. Thus, average daily DPM emissions from building foundation would be substantially less since maximum pour days would not occur every day during that phase.

The Project is expected to be completed by 2028. However, for purposes of conservatively analyzing construction impacts and to ensure that potential overlap of construction phases is accounted for, it was assumed that the Project would start construction in 2021. In addition, the schedule could be compressed and be completed in 44 months with overlapping construction phases. Based on SCAQMD factors, the construction equipment and truck fleet mix will emit less pollution in future years due to more stringent emissions control regulations. As construction activities for the Project are evaluated based on an earlier start date, the emissions presented are more conservative. If certain construction phases were to take place at later dates avoiding overlap, Project construction would be complete by 2028.

The calculation of DPM emissions was based on the 1111 Sunset Construction Annual CalEEMod output file provided in Appendix C, Air Quality and Greenhouse Gas Emissions, of the Draft EIR. It was assumed that all on-site (e.g., off-road equipment) equipment would be diesel and, therefore, on-site exhaust PM₁₀ emissions were included in this HRA as DPM. The CalEEMod output file is provided in Appendix A of this HRA.

Operation

As discussed above, the Project proposes two development scenarios—the Mixed Use Development Scenario and the No-Hotel Development Scenario. While both development scenarios generate limited truck trips, it was determined that the Mixed-Use Development Scenario would generate the greater number of truck trips of the two scenarios. Therefore, the operational analysis focuses on the Mixed-Use Development Scenario as operational impacts under the No-Hotel Development Scenario would be less.

A conservative estimate of the number of daily truck trips is provided below based on the National Cooperative Highway Research Program Truck Trip Generation Data.¹⁶

- Table D-2c of the NCHRP data (Trip Generation Summary—Daily Commercial Vehicle Trips per 1,000 sf of Building Space for Retail (includes restaurants)) provides an average of 0.324 truck trips per 1,000 sf or approximately 30.8 truck trips per day for the Project's commercial floor area. This assumes that all trucks would be diesel even though many retail/restaurant truck deliveries are from smaller gasoline or alternative energy source trucks (e.g., UPS or FedEx).

¹⁶ National Cooperative Highway Research Program (NCHRP) *Synthesis 298 Truck Trip Generation Data*, 2001

- Table D-2e of the NCHRP data (Trip Generation Summary—Daily Commercial Vehicle Trips per 1,000 sf of Building Space for Other Land Uses (includes housing)) provides an individual rate of 0.011 truck trips per 1,000 sf or approximately 8.5 truck trips per day for the Project's residential uses. It is conservatively assumed that all of these delivery trucks would be heavy-duty diesel trucks even though many residential truck deliveries are from smaller gasoline or alternative energy source trucks (e.g., UPS or FedEx).
- Table D-2d of the NCHRP data (Trip Generation Summary—Daily Commercial Vehicle Trips per 1,000 sf of Building Space for Office and Services (includes hotel)) provides an average of 0.039 truck trips per 1,000 sf or approximately 5.2 truck trips per day for the Project's office and hotel uses. It is conservatively assumed that all of these delivery trucks would be heavy-duty diesel trucks even though many residential truck deliveries are from smaller gasoline or alternative energy source trucks (e.g., UPS or FedEx).

Accordingly, the Project is conservatively estimated to generate approximately 45 trucks per day during operation of which three trucks associated with restaurant/retail land uses were assumed to include transportation refrigeration units (TRUs) or 10 percent of the 30.8 total trucks associated with restaurant/retail land uses.

Emissions from TRUs were estimated using the CARB Draft 2019 Emissions Inventory for Transportation Refrigeration Units.¹⁷ Emissions from delivery trucks travelling to and from the Project Site as well as idling were estimated using the CARB EMFAC2021 model.¹⁸ Trucks travelling to/from the loading docks generate emissions through truck engine idling, TRU operation and travelling.

Importantly, note that, with respect to truck emissions associated with the operation of projects, the SCAQMD recommends that HRAs be conducted for substantial sources of DPM for developments that include truck stops and warehouse distribution facilities that generate more than 100 trucks per day or more than 40 trucks with operating TRUs. In other words, SCAQMD has identified an amount of truck trips per day that could warrant conducting an HRA to analyze emissions and health risks. Projects with truck trips below the aforementioned amounts should not be considered a substantial source of DPM and HRAs are neither recommended nor required by the applicable regulatory documents. As set forth above, operational truck use is well below both of these benchmarks.

¹⁷ California Air Resources Board. *Draft 2019 Update to Emissions Inventory for Transportation Refrigeration Units*. October 2019.

¹⁸ Airborne Toxic Control Measure is set forth in title 13, CCR, section 2485 and requires that drivers of diesel-fueled commercial motor vehicles with gross vehicle weight ratings greater than 10,000 pound not idle the vehicle's primary diesel engine longer than five minutes at any location. 5-minute idle time applies to all heavy-duty truck – construction as well as operational trucks.

Specifically, the Project is not considered to be a substantial source of operational DPM warranting an HRA because there are only 45 daily truck trips to the Project Site (of which 3 are assumed to be TRUs), which is far below the either more-than-100-trucks-per-day or more-than-40-TRU-trucks-per-day that indicate when a project could be considered a substantial DPM source. Nonetheless, operational health risks from use of operational delivery trucks for the Project was evaluated for informational purposes and included in this HRA.

Note also that, based on SCAQMD guidance, there is no quantitative analysis required for future cancer risk within the vicinity of the Project because it is consistent with the recommendations regarding the siting of new sensitive land uses near potential sources of TAC emissions provided in the SCAQMD Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning.

3.3.3 Baseline and Identification of Chemicals of Concern

The Draft EIR identified the baseline of conditions around the Project Site and the ambient levels of TACs. The SCAQMD released the fourth round of its Basin-wide Multiple Air Toxics Exposure Study (MATES IV – Final Report) in May 2015.¹⁸ MATES IV estimated the cancer risk from TAC emissions throughout the Basin by conducting a monitoring program, an updated emissions inventory of TACs, and a modeling effort to characterize health risks in the air basin. As part of MATES IV, the SCAQMD prepared an interactive map that shows estimates of cancer risks in the Basin from ambient levels of TACs based on the modeling effort to provide insight into relative risks. The map reports estimated cancer risks for discrete two-kilometer-by-two-kilometer grid cells. The cancer risk estimates reported there should not be interpreted as actual rates of disease in the exposed population, but rather as estimates of potential risk, based on a number of conservative assumptions. In general, MATES IV indicates that the highest cancer risks from TACs are found near shipping ports, goods movement sources, and near freeways and other transportation corridors. MATES IV identifies that the Project Site falls in an estimated range of 1,830 cancer risks per one million. A figure in Appendix E to this HRA shows the MATES IV Total Cancer Risk around Project Site. Compared to previous studies of air toxics in the Basin, the MATES IV study found decreasing air toxics exposure from the analysis done in the MATES III time period.

This HRA identifies the baseline condition and also identifies the actual additional risks due to certain emissions associated with the Project. Note that, as discussed above, the CAPCOA regulatory guidance adopted at the time the Draft EIR was prepared indicates that HRAs should assess Type A (toxic emissions) and Type B (placing receptors near existing toxic sources) projects with within the CEQA context. This HRA presents the

incremental health risks analysis even though the Project does not squarely qualify as either a Type A or Type B project. Accordingly, this voluntary HRA analysis is informational, and further informs the public and decision makers, but is not required pursuant to the laws in effect when the Draft EIR was prepared. Nonetheless, this HRA quantitatively evaluated DPM as a chemical of concern for potential health effects in two categories, carcinogenic and non-carcinogenic.

3.4 Exposure Quantification

Consistent with SCAQMD's Localized Significance Threshold Methodology (LST Guidelines), this HRA used USEPA's Regulatory Model AERMOD to assess the downwind extent of DPM concentrations from proposed construction and operational activities.¹⁹ AERMOD accounts for a variety of refined, site-specific conditions that facilitate an accurate assessment of Project impacts. AERMOD's air dispersion algorithms are based upon a planetary boundary layer turbulence structure and scaling concepts, including the treatment of surface and elevated sources in simple and complex terrain.

Exhaust emissions from construction and operational equipment were treated as a set of side-by-side elevated volume sources. The release height was assumed to be 12 feet. This represents the mid-range of the expected plume rise from frequently used construction equipment and operational heavy-duty trucks during daytime atmospheric conditions. All construction exhaust emissions were assumed to take place over a 44-month (3.7 year) duration on weekdays between 7 A.M. to 3 P.M. (8-hour period). Operational exhaust emissions were assumed to take place 6-days per week between 7 A.M. to 3 P.M. (8-hour period) and included 15 minutes of idle time to account for ingress, egress, and travel on-site.²⁰

Air dispersion models require additional input parameters including local meteorology and receptors. Due to the sensitivity to individual meteorological parameters such as wind speed and direction, the USEPA recommends that meteorological data used as input into dispersion models be selected on the basis of relative spatial and temporal conditions that exist in the area of concern. In response to this recommendation, meteorological data from the SCAQMD Downtown Los Angeles monitoring station (Source Receptor Area 1) were used to represent local weather conditions and prevailing winds.

¹⁹ SCAQMD, *Final-Localized Significance Threshold Methodology*, 2008.

²⁰ SCAQMD, *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*, 2003, www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis.

Cartesian receptor grids were used to represent adjacent and nearby sensitive land uses. The Cartesian receptor grids were placed at each sensitive use with a built in 10 meter spacing for the adjacent school and nearby residential uses. All receptors were placed at ground level, which is recommended by SCAQMD for AERMOD modeling. Elevations for both sources and receptors were provided by the U.S. Geological Survey (USGS) and included using the AERMOD terrain processor AERMAP.

DPM modeled concentrations were used to calculate cancer risk and chronic hazard index at each relevant receptor. A graphical representation of the source-receptor grid network is presented in Appendix C.

3.5 Risk Characterization

3.5.1 Carcinogenic Chemical Risk

Health risks associated with exposure to carcinogenic compounds at sensitive land uses in close proximity to the Project can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF). The URF is a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It represents an upper bound estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ($\mu\text{g}/\text{m}^3$) over a 70-year lifetime. The SCAQMD recommends a threshold of ten in one million cancer risk for evaluating carcinogenic impacts at sensitive receptors.²¹

The equation used to calculate the potential excess cancer risk is:

$$\text{Risk}_i = C_i \times \text{CP}_i \times \text{DBR} \times \text{EVF}$$

Where:

Risk_i = Lifetime Excess Cancer Risk from exposure to chemical_i
 C_i = Representative Air Concentration for chemical_i ($\mu\text{g}/\text{m}^3$)
 CP_i = Cancer Potency_i ($\text{mg}/\text{kg}\cdot\text{day}$)⁻¹
 DBR = Daily Breathing Rate (L/kg body weight-day)
 EVF = Exposure Value Factor (unitless)

²¹ South Coast Air Quality Management District Air Quality Significance Thresholds. www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2.

An estimate of an individual's incremental excess cancer risk from exposure to Project construction and operational DPM emissions is calculated by summing the chemical-specific excess cancer risks. In addition, cancer risk is evaluated based on the duration on which a sensitive receptor is exposed to DPM (exposure duration). Based on OEHHA guidelines, it is recommended that cancer risk analyses assume an exposure duration of 70-years for residential receptors.²² The exposure duration takes into account the construction duration of 44 months during construction, and operational emissions occurring each year.

3.5.2 Non-Carcinogenic Chemical Risk

The potential for chronic non-carcinogenic health effects is evaluated by calculating the total hazard index (HI) for the Project construction and operational DPM emissions. This HI represents the sum of the hazard quotients (HQs) developed for each individual project-related chemical, where a HQ is the ratio of the representative air concentration of the chemical to the chemical specific non-cancer Reference Exposure Level (REL). The non-cancer RELs represent the daily average exposure concentration at (or below) which no adverse health effects are anticipated.

The equations used to calculate the chemical-specific HQs and HIs are:

$$\begin{aligned} HQ_i &= C_i / REL_i \\ HI &= \sum HQ_i \end{aligned}$$

Where:

$$\begin{aligned} HQ_i &= \text{Hazard Quotient for chemical}_i \\ C_i &= \text{Average Daily Air Concentration for chemical}_i \text{ (}\mu\text{g/m}^3\text{)} \\ REL_i &= \text{Noncancer Reference Exposure Level for chemical}_i \text{ (}\mu\text{g/m}^3\text{)} \\ HI &= \text{Hazard Index} \end{aligned}$$

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.²³ 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. The acute hazard index was not quantified since an inhalation REL has not been determined by the OEHHA for DPM at the time of preparation of this HRA or the Draft EIR.

²² *Air Toxics Hot Spots Program Risk Assessment Guidelines. Office of Environmental Health and Hazard Assessment. August 2003*

²³ *South Coast Air Quality Management District Air Quality Significance Thresholds. www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2.*

3.6 Conclusions

The results from the health risk calculations provide an estimate of the potential risks and hazards to individuals through inhalation of Project construction DPM emissions over a 44-month duration. Consistent with OEHHA guidelines, health risk impacts from Project operational DPM emissions were assessed over a 70-year exposure duration for residential receptors. The estimated risks and hazards include: lifetime excess cancer risk estimates, and cumulative chronic HI estimates for the receptor locations of concern.

As shown in Appendix B and in Table 1 on page 19, the results of the HRA yields a maximum off-site individual cancer risk of 7.7 in a million for residential uses located northeast of the Project site, across Alpine Street (for combined construction and operational emissions)²⁴. The maximum chronic risk of 0.06 occurs within this same residential receptor area. As the Project (construction and operational emissions, separate and cumulative) would not emit carcinogenic or toxic air contaminants that result in impacts which exceed the maximum individual cancer risk of ten in one million or the chronic index of 1.0, Project-related toxic emission impacts would be less than significant.

²⁴ As combined emissions (construction and operations) are below significance thresholds, individual emissions (i.e., construction separate from operational emission) are necessarily below the significance thresholds and the thresholds are the same as between the two.

Table 1
Health Risk Assessment (Combined Construction and Operational Emissions)

Risk	Significance Threshold	Calculated Risk	Significant Impact
Cancer Risk (Resident)	10 in 1 Million	7.7E-06 which denotes excess cases of cancer of 7.7 in one million	No
Non-Carcinogenic Risk (Maximum)	Chronic Index (HI) of 1.0	6.0E-02 which denotes an HI of 0.06	No

4.0 Uncertainty Assessment

Evaluating carcinogenic pollutant concentrations based on OEHHA methodology and SCAQMD Guidance has an implied uncertainty. These methodologies were developed to provide a conservative health risk estimate. The conservative nature of this methodology relies on a number of inputs designed to prevent an underestimation of risk. The following discusses the conservative nature of the risk assessment analysis assumptions utilized in this analysis.

The cancer risk from DPM occurs mainly through inhalation. Output from the dispersion analysis was used to estimate the DPM concentrations. The cancer risk estimate is then calculated based on those estimated DPM concentrations using the risk methodology promulgated by OEHHA. The risk assessment guidelines established by SCAQMD and included in the analysis are designed to produce conservative (high) estimates of the risk posed by DPM, due to the following factors:

- As a conservative measure, the SCAQMD does not recognize indoor adjustments for residential uses. However, studies have shown that the typical person spends approximately 87 percent of their time indoors, 5 percent of their time outdoors, and 7 percent of their time in vehicles. A DPM exposure assessment showed that an average indoor concentration was 2.0 $\mu\text{g}/\text{m}^3$, compared with an outdoor concentration of 3.0 $\mu\text{g}/\text{m}^3$.²⁵
- OEHHA has a toxicity database that lists TACs and their URFs. A URF describes the cancer potency of a particular TAC and is used to estimate cancer risk.⁴ Most of these URFs are extrapolated from animal studies based on continuous exposure to particular toxin. This method can have some significant uncertainties. For example, a chemical that is carcinogenic by one route of exposure is considered to be carcinogenic for all routes of exposure at its maximum potency. Also, it is not realistic for a receptor to be exposed to a continuous concentration of TACs over time. In reality, receptors are exposed to constantly changing concentration levels that would expose receptors to lower levels of TACs over time than analyzed in this analysis.
- The use of the SCAQMD meteorological data set and conservative exposure assumptions (e.g., assumes receptor would be located outside in the same location 24 hours per day for the entire construction duration) amongst others, likely also lead to overestimated risks.

²⁵ South Coast Air Quality Management District (SCAQMD), *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Emissions*, 2002.

As such, uncertainty in the health risk analysis is conservative in nature and is designed to prevent undisclosed impacts to human health. Concentrations reported in this report represent a conservative scenario that is likely an over estimation of actual pollutant concentrations.

