

**APPENDIX M:**  
**FREEWAY ADJACENT HEALTH RISK ASSESSMENT**

Pomeroy Environmental Services, Freeway Adjacent Health Risk  
Assessment, Bow Tie Lofts Project, May 2017.



# **Freeway Adjacent Health Risk Assessment**

## **Bow Tie Lofts Project**

**2750-2800 W. Casitas Avenue  
Los Angeles, California 90039**

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## INTRODUCTION & PROJECT OVERVIEW

The project site consists of an irregularly shaped area comprising approximately 5.7 acres at 2750-2800 Casitas Avenue in the Northeast Los Angeles Community Plan area of the City of Los Angeles (City). The project site and vicinity is relatively flat and is surrounded by urban development. The Glendale Freeway is located west of the project site, approximately 120 feet from the nearest travel lane and approximately 170 feet from the freeway centerline (see Figure 1, Project Location and Freeway Sources).

The project site is currently developed with a light industrial manufacturing facility and a surface parking lot. The Project proposes the demolition of the existing development and the construction of a mixed-use development that would consist of five buildings. The Proposed Project includes 419 multi-family residential units and 64,000 square feet of commercial space including restaurant, office, and urban farm. (see Figure 2, Conceptual Site Plan). The project proposes 720 parking spaces in a seven-story parking garage.

According to the Department of City Planning's Zone Information and Map Access System (ZIMAS), the Project Site is subject to the City's Zoning Information (ZI) NO. 2427.<sup>1</sup> This ZI is not a prohibition or moratorium on new development near freeways, but rather seeks to advise applicants of project sites located within 1,000 feet of freeways of the potential health risks on future building occupants sited near freeways. As a supplemental technical report, a Health Risk Assessment (HRA) can provide valuable information to applicants and the City in understanding any potential health risks associated with a project and guide in the design and incorporation of recommended strategies that lessen the effects of air pollution exposure. It should also be noted that California Supreme Court case law<sup>2</sup> has determined that agencies subject to the California Environmental Quality Act (CEQA) generally are not required to analyze or mitigate the impact of existing environmental conditions on a project's future users or residents. As such, this HRA has been prepared for informational purposes consistent with City<sup>3</sup> and State<sup>4</sup> policies.

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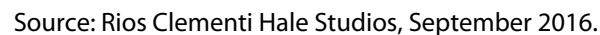
<sup>1</sup> ZI NO. 2427: Freeway Adjacent Advisory Notice For Sensitive Uses; following link accessed February 2017: <http://zimas.lacity.org/documents/zoneinfo/ZI2427.pdf>

<sup>2</sup> Supreme Court of California, *California Building Industry Association v. Bay Area Air Quality Management District* (2015), S213478, Ct.App. 1/5, A135335, A136212, Alameda County, Super. Ct. No. RG10548693.

<sup>3</sup> ZI NO. 2427: Freeway Adjacent Advisory Notice For Sensitive Uses; following link accessed February 2017: <http://zimas.lacity.org/documents/zoneinfo/ZI2427.pdf>

<sup>4</sup> California Air Resources Board, *Air Quality and Land Use Handbook*, April 2005.





## ENVIRONMENTAL SETTING

### Air Pollutants and Potential Health Effects

Certain air pollutants have been recognized to cause notable health problems and consequential damage to the environment either directly or in reaction with other pollutants, due to their presence in elevated concentrations in the atmosphere. Such pollutants have been identified and regulated as part of the overall endeavor to prevent further deterioration and facilitate improvement in air quality within the Air Basin. Both federal and state ambient air quality standards have been established for outdoor concentrations of these “criteria air pollutants” at levels considered safe to protect public health, including the health of “sensitive” populations, such as asthmatics, children, and the elderly, with a margin of safety; and to protect public welfare, including protection against decreased visibility and damage to animals, crops, vegetation, and buildings.

Air pollution studies have also shown an association between respiratory and other non-cancer health effects and proximity to major pollution sources such as freeways and high traffic roadways, rail yards, ports, refineries and gas stations that rises above the risks associated with regional air pollution in urban areas. Many of these studies have reported associations between residential proximity to high traffic roadways and a variety of respiratory symptoms, asthma exacerbations, and decreases in lung function in children. Other studies have shown that diesel exhaust and other cancer-causing chemicals emitted from cars and trucks are responsible for much of the overall cancer risk from airborne toxics in California.<sup>5</sup> The criteria air pollutants that are most relevant to current air quality planning and regulation in the Basin include ozone (O<sub>3</sub>), carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), respirable particulate matter (PM<sub>10</sub>), fine particulate matter (PM<sub>2.5</sub>), sulfur dioxide (SO<sub>2</sub>), and lead (Pb).<sup>6</sup> Toxic air contaminants (TACs) and greenhouse gas (GHG) emissions are also of concern in the Basin.

TACs refer to a diverse group of air pollutants that include both organic and inorganic chemical substances that may be emitted from a variety of common sources including gasoline stations, motor vehicles, dry cleaners, industrial operations, painting operations, and research and teaching facilities. TACs are typically found in low concentrations in ambient air, especially in urban areas. TACs are different than “criteria” pollutants in that ambient air quality standards have not been established for them, largely because there are hundreds of air toxics and their effects on health tend to be felt on a local scale rather than on a regional basis. TACs are regulated at the regional, state, and federal level, however, because chronic exposure can result in adverse health effects. TACs are known to cause or contribute to cancer or non-cancer health effects such as birth defects, genetic damage, and other adverse health effects. Effects from TACs may be both chronic (i.e., of long duration) and acute (i.e., severe but of short duration) on human health. Acute health effects are attributable to sudden exposure to high quantities of air toxics.

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<sup>5</sup> California Air Resources Board, *Air Quality and Land Use Handbook*, April 2005.

<sup>6</sup> South Coast Air Quality Management District, *CEQA Air Quality Handbook*, 1993.