Appendix A

Emissions Calculations

1111 Sunset - Construction Health Risk Assessment

Diesel Particulate Matter Emissions

CalEEMod Outputs - Onsite

Phase No.	Phase	Year	Mitigation	Exhaust PM10 (tons/year)
1	Utility Work and Demolition	2021	Tier 4	0.00186
2	Demolition and Excavation	2021	Tier 4	0.00632
3	Grading and Excavation	2021	Tier 4	0.00158
4	Concrete and Grading/Excavation	2021	Tier 4	0.00428
5	Concrete and Mat Foundation	2021	Tier 4	0.00144
6	Building Construction (Phase 0 and 1/2)	2021	Unmitigated	0.0548
6	Building Construction (Phase 0 and 1/2)	2022	Unmitigated	0.2637
7	Building Construction (Phase 1/2)	2022	Unmitigated	0.0735
7	Building Construction (Phase 1/2)	2023	Unmitigated	0.2457
7	Building Construction (Phase 1/2)	2024	Unmitigated	0.0795
8	Paving	2024	Unmitigated	0.0497

Summary of Emissions by Year

Year	Exhaust PM10			Avg Day/Peak	
	tons/yr	lbs/yr	lbs/day ^a	Day Scalar ^b	g/s ^c
2021	0.0703	140.6	0.3851	0.8	0.0049
2022	0.3372	674.4	1.8477	0.8	0.0233
2023	0.2457	491.4	1.3463	0.8	0.0170
2024	0.1292	258.4	0.7079	0.8	0.0089
Total	0.78238				
4-year Average^d		426.8	1.1692	0.8	0.0147

^a Based on 365 days per year

^b CalEEMod annual emissions are based on peak-day activity. Calculations assume that annual emissions would be equivalent to 80% of peak day emissions.

^c Based on 8-hours per day of construction activity

^d Construction would start in early 2021 and end late 2024 for a total of 44 months (4-years)

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Annual Construction Emissions

CalEEMod Version: CalEEMod.2016.3.2

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Date: 5/6/2021 11:44 AM

1111 Sunset Buildout with PDFs (Construction On-Site) - South Coast Air Basin, Annual

1111 Sunset Buildout with PDFs (Construction On-Site)
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	48.00	1000sqft	1.10	48,000.00	0
Enclosed Parking with Elevator	485.00	Space	4.36	194,000.00	0
Unenclosed Parking with Elevator	1,168.00	Space	10.51	467,200.00	0
Health Club	14.50	1000sqft	0.33	14,500.00	0
High Turnover (Sit Down Restaurant)	35.00	1000sqft	0.80	35,000.00	0
Hotel	180.00	Room	6.00	85,000.00	0
Apartments Mid Rise	96.00	Dwelling Unit	2.53	110,336.00	275
Condo/Townhouse High Rise	737.00	Dwelling Unit	11.52	766,982.00	2108
Strip Mall	18.20	1000sqft	0.42	18,200.00	0
Supermarket	27.30	1000sqft	0.63	27,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2028
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	524	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP 2028 Carbon Intensity (SB100 RPS)

Land Use - see assumptions

Construction Phase - see assumptions

Off-road Equipment - Site Specific

Off-road Equipment - see assumptions

Off-road Equipment - see assumptions

Off-road Equipment - see assumptions

Off-road Equipment - see assumptions

Off-road Equipment - see assumptions

Off-road Equipment - see assumptions

Off-road Equipment - see assumptions

Off-road Equipment - see assumptions

Off-road Equipment - see assumptions

Trips and VMT - Soil Export - 25 miles to Irwindale (one-way)

Demolition - 0.5 miles to Catalina Pacific (one-way)

Grading -

Architectural Coating - No Architectural Coatings for Existing Elysian Apartments

Vehicle Trips - see assumptions

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Woodstoves - Existing apartments are assumed to be consistent with default CalEEMod assumptions. New high-rise would not include fireplaces, but would include space heaters.
Energy Use - Adjustment for Parking Structure Energy Usage (See assumptions). Existing Uses usage rate increased by 10 percent as PDF would not apply to these uses.
Water And Wastewater - Existing Uses usage rate increased by 20 percent as PDF would not apply to these uses.

Construction Off-road Equipment Mitigation - Tier 4

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation - City of LA Waste Diversion Rate (2013)

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF - AQMD BACT

[illegible]

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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	740.00	424.00
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tblEnergyUse	LightingElect	1.75	2.33
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tblEnergyUse	T24E	3.92	0.49
tblEnergyUse	T24NG	4,697.18	5,219.09
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00

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Annual Construction Emissions

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tblTripsAndVMT	VendorTripLength	6.90	0.10

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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021						0.3113	0.7749									1,118,919.0
2022						0.3377	0.3459									1,234,366.2
2023						0.2462	0.2545									1,048,218.0
2024						0.1294	0.1334									594,168.9
Maximum						0.3377	0.7749									1,234,366.2

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021						0.0189	0.2057									1,118,917.7
2022						0.0210	0.0292									1,234,364.7
2023						0.0176	0.0259									1,048,216.8

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Annual Construction Emissions

2024						0.0102	0.0142									594.1682
Maximum						0.0210	0.2057									1,234.3647
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	93.39	81.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)				Maximum Mitigated ROG + NOX (tons/quarter)									
			Highest													

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Utility Work and Demolition	Demolition	1/6/2021	3/27/2021	5	60	
2	Demolition and Excavation	Grading	3/28/2021	6/19/2021	6	72	
3	Grading and Excavation	Grading	6/20/2021	7/17/2021	6	24	
4	Concrete and Grading/Excavation	Grading	7/18/2021	9/25/2021	6	60	
5	Concrete and Mat Foundation	Building Construction	9/28/2021	11/15/2021	5	35	
6	Building Construction (Phase 0 and 1/2)	Building Construction	11/16/2021	9/24/2022	5	225	
7	Building Construction (Phase 1/2)	Building Construction	9/28/2022	5/12/2024	5	424	
8	Architectural Coating	Architectural Coating	6/1/2023	5/12/2024	5	248	
9	Paving	Paving	5/13/2024	8/31/2024	5	79	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 14.87

Residential Indoor: 1,776,569; Residential Outdoor: 592,190; Non-Residential Indoor: 342,000; Non-Residential Outdoor: 114,000;

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Utility Work and Demolition	Air Compressors	1	8.00	78	0.48
Utility Work and Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Utility Work and Demolition	Excavators	2	8.00	158	0.38
Utility Work and Demolition	Rough Terrain Forklifts	1	8.00	100	0.40
Utility Work and Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Utility Work and Demolition	Skid Steer Loaders	2	8.00	65	0.37
Utility Work and Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Work and Demolition	Trenchers	2	8.00	78	0.50
Demolition and Excavation	Air Compressors	1	8.00	78	0.48
Demolition and Excavation	Bore/Drill Rigs	3	8.00	221	0.50
Demolition and Excavation	Cement and Mortar Mixers	2	8.00	9	0.56
Demolition and Excavation	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition and Excavation	Excavators	4	8.00	158	0.38
Demolition and Excavation	Generator Sets	1	8.00	84	0.74
Demolition and Excavation	Graders	0	8.00	187	0.41
Demolition and Excavation	Plate Compactors	2	8.00	8	0.43

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Annual Construction Emissions

Demolition and Excavation	Rough Terrain Forklifts	1	8.00	100	0.40
Demolition and Excavation	Rubber Tired Dozers	0	8.00	247	0.40
Demolition and Excavation	Rubber Tired Loaders	4	8.00	203	0.36
Demolition and Excavation	Scrapers	0	8.00	367	0.48
Demolition and Excavation	Skid Steer Loaders	2	8.00	65	0.37
Demolition and Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition and Excavation	Welders	3	8.00	46	0.45
Grading and Excavation	Cement and Mortar Mixers	3	8.00	9	0.56
Grading and Excavation	Concrete/Industrial Saws	2	8.00	81	0.73
Grading and Excavation	Excavators	4	8.00	158	0.38
Grading and Excavation	Generator Sets	1	8.00	84	0.74
Grading and Excavation	Graders	0	8.00	187	0.41
Grading and Excavation	Plate Compactors	2	8.00	8	0.43
Grading and Excavation	Rough Terrain Forklifts	1	8.00	100	0.40
Grading and Excavation	Rubber Tired Dozers	0	8.00	247	0.40
Grading and Excavation	Rubber Tired Loaders	4	8.00	203	0.36
Grading and Excavation	Scrapers	0	8.00	367	0.48
Grading and Excavation	Skid Steer Loaders	2	8.00	65	0.37
Grading and Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading and Excavation	Welders	3	8.00	46	0.45
Concrete and Grading/Excavation	Air Compressors	2	8.00	78	0.48
Concrete and Grading/Excavation	Cement and Mortar Mixers	4	8.00	9	0.56
Concrete and Grading/Excavation	Cranes	1	8.00	231	0.29
Concrete and Grading/Excavation	Excavators	3	8.00	158	0.38
Concrete and Grading/Excavation	Generator Sets	1	8.00	84	0.74
Concrete and Grading/Excavation	Graders	0	8.00	187	0.41
Concrete and Grading/Excavation	Plate Compactors	2	8.00	8	0.43
Concrete and Grading/Excavation	Pumps	3	8.00	84	0.74
Concrete and Grading/Excavation	Rough Terrain Forklifts	1	8.00	100	0.40
Concrete and Grading/Excavation	Rubber Tired Dozers	0	8.00	247	0.40
Concrete and Grading/Excavation	Rubber Tired Loaders	3	8.00	203	0.36
Concrete and Grading/Excavation	Scrapers	0	8.00	367	0.48
Concrete and Grading/Excavation	Skid Steer Loaders	2	8.00	65	0.37
Concrete and Grading/Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Concrete and Grading/Excavation	Welders	3	8.00	46	0.45
Concrete and Mat Foundation	Air Compressors	2	8.00	78	0.48
Concrete and Mat Foundation	Cranes	2	8.00	231	0.29
Concrete and Mat Foundation	Forklifts	2	8.00	89	0.20
Concrete and Mat Foundation	Generator Sets	0	8.00	84	0.74
Concrete and Mat Foundation	Plate Compactors	4	8.00	8	0.43
Concrete and Mat Foundation	Pumps	3	8.00	84	0.74
Concrete and Mat Foundation	Rough Terrain Forklifts	1	8.00	100	0.40
Concrete and Mat Foundation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Concrete and Mat Foundation	Welders	0	8.00	46	0.45
Concrete and Mat Foundation	Welders	2	8.00	46	0.45
Building Construction (Phase 0 and 1/2)	Aerial Lifts	12	8.00	63	0.31
Building Construction (Phase 0 and 1/2)	Air Compressors	8	8.00	78	0.48
Building Construction (Phase 0 and 1/2)	Cranes	2	8.00	231	0.29

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Annual Construction Emissions

Building Construction (Phase 0 and 1/2)	Forklifts	7	8.00	89	0.20
Building Construction (Phase 0 and 1/2)	Generator Sets	0	8.00	84	0.74
Building Construction (Phase 0 and 1/2)	Pumps	3	8.00	84	0.74
Building Construction (Phase 0 and 1/2)	Rough Terrain Forklifts	2	8.00	100	0.40
Building Construction (Phase 0 and 1/2)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction (Phase 0 and 1/2)	Welders	0	8.00	46	0.45
Building Construction (Phase 0 and 1/2)	Welders	3	8.00	46	0.45
Building Construction (Phase 1/2)	Aerial Lifts	10	8.00	63	0.31
Building Construction (Phase 1/2)	Air Compressors	6	8.00	78	0.48
Building Construction (Phase 1/2)	Cement and Mortar Mixers	4	8.00	9	0.56
Building Construction (Phase 1/2)	Cranes	2	8.00	231	0.29
Building Construction (Phase 1/2)	Forklifts	5	8.00	89	0.20
Building Construction (Phase 1/2)	Generator Sets	0	8.00	84	0.74
Building Construction (Phase 1/2)	Pumps	2	8.00	84	0.74
Building Construction (Phase 1/2)	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction (Phase 1/2)	Skid Steer Loaders	2	8.00	65	0.37
Building Construction (Phase 1/2)	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction (Phase 1/2)	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	0	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Cranes	1	8.00	231	0.29
Paving	Excavators	1	8.00	158	0.38
Paving	Forklifts	2	8.00	89	0.20
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Plate Compactors	2	8.00	8	0.43
Paving	Rollers	0	8.00	80	0.38
Paving	Rough Terrain Forklifts	1	8.00	100	0.40
Paving	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Skid Steer Loaders	2	8.00	65	0.37
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Trenchers	1	8.00	78	0.50
Paving	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Utility Work and Demolition	11	136.00	20.00	1.00	0.10	0.10	876.00	LD_Mix	HDT_Mix	HHDT
Demolition and Excavation	26	206.00	60.00	1.00	0.10	0.10	3,672.00	LD_Mix	HDT_Mix	HHDT
Grading and Excavation	24	200.00	60.00	1.00	0.10	0.10	1,334.40	LD_Mix	HDT_Mix	HHDT
Concrete and Grading	27	256.00	1.00	1.00	0.10	17.00	2,623.00	LD_Mix	HDT_Mix	HHDT
Concrete and Mat Foundation	18	150.00	1.00	0.00	0.10	140.00	20.00	LD_Mix	HHDT	HHDT
Building Construction (Phase 0 and 1/2)	39	550.00	1.00	0.00	0.10	19.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Phase 1/2)	35	550.00	1.00	0.00	0.10	19.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	0.10	0.10	20.00	LD_Mix	HDT_Mix	HHDT
Paving	20	168.00	1.00	0.00	0.10	10.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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Annual Construction Emissions

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Utility Work and Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	0.4272									0.0000
Off-Road						0.0402	0.0402									104.8074
Total						0.0402	0.4674									104.8074

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						2.0000e-005	3.9000e-004									1.3927
Vendor						1.0000e-005	8.0000e-005									3.1336
Worker						3.0000e-005	3.6000e-004									1.0383
Total						6.0000e-005	8.3000e-004									5.5646

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	0.1666									0.0000
Off-Road						1.8600e-003	1.8600e-003									104.8073
Total						1.8600e-003	0.1685									104.8073

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

1111 Sunset
Annual Construction Emissions

Hauling						2.0000e-005	3.9000e-004										1.3927
Vendor						1.0000e-005	8.0000e-005										3.1336
Worker						3.0000e-005	3.6000e-004										1.0383
Total						6.0000e-005	8.3000e-004										5.5646

3.3 Demolition and Excavation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	0.0123									0.0000
Off-Road						0.0833	0.0833									357.6337
Total						0.0833	0.0955									357.6337

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						7.0000e-005	1.6500e-003									6.0239
Vendor						5.0000e-005	3.1000e-004									11.6698
Worker						5.0000e-005	6.8000e-004									1.9524
Total						1.7000e-004	2.6400e-003									19.6460

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	4.7800e-003									0.0000
Off-Road						6.3200e-003	6.3200e-003									357.6333
Total						6.3200e-003	0.0111									357.6333

Mitigated Construction Off-Site

1111 Sunset
Annual Construction Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						7.0000e-005	1.6500e-003									6.0239
Vendor						5.0000e-005	3.1000e-004									11.6698
Worker						5.0000e-005	6.8000e-004									1.9524
Total						1.7000e-004	2.6400e-003									19.6460

3.4 Grading and Excavation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	4.0800e-003									0.0000
Off-Road						0.0252	0.0252									92.1041
Total						0.0252	0.0293									92.1041

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						3.0000e-005	6.0000e-004									2.1921
Vendor						2.0000e-005	1.0000e-004									3.8899
Worker						2.0000e-005	2.2000e-004									0.6318
Total						7.0000e-005	9.2000e-004									6.7139

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	1.5900e-003									0.0000
Off-Road						1.5800e-003	1.5800e-003									92.1039
Total						1.5800e-003	3.1700e-003									92.1039

1111 Sunset
Annual Construction Emissions

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						3.0000e-005	6.0000e-004									2.1921
Vendor						2.0000e-005	1.0000e-004									3.8899
Worker						2.0000e-005	2.2000e-004									0.6318
Total						7.0000e-005	9.2000e-004									6.7139

3.5 Concrete and Grading/Excavation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	0.0104									0.0000
Off-Road						0.0755	0.0755									255.7330
Total						0.0755	0.0858									255.7330

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						5.0000e-005	1.1800e-003									4.3044
Vendor						1.0000e-005	4.8000e-004									1.5725
Worker						5.0000e-005	7.0000e-004									2.0219
Total						1.1000e-004	2.3600e-003									7.8987

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.0000	4.0500e-003									0.0000
Off-Road						4.2800e-003	4.2800e-003									255.7327

1111 Sunset
Annual Construction Emissions

Total						4.2800e-003	8.3300e-003									255.7327
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						5.0000e-005	1.1800e-003									4.3044
Vendor						1.0000e-005	4.8000e-004									1.5725
Worker						5.0000e-005	7.0000e-004									2.0219
Total						1.1000e-004	2.3600e-003									7.8987

3.6 Concrete and Mat Foundation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.0318	0.0318									88.0493
Total						0.0318	0.0318									88.0493

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									0.0000
Vendor						1.0000e-004	2.2000e-003									8.2002
Worker						2.0000e-005	2.4000e-004									0.6911
Total						1.2000e-004	2.4400e-003									8.8913

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

1111 Sunset
Annual Construction Emissions

Off-Road						1.4400e-003	1.4400e-003										88.0492
Total						1.4400e-003	1.4400e-003										88.0492

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									0.0000
Vendor						1.0000e-004	2.2000e-003									8.2002
Worker						2.0000e-005	2.4000e-004									0.6911
Total						1.2000e-004	2.4400e-003									8.8913

3.7 Building Construction (Phase 0 and 1/2) - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.0548	0.0548									168.4299
Total						0.0548	0.0548									168.4299

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									0.0000
Vendor						1.0000e-005	3.0000e-004									0.9857
Worker						6.0000e-005	8.5000e-004									2.4615
Total						7.0000e-005	1.1500e-003									3.4472

Mitigated Construction On-Site

1111 Sunset
Annual Construction Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						2.8600e-003	2.8600e-003									168.4297
Total						2.8600e-003	2.8600e-003									168.4297

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									0.0000
Vendor						1.0000e-005	3.0000e-004									0.9857
Worker						6.0000e-005	8.5000e-004									2.4615
Total						7.0000e-005	1.1500e-003									3.4472

3.7 Building Construction (Phase 0 and 1/2) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.2637	0.2637									941.2467
Total						0.2637	0.2637									941.2467

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									0.0000
Vendor						4.0000e-005	1.6900e-003									5.4589
Worker						3.5000e-004	4.7600e-003									13.2848
Total						3.9000e-004	6.4500e-003									18.7437

1111 Sunset
Annual Construction Emissions

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.0160	0.0160									941.2456
Total						0.0160	0.0160									941.2456

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									0.0000
Vendor						4.0000e-005	1.6900e-003									5.4589
Worker						3.5000e-004	4.7600e-003									13.2848
Total						3.9000e-004	6.4500e-003									18.7437

3.8 Building Construction (Phase 1/2) - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.0735	0.0735									267.6676
Total						0.0735	0.0735									267.6676

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									0.0000
Vendor						2.0000e-005	6.0000e-004									1.9537
Worker						1.2000e-004	1.7000e-003									4.7546

1111 Sunset
Annual Construction Emissions

Total						1.4000e-004	2.3000e-003									6.7083
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						4.4700e-003	4.4700e-003									267.6672
Total						4.4700e-003	4.4700e-003									267.6672

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									0.0000
Vendor						2.0000e-005	6.0000e-004									1.9537
Worker						1.2000e-004	1.7000e-003									4.7546
Total						1.4000e-004	2.3000e-003									6.7083

3.8 Building Construction (Phase 1/2) - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.2457	0.2457									1,023.4333
Total						0.2457	0.2457									1,023.4333

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									0.0000

**1111 Sunset
Annual Construction Emissions**

Vendor						3.0000e-005	2.2800e-003										7.2559
Worker						4.7000e-004	6.5100e-003										17.5288
Total						5.0000e-004	8.7900e-003										24.7847

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.0171	0.0171									1,023.4321
Total						0.0171	0.0171									1,023.4321

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									0.0000
Vendor						3.0000e-005	2.2800e-003									7.2559
Worker						4.7000e-004	6.5100e-003									17.5288
Total						5.0000e-004	8.7900e-003									24.7847

3.8 Building Construction (Phase 1/2) - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.0795	0.0795									373.9441
Total						0.0795	0.0795									373.9441

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
--	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

1111 Sunset
Annual Construction Emissions

Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									0.0000
Vendor						1.0000e-005	8.3000e-004									2.6444
Worker						1.7000e-004	2.3700e-003									6.1843
Total						1.8000e-004	3.2000e-003									8.8287

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						6.2500e-003	6.2500e-003									373.9436
Total						6.2500e-003	6.2500e-003									373.9436

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									0.0000
Vendor						1.0000e-005	8.3000e-004									2.6444
Worker						1.7000e-004	2.3700e-003									6.1843
Total						1.8000e-004	3.2000e-003									8.8287

3.9 Architectural Coating - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

1111 Sunset
Annual Construction Emissions

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

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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

3.9 Architectural Coating - 2024

Unmitigated Construction On-Site

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

1111 Sunset
Annual Construction Emissions

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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

3.10 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						0.0497	0.0497									208.5424

1111 Sunset
Annual Construction Emissions

Paving						0.0000	0.0000										0.0000
Total						0.0497	0.0497										208.5424

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									0.0000
Vendor						0.0000	3.7000e-004									1.2629
Worker						4.0000e-005	6.1000e-004									1.5908
Total						4.0000e-005	9.8000e-004									2.8537

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road						3.7200e-003	3.7200e-003									208.5422
Paving						0.0000	0.0000									0.0000
Total						3.7200e-003	3.7200e-003									208.5422

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling						0.0000	0.0000									0.0000
Vendor						0.0000	3.7000e-004									1.2629
Worker						4.0000e-005	6.1000e-004									1.5908
Total						4.0000e-005	9.8000e-004									2.8537

1111 Sunset - Mixed Use Scenario

Operational HRA - On-site Truck Emissions

Diesel Particulate Emission Factors - T7 Single Truck (EMFAC2014 - Year 2025)

Speed	g/mi	
5	0.0099	Idle emission factor
15	0.0066	On-site travel emission factor. T8 Tractor

Emissions Calculations (Loading Docks)

Land Use	TSF	Truck Trips/TSF	Truck Trips
Multi-Family (737)	776.982	0.011	8.5
Office and Hotel	133	0.039	5.2
Commercial	95	0.324	30.8
Total	1004.982		44.5

National Cooperative Highway Research Program (NCHRP) Synthesis 298 Truck Trip Generation Data, 2001, http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_298.pdf.

Transportation Northwest, Truck Trip Generation by Grocery Stores, Final Report TNW2010-04,

Parameter	Value	
Average Trucks per Day	45	
Days per Year	312	6 days per week
Trucks per Year	14,040	
Idle time per Truck (min)	15	5 minutes x 3 (enter, loading, exit)
Idle time per Truck (hrs)	0.25	
Idle time per year (hrs)	3510	
Idle Emission Factor (g/hr)	0.0099	
Idle emissions per year (g)	34.72	
Annual Idle emission rate (g/s)	3.30E-06	8-hour operation

Transportation Refrigeration Unit (TRU)

Emission Rate (g/hr)	0.455	See TRU Emission Factor Calculation
TRU Operation Time per Truck (hrs)	2	Duration of time at loading dock
Daily Number of Trucks with TRU (%)	3	10 percent of retail
Total Annual TRU Hours	1927	6 days per week operation
Total Annual TRU Emissions (g)	876.7	
Annual TRU Emission Rate (g/s)	8.34E-05	8-hour operation
Total Emission Rate (g/s)	8.67E-05	AERMOD Input - Idle + Travel + TRU

Source: EMFAC2021 (v1.0.1) Emission Rates

Region Type: Air Basin

Region: South Coast

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	PM2.5_RUNEX	PM10_RUNEX
South Coast	2025	T7 Tractor Class 8	Aggregate		5 Diesel	0.009	0.010
South Coast	2025	T7 Tractor Class 8	Aggregate		15 Diesel	0.006	0.007

CARB Draft 2019 TRU Emissions Inventory Output

Scenario	Calendar Year	Equipment Sector	Air Basin	Equipment Type	Horsepower Group	Population	Activity	PM10
Existing ATCM	2025	trailgc	SC	genca	GE23LT25	1,172	1000	0.0043239
Existing ATCM	2025	trailgc	SC	genca	GE25	338	1000	0.00039807
Existing ATCM	2025	trailgc	SC	genca	LT23	0	1000	0
Existing ATCM	2025	trailgc	SC	genoos	GE23LT25	4,642	1000	0.00271897
Existing ATCM	2025	trailgc	SC	genoos	GE25	1,362	1000	0.00028182
Existing ATCM	2025	trailgc	SC	genoos	LT23	0	1000	0
Existing ATCM	2025	trailgc	SC	truca	GE23LT25	4,482	2201	0.04742413
Existing ATCM	2025	trailgc	SC	truca	GE25	7,742	2201	0.04959497
Existing ATCM	2025	trailgc	SC	truoos	GE23LT25	36,323	2201	0.06181155
Existing ATCM	2025	trailgc	SC	truoos	GE25	12,094	2201	0.01375641
Existing ATCM	2025	truck	SC	truca	LT23	2,575	1360	0.01823815
Existing ATCM	2025	truck	SC	truoos	LT23	26	1360	2.1511E-05

Total TRU Hours (Annual) 144,521,535

Total PM10 Emissions (tons/year) 72.48

All TRUs in South Coast Air Basin

Total tons per day x 365

Emission Rate (tons/hour) 5.02E-07

Emission Rate (lbs/hr) 0.0010

Emission Rate (g/hr) **0.45**

Units

All population is one TRU unit

All activity is in hours per year of run time

All emissions are in standard tons per day

All fuel consumption is gallons per year

Source: <https://ww3.arb.ca.gov/msei/ordiesel/draft2019truei.pdf>

Appendix B

Carcinogenic and Non-Carcinogenic Risk Calculations

1111 Sunset - Health Risk Assessment

Cancer Risk Calculations

Diesel Particulate Matter Emission Rate Calculation / Scaler

	Year -->	2021-2024	2025-2091
Average Annual Emission Rate (g/s) ^a		0.015	8.7E-05
Scaler Concentration (ug/m3) ^b		20.42	34.38
Diesel Particulate Concentration (ug/m3)		0.301	0.003

Cancer Risk Calculations - DPM

Parameter	2021-2024	2025-2091	Total
Breathing Rate	393	393	
Exposure Frequency (EF)	350	350	
Exposure Duration (ED) (years)	3.67	66.33	70
AT	25550	25550	
Age Sensitivity Factor (ASF)	1	1	
Fraction of Time at Home (FAH)	1	1	
70-Year (Lifetime) Concentration (ug/m3)	3.01E-01	2.98E-03	
70-Year (Lifetime) Dose (mg/kg-d)	1.13E-04	1.12E-06	
Carcinogen Potency (CPF) (mg/kg-d) ⁻¹			
- Diesel Particulate Matter	1.1	1.1	
Cancer Risk	6.53E-06	1.17E-06	7.70E-06
Risk per Million (DPM)	7.70		

^a Emissions based on a 44-month (4-year) average

^b Scaler concentration based on an AERMOD emission rate of 1 g/s, 8-hours per day

Chronic Risk Calculations - DPM

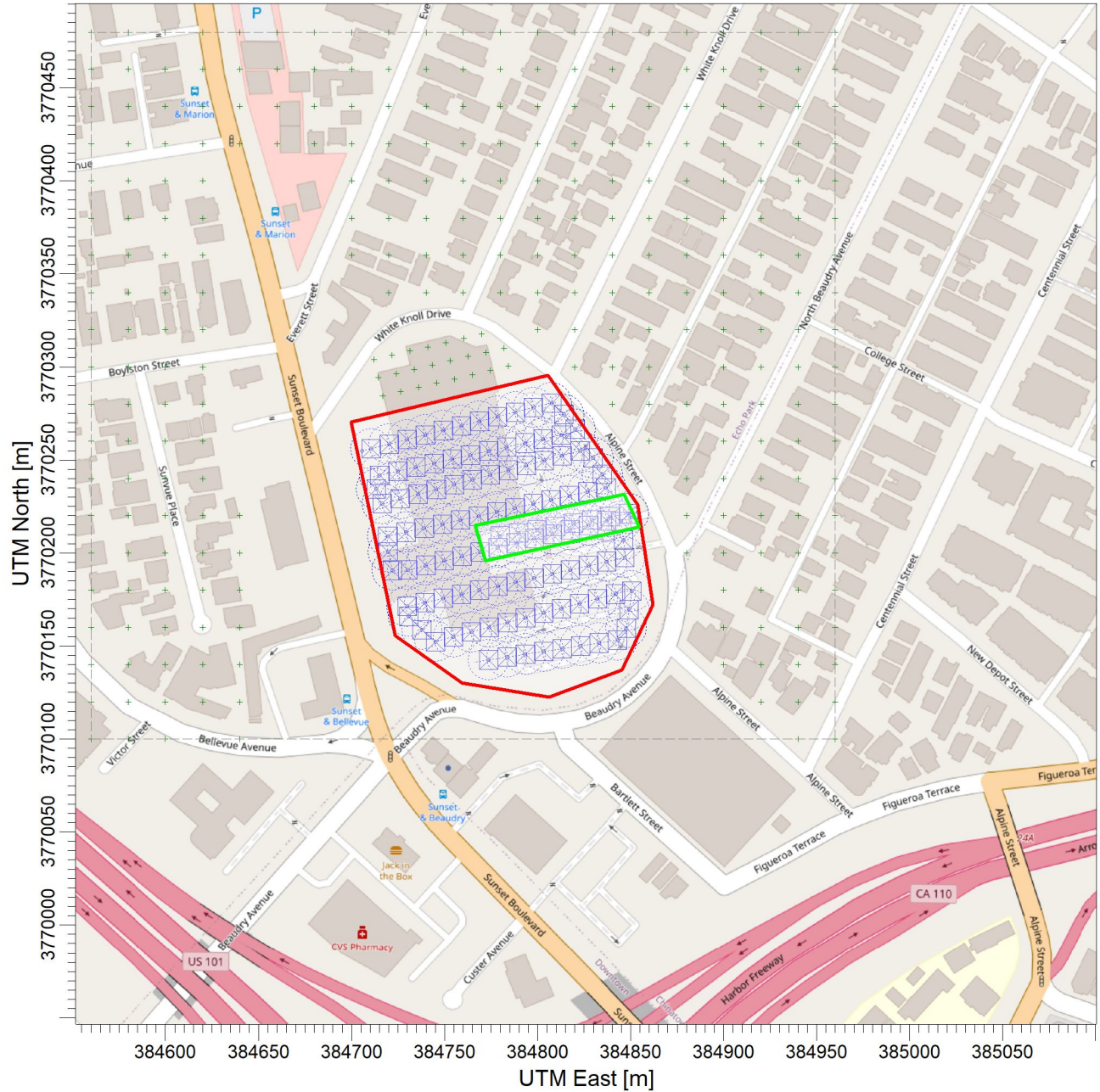
Receptor	Annual Concentration (ug/m3)	Chronic Inhalation REL (ug/m3)	Chronic Risk (HI)
Residential	3.0E-01	5	6.016E-02

Appendix C

AERMOD Source Receptor Configuration and Output File

PROJECT TITLE:

C:\AERMOD\1111Sunset_3\1111Sunset_3.isc



COMMENTS:

1111 Sunset
Construction and Operational
HRA
Source-Receptor Diagram

SOURCES:

2

RECEPTORS:

295

COMPANY NAME:

MODELER:

SCALE:

1:3,451

0

0.1 km

DATE:

9/23/2021

PROJECT NO.:

1111 Sunset - Construction Health Risk Assessment

AERMOD Parameters

Parameter	Value	
Line Volume Source Parameters (Construction and Operations)		
Plume Width (m)	10	
Plume Height (m)	5	
Source Release Height (ft)	12	Average stack height of construction equipment and heavy duty trucks
Variable Emissions (Hour of Day)	7AM-3PM	8 hours per day
Receptor Spacing (m) - Elysian	10	
Receptor Spacing (m) - Other Residential	20	
AERMOD Version	21112	
AERMET Version	16216	
Meteorological Station	AQMD Central LA	
Elevation Data Set	USGS National Elevation Dataset (NED) 1/3	
Population (Urban Groups)	9,818,605	Los Angeles County Population (AQMD AERMOD Guidance)

1111 Sunset Health Risk Assessment – AERMOD Output File

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 9/16/2021
** File: C:\AERMOD\1111Sunset_3\1111Sunset_3.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE C:\AERMOD\1111Sunset_3\1111Sunset_3.isc
MODELOPT CONC
AVERTIME PERIOD
URBANOPT 9818605 Los_Angeles_County_Population
POLLUTID DPM
RUNORNOT RUN
ERRORFIL 1111Sunset_3.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = DPM
** DESCRSRC Construction DPM
** PREFIX
** Length of Side = 10.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Elevated
** Vertical Dimension = 5.00
** SZINIT = 1.16
** Nodes = 16
** 384705.737, 3770254.739, 123.85, 3.66, 4.65
** 384809.083, 3770281.051, 130.72, 3.66, 4.65
** 384821.075, 3770265.294, 129.41, 3.66, 4.65
** 384712.004, 3770241.040, 125.60, 3.66, 4.65
** 384715.009, 3770226.077, 126.28, 3.66, 4.65
** 384827.085, 3770255.916, 128.66, 3.66, 4.65
** 384838.729, 3770235.538, 127.71, 3.66, 4.65
** 384717.920, 3770208.611, 124.35, 3.66, 4.65
** 384722.286, 3770188.961, 123.28, 3.66, 4.65
** 384844.552, 3770219.163, 127.37, 3.66, 4.65
** 384847.463, 3770197.694, 125.53, 3.66, 4.65
** 384726.289, 3770170.403, 122.81, 3.66, 4.65
** 384744.483, 3770152.209, 124.83, 3.66, 4.65
** 384850.738, 3770180.228, 125.05, 3.66, 4.65
** 384846.735, 3770153.664, 123.87, 3.66, 4.65
** 384765.589, 3770141.292, 124.03, 3.66, 4.65
** -----
LOCATION L0003463 VOLUME 384710.583 3770255.973 124.12
LOCATION L0003464 VOLUME 384720.274 3770258.440 126.24
LOCATION L0003465 VOLUME 384729.965 3770260.908 128.73
LOCATION L0003466 VOLUME 384739.655 3770263.375 130.49
LOCATION L0003467 VOLUME 384749.346 3770265.842 131.97