These effects include nausea, skin irritation, respiratory illness, and, in some cases, death. Chronic health effects result from low-dose, long-term exposure from routine releases of air toxics. The effect of major concern for this type of exposure is cancer, which requires a period of 10 to 30 years after exposure to develop. Diesel exhaust is the predominant TAC in urban air and is estimated to represent about two-thirds of the cancer risk from TACs (based on the statewide average). According to the CARB, diesel exhaust is a complex mixture of gases, vapors, and fine particles. This complexity makes the evaluation of health effects of diesel exhaust a complex scientific issue. Some of the chemicals in diesel exhaust, including benzene, formaldehyde, acrolein, butadiene, and acetaldehyde have been previously identified as TACs by the ARB, and are listed as carcinogens either under the state's Proposition 65 or under the federal Hazardous Air Pollutants programs.

### Existing Air Quality

The SCAQMD divides the Basin into 38 source receptor areas ("SRA"), with 38 monitoring stations to monitor the various concentrations of air pollutants in the region. The Project Site is located within SRA 1, Central LA, which covers the central Los Angeles area. SCAQMD Station No. 087 collects ambient air quality data for SRA 1. This station monitors emission levels of O<sub>3</sub>, CO, NO<sub>2</sub>, SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>. Table 1, Summary of Ambient Air Quality in the Project Vicinity, identifies the federal and State ambient air quality standards for the relevant air pollutants, along with the ambient pollutant concentrations that were measured between 2013 and 2015.<sup>7</sup>

In addition to the pollutants outlined in Table 1, the Project Site vicinity is also subject to elevated TACs due to the proximity of the freeway and other TAC sources. As disclosed in the Multiple Air Toxics Exposure Study IV (MATES-IV), Carcinogenic Risk Interactive Map, the existing carcinogenic risk for the Project area is approximately 1,060 incidents per one million.<sup>8</sup> By comparison, the estimated population weighted risk across the Basin from the MATES IV Study is 367 per one million with the OEHHA 2003 calculation methodology. Applying the revised OEHHA (February 2015) methodology to the modeled air toxics levels, the MATES-IV estimated population weighed risk is 897 per million, an increase of about 2.5 times.

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<sup>7</sup> Most current air quality data available.

<sup>8</sup> MATES-IV Final Report, May 1, 2015. Website: <http://www.aqmd.gov/home/library/air-quality-data-studies/health-studies/mates-iv>

**Table 1**  
**Summary of Ambient Air Quality in the Project Vicinity**

| Air Pollutants Monitored Within SRA 1<br>Central Los Angeles Area                                                                                                                                                                                                                                                                                                                                                      | Year                    |                         |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                        | 2013                    | 2014                    | 2015                    |
| <b>O<sub>3</sub></b>                                                                                                                                                                                                                                                                                                                                                                                                   |                         |                         |                         |
| Maximum 1-hour concentration measured                                                                                                                                                                                                                                                                                                                                                                                  | 0.081 ppm               | 0.113 ppm               | 0.104 ppm               |
| Number of days exceeding national 0.12 ppm 1-hour standard                                                                                                                                                                                                                                                                                                                                                             | 0                       | 0                       | 0                       |
| Number of days exceeding State 0.09 ppm 1-hour standard                                                                                                                                                                                                                                                                                                                                                                | 0                       | 3                       | 2                       |
| Maximum 8-hour concentration measured                                                                                                                                                                                                                                                                                                                                                                                  | 0.069 ppm               | 0.094 ppm               | 0.074 ppm               |
| Number of days exceeding national 0.075 ppm 8-hour standard                                                                                                                                                                                                                                                                                                                                                            | 0                       | 2                       | 0                       |
| Number of days exceeding State 0.07 ppm 8-hour standard                                                                                                                                                                                                                                                                                                                                                                | 0                       | 7                       | 6                       |
| <b>CO</b>                                                                                                                                                                                                                                                                                                                                                                                                              |                         |                         |                         |
| Maximum 1-hour concentration measured                                                                                                                                                                                                                                                                                                                                                                                  | --                      | 3.0 ppm                 | 3.2 ppm                 |
| Maximum 8-hour concentration measured                                                                                                                                                                                                                                                                                                                                                                                  | 2.0 ppm                 | 2.0 ppm                 | 1.8 ppm                 |
| <b>NO<sub>2</sub></b>                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                         |                         |
| Maximum 1-hour concentration measured                                                                                                                                                                                                                                                                                                                                                                                  | 0.0903 ppm              | 0.0821 ppm              | 0.0791 ppm              |
| Annual average                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0218 ppm              | 0.0222 ppm              | 0.0222 ppm              |
| Does measured annual average exceed national 0.0534 ppm annual average standard?                                                                                                                                                                                                                                                                                                                                       | No                      | No                      | No                      |
| Does measured annual average exceed State 0.030 ppm annual average standard?                                                                                                                                                                                                                                                                                                                                           | No                      | No                      | No                      |
| <b>PM<sub>10</sub></b>                                                                                                                                                                                                                                                                                                                                                                                                 |                         |                         |                         |
| Maximum 24-hour concentration measured                                                                                                                                                                                                                                                                                                                                                                                 | 57 µg/m <sup>3</sup>    | 66 µg/m <sup>3</sup>    | 88 µg/m <sup>3</sup>    |
| Number of days exceeding national 150 µg/m <sup>3</sup> 24-hour standard                                                                                                                                                                                                                                                                                                                                               | 0                       | 0                       | 0                       |
| Number of days exceeding State 50 µg/m <sup>3</sup> 24-hour standard                                                                                                                                                                                                                                                                                                                                                   | 1                       | 3                       | 3                       |
| Annual Arithmetic Mean (AAM)                                                                                                                                                                                                                                                                                                                                                                                           | 29.5 µg/m <sup>3</sup>  | 30.6 µg/m <sup>3</sup>  | 33.1 µg/m <sup>3</sup>  |
| Does measured AAM exceed State 20 µg/m <sup>3</sup> AAM standard?                                                                                                                                                                                                                                                                                                                                                      | Yes                     | Yes                     | Yes                     |
| <b>PM<sub>2.5</sub></b>                                                                                                                                                                                                                                                                                                                                                                                                |                         |                         |                         |
| Maximum 24-hour concentration measured                                                                                                                                                                                                                                                                                                                                                                                 | 43.1 µg/m <sup>3</sup>  | 59.9 µg/m <sup>3</sup>  | 56.4 µg/m <sup>3</sup>  |
| Number of days exceeding national 35.0 µg/m <sup>3</sup> 24-hour standard                                                                                                                                                                                                                                                                                                                                              | 1                       | 6                       | 1                       |
| Annual Arithmetic Mean (AAM)                                                                                                                                                                                                                                                                                                                                                                                           | 11.95 µg/m <sup>3</sup> | 12.36 µg/m <sup>3</sup> | 12.38 µg/m <sup>3</sup> |
| Does measured AAM exceed national 15 µg/m <sup>3</sup> AAM standard?                                                                                                                                                                                                                                                                                                                                                   | No                      | No                      | No                      |
| Does measured AAM exceed State 12 µg/m <sup>3</sup> AAM standard?                                                                                                                                                                                                                                                                                                                                                      | No                      | Yes                     | Yes                     |
| <b>SO<sub>2</sub></b>                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                         |                         |
| Maximum 1-hour concentration measured                                                                                                                                                                                                                                                                                                                                                                                  | 0.0063 ppm              | 0.0054 ppm              | 0.0126 ppm              |
| <b>Pb</b>                                                                                                                                                                                                                                                                                                                                                                                                              |                         |                         |                         |
| Maximum 30-day average concentration measured                                                                                                                                                                                                                                                                                                                                                                          | 0.013 µg/m <sup>3</sup> | 0.013 µg/m <sup>3</sup> | 0.013 µg/m <sup>3</sup> |
| Maximum quarterly average concentration measured                                                                                                                                                                                                                                                                                                                                                                       | 0.011 µg/m <sup>3</sup> | 0.01 µg/m <sup>3</sup>  | 0.01 µg/m <sup>3</sup>  |
| Notes: ppm = parts by volume per million of air; µg/m <sup>3</sup> =micrograms per cubic meter; -- = data not available or not collected by the SCAQMD. Source: SCAQMD, Historical Data by Year, website: <a href="http://www.aqmd.gov/home/library/air-quality-data-studies/historical-data-by-year">http://www.aqmd.gov/home/library/air-quality-data-studies/historical-data-by-year</a> , accessed: February 2017. |                         |                         |                         |