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LOCATION L0003468 VOLUME 384759.037 3770268.310 132.03
LOCATION L0003469 VOLUME 384768.728 3770270.777 131.59
LOCATION L0003470 VOLUME 384778.419 3770273.244 131.05
LOCATION L0003471 VOLUME 384788.110 3770275.711 130.30
LOCATION L0003472 VOLUME 384797.801 3770278.179 130.15
LOCATION L0003473 VOLUME 384807.491 3770280.646 130.35
LOCATION L0003474 VOLUME 384814.145 3770274.401 130.02
LOCATION L0003475 VOLUME 384820.201 3770266.443 129.33
LOCATION L0003476 VOLUME 384812.723 3770263.437 129.37
LOCATION L0003477 VOLUME 384802.962 3770261.266 129.82
LOCATION L0003478 VOLUME 384793.200 3770259.096 129.99
LOCATION L0003479 VOLUME 384783.438 3770256.925 131.03
LOCATION L0003480 VOLUME 384773.677 3770254.754 131.47
LOCATION L0003481 VOLUME 384763.915 3770252.584 131.89
LOCATION L0003482 VOLUME 384754.154 3770250.413 131.92
LOCATION L0003483 VOLUME 384744.392 3770248.242 130.52
LOCATION L0003484 VOLUME 384734.631 3770246.072 128.40
LOCATION L0003485 VOLUME 384724.869 3770243.901 126.92
LOCATION L0003486 VOLUME 384715.107 3770241.730 125.58
LOCATION L0003487 VOLUME 384713.347 3770234.353 125.76
LOCATION L0003488 VOLUME 384716.515 3770226.478 126.31
LOCATION L0003489 VOLUME 384726.178 3770229.051 126.31
LOCATION L0003490 VOLUME 384735.842 3770231.624 127.61
LOCATION L0003491 VOLUME 384745.505 3770234.197 129.86
LOCATION L0003492 VOLUME 384755.169 3770236.769 131.69
LOCATION L0003493 VOLUME 384764.832 3770239.342 131.97
LOCATION L0003494 VOLUME 384774.495 3770241.915 131.39
LOCATION L0003495 VOLUME 384784.159 3770244.487 130.91
LOCATION L0003496 VOLUME 384793.822 3770247.060 129.83
LOCATION L0003497 VOLUME 384803.485 3770249.633 129.63
LOCATION L0003498 VOLUME 384813.149 3770252.206 129.23
LOCATION L0003499 VOLUME 384822.812 3770254.778 128.74
LOCATION L0003500 VOLUME 384829.853 3770251.072 128.65
LOCATION L0003501 VOLUME 384834.814 3770242.390 128.03
LOCATION L0003502 VOLUME 384836.671 3770235.080 127.72
LOCATION L0003503 VOLUME 384826.911 3770232.904 128.33
LOCATION L0003504 VOLUME 384817.150 3770230.729 128.65
LOCATION L0003505 VOLUME 384807.390 3770228.553 129.30
LOCATION L0003506 VOLUME 384797.629 3770226.377 129.68
LOCATION L0003507 VOLUME 384787.869 3770224.202 130.69
LOCATION L0003508 VOLUME 384778.108 3770222.026 131.46
LOCATION L0003509 VOLUME 384768.348 3770219.851 131.98
LOCATION L0003510 VOLUME 384758.587 3770217.675 130.97
LOCATION L0003511 VOLUME 384748.827 3770215.500 129.03
LOCATION L0003512 VOLUME 384739.067 3770213.324 127.13
LOCATION L0003513 VOLUME 384729.306 3770211.149 126.15
LOCATION L0003514 VOLUME 384719.546 3770208.973 125.51
LOCATION L0003515 VOLUME 384719.728 3770200.475 124.31
LOCATION L0003516 VOLUME 384721.897 3770190.713 123.46
LOCATION L0003517 VOLUME 384730.252 3770190.929 125.26
LOCATION L0003518 VOLUME 384739.960 3770193.327 126.09
LOCATION L0003519 VOLUME 384749.668 3770195.725 126.43
LOCATION L0003520 VOLUME 384759.376 3770198.123 126.77
LOCATION L0003521 VOLUME 384769.085 3770200.521 127.27
LOCATION L0003522 VOLUME 384778.793 3770202.919 127.45
LOCATION L0003523 VOLUME 384788.501 3770205.318 128.43
LOCATION L0003524 VOLUME 384798.209 3770207.716 129.49
LOCATION L0003525 VOLUME 384807.917 3770210.114 129.22
LOCATION L0003526 VOLUME 384817.626 3770212.512 128.93
LOCATION L0003527 VOLUME 384827.334 3770214.910 128.35
LOCATION L0003528 VOLUME 384837.042 3770217.308 127.77
LOCATION L0003529 VOLUME 384844.856 3770216.919 127.30
LOCATION L0003530 VOLUME 384846.199 3770212.512 127.05
LOCATION L0003531 VOLUME 384846.878 3770197.563 125.96
LOCATION L0003532 VOLUME 384837.123 3770195.365 126.09
LOCATION L0003533 VOLUME 384827.367 3770193.168 127.36
LOCATION L0003534 VOLUME 384817.611 3770190.971 127.96
LOCATION L0003535 VOLUME 384807.856 3770188.774 127.55
LOCATION L0003536 VOLUME 384798.100 3770186.577 127.77
LOCATION L0003537 VOLUME 384788.344 3770184.379 127.50

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LOCATION L0003538	VOLUME	384778.589	3770182.182	127.09	SRCPARAM L0003476	0.0095238095	3.66	4.65	1.16
LOCATION L0003539	VOLUME	384768.833	3770179.985	126.84	SRCPARAM L0003477	0.0095238095	3.66	4.65	1.16
LOCATION L0003540	VOLUME	384759.078	3770177.788	126.58	SRCPARAM L0003478	0.0095238095	3.66	4.65	1.16
LOCATION L0003541	VOLUME	384749.322	3770175.591	126.26	SRCPARAM L0003479	0.0095238095	3.66	4.65	1.16
LOCATION L0003542	VOLUME	384739.566	3770173.393	125.16	SRCPARAM L0003480	0.0095238095	3.66	4.65	1.16
LOCATION L0003543	VOLUME	384729.811	3770171.196	124.20	SRCPARAM L0003481	0.0095238095	3.66	4.65	1.16
LOCATION L0003544	VOLUME	384730.807	3770165.884	123.93	SRCPARAM L0003482	0.0095238095	3.66	4.65	1.16
LOCATION L0003545	VOLUME	384737.878	3770158.813	123.77	SRCPARAM L0003483	0.0095238095	3.66	4.65	1.16
LOCATION L0003546	VOLUME	384745.121	3770152.377	124.58	SRCPARAM L0003484	0.0095238095	3.66	4.65	1.16
LOCATION L0003547	VOLUME	384754.790	3770154.927	126.00	SRCPARAM L0003485	0.0095238095	3.66	4.65	1.16
LOCATION L0003548	VOLUME	384764.460	3770157.476	126.15	SRCPARAM L0003486	0.0095238095	3.66	4.65	1.16
LOCATION L0003549	VOLUME	384774.129	3770160.026	126.23	SRCPARAM L0003487	0.0095238095	3.66	4.65	1.16
LOCATION L0003550	VOLUME	384783.799	3770162.576	125.73	SRCPARAM L0003488	0.0095238095	3.66	4.65	1.16
LOCATION L0003551	VOLUME	384793.468	3770165.126	125.81	SRCPARAM L0003489	0.0095238095	3.66	4.65	1.16
LOCATION L0003552	VOLUME	384803.138	3770167.676	126.12	SRCPARAM L0003490	0.0095238095	3.66	4.65	1.16
LOCATION L0003553	VOLUME	384812.807	3770170.226	126.14	SRCPARAM L0003491	0.0095238095	3.66	4.65	1.16
LOCATION L0003554	VOLUME	384822.477	3770172.775	125.85	SRCPARAM L0003492	0.0095238095	3.66	4.65	1.16
LOCATION L0003555	VOLUME	384832.146	3770175.325	125.40	SRCPARAM L0003493	0.0095238095	3.66	4.65	1.16
LOCATION L0003556	VOLUME	384841.815	3770177.875	125.09	SRCPARAM L0003494	0.0095238095	3.66	4.65	1.16
LOCATION L0003557	VOLUME	384850.622	3770179.464	124.99	SRCPARAM L0003495	0.0095238095	3.66	4.65	1.16
LOCATION L0003558	VOLUME	384849.132	3770169.575	124.51	SRCPARAM L0003496	0.0095238095	3.66	4.65	1.16
LOCATION L0003559	VOLUME	384847.642	3770159.687	124.05	SRCPARAM L0003497	0.0095238095	3.66	4.65	1.16
LOCATION L0003560	VOLUME	384842.870	3770153.075	124.42	SRCPARAM L0003498	0.0095238095	3.66	4.65	1.16
LOCATION L0003561	VOLUME	384832.984	3770151.568	124.00	SRCPARAM L0003499	0.0095238095	3.66	4.65	1.16
LOCATION L0003562	VOLUME	384823.099	3770150.060	124.57	SRCPARAM L0003500	0.0095238095	3.66	4.65	1.16
LOCATION L0003563	VOLUME	384813.213	3770148.553	124.88	SRCPARAM L0003501	0.0095238095	3.66	4.65	1.16
LOCATION L0003564	VOLUME	384803.327	3770147.046	124.94	SRCPARAM L0003502	0.0095238095	3.66	4.65	1.16
LOCATION L0003565	VOLUME	384793.441	3770145.539	124.96	SRCPARAM L0003503	0.0095238095	3.66	4.65	1.16
LOCATION L0003566	VOLUME	384783.556	3770144.031	124.97	SRCPARAM L0003504	0.0095238095	3.66	4.65	1.16
LOCATION L0003567	VOLUME	384773.670	3770142.524	124.10	SRCPARAM L0003505	0.0095238095	3.66	4.65	1.16
** End of LINE VOLUME Source ID = DPM					SRCPARAM L0003506	0.0095238095	3.66	4.65	1.16
**					SRCPARAM L0003507	0.0095238095	3.66	4.65	1.16
** Line Source Represented by Adjacent Volume Sources					SRCPARAM L0003508	0.0095238095	3.66	4.65	1.16
** LINE VOLUME Source ID = LOADING					SRCPARAM L0003509	0.0095238095	3.66	4.65	1.16
** DESCRSRC Loading Dock					SRCPARAM L0003510	0.0095238095	3.66	4.65	1.16
** PREFIX					SRCPARAM L0003511	0.0095238095	3.66	4.65	1.16
** Length of Side = 10.00					SRCPARAM L0003512	0.0095238095	3.66	4.65	1.16
** Configuration = Adjacent					SRCPARAM L0003513	0.0095238095	3.66	4.65	1.16
** Emission Rate = 1.0					SRCPARAM L0003514	0.0095238095	3.66	4.65	1.16
** Elevated					SRCPARAM L0003515	0.0095238095	3.66	4.65	1.16
** Vertical Dimension = 5.00					SRCPARAM L0003516	0.0095238095	3.66	4.65	1.16
** SZINIT = 1.16					SRCPARAM L0003517	0.0095238095	3.66	4.65	1.16
** Nodes = 2					SRCPARAM L0003518	0.0095238095	3.66	4.65	1.16
** 384853.847, 3770221.981, 126.73, 3.66, 4.65					SRCPARAM L0003519	0.0095238095	3.66	4.65	1.16
** 384775.140, 3770208.293, 127.50, 3.66, 4.65					SRCPARAM L0003520	0.0095238095	3.66	4.65	1.16
**					SRCPARAM L0003521	0.0095238095	3.66	4.65	1.16
LOCATION L0003576	VOLUME	384848.920	3770221.124	126.95	SRCPARAM L0003522	0.0095238095	3.66	4.65	1.16
LOCATION L0003577	VOLUME	384839.068	3770219.411	127.62	SRCPARAM L0003523	0.0095238095	3.66	4.65	1.16
LOCATION L0003578	VOLUME	384829.216	3770217.697	128.20	SRCPARAM L0003524	0.0095238095	3.66	4.65	1.16
LOCATION L0003579	VOLUME	384819.364	3770215.984	128.79	SRCPARAM L0003525	0.0095238095	3.66	4.65	1.16
LOCATION L0003580	VOLUME	384809.512	3770214.270	129.11	SRCPARAM L0003526	0.0095238095	3.66	4.65	1.16
LOCATION L0003581	VOLUME	384799.660	3770212.557	129.57	SRCPARAM L0003527	0.0095238095	3.66	4.65	1.16
LOCATION L0003582	VOLUME	384789.808	3770210.844	129.75	SRCPARAM L0003528	0.0095238095	3.66	4.65	1.16
LOCATION L0003583	VOLUME	384779.956	3770209.130	129.06	SRCPARAM L0003529	0.0095238095	3.66	4.65	1.16
** End of LINE VOLUME Source ID = LOADING					SRCPARAM L0003530	0.0095238095	3.66	4.65	1.16
** Source Parameters **					SRCPARAM L0003531	0.0095238095	3.66	4.65	1.16
** LINE VOLUME Source ID = DPM					SRCPARAM L0003532	0.0095238095	3.66	4.65	1.16
SRCPARAM L0003463	0.0095238095	3.66	4.65	1.16	SRCPARAM L0003533	0.0095238095	3.66	4.65	1.16
SRCPARAM L0003464	0.0095238095	3.66	4.65	1.16	SRCPARAM L0003534	0.0095238095	3.66	4.65	1.16
SRCPARAM L0003465	0.0095238095	3.66	4.65	1.16	SRCPARAM L0003535	0.0095238095	3.66	4.65	1.16
SRCPARAM L0003466	0.0095238095	3.66	4.65	1.16	SRCPARAM L0003536	0.0095238095	3.66	4.65	1.16
SRCPARAM L0003467	0.0095238095	3.66	4.65	1.16	SRCPARAM L0003537	0.0095238095	3.66	4.65	1.16
SRCPARAM L0003468	0.0095238095	3.66	4.65	1.16	SRCPARAM L0003538	0.0095238095	3.66	4.65	1.16
SRCPARAM L0003469	0.0095238095	3.66	4.65	1.16	SRCPARAM L0003539	0.0095238095	3.66	4.65	1.16
SRCPARAM L0003470	0.0095238095	3.66	4.65	1.16	SRCPARAM L0003540	0.0095238095	3.66	4.65	1.16
SRCPARAM L0003471	0.0095238095	3.66	4.65	1.16	SRCPARAM L0003541	0.0095238095	3.66	4.65	1.16
SRCPARAM L0003472	0.0095238095	3.66	4.65	1.16	SRCPARAM L0003542	0.0095238095	3.66	4.65	1.16
SRCPARAM L0003473	0.0095238095	3.66	4.65	1.16	SRCPARAM L0003543	0.0095238095	3.66	4.65	1.16
SRCPARAM L0003474	0.0095238095	3.66	4.65	1.16	SRCPARAM L0003544	0.0095238095	3.66	4.65	1.16
SRCPARAM L0003475	0.0095238095	3.66	4.65	1.16	SRCPARAM L0003545	0.0095238095	3.66	4.65	1.16

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SRCPARAM L0003546	0.0095238095	3.66	4.65	1.16	EMISFACT L0003471	HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
SRCPARAM L0003547	0.0095238095	3.66	4.65	1.16	EMISFACT L0003471	HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
SRCPARAM L0003548	0.0095238095	3.66	4.65	1.16	EMISFACT L0003471	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
SRCPARAM L0003549	0.0095238095	3.66	4.65	1.16	EMISFACT L0003472	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
SRCPARAM L0003550	0.0095238095	3.66	4.65	1.16	EMISFACT L0003472	HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
SRCPARAM L0003551	0.0095238095	3.66	4.65	1.16	EMISFACT L0003472	HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
SRCPARAM L0003552	0.0095238095	3.66	4.65	1.16	EMISFACT L0003472	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
SRCPARAM L0003553	0.0095238095	3.66	4.65	1.16	EMISFACT L0003473	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
SRCPARAM L0003554	0.0095238095	3.66	4.65	1.16	EMISFACT L0003473	HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
SRCPARAM L0003555	0.0095238095	3.66	4.65	1.16	EMISFACT L0003473	HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
SRCPARAM L0003556	0.0095238095	3.66	4.65	1.16	EMISFACT L0003473	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
SRCPARAM L0003557	0.0095238095	3.66	4.65	1.16	EMISFACT L0003474	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
SRCPARAM L0003558	0.0095238095	3.66	4.65	1.16	EMISFACT L0003474	HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
SRCPARAM L0003559	0.0095238095	3.66	4.65	1.16	EMISFACT L0003474	HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
SRCPARAM L0003560	0.0095238095	3.66	4.65	1.16	EMISFACT L0003474	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
SRCPARAM L0003561	0.0095238095	3.66	4.65	1.16	EMISFACT L0003475	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
SRCPARAM L0003562	0.0095238095	3.66	4.65	1.16	EMISFACT L0003475	HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
SRCPARAM L0003563	0.0095238095	3.66	4.65	1.16	EMISFACT L0003475	HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
SRCPARAM L0003564	0.0095238095	3.66	4.65	1.16	EMISFACT L0003475	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
SRCPARAM L0003565	0.0095238095	3.66	4.65	1.16	EMISFACT L0003476	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
SRCPARAM L0003566	0.0095238095	3.66	4.65	1.16	EMISFACT L0003476	HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
SRCPARAM L0003567	0.0095238095	3.66	4.65	1.16	EMISFACT L0003476	HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
** -----						
** LINE VOLUME Source ID = LOADING						
SRCPARAM L0003576	0.125	3.66	4.65	1.16	EMISFACT L0003477	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
SRCPARAM L0003577	0.125	3.66	4.65	1.16	EMISFACT L0003477	HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
SRCPARAM L0003578	0.125	3.66	4.65	1.16	EMISFACT L0003477	HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
SRCPARAM L0003579	0.125	3.66	4.65	1.16	EMISFACT L0003477	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
SRCPARAM L0003580	0.125	3.66	4.65	1.16	EMISFACT L0003478	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
SRCPARAM L0003581	0.125	3.66	4.65	1.16	EMISFACT L0003478	HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
SRCPARAM L0003582	0.125	3.66	4.65	1.16	EMISFACT L0003478	HROFDY 1.0 1.0 1.0 0.0 0.0 0.0
SRCPARAM L0003583	0.125	3.66	4.65	1.16	EMISFACT L0003478	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
** -----						
URBANSRC ALL						
** Variable Emissions Type: "By Hour-of-Day (HROFDY)"						
** Variable Emission Scenario: "Scenario 1"						
EMISFACT L0003463	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0					
EMISFACT L0003463	HROFDY 0.0 1.0 1.0 1.0 1.0 1.0					
EMISFACT L0003463	HROFDY 1.0 1.0 1.0 0.0 0.0 0.0					
EMISFACT L0003463	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0					
EMISFACT L0003464	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0					
EMISFACT L0003464	HROFDY 0.0 1.0 1.0 1.0 1.0 1.0					
EMISFACT L0003464	HROFDY 1.0 1.0 1.0 0.0 0.0 0.0					
EMISFACT L0003464	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0					
EMISFACT L0003465	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0					
EMISFACT L0003465	HROFDY 0.0 1.0 1.0 1.0 1.0 1.0					
EMISFACT L0003465	HROFDY 1.0 1.0 1.0 0.0 0.0 0.0					
EMISFACT L0003465	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0					
EMISFACT L0003466	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0					
EMISFACT L0003466	HROFDY 0.0 1.0 1.0 1.0 1.0 1.0					
EMISFACT L0003466	HROFDY 1.0 1.0 1.0 0.0 0.0 0.0					
EMISFACT L0003466	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0					
EMISFACT L0003467	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0					
EMISFACT L0003467	HROFDY 0.0 1.0 1.0 1.0 1.0 1.0					
EMISFACT L0003467	HROFDY 1.0 1.0 1.0 0.0 0.0 0.0					
EMISFACT L0003467	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0					
EMISFACT L0003468	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0					
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EMISFACT L0003471	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0					

1111 Sunset Health Risk Assessment – AERMOD Output File

[illegible][illegible]

1111 Sunset Health Risk Assessment – AERMOD Output File

[illegible]

1111 Sunset Health Risk Assessment – AERMOD Output File

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L0003580 L0003581
SRCGROUP LOADING L0003582 L0003583
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
INCLUDED 1111Sunset_3.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE Met\CELA_v9.SFC
PROFFILE Met\CELA_v9.PFL
SURFDATA 93134 2010
UAIRDATA 3190 2010
SITEDATA 99999 2010
PROFBASE 87.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles

```

1111 Sunset Health Risk Assessment – AERMOD Output File

PLOTFILE PERIOD DPM 1111SUNSET_3.AD\PE00G001.PLT 31
PLOTFILE PERIOD LOADING 1111SUNSET_3.AD\PE00G002.PLT 32
SUMMFILE 1111Sunset_3.sum
OU FINISHED

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

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

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

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

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

ME W186 812 MEOPEN: THRESH_1MIN 1-min ASOS wind
speed threshold used 0.50
ME W187 812 MEOPEN: ADJ_U* Option for Stable Low Winds
used in AERMET

*** SETUP Finishes Successfully ***

*** AERMOD - VERSION 21112 *** ***
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*** AERMET - VERSION 16216 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

**Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

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

**Model Uses URBAN Dispersion Algorithm for the SBL for 113
Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9818605.0 ; Urban Roughness Length = 1.000
m

**Model Allows User-Specified 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 Used.

**Other Options Specified:

ADJ_U* - Use ADJ_U* option for SBL in AERMET
TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: DPM

**Model Calculates PERIOD Averages Only

**This Run Includes: 113 Source(s); 2 Source Group(s); and
295 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 113 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

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

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:

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

**NOTE: The Following Flags May Appear Following CONC Values: c
for Calm Hours

m for Missing Hours
b for Both Calm and Missing
Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 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.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: 1111Sunset_3.err

**File for Summary of Results: 1111Sunset_3.sum

*** AERMOD - VERSION 21112 *** ***
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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

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

1111 Sunset Health Risk Assessment – AERMOD Output File

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

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

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1111 Sunset Health Risk Assessment – AERMOD Output File

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L0003534    0 0.95238E-02 384817.6 3770191.0 128.0 3.66
4.65 1.16 YES HROFDY
L0003535    0 0.95238E-02 384807.9 3770188.8 127.5 3.66
4.65 1.16 YES HROFDY
L0003536    0 0.95238E-02 384798.1 3770186.6 127.8 3.66
4.65 1.16 YES HROFDY
L0003537    0 0.95238E-02 384788.3 3770184.4 127.5 3.66
4.65 1.16 YES HROFDY
L0003538    0 0.95238E-02 384778.6 3770182.2 127.1 3.66
4.65 1.16 YES HROFDY
L0003539    0 0.95238E-02 384768.8 3770180.0 126.8 3.66
4.65 1.16 YES HROFDY
L0003540    0 0.95238E-02 384759.1 3770177.8 126.6 3.66
4.65 1.16 YES HROFDY
L0003541    0 0.95238E-02 384749.3 3770175.6 126.3 3.66
4.65 1.16 YES HROFDY
L0003542    0 0.95238E-02 384739.6 3770173.4 125.2 3.66
4.65 1.16 YES HROFDY
*** AERMOD - VERSION 21112 *** ***
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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE		BASE RELEASE	
INIT.	INIT.	URBAN EMISSION RATE	
SOURCE	PART.	(GRAMS/SEC)	X Y ELEV. HEIGHT
SY	SZ	SOURCE SCALAR VARY	
ID	CATS.	(METERS)	(METERS) (METERS) (METERS)
(METERS)	(METERS)	BY	
L0003543	0	0.95238E-02	384729.8 3770171.2 124.2 3.66
4.65	1.16	YES HROFDY	
L0003544	0	0.95238E-02	384730.8 3770165.9 123.9 3.66
4.65	1.16	YES HROFDY	
L0003545	0	0.95238E-02	384737.9 3770158.8 123.8 3.66
4.65	1.16	YES HROFDY	

```

L0003546    0 0.95238E-02 384745.1 3770152.4 124.6 3.66
4.65 1.16 YES HROFDY
L0003547    0 0.95238E-02 384754.8 3770154.9 126.0 3.66
4.65 1.16 YES HROFDY
L0003548    0 0.95238E-02 384764.5 3770157.5 126.1 3.66
4.65 1.16 YES HROFDY
L0003549    0 0.95238E-02 384774.1 3770160.0 126.2 3.66
4.65 1.16 YES HROFDY
L0003550    0 0.95238E-02 384783.8 3770162.6 125.7 3.66
4.65 1.16 YES HROFDY
L0003551    0 0.95238E-02 384793.5 3770165.1 125.8 3.66
4.65 1.16 YES HROFDY
L0003552    0 0.95238E-02 384803.1 3770167.7 126.1 3.66
4.65 1.16 YES HROFDY
L0003553    0 0.95238E-02 384812.8 3770170.2 126.1 3.66
4.65 1.16 YES HROFDY
L0003554    0 0.95238E-02 384822.5 3770172.8 125.8 3.66
4.65 1.16 YES HROFDY
L0003555    0 0.95238E-02 384832.1 3770175.3 125.4 3.66
4.65 1.16 YES HROFDY
L0003556    0 0.95238E-02 384841.8 3770177.9 125.1 3.66
4.65 1.16 YES HROFDY
L0003557    0 0.95238E-02 384850.6 3770179.5 125.0 3.66
4.65 1.16 YES HROFDY
L0003558    0 0.95238E-02 384849.1 3770169.6 124.5 3.66
4.65 1.16 YES HROFDY
L0003559    0 0.95238E-02 384847.6 3770159.7 124.0 3.66
4.65 1.16 YES HROFDY
L0003560    0 0.95238E-02 384842.9 3770153.1 124.4 3.66
4.65 1.16 YES HROFDY
L0003561    0 0.95238E-02 384833.0 3770151.6 124.0 3.66
4.65 1.16 YES HROFDY
L0003562    0 0.95238E-02 384823.1 3770150.1 124.6 3.66
4.65 1.16 YES HROFDY
L0003563    0 0.95238E-02 384813.2 3770148.6 124.9 3.66
4.65 1.16 YES HROFDY
L0003564    0 0.95238E-02 384803.3 3770147.0 124.9 3.66
4.65 1.16 YES HROFDY
L0003565    0 0.95238E-02 384793.4 3770145.5 125.0 3.66
4.65 1.16 YES HROFDY
L0003566    0 0.95238E-02 384783.6 3770144.0 125.0 3.66
4.65 1.16 YES HROFDY
L0003567    0 0.95238E-02 384773.7 3770142.5 124.1 3.66
4.65 1.16 YES HROFDY
L0003576    0 0.12500E+00 384848.9 3770221.1 127.0 3.66
4.65 1.16 YES HROFDY
L0003577    0 0.12500E+00 384839.1 3770219.4 127.6 3.66
4.65 1.16 YES HROFDY
L0003578    0 0.12500E+00 384829.2 3770217.7 128.2 3.66
4.65 1.16 YES HROFDY
L0003579    0 0.12500E+00 384819.4 3770216.0 128.8 3.66
4.65 1.16 YES HROFDY
L0003580    0 0.12500E+00 384809.5 3770214.3 129.1 3.66
4.65 1.16 YES HROFDY
L0003581    0 0.12500E+00 384799.7 3770212.6 129.6 3.66
4.65 1.16 YES HROFDY
L0003582    0 0.12500E+00 384789.8 3770210.8 129.8 3.66
4.65 1.16 YES HROFDY
L0003583    0 0.12500E+00 384780.0 3770209.1 129.1 3.66
4.65 1.16 YES HROFDY
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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

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*** SOURCE IDs DEFINING SOURCE

GROUPS ***

SRCGROUP ID SOURCE IDs

DPM L0003463 ,L0003464 ,L0003465 ,L0003466 ,
L0003467 ,L0003468 ,L0003469 ,L0003470 ,

L0003471 ,L0003472 ,L0003473 ,L0003474 ,
L0003475 ,L0003476 ,L0003477 ,L0003478 ,

L0003479 ,L0003480 ,L0003481 ,L0003482 ,
L0003483 ,L0003484 ,L0003485 ,L0003486 ,

L0003487 ,L0003488 ,L0003489 ,L0003490 ,
L0003491 ,L0003492 ,L0003493 ,L0003494 ,

L0003495 ,L0003496 ,L0003497 ,L0003498 ,
L0003499 ,L0003500 ,L0003501 ,L0003502 ,

L0003503 ,L0003504 ,L0003505 ,L0003506 ,
L0003507 ,L0003508 ,L0003509 ,L0003510 ,

L0003511 ,L0003512 ,L0003513 ,L0003514 ,
L0003515 ,L0003516 ,L0003517 ,L0003518 ,

L0003519 ,L0003520 ,L0003521 ,L0003522 ,
L0003523 ,L0003524 ,L0003525 ,L0003526 ,

L0003527 ,L0003528 ,L0003529 ,L0003530 ,
L0003531 ,L0003532 ,L0003533 ,L0003534 ,

L0003535 ,L0003536 ,L0003537 ,L0003538 ,
L0003539 ,L0003540 ,L0003541 ,L0003542 ,

L0003543 ,L0003544 ,L0003545 ,L0003546 ,
L0003547 ,L0003548 ,L0003549 ,L0003550 ,

L0003551 ,L0003552 ,L0003553 ,L0003554 ,
L0003555 ,L0003556 ,L0003557 ,L0003558 ,

L0003559 ,L0003560 ,L0003561 ,L0003562 ,
L0003563 ,L0003564 ,L0003565 ,L0003566 ,

L0003567 ,

LOADING L0003576 ,L0003577 ,L0003578 ,L0003579 ,
L0003580 ,L0003581 ,L0003582 ,L0003583 ,
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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN

SOURCES ***

URBAN ID URBAN POP SOURCE IDs

9818605. L0003463 ,L0003464 ,L0003465 ,L0003466
L0003467 ,L0003468 ,L0003469 ,
L0003470 ,

L0003471 ,L0003472 ,L0003473 ,L0003474 ,
L0003475 ,L0003476 ,L0003477 ,L0003478 ,

L0003479 ,L0003480 ,L0003481 ,L0003482 ,
L0003483 ,L0003484 ,L0003485 ,L0003486 ,

L0003487 ,L0003488 ,L0003489 ,L0003490 ,
L0003491 ,L0003492 ,L0003493 ,L0003494 ,

L0003495 ,L0003496 ,L0003497 ,L0003498 ,
L0003499 ,L0003500 ,L0003501 ,L0003502 ,

L0003503 ,L0003504 ,L0003505 ,L0003506 ,
L0003507 ,L0003508 ,L0003509 ,L0003510 ,

L0003511 ,L0003512 ,L0003513 ,L0003514 ,
L0003515 ,L0003516 ,L0003517 ,L0003518 ,

L0003519 ,L0003520 ,L0003521 ,L0003522 ,
L0003523 ,L0003524 ,L0003525 ,L0003526 ,

L0003527 ,L0003528 ,L0003529 ,L0003530 ,
L0003531 ,L0003532 ,L0003533 ,L0003534 ,

L0003535 ,L0003536 ,L0003537 ,L0003538 ,
L0003539 ,L0003540 ,L0003541 ,L0003542 ,

L0003543 ,L0003544 ,L0003545 ,L0003546 ,
L0003547 ,L0003548 ,L0003549 ,L0003550 ,

L0003551 ,L0003552 ,L0003553 ,L0003554 ,
L0003555 ,L0003556 ,L0003557 ,L0003558 ,

L0003559 ,L0003560 ,L0003561 ,L0003562 ,
L0003563 ,L0003564 ,L0003565 ,L0003566 ,

L0003567 ,L0003576 ,L0003577 ,L0003578 ,
L0003579 ,L0003580 ,L0003581 ,L0003582 ,

L0003583 ,
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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
FOR EACH HOUR OF THE DAY *

SOURCE ID = L0003463 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003474 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003475 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003476 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003477 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
FOR EACH HOUR OF THE DAY *

HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR

SOURCE ID = L0003478 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01

13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003479 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003480 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003481 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003482 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
FOR EACH HOUR OF THE DAY *

HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR

SOURCE ID = L0003483 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00

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```

7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

SOURCE ID = L0003484 ; SOURCE TYPE = VOLUME :

```

1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

SOURCE ID = L0003485 ; SOURCE TYPE = VOLUME :

```

1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

SOURCE ID = L0003486 ; SOURCE TYPE = VOLUME :

```

1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

SOURCE ID = L0003487 ; SOURCE TYPE = VOLUME :

```

1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
FOR EACH HOUR OF THE DAY *

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      HOUR SCALAR  HOUR SCALAR  HOUR SCALAR
      HOUR SCALAR  HOUR SCALAR  HOUR SCALAR

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```

SOURCE ID = L0003488 ; SOURCE TYPE = VOLUME :

```

1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

SOURCE ID = L0003489 ; SOURCE TYPE = VOLUME :

```

1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

SOURCE ID = L0003490 ; SOURCE TYPE = VOLUME :

```

1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

SOURCE ID = L0003491 ; SOURCE TYPE = VOLUME :

```

1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

SOURCE ID = L0003492 ; SOURCE TYPE = VOLUME :

```

1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
FOR EACH HOUR OF THE DAY *

```

      HOUR SCALAR  HOUR SCALAR  HOUR SCALAR
      HOUR SCALAR  HOUR SCALAR  HOUR SCALAR

```

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```

SOURCE ID = L0003493 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = L0003494 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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```

SOURCE ID = L0003495 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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SOURCE ID = L0003496 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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```

SOURCE ID = L0003497 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