## REGULATORY FRAMEWORK

### U.S. EPA

In addition to the criteria air pollutants for which there are National Ambient Air Quality Standards (NAAQS), U.S. EPA also regulates air toxics. Most air toxics originate from human-made sources, including on-road mobile sources, non-road mobile sources (e.g., airplanes), area sources (e.g., dry cleaners) and stationary sources (e.g., factories or refineries).

Mobile Source Air Toxics (MSATs) are a subset of the 188 air toxics defined by the Clean Air Act. The MSATs are compounds emitted from highway vehicles and non-road equipment. Some toxic compounds are present in fuel and are emitted to the air when the fuel evaporates or passes through the engine unburned. Other toxics are emitted from the incomplete combustion of fuels or as secondary combustion products. Metal air toxics also result from engine wear or from impurities in oil or gasoline.

The U.S. EPA is the lead Federal agency for administering the Clean Air Act and has certain responsibilities regarding the health effects of MSATs. In February 2007, the U.S. EPA finalized a rule to reduce hazardous air pollutants from mobile sources (*Control of Hazardous Air Pollutants from Mobile Sources, February 9, 2007*). The rule will limit the benzene content of gasoline and reduce toxic emissions from passenger vehicles and portable fuel containers (such as gas cans). The U.S. EPA estimates that in 2030 this rule would reduce total emissions of mobile source air toxics by 330,000 tons and VOC emissions (precursors to ozone and PM<sub>2.5</sub>) by over 1 million tons.

### State

#### **CARB**

The Air Resources Board (ARB), a part of the California Environmental Protection Agency (Cal/EPA), is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, the ARB conducts research, sets CAAQS, compiles emission inventories, develops suggested control measures, and provides oversight of local programs. The ARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hair spray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. The ARB also sets fuel specifications to further reduce vehicular emissions.

In its Air Quality and Land Use Handbook, CARB states, “Air pollution studies indicate that living close to high traffic and the associated emissions may lead to adverse health effects beyond those associated with regional air pollution in urban areas.”<sup>9</sup> The Air Quality and Land Use Handbook cites several studies linking

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<sup>9</sup> California Environmental Protection Agency, California Air Resources Board, *Air Quality and Land Use Handbook: A Community Health Perspective*, (2005).

adverse respiratory health effects (e.g., asthma) to proximity to roadways with heavy traffic densities, where the distances between the roadway and the receptors were 300 to 1,000 feet. Other studies suggest that such impacts diminish with distance, and a substantial benefit occurs if the separation distance is greater than 300 to 500 feet. The Air Quality and Land Use Handbook, which is intended to serve as a general reference guide for planning agencies to evaluate and reduce air pollution impacts associated with new projects that go through the land use decision-making process, contains general recommendations that may reduce potential health impacts by establishing a buffer zone or setback between sensitive land uses and sources of toxic air contaminants. Specifically, with respect to land uses located near freeways and other heavily traveled roadways, CARB recommends that lead agencies avoid citing new sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles per day, or rural roads with 50,000 vehicles per day.