```

SOURCE ID = L0003498 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = L0003499 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

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SOURCE ID = L0003500 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = L0003501 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

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SOURCE ID = L0003502 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
 FOR EACH HOUR OF THE DAY *

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HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0003503 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003504 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003505 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003506 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003507 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

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 *** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
 FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0003508 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003509 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003510 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003511 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003512 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
FOR EACH HOUR OF THE DAY *

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

SOURCE ID = L0003513 ; SOURCE TYPE = VOLUME :

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

SOURCE ID = L0003514 ; SOURCE TYPE = VOLUME :

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

SOURCE ID = L0003515 ; SOURCE TYPE = VOLUME :

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

SOURCE ID = L0003516 ; SOURCE TYPE = VOLUME :

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

SOURCE ID = L0003517 ; SOURCE TYPE = VOLUME :

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
FOR EACH HOUR OF THE DAY *

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

SOURCE ID = L0003518 ; SOURCE TYPE = VOLUME :

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

SOURCE ID = L0003519 ; SOURCE TYPE = VOLUME :

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

SOURCE ID = L0003520 ; SOURCE TYPE = VOLUME :

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

SOURCE ID = L0003521 ; SOURCE TYPE = VOLUME :

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

SOURCE ID = L0003522 ; SOURCE TYPE = VOLUME :

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

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 *** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
 FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0003523 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003524 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003525 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003526 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003527 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

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 *** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
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 HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0003528 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003529 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003530 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003531 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003532 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00

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19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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* SOURCE EMISSION RATE SCALARS WHICH VARY
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HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0003533 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003534 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003535 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003536 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003537 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01

13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

*** AERMOD - VERSION 21112 *** ***

C:\AERMOD\1111Sunset_3\1111Sunset_3.isc
09/16/21

*** AERMET - VERSION 16216 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
FOR EACH HOUR OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0003538 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003539 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003540 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003541 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003542 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00

1111 Sunset Health Risk Assessment – AERMOD Output File

```

7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

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*** AERMOD - VERSION 21112 *** ***
C:\AERMOD\1111Sunset_3\1111Sunset_3.isc ***
09/16/21
*** AERMET - VERSION 16216 *** ***
*** 14:45:58

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PAGE 23
 *** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
 FOR EACH HOUR OF THE DAY *

```

      HOUR SCALAR  HOUR SCALAR  HOUR SCALAR
      HOUR SCALAR  HOUR SCALAR  HOUR SCALAR
-----

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```

SOURCE ID = L0003543 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

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SOURCE ID = L0003544 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = L0003545 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = L0003546 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

SOURCE ID = L0003547 ; SOURCE TYPE = VOLUME :

```

1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

*** AERMOD - VERSION 21112 *** ***
C:\AERMOD\1111Sunset_3\1111Sunset_3.isc ***
09/16/21
*** AERMET - VERSION 16216 *** ***
*** 14:45:58

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PAGE 24
 *** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
 FOR EACH HOUR OF THE DAY *

```

      HOUR SCALAR  HOUR SCALAR  HOUR SCALAR
      HOUR SCALAR  HOUR SCALAR  HOUR SCALAR
-----

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```

SOURCE ID = L0003548 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = L0003549 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = L0003550 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = L0003551 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

1111 Sunset Health Risk Assessment – AERMOD Output File

SOURCE ID = L0003552 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

*** AERMOD - VERSION 21112 *** ***
 C:\AERMOD\1111Sunset_3\1111Sunset_3.isc ***
 09/16/21
 *** AERMET - VERSION 16216 *** ***
 *** 14:45:58

PAGE 25
 *** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
 FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0003553 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003554 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003555 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003556 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00

19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003557 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

*** AERMOD - VERSION 21112 *** ***
 C:\AERMOD\1111Sunset_3\1111Sunset_3.isc ***
 09/16/21
 *** AERMET - VERSION 16216 *** ***
 *** 14:45:58

PAGE 26
 *** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
 FOR EACH HOUR OF THE DAY *

 HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0003558 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003559 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003560 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16
 .00000E+00 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22
 .00000E+00 23 .00000E+00 24 .00000E+00

SOURCE ID = L0003561 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4
 .00000E+00 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10
 .10000E+01 11 .10000E+01 12 .10000E+01

1111 Sunset Health Risk Assessment – AERMOD Output File

```

13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = L0003562 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

*** AERMOD - VERSION 21112 *** ***
C:\AERMOD\1111Sunset_3\1111Sunset_3.isc ***
09/16/21
*** AERMET - VERSION 16216 *** ***
*** 14:45:58

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PAGE 27
 *** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
 FOR EACH HOUR OF THE DAY *

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      HOUR SCALAR  HOUR SCALAR  HOUR SCALAR
      HOUR SCALAR  HOUR SCALAR  HOUR SCALAR
      -----
      -----

```

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SOURCE ID = L0003563 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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```

SOURCE ID = L0003564 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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SOURCE ID = L0003565 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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SOURCE ID = L0003566 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00

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7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = L0003567 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

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*** AERMOD - VERSION 21112 *** ***
C:\AERMOD\1111Sunset_3\1111Sunset_3.isc ***
09/16/21
*** AERMET - VERSION 16216 *** ***
*** 14:45:58

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PAGE 28
 *** MODELOPTs: CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY
 FOR EACH HOUR OF THE DAY *

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      HOUR SCALAR  HOUR SCALAR  HOUR SCALAR
      HOUR SCALAR  HOUR SCALAR  HOUR SCALAR
      -----
      -----

```

```

SOURCE ID = L0003576 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = L0003577 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = L0003578 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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```

SOURCE ID = L0003579 ; SOURCE TYPE = VOLUME :

```

1111 Sunset Health Risk Assessment – AERMOD Output File

```

1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = L0003580 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

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*** AERMOD - VERSION 21112 *** ***
C:\AERMOD\1111Sunset_3\1111Sunset_3.isc ***
09/16/21
*** AERMET - VERSION 16216 *** ***
*** 14:45:58

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PAGE 29
*** MODELOPTs: CONC ELEV URBAN ADJ_U*

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* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

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      HOUR SCALAR  HOUR SCALAR  HOUR SCALAR
      HOUR SCALAR  HOUR SCALAR  HOUR SCALAR
-----
-----

```

```

SOURCE ID = L0003581 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = L0003582 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4
.00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10
.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
.00000E+00 17 .00000E+00 18 .00000E+00
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.00000E+00 23 .00000E+00 24 .00000E+00

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.10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16
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19 .00000E+00 20 .00000E+00 21 .00000E+00 22
.00000E+00 23 .00000E+00 24 .00000E+00

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*** AERMOD - VERSION 21112 *** ***
C:\AERMOD\1111Sunset_3\1111Sunset_3.isc ***
09/16/21
*** AERMET - VERSION 16216 *** ***
*** 14:45:58

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PAGE 30
*** MODELOPTs: CONC ELEV URBAN ADJ_U*

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

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1111 Sunset Health Risk Assessment – AERMOD Output File

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09/16/21
*** AERMET - VERSION 16216 *** ***
*** 14:45:58

PAGE 31
*** MODELOPTs: CONC ELEV URBAN ADJ_U*

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

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1111 Sunset Health Risk Assessment – AERMOD Output File

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C:\AERMOD\1111Sunset_3\1111Sunset_3.isc ***
09/16/21
*** AERMET - VERSION 16216 *** ***
*** 14:45:58

PAGE 32

*** MODELOPTs: CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS

(X-COORD, Y-COORD, ZELEV, ZHILL,

ZFLAG)

(METERS)

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3770440.0, 133.3, 183.7, 0.0);
(384720.0, 3770440.0, 134.4, 183.7, 0.0); (384740.0,
3770440.0, 136.6, 183.7, 0.0);
(384760.0, 3770440.0, 138.0, 183.7, 0.0); (384780.0,
3770440.0, 139.0, 183.7, 0.0);
(384800.0, 3770440.0, 139.1, 183.7, 0.0); (384820.0,
3770440.0, 140.0, 183.7, 0.0);
(384840.0, 3770440.0, 141.5, 183.7, 0.0); (384860.0,
3770440.0, 141.5, 183.7, 0.0);
(384880.0, 3770440.0, 141.0, 183.7, 0.0); (384900.0,
3770440.0, 142.9, 183.7, 0.0);
(384920.0, 3770440.0, 143.8, 183.7, 0.0); (384940.0,
3770440.0, 144.1, 183.7, 0.0);
(384960.0, 3770440.0, 143.7, 183.7, 0.0); (384560.0,
3770460.0, 138.1, 183.4, 0.0);
(384580.0, 3770460.0, 132.0, 183.7, 0.0); (384600.0,
3770460.0, 129.2, 183.7, 0.0);
(384620.0, 3770460.0, 127.1, 183.7, 0.0); (384640.0,
3770460.0, 127.0, 183.7, 0.0);
(384660.0, 3770460.0, 127.4, 183.7, 0.0); (384680.0,
3770460.0, 134.1, 183.7, 0.0);
(384700.0, 3770460.0, 136.0, 183.7, 0.0); (384720.0,
3770460.0, 136.3, 183.7, 0.0);
(384740.0, 3770460.0, 137.7, 183.7, 0.0); (384760.0,
3770460.0, 139.1, 183.7, 0.0);
(384780.0, 3770460.0, 140.8, 183.7, 0.0); (384800.0,
3770460.0, 141.6, 183.7, 0.0);
(384820.0, 3770460.0, 141.6, 183.7, 0.0); (384840.0,
3770460.0, 143.2, 183.7, 0.0);
(384860.0, 3770460.0, 143.3, 183.7, 0.0); (384880.0,
3770460.0, 143.5, 183.7, 0.0);
*** AERMOD - VERSION 21112 *** ***
C:\AERMOD\1111Sunset_3\1111Sunset_3.isc ***
09/16/21
*** AERMET - VERSION 16216 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS

(X-COORD, Y-COORD, ZELEV, ZHILL,

ZFLAG)

(METERS)

(384900.0, 3770460.0, 144.5, 183.7, 0.0); (384920.0,
3770460.0, 146.4, 183.7, 0.0);
(384940.0, 3770460.0, 146.5, 183.7, 0.0); (384960.0,
3770460.0, 146.7, 183.7, 0.0);
(384560.0, 3770480.0, 138.0, 183.4, 0.0); (384580.0,
3770480.0, 131.8, 183.7, 0.0);
(384600.0, 3770480.0, 129.4, 183.7, 0.0); (384620.0,
3770480.0, 127.7, 183.7, 0.0);
(384640.0, 3770480.0, 127.5, 183.7, 0.0); (384660.0,
3770480.0, 128.8, 183.7, 0.0);
(384680.0, 3770480.0, 137.1, 183.7, 0.0); (384700.0,
3770480.0, 138.4, 183.7, 0.0);
(384720.0, 3770480.0, 138.7, 183.7, 0.0); (384740.0,
3770480.0, 139.3, 183.7, 0.0);
(384760.0, 3770480.0, 140.7, 183.7, 0.0); (384780.0,
3770480.0, 141.4, 183.7, 0.0);

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(384800.0, 3770480.0, 143.8, 183.7, 0.0); (384820.0,
3770480.0, 144.2, 183.7, 0.0);
(384840.0, 3770480.0, 145.2, 183.7, 0.0); (384860.0,
3770480.0, 146.4, 183.7, 0.0);
(384880.0, 3770480.0, 147.0, 183.7, 0.0); (384900.0,
3770480.0, 146.8, 183.7, 0.0);
(384920.0, 3770480.0, 148.7, 183.7, 0.0); (384940.0,
3770480.0, 149.4, 183.7, 0.0);
(384960.0, 3770480.0, 148.7, 183.7, 0.0);
*** AERMOD - VERSION 21112 *** ***
C:\AERMOD\1111Sunset_3\1111Sunset_3.isc ***
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*** AERMET - VERSION 16216 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

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

```

1111111111 1111111111 1111111111 111
11111111 1111111111
1111111111 1111111111 1111111111 111
11111111 1111111111
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1111111111 1111111111 1111111111 111
11111111 1111111111
1111111111 1111111111 1111111111 111
11111111 1111111111
1111111111 1111111111 1111111111 111
11111111 1111111111
1111111111 111111

```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED
WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH
WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,
*** AERMOD - VERSION 21112 *** ***
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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

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

Surface file: Met\CELA_v9.SFC
Met Version: 16216
Profile file: Met\CELA_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93134
Name: UNKNOWN
Year: 2010

Upper air station no.: 3190
Name: UNKNOWN
Year: 2010

First 24 hours of scalar data

YR MO DY JDY HR H0 U* W* DT/DZ ZICNV ZIMCH M-O LEN
Z0 BOWEN ALBEDO REF WS WD HT REF TA HT

```

-----
10 01 01 1 01 -33.0 0.331 -9.000 -9.000 -999. 456. 120.2 0.56
0.86 1.00 3.10 38. 21.3 284.9 17.7
10 01 01 1 02 -26.9 0.285 -9.000 -9.000 -999. 367. 89.6 0.56
0.86 1.00 2.70 38. 21.3 284.2 17.7
10 01 01 1 03 -38.6 0.387 -9.000 -9.000 -999. 577. 164.6 0.56
0.86 1.00 3.60 35. 21.3 284.2 17.7
10 01 01 1 04 -33.0 0.331 -9.000 -9.000 -999. 458. 120.2 0.56
0.86 1.00 3.10 34. 21.3 283.8 17.7
10 01 01 1 05 -33.1 0.331 -9.000 -9.000 -999. 456. 120.2 0.56
0.86 1.00 3.10 37. 21.3 283.1 17.7
10 01 01 1 06 -38.7 0.387 -9.000 -9.000 -999. 577. 164.5 0.56
0.86 1.00 3.60 24. 21.3 283.1 17.7
10 01 01 1 07 -38.6 0.387 -9.000 -9.000 -999. 577. 164.5 0.56
0.86 1.00 3.60 35. 21.3 283.8 17.7
10 01 01 1 08 -29.6 0.435 -9.000 -9.000 -999. 688. 251.8 0.56
0.86 0.55 4.00 35. 21.3 283.8 17.7
10 01 01 1 09 30.0 0.426 0.367 0.008 59. 666. -232.0 0.56
0.86 0.32 3.60 38. 21.3 286.4 17.7
10 01 01 1 10 72.3 0.359 0.629 0.008 124. 519. -57.8 0.56
0.86 0.24 2.70 34. 21.3 290.4 17.7
10 01 01 1 11 104.4 0.321 0.998 0.008 344. 437. -28.6 0.56
0.86 0.21 2.20 43. 21.3 292.5 17.7
10 01 01 1 12 115.1 0.283 1.156 0.008 484. 363. -17.9 0.56
0.86 0.20 1.80 62. 21.3 295.9 17.7
10 01 01 1 13 91.4 0.406 1.130 0.008 568. 622. -66.2 0.56
0.86 0.20 3.10 263. 21.3 294.2 17.7
10 01 01 1 14 89.3 0.316 1.168 0.008 642. 432. -31.9 0.56
0.86 0.21 2.20 259. 21.3 294.9 17.7
10 01 01 1 15 42.6 0.295 0.928 0.008 675. 384. -54.0 0.56
0.86 0.25 2.20 267. 21.3 294.9 17.7
10 01 01 1 16 12.0 0.359 0.609 0.008 680. 516. -347.9 0.56
0.86 0.33 3.10 264. 21.3 292.5 17.7
10 01 01 1 17 -15.7 0.231 -9.000 -9.000 -999. 276. 70.7 0.56
0.86 0.60 2.20 288. 21.3 290.9 17.7
10 01 01 1 18 -6.1 0.135 -9.000 -9.000 -999. 124. 36.7 0.56
0.86 1.00 1.30 344. 21.3 289.2 17.7
10 01 01 1 19 -11.4 0.184 -9.000 -9.000 -999. 190. 49.2 0.56
0.86 1.00 1.80 2. 21.3 288.8 17.7
10 01 01 1 20 -17.4 0.229 -9.000 -9.000 -999. 263. 62.1 0.56
0.86 1.00 2.20 22. 21.3 288.1 17.7
10 01 01 1 21 -17.4 0.229 -9.000 -9.000 -999. 263. 61.9 0.56
0.86 1.00 2.20 40. 21.3 287.0 17.7
10 01 01 1 22 -11.5 0.184 -9.000 -9.000 -999. 190. 49.1 0.56
0.86 1.00 1.80 306. 21.3 287.0 17.7
10 01 01 1 23 -11.5 0.184 -9.000 -9.000 -999. 190. 49.0 0.56
0.86 1.00 1.80 45. 21.3 286.4 17.7
10 01 01 1 24 -11.5 0.184 -9.000 -9.000 -999. 190. 49.0 0.56
0.86 1.00 1.80 67. 21.3 286.4 17.7

```

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW
sigmaV
10 01 01 01 17.7 0 -999. -99.00 284.9 99.0 -99.00 -99.00
10 01 01 01 21.3 1 38. 3.10 -999.0 99.0 -99.00 -99.00