## **Regional**

### **SCAQMD**

The SCAQMD is the agency principally responsible for comprehensive air pollution control in the Basin. To that end, the SCAQMD works directly with the Southern California Association of Governments (SCAG), county transportation commissions and local governments, and cooperates actively with all state and federal government agencies. The SCAQMD develops rules and regulations, establishes permitting requirements, inspects emissions sources, and provides regulatory enforcement through such measures as educational programs or fines, when necessary. Although the SCAQMD is responsible for regional air quality planning efforts, SCAQMD does not have the authority to directly regulate the air quality issues associated with plans and new development projects within the Basin. Instead, the SCAQMD has prepared the CEQA Air Quality Handbook to assist Lead Agencies, as well as consultants, project proponents, and other interested parties, in evaluating potential air quality impacts of projects and plans proposed in the Basin.

### **California Air Pollution Control Officers Association (CAPCOA)**

To provide consistency to lead agencies, project proponents and the general public throughout the state, the CAPCOA formed a subcommittee composed of representatives from the Planning Managers Committee and the Toxic Risk Managers Committee to develop guidance on assessing the health risk impacts from and to proposed land use projects. CAPCOA published [Health Risk Assessments for Proposed Land Use Projects](#) in 2009 as a guidance document that focuses on the acute, chronic, and cancer impacts affecting proposed land use development. It also outlines the recommended procedures to identify when a project should undergo further risk evaluation, how to conduct the HRA, how to engage the public, what to do with the results from the HRA, and what mitigation measures may be appropriate for various land use projects.

## Local

### **City of Los Angeles**

#### *City of Los Angeles Planning Commission Zoning Information File (ZI) NO. 2427*

With respect to freeway adjacent HRAs, effective November 8, 2012, the City of Los Angeles Planning Commission issued ZI NO. 2427,<sup>10</sup> a freeway adjacent advisory notice for sensitive uses. The Advisory Notice is relevant to all applicants filing a discretionary application for which the City Planning Commission is the initial decision-maker or the decision-maker on appeal. The Advisory Notice applies to the following types of discretionary applications: Conditional Use Permits granted by the CPC, Density Bonus, Public, Quasi-Public Open Space Land Use Categories, Zone Change, General Plan Amendment, Major Project Review/CUP, Tentative Tract Map, and Preliminary Parcel Map. As stated in the City's ZI NO. 2427 (page 5, item No. 1), the City Planning Commission advises that applicants of projects located in proximity of a freeway and contemplating residential units, schools, and other sensitive uses, perform a HRA as a supplemental technical report.

#### *Clean Up Green Up Ordinance (Ordinance 184,245)*

As part of its Clean UP Green UP campaign, the City Council adopted Ordinance 184,245 (effective June 2016) adding Sections 95.314.3 and 99.04.504.6 to the LAMC, and amending Section 99.05.504.5.3 of the LAMC to implement building standards and requirements to address cumulative health impacts resulting from incompatible land use patterns within the City. Section 99.04.504.6 of the LAMC requires mechanically ventilated buildings within 1,000 feet of a freeway to provide regularly occupied areas of the building with air filtration media for outside and return that provides a Minimum Efficiency Reporting Value (MERV) of 13.

## **HEALTH RISK ANALYSIS**

### **Air Quality Standards and Significance Thresholds**

At the federal level, the NAAQS are defined as the maximum acceptable concentration that may be reached, but not exceeded more than once per year. California has adopted more stringent ambient air quality standards for most of the criteria air pollutants. Table 2 presents both sets of ambient air quality standards (i.e., national and State) and the Basin's attainment status for each standard. As the agency principally responsible for comprehensive air pollution control in the Basin, the SCAQMD recommends that projects should be evaluated in terms of air pollution control thresholds established by the SCAQMD and published in the CEQA *Air Quality Handbook*. These thresholds were developed by the SCAQMD to

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<sup>10</sup> ZI NO. 2427: Freeway Adjacent Advisory Notice For Sensitive Uses; following link accessed February 2017:  
<http://zimas.lacity.org/documents/zoneinfo/ZI2427.pdf>

provide quantifiable levels to which projects can be compared. The most current significance thresholds are shown in Table 3, SCAQMD Air Quality Significance Thresholds.

**Table 2**  
**Ambient Air Quality Standards and Attainment Status for the South Coast Air Basin**

| Air Pollutant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Averaging Time | State Standard                          | Federal Standard                        | SCAQMD Attainment Status |                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------|-----------------------------------------|--------------------------|------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                                         |                                         | California Standard      | Federal Primary Standard                 |
| Ozone (O <sub>3</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 Hour         | 0.09 ppm<br>(180 µg/m <sup>3</sup> )    | Revoked                                 | Non-attainment           | Non-attainment<br>(Extreme)              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8 Hour         | 0.070 ppm<br>(137µg/m <sup>3</sup> )    | 0.075 ppm<br>(147µg/m <sup>3</sup> )    |                          |                                          |
| Carbon Monoxide (CO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 Hour         | 20.0 ppm<br>(23,000 µg/m <sup>3</sup> ) | 35.0 ppm<br>(40,000 µg/m <sup>3</sup> ) | Attainment               | Attainment<br>(Maintenance)              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8 Hour         | 9.0 ppm<br>(10,000 µg/m <sup>3</sup> )  | 9.0 ppm<br>(10,000 µg/m <sup>3</sup> )  |                          |                                          |
| Nitrogen Dioxide (NO <sub>2</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 Hour         | 0.18 ppm<br>(339 µg/m <sup>3</sup> )    | 0.10 ppm<br>(188 µg/m <sup>3</sup> )    | Attainment               | Unclassified/<br>Attainment              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Annual         | 0.03 ppm<br>(57 µg/m <sup>3</sup> )     | 0.0534 ppm<br>(100 µg/m <sup>3</sup> )  | Attainment               | Attainment<br>(Maintenance)              |
| Lead (Pb)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30 Day Avg.    | 1.5 µg/m <sup>3</sup>                   | --                                      | Attainment               | Non-attainment                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Calendar Qtr.  | --                                      | 1.5 µg/m <sup>3</sup>                   |                          |                                          |
| Sulfur Dioxide (SO <sub>2</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 Hour         | 0.25 ppm                                | 0.075 ppm                               | N/A                      | Pending<br>(Unclassified/<br>Attainment) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24 Hour        | 0.04 ppm                                | --                                      |                          |                                          |
| Particulate Matter 10<br>(PM <sub>10</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 24 Hour        | 50.0 µg/m <sup>3</sup>                  | 150.0 µg/m <sup>3</sup>                 | Non-attainment           | Attainment<br>(Maintenance)              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Annual         | 20.0 µg/m <sup>3</sup>                  | Revoked                                 |                          |                                          |
| Particulate Matter 2.5<br>(PM <sub>2.5</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 24 Hour        | --                                      | 35.0 µg/m <sup>3</sup>                  | Non-attainment           | Non-attainment<br>(Serious)              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Annual         | 12.0 µg/m <sup>3</sup>                  | 15.0 µg/m <sup>3</sup>                  |                          |                                          |
| Notes: ppm = parts by volume per million of air; µg/m <sup>3</sup> =micrograms per cubic meter<br>Sources: California Air Resources Board, Ambient Air Quality Standards: <a href="http://www.arb.ca.gov/research/aqqs/aqqs2.pdf">http://www.arb.ca.gov/research/aqqs/aqqs2.pdf</a><br>and SCAQMD, Air Quality Management Plan website: <a href="http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf?sfvrsn=2">http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf?sfvrsn=2</a> , accessed: February 2017. |                |                                         |                                         |                          |                                          |