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

*** AERMOD - VERSION 21112 *** ***

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09/16/21

*** AERMET - VERSION 16216 *** ***

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

1111 Sunset Health Risk Assessment – AERMOD Output File

*** THE PERIOD (43824 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: DPM ***
INCLUDING SOURCE(S): L0003463 ,
L0003464 , L0003465 , L0003466 , L0003467 ,
L0003468 , L0003469 , L0003470 , L0003471 ,
L0003472 , L0003473 , L0003474 , L0003475 ,
L0003476 , L0003477 , L0003478 , L0003479 ,
L0003480 , L0003481 , L0003482 , L0003483 ,
L0003484 , L0003485 , L0003486 , L0003487 ,
L0003488 , L0003489 , L0003490 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR
POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD
(M)	Y-COORD (M)	CONC	
384716.79	3770284.49	16.03519	384726.42
3770286.76	17.52078		
384736.05	3770289.03	18.74195	384745.68
3770291.30	19.58196		
384755.31	3770293.57	20.08676	384764.94
3770295.84	20.28464		
384774.57	3770298.11	20.17135	384784.20
3770300.38	19.61198		
384714.49	3770294.23	11.43791	384724.12
3770296.50	12.43902		
384733.75	3770298.77	13.24016	384743.38
3770301.04	13.85653		
384753.01	3770303.31	14.26709	384762.64
3770305.58	14.42939		
384772.27	3770307.85	14.34859	384781.90
3770310.12	13.85769		
384712.20	3770303.96	8.67927	384721.83
3770306.23	9.38060		
384731.46	3770308.50	9.94942	384741.09
3770310.77	10.38718		
384750.72	3770313.04	10.71123	384760.35
3770315.31	10.86449		
384769.98	3770317.58	10.80098	384560.00
3770100.00	1.14617		
384580.00	3770100.00	1.35105	384600.00
3770100.00	1.60707		
384620.00	3770100.00	1.92900	384640.00
3770100.00	2.33853		
384940.00	3770100.00	2.15883	384960.00
3770100.00	1.77527		
384560.00	3770120.00	1.24158	384580.00
3770120.00	1.48343		
384600.00	3770120.00	1.79850	384620.00
3770120.00	2.20917		
384640.00	3770120.00	2.76654	384920.00
3770120.00	3.32967		
384940.00	3770120.00	2.60954	384960.00
3770120.00	2.08615		
384560.00	3770140.00	1.32736	384580.00
3770140.00	1.60819		
384600.00	3770140.00	1.95906	384620.00
3770140.00	2.47336		
384640.00	3770140.00	3.25208	384900.00
3770140.00	5.65612		
384920.00	3770140.00	4.06347	384940.00
3770140.00	3.09557		
384960.00	3770140.00	2.42390	384560.00
3770160.00	1.39614		

384580.00	3770160.00	1.65627	384600.00
3770160.00	2.05556		
384620.00	3770160.00	2.62945	384640.00
3770160.00	3.64044		
384900.00	3770160.00	7.06274	384920.00
3770160.00	4.85717		
384940.00	3770160.00	3.58889	384960.00
3770160.00	2.76537		
384560.00	3770180.00	1.40226	384580.00
3770180.00	1.68353		
384600.00	3770180.00	2.13176	384620.00
3770180.00	2.79016		
384640.00	3770180.00	3.85890	384900.00
3770180.00	8.13077		
384920.00	3770180.00	5.49083	384940.00
3770180.00	4.01170		
384960.00	3770180.00	3.07014	384560.00
3770200.00	1.39929		
384580.00	3770200.00	1.68100	384600.00
3770200.00	2.16423		
384620.00	3770200.00	2.87067	384640.00
3770200.00	4.05227		
384880.00	3770200.00	14.17321	384900.00
3770200.00	8.62468		
384920.00	3770200.00	5.91215	384940.00
3770200.00	4.31561		
384960.00	3770200.00	3.30392	384560.00
3770220.00	1.36859		
384580.00	3770220.00	1.65506	384600.00
3770220.00	2.17110		
384620.00	3770220.00	2.89787	384640.00
3770220.00	4.15819		

*** DISCRETE CARTESIAN RECEPTOR
POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD
(M)	Y-COORD (M)	CONC	
384880.00	3770220.00	13.69978	384900.00
3770220.00	8.61313		
384920.00	3770220.00	6.03021	384940.00
3770220.00	4.46391		
384960.00	3770220.00	3.43733	384560.00
3770240.00	1.31148		
384580.00	3770240.00	1.60631	384600.00
3770240.00	2.11438		

1111 Sunset Health Risk Assessment – AERMOD Output File

384620.00	3770240.00	2.78619	384880.00
3770240.00	12.45052		
384900.00	3770240.00	8.18334	384920.00
3770240.00	5.90145		
384940.00	3770240.00	4.45125	384960.00
3770240.00	3.46927		
384560.00	3770260.00	1.25299	384580.00
3770260.00	1.52435		
384600.00	3770260.00	1.99457	384620.00
3770260.00	2.60046		
384860.00	3770260.00	16.98616	384880.00
3770260.00	10.75556		
384900.00	3770260.00	7.48940	384920.00
3770260.00	5.56273		
384940.00	3770260.00	4.30816	384960.00
3770260.00	3.41366		
384560.00	3770280.00	1.17430	384580.00
3770280.00	1.44546		
384600.00	3770280.00	1.85157	384620.00
3770280.00	2.41218		
384840.00	3770280.00	20.41800	
(Please note, maximum impacted receptor (MEIR) for Construction and Operations occurs at different locations 384860.00 3770280.00 12.90707			
384880.00	3770280.00	9.03401	384900.00
3770280.00	6.61401		
384920.00	3770280.00	5.07955	384940.00
3770280.00	4.03896		
384960.00	3770280.00	3.28747	384560.00
3770300.00	1.11330		
384580.00	3770300.00	1.35482	384600.00
3770300.00	1.75215		
384620.00	3770300.00	2.31147	384820.00
3770300.00	17.53681		
384840.00	3770300.00	13.17393	384860.00
3770300.00	9.76977		
384880.00	3770300.00	7.39790	384900.00
3770300.00	5.68727		
384920.00	3770300.00	4.53729	384940.00
3770300.00	3.70397		
384960.00	3770300.00	3.08161	384560.00
3770320.00	0.97003		
384580.00	3770320.00	1.18593	384600.00
3770320.00	1.44402		
384620.00	3770320.00	1.95236	384800.00
3770320.00	10.69073		
384820.00	3770320.00	10.09114	384840.00
3770320.00	8.78678		
384860.00	3770320.00	7.32467	384880.00
3770320.00	5.93081		
384900.00	3770320.00	4.82969	384920.00
3770320.00	3.99632		
384940.00	3770320.00	3.34464	384960.00
3770320.00	2.82874		
384560.00	3770340.00	0.86625	384580.00
3770340.00	1.01619		
384600.00	3770340.00	1.26338	384620.00
3770340.00	1.71588		
384720.00	3770340.00	4.80456	384740.00
3770340.00	5.61287		
384760.00	3770340.00	6.29476	384780.00
3770340.00	6.68371		
384800.00	3770340.00	6.86453	384820.00
3770340.00	6.68212		
384840.00	3770340.00	6.19208	384860.00
3770340.00	5.51216		
384880.00	3770340.00	4.77165	384900.00
3770340.00	4.07653		
384920.00	3770340.00	3.47927	384940.00
3770340.00	2.97807		

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384960.00 3770340.00 2.55434 384560.00
3770360.00 0.79715
384580.00 3770360.00 0.94791 384600.00
3770360.00 1.16305
*** AERMOD - VERSION 21112 *** ***
C:\AERMOD\1111Sunset_3\1111Sunset_3.isc ***
09/16/21
*** AERMET - VERSION 16216 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

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*** THE PERIOD ( 43824 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: DPM ***
INCLUDING SOURCE(S): L0003463 ,
L0003464 , L0003465 , L0003466 , L0003467 ,
L0003468 , L0003469 , L0003470 , L0003471 ,
L0003472 , L0003473 , L0003474 , L0003475 ,
L0003476 , L0003477 , L0003478 , L0003479 ,
L0003480 , L0003481 , L0003482 , L0003483 ,
L0003484 , L0003485 , L0003486 , L0003487 ,
L0003488 , L0003489 , L0003490 , . . . ,

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*** DISCRETE CARTESIAN RECEPTOR
POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
384620.00	3770360.00	1.47558	384700.00
3770360.00	3.05013		
384720.00	3770360.00	3.55361	384740.00
3770360.00	4.04717		
384760.00	3770360.00	4.42297	384780.00
3770360.00	4.70976		
384800.00	3770360.00	4.82853	384820.00
3770360.00	4.76846		
384840.00	3770360.00	4.57493	384860.00
3770360.00	4.22079		
384880.00	3770360.00	3.79334	384900.00
3770360.00	3.38502		
384920.00	3770360.00	2.96810	384940.00
3770360.00	2.58942		
384960.00	3770360.00	2.26452	384560.00
3770380.00	0.74021		
384580.00	3770380.00	0.87245	384600.00
3770380.00	1.05561		
384620.00	3770380.00	1.28116	384700.00
3770380.00	2.39928		
384720.00	3770380.00	2.72914	384740.00
3770380.00	3.03489		
384760.00	3770380.00	3.28447	384780.00
3770380.00	3.49465		
384800.00	3770380.00	3.60057	384820.00
3770380.00	3.58702		
384840.00	3770380.00	3.49175	384860.00
3770380.00	3.30767		
384880.00	3770380.00	3.05580	384900.00
3770380.00	2.78810		
384920.00	3770380.00	2.49856	384940.00
3770380.00	2.21058		
384960.00	3770380.00	1.96965	384560.00
3770400.00	0.67970		
384580.00	3770400.00	0.80305	384600.00
3770400.00	0.94370		

1111 Sunset Health Risk Assessment – AERMOD Output File

				X-COORD (M)	Y-COORD (M)	CONC	X-COORD
				(M)	Y-COORD (M)	CONC	
384620.00	3770400.00	1.11794	384700.00				
3770400.00	1.91854						
384720.00	3770400.00	2.13535	384740.00				
3770400.00	2.33281						
384760.00	3770400.00	2.51300	384780.00				
3770400.00	2.68975						
384800.00	3770400.00	2.78313	384820.00				
3770400.00	2.79134						
384840.00	3770400.00	2.73369	384860.00				
3770400.00	2.64344						
384880.00	3770400.00	2.48752	384900.00				
3770400.00	2.29500						
384920.00	3770400.00	2.08988	384940.00				
3770400.00	1.88846						
384960.00	3770400.00	1.69906	384560.00				
3770420.00	0.60646						
384580.00	3770420.00	0.72224	384600.00				
3770420.00	0.84494						
384620.00	3770420.00	0.97526	384640.00				
3770420.00	1.11017						
384660.00	3770420.00	1.25669	384680.00				
3770420.00	1.40489						
384700.00	3770420.00	1.54875	384720.00				
3770420.00	1.70971						
384740.00	3770420.00	1.84322	384760.00				
3770420.00	1.98854						
384780.00	3770420.00	2.11232	384800.00				
3770420.00	2.19800						
384820.00	3770420.00	2.21331	384840.00				
3770420.00	2.18878						
384860.00	3770420.00	2.13381	384880.00				
3770420.00	2.03539						
384900.00	3770420.00	1.89653	384920.00				
3770420.00	1.75367						
384940.00	3770420.00	1.60467	384960.00				
3770420.00	1.47214						
384560.00	3770440.00	0.52143	384580.00				
3770440.00	0.64422						
384600.00	3770440.00	0.74484	384620.00				
3770440.00	0.85376						
384640.00	3770440.00	0.96132	384660.00				
3770440.00	1.07472						
384680.00	3770440.00	1.17029	384700.00				
3770440.00	1.26965						
*** AERMOD - VERSION 21112 *** ***							
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*** AERMET - VERSION 16216 *** ***							
*** 14:45:58							
PAGE 39							
*** MODELOPTs: CONC ELEV URBAN ADJ_U*							
*** THE PERIOD (43824 HRS) AVERAGE							
CONCENTRATION VALUES FOR SOURCE GROUP: DPM ***							
INCLUDING SOURCE(S): L0003463 ,							
L0003464 , L0003465 , L0003466 , L0003467 ,							
L0003468 , L0003469 , L0003470 , L0003471 ,							
L0003472 , L0003473 , L0003474 , L0003475 ,							
L0003476 , L0003477 , L0003478 , L0003479 ,							
L0003480 , L0003481 , L0003482 , L0003483 ,							
L0003484 , L0003485 , L0003486 , L0003487 ,							
L0003488 , L0003489 , L0003490 , ... ,							
*** DISCRETE CARTESIAN RECEPTOR							
POINTS ***							
** CONC OF DPM IN MICROGRAMS/M**3							

*** THE PERIOD (43824 HRS) AVERAGE							
CONCENTRATION VALUES FOR SOURCE GROUP: LOADING ***							

1111 Sunset Health Risk Assessment – AERMOD Output File

INCLUDING SOURCE(S): L0003576 ,
L0003577 , L0003578 , L0003579 , L0003580 ,
L0003581 , L0003582 , L0003583 ,

*** DISCRETE CARTESIAN RECEPTOR
POINTS ***

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

**

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

384716.79	3770284.49	5.56817	384726.42
3770286.76	6.25351		
384736.05	3770289.03	6.91729	384745.68
3770291.30	7.52226		
384755.31	3770293.57	8.10047	384764.94
3770295.84	8.75314		
384774.57	3770298.11	9.30013	384784.20
3770300.38	9.67371		
384714.49	3770294.23	4.78395	384724.12
3770296.50	5.31054		
384733.75	3770298.77	5.84995	384743.38
3770301.04	6.36847		
384753.01	3770303.31	6.81651	384762.64
3770305.58	7.24563		
384772.27	3770307.85	7.58494	384781.90
3770310.12	7.76892		
384712.20	3770303.96	4.13735	384721.83
3770306.23	4.54667		
384731.46	3770308.50	4.96326	384741.09
3770310.77	5.37445		
384750.72	3770313.04	5.74221	384760.35
3770315.31	5.98961		
384769.98	3770317.58	6.22398	384560.00
3770100.00	0.87347		
384580.00	3770100.00	1.01031	384600.00
3770100.00	1.17573		
384620.00	3770100.00	1.37557	384640.00
3770100.00	1.61905		
384940.00	3770100.00	2.36152	384960.00
3770100.00	1.98253		
384560.00	3770120.00	0.92932	384580.00
3770120.00	1.08477		
384600.00	3770120.00	1.27947	384620.00
3770120.00	1.52036		
384640.00	3770120.00	1.82859	384920.00
3770120.00	3.61278		
384940.00	3770120.00	2.93760	384960.00
3770120.00	2.39296		
384560.00	3770140.00	0.97649	384580.00
3770140.00	1.15432		
384600.00	3770140.00	1.37626	384620.00
3770140.00	1.66965		
384640.00	3770140.00	2.04921	384900.00
3770140.00	6.02088		
384920.00	3770140.00	4.64161	384940.00
3770140.00	3.65217		
384960.00	3770140.00	2.89413	384560.00
3770160.00	1.01486		
384580.00	3770160.00	1.18280	384600.00
3770160.00	1.41958		
384620.00	3770160.00	1.74528	384640.00
3770160.00	2.24615		
384900.00	3770160.00	8.37602	384920.00
3770160.00	6.06456		
384940.00	3770160.00	4.53728	384960.00
3770160.00	3.48537		

384560.00	3770180.00	1.02117	384580.00
3770180.00	1.18936		
384600.00	3770180.00	1.44899	384620.00
3770180.00	1.80721		
384640.00	3770180.00	2.34036	384900.00
3770180.00	11.54388		
384920.00	3770180.00	7.71448	384940.00
3770180.00	5.50764		
384960.00	3770180.00	4.11454	384560.00
3770200.00	1.01270		
384580.00	3770200.00	1.17775	384600.00
3770200.00	1.45043		
384620.00	3770200.00	1.82031	384640.00
3770200.00	2.38108		
384880.00	3770200.00	27.26394	384900.00
3770200.00	14.86571		
384920.00	3770200.00	9.35979	384940.00
3770200.00	6.40291		
384960.00	3770200.00	4.68768	384560.00
3770220.00	0.98974		
384580.00	3770220.00	1.15498	384600.00
3770220.00	1.44320		
384620.00	3770220.00	1.81004	384640.00
3770220.00	2.37790		
*** AERMOD - VERSION 21112 *** ***			
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*** AERMET - VERSION 16216 *** ***			
*** 14:45:58			

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: LOADING ***
INCLUDING SOURCE(S): L0003576 ,
L0003577 , L0003578 , L0003579 , L0003580 ,
L0003581 , L0003582 , L0003583 ,

*** DISCRETE CARTESIAN RECEPTOR
POINTS ***

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD
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384880.00	3770220.00	34.38059	384900.00
3770220.00	16.69188		
384920.00	3770220.00	10.23769	384940.00
3770220.00	6.97292		
384960.00	3770220.00	5.06530	384560.00
3770240.00	0.95109		
384580.00	3770240.00	1.12174	384600.00
3770240.00	1.40289		
384620.00	3770240.00	1.73567	384880.00
3770240.00	28.49077		
384900.00	3770240.00	15.67418	384920.00
3770240.00	10.07617		
384940.00	3770240.00	7.03237	384960.00
3770240.00	5.17800		
384560.00	3770260.00	0.91328	384580.00
3770260.00	1.07108		
384600.00	3770260.00	1.33267	384620.00
3770260.00	1.63337		
384860.00	3770260.00	29.64304	384880.00
3770260.00	19.83573		

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384900.00 3770260.00 12.98645 384920.00
3770260.00 9.08264
384940.00 3770260.00 6.64261 384960.00
3770260.00 5.02890
384560.00 3770280.00 0.86384 384580.00
3770280.00 1.02702
384600.00 3770280.00 1.25287 384620.00
3770280.00 1.53910
384840.00 3770280.00 19.96021 384860.00
3770280.00 17.58583
384880.00 3770280.00 13.93427 384900.00
3770280.00 10.23611
384920.00 3770280.00 7.73225 384940.00
3770280.00 5.96038
384960.00 3770280.00 4.72937 384560.00
3770300.00 0.82629
384580.00 3770300.00 0.97293 384600.00
3770300.00 1.21500
384620.00 3770300.00 1.49331 384820.00
3770300.00 12.00917
384840.00 3770300.00 12.18602 384860.00
3770300.00 11.49120
384880.00 3770300.00 9.95552 384900.00
3770300.00 7.97164
384920.00 3770300.00 6.40508 384940.00
3770300.00 5.20896
384960.00 3770300.00 4.32878 384560.00
3770320.00 0.73361
384580.00 3770320.00 0.87259 384600.00
3770320.00 1.02705
384620.00 3770320.00 1.33363 384800.00
3770320.00 7.25518
384820.00 3770320.00 7.92259 384840.00
3770320.00 8.11850
384860.00 3770320.00 7.91226 384880.00
3770320.00 7.23908
384900.00 3770320.00 6.26400 384920.00
3770320.00 5.32327
384940.00 3770320.00 4.50875 384960.00
3770320.00 3.83760
384560.00 3770340.00 0.66593 384580.00
3770340.00 0.76253
384600.00 3770340.00 0.92014 384620.00
3770340.00 1.20208
384720.00 3770340.00 2.98904 384740.00
3770340.00 3.55649
384760.00 3770340.00 4.10283 384780.00
3770340.00 4.63132
384800.00 3770340.00 5.16114 384820.00
3770340.00 5.55162
384840.00 3770340.00 5.76630 384860.00
3770340.00 5.73169
384880.00 3770340.00 5.42705 384900.00
3770340.00 4.94386
384920.00 3770340.00 4.38564 384940.00
3770340.00 3.83291
384960.00 3770340.00 3.31469 384560.00
3770360.00 0.62199
384580.00 3770360.00 0.72424 384600.00
3770360.00 0.86350
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09/16/21
*** AERMET - VERSION 16216 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

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*** THE PERIOD ( 43824 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: LOADING ***
INCLUDING SOURCE(S): L0003576 ,
L0003577 , L0003578 , L0003579 , L0003580 ,
L0003581 , L0003582 , L0003583 ,

*** DISCRETE CARTESIAN RECEPTOR
POINTS ***

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

X-COORD (M) Y-COORD (M) CONC X-COORD
(M) Y-COORD (M) CONC
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384620.00 3770360.00 1.07062 384700.00
3770360.00 2.04910
384720.00 3770360.00 2.40673 384740.00
3770360.00 2.80139
384760.00 3770360.00 3.12809 384780.00
3770360.00 3.53326
384800.00 3770360.00 3.84730 384820.00
3770360.00 4.10807
384840.00 3770360.00 4.29478 384860.00
3770360.00 4.28759
384880.00 3770360.00 4.11839 384900.00
3770360.00 3.89397
384920.00 3770360.00 3.53666 384940.00
3770360.00 3.16006
384960.00 3770360.00 2.80673 384560.00
3770380.00 0.58740
384580.00 3770380.00 0.67729 384600.00
3770380.00 0.80544
384620.00 3770380.00 0.95460 384700.00
3770380.00 1.71280
384720.00 3770380.00 1.96093 384740.00
3770380.00 2.20297
384760.00 3770380.00 2.46130 384780.00
3770380.00 2.75280
384800.00 3770380.00 2.98299 384820.00
3770380.00 3.16504
384840.00 3770380.00 3.29571 384860.00
3770380.00 3.32507
384880.00 3770380.00 3.24235 384900.00
3770380.00 3.09262
384920.00 3770380.00 2.86563 384940.00
3770380.00 2.59653
384960.00 3770380.00 2.35325 384560.00
3770400.00 0.54648
384580.00 3770400.00 0.63437 384600.00
3770400.00 0.73982
384620.00 3770400.00 0.85092 384700.00
3770400.00 1.42955
384720.00 3770400.00 1.58594 384740.00
3770400.00 1.76014
384760.00 3770400.00 1.94758 384780.00
3770400.00 2.18035
384800.00 3770400.00 2.36606 384820.00
3770400.00 2.50284
384840.00 3770400.00 2.59093 384860.00
3770400.00 2.64110
384880.00 3770400.00 2.60048 384900.00
3770400.00 2.49048
384920.00 3770400.00 2.33545 384940.00
3770400.00 2.15731
384960.00 3770400.00 1.97208 384560.00
3770420.00 0.49591
384580.00 3770420.00 0.58078 384600.00
3770420.00 0.67274

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384620.00 3770420.00 0.75979 384640.00
3770420.00 0.85714
384660.00 3770420.00 0.96828 384680.00
3770420.00 1.08307
384700.00 3770420.00 1.18025 384720.00
3770420.00 1.31315
384740.00 3770420.00 1.42984 384760.00
3770420.00 1.58533
384780.00 3770420.00 1.74786 384800.00
3770420.00 1.90128
384820.00 3770420.00 2.00506 384840.00
3770420.00 2.07989
384860.00 3770420.00 2.12155 384880.00
3770420.00 2.10516
384900.00 3770420.00 2.02722 384920.00
3770420.00 1.92401
384940.00 3770420.00 1.79569 384960.00
3770420.00 1.67217
384560.00 3770440.00 0.43103 384580.00
3770440.00 0.52572
384600.00 3770440.00 0.60492 384620.00
3770440.00 0.68031
384640.00 3770440.00 0.76078 384660.00
3770440.00 0.85130
384680.00 3770440.00 0.91745 384700.00
3770440.00 0.99352
*** AERMOD - VERSION 21112 *** ***
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09/16/21
*** AERMET - VERSION 16216 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: LOADING ***
INCLUDING SOURCE(S): L0003576 ,
L0003577 , L0003578 , L0003579 , L0003580 ,
L0003581 , L0003582 , L0003583 ,

*** DISCRETE CARTESIAN RECEPTOR
POINTS ***

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD
(M)	Y-COORD (M)	CONC	
384720.00	3770440.00	1.09583	384740.00
3770440.00	1.18667		
384760.00	3770440.00	1.29988	384780.00
3770440.00	1.41881		
384800.00	3770440.00	1.54405	384820.00
3770440.00	1.63472		
384840.00	3770440.00	1.68779	384860.00
3770440.00	1.72696		
384880.00	3770440.00	1.73321	384900.00
3770440.00	1.67344		
384920.00	3770440.00	1.59990	384940.00
3770440.00	1.51640		
384960.00	3770440.00	1.42914	384560.00
3770460.00	0.38402		
384580.00	3770460.00	0.47340	384600.00
3770460.00	0.54692		
384620.00	3770460.00	0.61122	384640.00
3770460.00	0.67823		

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384660.00 3770460.00 0.75300 384680.00
3770460.00 0.76922
384700.00 3770460.00 0.82956 384720.00
3770460.00 0.92291
384740.00 3770460.00 1.00623 384760.00
3770460.00 1.09556
384780.00 3770460.00 1.17932 384800.00
3770460.00 1.26923
384820.00 3770460.00 1.35415 384840.00
3770460.00 1.39683
384860.00 3770460.00 1.43189 384880.00
3770460.00 1.43744
384900.00 3770460.00 1.40651 384920.00
3770460.00 1.34628
384940.00 3770460.00 1.28785 384960.00
3770460.00 1.21868
384560.00 3770480.00 0.35478 384580.00
3770480.00 0.43516
384600.00 3770480.00 0.49602 384620.00
3770480.00 0.55082
384640.00 3770480.00 0.60729 384660.00
3770480.00 0.66606
384680.00 3770480.00 0.64848 384700.00
3770480.00 0.70551
384720.00 3770480.00 0.78079 384740.00
3770480.00 0.85786
384760.00 3770480.00 0.92853 384780.00
3770480.00 1.00624
384800.00 3770480.00 1.06113 384820.00
3770480.00 1.12643
384840.00 3770480.00 1.16988 384860.00
3770480.00 1.19097
384880.00 3770480.00 1.19714 384900.00
3770480.00 1.18963
384920.00 3770480.00 1.14623 384940.00
3770480.00 1.09980
384960.00 3770480.00 1.05535
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C:\AERMOD\1111Sunset_3\1111Sunset_3.isc ***
09/16/21
*** AERMET - VERSION 16216 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

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

**

NETWORK
GROUP ID AVERAGE CONC RECEPTOR (XR,
YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

DPM 1ST HIGHEST VALUE IS 20.41800 AT (384840.00,
3770280.00, 131.25, 183.69, 0.00) DC
2ND HIGHEST VALUE IS 20.28464 AT (384764.94,
3770295.84, 130.62, 183.69, 0.00) DC
3RD HIGHEST VALUE IS 20.17135 AT (384774.57,
3770298.11, 130.62, 183.69, 0.00) DC
4TH HIGHEST VALUE IS 20.08676 AT (384755.31,
3770293.57, 130.67, 183.69, 0.00) DC
5TH HIGHEST VALUE IS 19.61198 AT (384784.20,
3770300.38, 130.97, 183.69, 0.00) DC

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6TH HIGHEST VALUE IS 19.58196 AT (384745.68,
3770291.30, 130.12, 183.69, 0.00) DC
7TH HIGHEST VALUE IS 18.74195 AT (384736.05,
3770289.03, 129.23, 183.69, 0.00) DC
8TH HIGHEST VALUE IS 17.53681 AT (384820.00,
3770300.00, 132.22, 183.69, 0.00) DC
9TH HIGHEST VALUE IS 17.52078 AT (384726.42,
3770286.76, 127.79, 183.69, 0.00) DC
10TH HIGHEST VALUE IS 16.98616 AT (384860.00,
3770260.00, 129.59, 183.69, 0.00) DC

LOADING 1ST HIGHEST VALUE IS 34.38059 AT (384880.00,
3770220.00, 125.84, 183.69, 0.00) DC
2ND HIGHEST VALUE IS 29.64304 AT (384860.00,
3770260.00, 129.59, 183.69, 0.00) DC
3RD HIGHEST VALUE IS 28.49077 AT (384880.00,
3770240.00, 127.71, 183.69, 0.00) DC
4TH HIGHEST VALUE IS 27.26394 AT (384880.00,
3770200.00, 124.07, 183.69, 0.00) DC
5TH HIGHEST VALUE IS 19.96021 AT (384840.00,
3770280.00, 131.25, 183.69, 0.00) DC
6TH HIGHEST VALUE IS 19.83573 AT (384880.00,
3770260.00, 128.72, 183.69, 0.00) DC
7TH HIGHEST VALUE IS 17.58583 AT (384860.00,
3770280.00, 130.70, 183.69, 0.00) DC
8TH HIGHEST VALUE IS 16.69188 AT (384900.00,
3770220.00, 124.81, 183.69, 0.00) DC
9TH HIGHEST VALUE IS 15.67418 AT (384900.00,
3770240.00, 125.56, 183.69, 0.00) DC
10TH HIGHEST VALUE IS 14.86571 AT (384900.00,
3770200.00, 123.97, 183.69, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR

DC = DISCCART

DP = DISCPOLR

*** AERMOD - VERSION 21112 *** **

C:\AERMOD\1111Sunset_3\1111Sunset_3.isc ***
09/16/21

*** AERMET - VERSION 16216 *** **

*** 14:45:58

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*** MODELOPTs: CONC ELEV URBAN ADJ_U*

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

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

A Total of 0 Fatal Error Message(s)
A Total of 4 Warning Message(s)
A Total of 808 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 4 Calm Hours Identified

A Total of 804 Missing Hours Identified (1.83 Percent)

***** FATAL ERROR MESSAGES *****

*** NONE ***

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

ME W186 812 MEOPEN: THRESH_1MIN 1-min ASOS wind
speed threshold used 0.50

ME W187 812 MEOPEN: ADJ_U* Option for Stable Low Winds
used in AERMET

MX W450 17521 CHKDAT: Record Out of Sequence in
Meteorological File at: 14010101

MX W450 17521 CHKDAT: Record Out of Sequence in
Meteorological File at: 2 year gap

*** AERMOD Finishes Successfully ***

Appendix D

MATES IV Cancer Risk

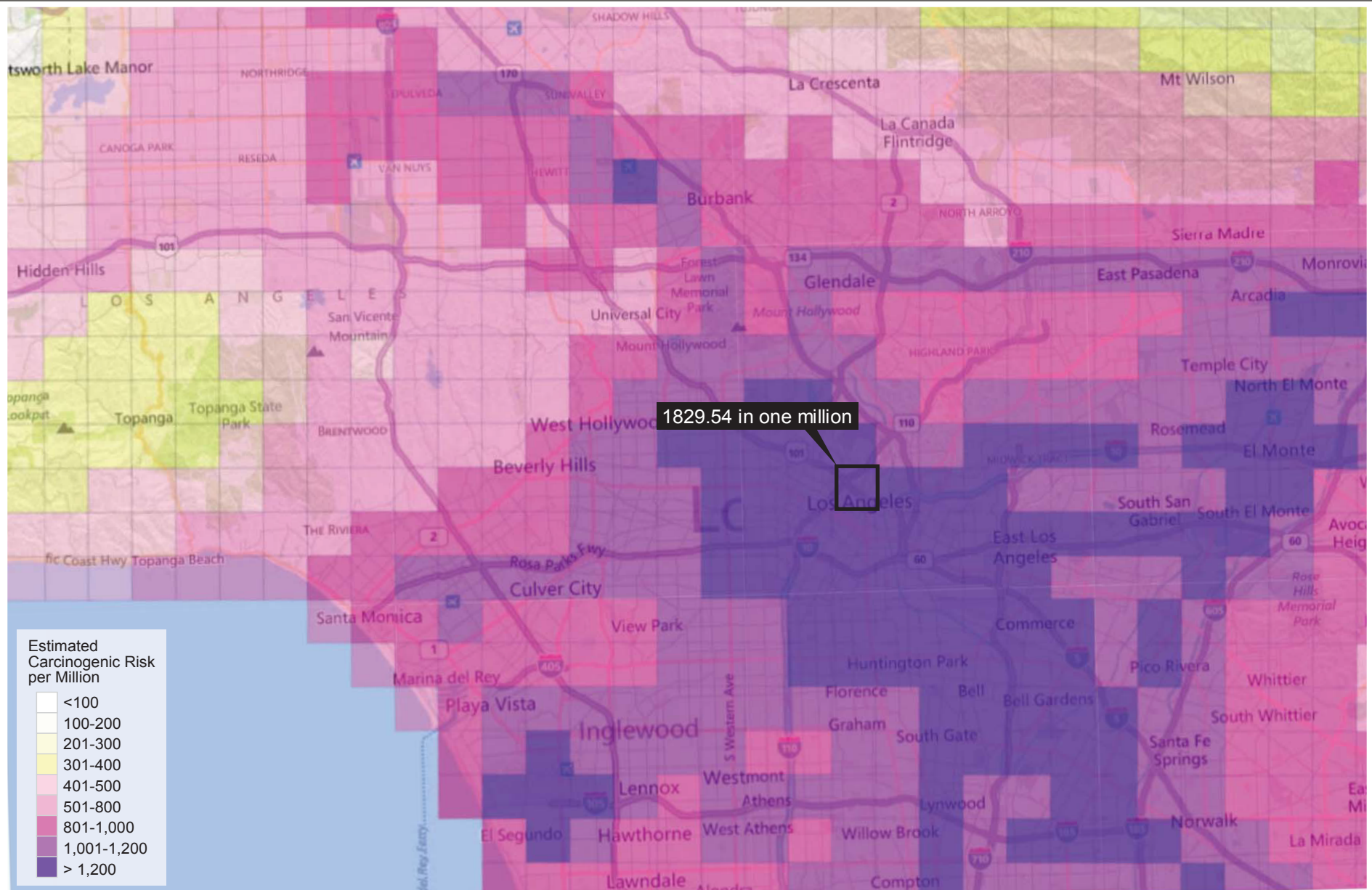


Figure IV.A-3
MATES IV Total Cancer Risk for Project Area