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**Table 3**  
**SCAQMD Air Quality Significance Thresholds**

| Mass Daily Thresholds <sup>a</sup>                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                          |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Pollutant                                                                                                                                                                                                                                                                                                                                                                                                                | Construction                                                                                                                                                                                             | Operation      |
| NOx                                                                                                                                                                                                                                                                                                                                                                                                                      | 100 pounds/day                                                                                                                                                                                           | 55 pounds/day  |
| VOC <sup>b</sup>                                                                                                                                                                                                                                                                                                                                                                                                         | 75 pounds/day                                                                                                                                                                                            | 55 pounds/day  |
| PM <sub>10</sub>                                                                                                                                                                                                                                                                                                                                                                                                         | 150 pounds/day                                                                                                                                                                                           | 150 pounds/day |
| PM <sub>2.5</sub>                                                                                                                                                                                                                                                                                                                                                                                                        | 55 pounds/day                                                                                                                                                                                            | 55 pounds/day  |
| SO <sub>x</sub>                                                                                                                                                                                                                                                                                                                                                                                                          | 150 pounds/day                                                                                                                                                                                           | 150 pounds/day |
| CO                                                                                                                                                                                                                                                                                                                                                                                                                       | 550 pounds/day                                                                                                                                                                                           | 550 pounds/day |
| Lead                                                                                                                                                                                                                                                                                                                                                                                                                     | 3 pounds/day                                                                                                                                                                                             | 3 pounds/day   |
| Toxic Air Contaminants and Odor Thresholds                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                          |                |
| Toxic Air Contaminants (including carcinogens and non-carcinogens)                                                                                                                                                                                                                                                                                                                                                       | Maximum Incremental Cancer Risk ≥ 10 in 1 million<br>Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million)<br>Hazard Index ≥ 1.0 (project increment)                                       |                |
| Odor                                                                                                                                                                                                                                                                                                                                                                                                                     | Project creates an odor nuisance pursuant to SCAQMD Rule 402                                                                                                                                             |                |
| GHG                                                                                                                                                                                                                                                                                                                                                                                                                      | 10,000 MT/yr CO <sub>2</sub> eq for industrial facilities                                                                                                                                                |                |
| Ambient Air Quality for Criteria Pollutants <sup>c</sup>                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                          |                |
| NO <sub>2</sub><br><br>1-hour average<br>Annual arithmetic mean                                                                                                                                                                                                                                                                                                                                                          | SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards:<br>0.10 ppm (federal) <sup>d</sup><br>0.03 ppm (State)               |                |
| PM <sub>10</sub><br>24-hour average<br>Annual average                                                                                                                                                                                                                                                                                                                                                                    | 10.4 µg/m <sup>3</sup> (construction) <sup>e</sup> & 2.5 µg/m <sup>3</sup> (operation)<br>1.0 µg/m <sup>3</sup>                                                                                          |                |
| PM <sub>2.5</sub><br>24-hour average                                                                                                                                                                                                                                                                                                                                                                                     | 10.4 µg/m <sup>3</sup> (construction) <sup>e</sup> & 2.5 µg/m <sup>3</sup> (operation)                                                                                                                   |                |
| Sulfate<br>24-hour average                                                                                                                                                                                                                                                                                                                                                                                               | 25 µg/m <sup>3</sup> (state)                                                                                                                                                                             |                |
| CO<br><br>1-hour average<br>8-hour average                                                                                                                                                                                                                                                                                                                                                                               | SCAQMD is in attainment; project is significant if it causes or<br>Contributes to an exceedance of the following attainment standards:<br>20 ppm (state) and 25 ppm (federal)<br>9.0 ppm (state/federal) |                |
| <i>Notes: ppm = parts per million by volume; µg/m<sup>3</sup> = micrograms per cubic meter</i>                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                          |                |
| <sup>a</sup> Source: SCAQMD CEQA Handbook (SCAQMD, 1993).                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                          |                |
| <sup>b</sup> The definition of VOC includes ROG compounds and additional organic compounds not included in the definition of ROG. However, for the purposes of this evaluation, VOC and ROG will be considered synonymous.                                                                                                                                                                                               |                                                                                                                                                                                                          |                |
| <sup>c</sup> Ambient air quality thresholds for criteria pollutants based on SCAQMD Rule 1303, table A-2 unless otherwise stated.                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                          |                |
| <sup>d</sup> In January 2010, the U.S. EPA proposed a new 1-hour national air quality standard of 0.10 ppm for NO <sub>2</sub> , which is more stringent than the state's current 1-hour threshold of 0.18 ppm. For the purposes of conducting a conservative analysis, the more stringent national one-hour standard for NO <sub>2</sub> is used as a threshold in the evaluation of the Project's air quality impacts. |                                                                                                                                                                                                          |                |
| <sup>e</sup> Ambient air quality threshold based on SCAQMD Rule 403.                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                          |                |
| Source: SCAQMD CEQA Handbook (SCAQMD, 1993), SCAQMD Air Quality Significance Thresholds, website:<br><a href="http://aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2">http://aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2</a> accessed February 2017.                                                           |                                                                                                                                                                                                          |                |

## Methodology

### Source Identification

The California Department of Transportation (Caltrans), Division of Traffic Operations collects and maintains traffic volume counts for vehicles traversing the California state highway system. Consistent with SCAQMD recommendations, the roadway segments and lengths analyzed in this study was determined based on freeway segments located within an approximate 0.25-mile radius of the Project Site boundaries. Table 4 presents the annual average daily traffic volumes (AADT) and peak hour traffic volumes for the Glendale Freeway and associated ramp considered in this assessment. See also Figure 1 provided previously for freeway source locations.

**Table 4**  
**Freeway Traffic Volume**

| Source/Roadway Segment                                                                                                                                                                                                                                                                                                                                                                    | Post Mile | AADT    | Peak Hour |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|-----------|
| 1. Glendale Freeway (0.70-mile segment)                                                                                                                                                                                                                                                                                                                                                   | 15.143    | 162,000 | 14,600    |
| 2. On-Ramp from Fletcher Dr. (0.35-mile segment)                                                                                                                                                                                                                                                                                                                                          | 15.719    | 11,200  | 1,120     |
| Source: 2015 Traffic Volumes on the California State Highway System, California Department of Transportation, Division of Traffic Operations: <a href="http://www.traffic-counts.dot.ca.gov/">http://www.traffic-counts.dot.ca.gov/</a> . Year 2015 PDFs accessed February 2017. As peak hour ramp data was not available, this analysis assumes peak hour is 10 percent of AADT volumes. |           |         |           |

### Emissions Calculations

Vehicle emissions contribute significantly to localized concentrations of air contaminants. Typically, emissions generated from these sources are characterized by vehicle mix, the rate pollutants are generated during the course of travel (i.e., the speed of travel), and the number of vehicles traversing the roadway network. Based on the source parameters identified in Table 4, the CT-EMFAC2014<sup>11</sup> model was used to estimate emission totals for the following criteria pollutants: CO, NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>. CT-EMFAC2014 was also used to determine emissions of the following primary mobile source air toxics (MSATs): diesel particulate matter (DPM), formaldehyde, 1,3 butadiene, benzene, acrolein, acetaldehyde, and naphthalene. Appendix B to this assessment includes the detailed results for the CT-EMFAC2014 model scenarios.

<sup>11</sup> CT-EMFAC2014 models on-road vehicle emissions for criteria pollutants, mobile source air toxics (MSATs), and carbon dioxide (CO<sub>2</sub>). The tool's underlying data are based on the CARB EMFAC2014 on-road emissions model and CARB-supplied/EPA-supplied MSAT speciation factors. Website: [http://www.dot.ca.gov/hq/env/air/pages/ctemfac\\_license.htm](http://www.dot.ca.gov/hq/env/air/pages/ctemfac_license.htm)

### *Dispersion Modeling*

The AMS/EPA Regulatory Model (AERMOD) was utilized to quantify the concentrations of each identified pollutant at the Project Site. AERMOD is steady-state plume modeling system specially designed to support the EPA's regulatory modeling programs. AERMOD allows the user to conduct site-specific modeling with the use of various inputs including source types, receptor locations, terrain data, meteorological conditions, and much more. Consistent with SCAQMD recommendations, the roadway segments for this assessment were modeled as line sources represented by separated volume sources. Discrete receptors were placed on the Project Site boundaries and within the Project Site to represent ground-level receptors at the Project Site. Meteorological data for the Central Los Angeles area was imported from the SCAQMD online database. The terrain data for Los Angeles was applied from the USGS online database. When modeling NO<sub>2</sub>, AERMOD's regulatory default NO<sub>x</sub> to NO<sub>2</sub> conversion option was applied. Specifically, this analysis used the Tier 2 Ambient Ratio Method (ARM) with a 1-hour NO<sub>2</sub>/NO<sub>x</sub> ratio of 0.80. For all of the remaining details regarding the inputs and assumptions used in the dispersion modeling, please refer to Appendix C to this HRA, which includes the AERMOD output files.

### *Carcinogenic Risk Calculations*

OEHHA recommends that an exposure duration (residency time) of 30 years be used to estimate individual cancer risk for the maximally exposed individual resident (MEIR). OEHHA also recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans. Exposure durations of 9-years can also be evaluated for the MEIR to show the range of cancer risk based on residency periods. The 9- and 30-year exposures are chosen to coincide with U.S. EPA's estimates of the average (9 years) and high-end estimates (30 years) of residence time. Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. The cancer risk for a particular chemical of interest is based on the following:

$$\text{Cancer Risk} = S_i * C_i * \text{DBR} * A * \text{EF} * \text{ED}/\text{AT}$$

Where:

$S_i$  = Cancer Potency Factor for contaminant

$C_i$  = Concentration in the air of contaminant

DBR = Daily Breathing Rate

A = Inhalation Absorption Rate

EF = Exposure Frequency

ED = Exposure Duration

AT = Averaging Time

### *Non-Carcinogenic Risk Calculations*

Noncancer chronic inhalation impacts are calculated by dividing the annual average concentration by the Reference Exposure Level (REL) for that substance. The REL is defined as the concentration at which no adverse noncancer health effects are anticipated.

For a single substance, this result is called the Hazard Quotient (HQ). The following equation is used to calculate the HQ:

$$HQ = C_i / REL_i$$

Where:

$C_i$  = Concentration in the air of substance i

$REL_i$  = Chronic noncancer Reference Exposure Level for substance i

For multiple substances, the Hazard Index (HI) is calculated. The HI is calculated by summing the HQs from all substances that affect the same organ system.

The calculation for the acute noncancer impacts is similar to the procedure for chronic noncancer impacts. In most cases, for each substance, the acute HQ is the highest one-hour concentration divided by the acute REL for each substance. For the Proposed Project, acute 1-hour and acute 8-hour scenarios have been calculated, and HI have been summed for each applicable HQ and organ system. These calculation methodologies are based on the OEHHA Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments, February 2015 (adopted March 2015).

### ***Modeled Criteria Pollutant Results***

Based on the parameters and assumptions outlined above, Table 5 presents the estimated concentration at the Project Site's worst-case ground level location for each criteria pollutant and averaging time. As shown in Table 5, concentrations at the worst-case location due to freeway emissions for NO<sub>2</sub> (1-Hour), CO (1-hour and 8-hour), PM<sub>10</sub> (24-hour and annual), and PM<sub>2.5</sub> (24-hour and annual) would be below the ambient air quality state and national standards.

**Table 5**  
**Criteria Pollutant Summary**

| Pollutant                                                                 | Averaging Time | Concentration at Site Due to all Freeway Emissions ( $\mu\text{g}/\text{m}^3$ ) | State Standards ( $\mu\text{g}/\text{m}^3$ ) <sup>a</sup> | National Standards ( $\mu\text{g}/\text{m}^3$ ) <sup>a</sup> |
|---------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|
| NO <sub>2</sub>                                                           | 1-hour         | 77.45                                                                           | 339                                                       | 188                                                          |
| CO                                                                        | 1-hour         | 629.29                                                                          | 23,000                                                    | 40,000                                                       |
|                                                                           | 8-hour         | 96.15                                                                           | 10,000                                                    | 10,000                                                       |
| PM <sub>10</sub>                                                          | 24-hour        | 3.86                                                                            | 50                                                        | 150                                                          |
|                                                                           | Annual         | 2.53                                                                            | 20                                                        | --                                                           |
| PM <sub>2.5</sub>                                                         | 24-hour        | 1.62                                                                            | --                                                        | 35                                                           |
|                                                                           | Annual         | 1.09                                                                            | 12                                                        | 12                                                           |
| <sup>a</sup> State and national standards provided previously in Table 2. |                |                                                                                 |                                                           |                                                              |

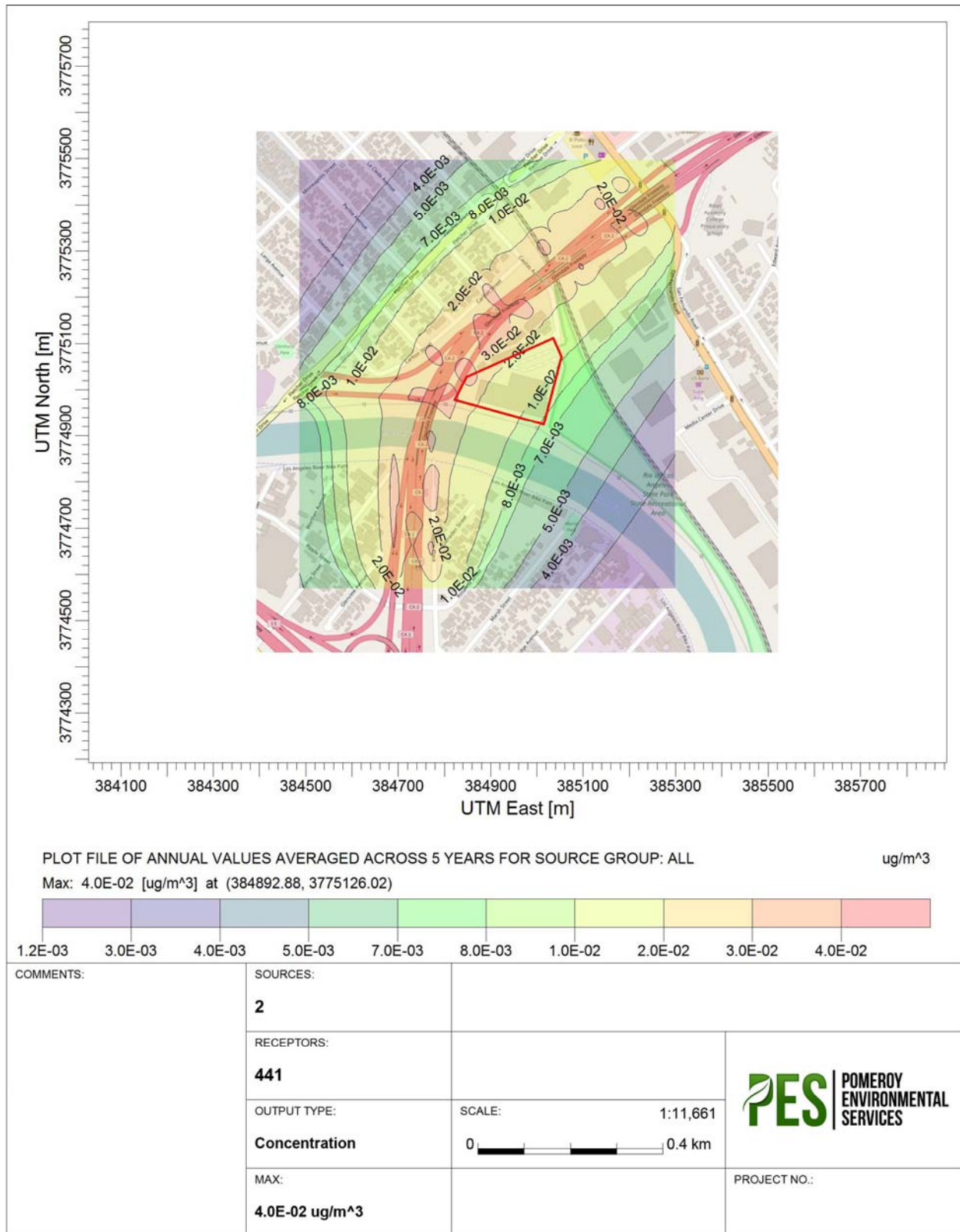
### **Carcinogenic Risk Results**

As shown in Table 6, the summation of carcinogenic risk from all primary MSATs (DPM, formaldehyde, 1,3 butadiene, benzene, acrolein, acetaldehyde, and naphthalene) for the worst-case ground level location at the Project Site totaled a carcinogenic risk of 2.69 per one million for the 9-year residential scenario, 5.99 per one million for the 30-year residential scenario, and 1.98 per one million for the 25-year worker scenario. Appendix A to this HRA provides a detailed breakdown of these calculations. As detailed in the calculations provided in Appendix A, DPM contributed approximately 72 percent of the identified carcinogenic risks. As such, Figure 3, Freeway DPM Contours, has been provided to illustrate the DPM contours from dispersion modeling for the Project Site and surrounding area.

**Table 6**  
**Summary of Carcinogenic Risks**

| Risk Scenario                                              | Carcinogenic Risk Per One Million |
|------------------------------------------------------------|-----------------------------------|
| 9-Year Residential Scenario                                | 2.69                              |
| 30-Year Residential Scenario                               | 5.99                              |
| 25-Year Worker Scenario                                    | 1.98                              |
| <i>See calculation worksheets presented in Appendix A.</i> |                                   |

Figure 3, Freeway DPM Contours



AERMOD View - Lakes Environmental Software

### **Non-Carcinogenic Health Risk Results**

To quantify non-carcinogenic health risks at the Project Site, the hazard index approach was used. This approach assumes that chronic sub-threshold exposures adversely affect a specific organ or organ system (toxicological endpoint). To calculate the hazard index, each chemical's concentration or dose is divided by the appropriate toxicity value. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total is equal to or exceeds one, a health hazard is presumed to exist. As detailed in Appendix A to this HRA, a maximum chronic hazard index of 0.02 would occur for the Project Site's worst-case location, which is below the SCAQMD recommended threshold of 1.0. For acute exposures, the maximum hazard indices for 1- and 8-hour averaging times totaled 0.21 and 0.05, respectively. These indices would also be under the SCAQMD recommended threshold of 1.0.

### **CONCLUSION AND RECOMMENDATIONS**

As stated above, the Project Site's worst-case ground level location would be exposed to carcinogenic risks below 10 per one million for the 9-year and 30-year residential scenarios, all acute and chronic health hazard indices would be under the SCAQMD recommended threshold of 1.0, and all criteria pollutants would be below the ambient air quality state and national standards. As such, no special project design features are warranted for the Project. Nevertheless, as required by the LAMC, the Project will include air filtration systems with filters meeting or exceeding the ASHRAE 52.2 Minimum Efficiency Reporting Value (MERV) of 13 pursuant to LAMC Section 99.04.504.6 for new ventilated buildings within 1,000 feet of a freeway (Ordinance 184245). As such, the Project would be consistent with the City of Los Angeles Planning Commission ZI NO. 2427 and the LAMC.

### **REFERENCES**

- AMS/EPA Regulatory Model (AERMOD)  
California Air Pollution Control Officers Association (CAPCOA)  
Health Risk Assessments for Proposed Land Use Project, Guidance Document, July 2009  
California Air Resources Board (CARB)  
Air Quality and Land Use Handbook, April 2005  
Ambient Air Quality Standards (<http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>)  
State Area Designation Maps (<http://www.arb.ca.gov/desig/adm/adm.htm>)  
California Department of Transportation (Caltrans)  
CT-EMFAC2014 ([http://www.dot.ca.gov/hq/env/air/pages/ctemfac\\_license.htm](http://www.dot.ca.gov/hq/env/air/pages/ctemfac_license.htm))  
Division of Traffic Operations (<http://www.traffic-counts.dot.ca.gov/>)  
California Office of Environmental Health Hazard Assessment (OEHHA)  
Air Toxics Hot Spots Program Guidance Manual for the Preparation of Risk, 2003 & 2015  
Hot Spots Unit Risk and Cancer Potency Values  
([http://www.oehha.ca.gov/air/hot\\_spots/2009/AppendixA.pdf](http://www.oehha.ca.gov/air/hot_spots/2009/AppendixA.pdf))  
Acute and Chronic REL Summary (<http://www.oehha.ca.gov/air/allrels.html>)  
City of Los Angeles, Department of City Planning

ZI NO. 2427: Freeway Adjacent Advisory Notice For Sensitive Uses;  
(<http://zimas.lacity.org/documents/zoneinfo/ZI2427.pdf>)

Google Earth, 2017

South Coast Air Quality Management District (SCAQMD)

Air Quality Significance Thresholds  
CEQA Air Quality Handbook, 1993  
Historical Data by Year  
Meteorological Data for AERMOD  
Modeling Guidance for AERMOD  
MATES IV Final Report, May 1, 2015.

## **APPENDIX A**

### **Carcinogenic Risk & Non-Carcinogenic Health Calculations**

**Carcinogenic Risks and Chronic Noncarcinogenic Hazards (Residential 30-Year Exposure)**

| Source         | Concentration |          | Weight Fraction | Contaminant   | Carcinogenic Risk           |                                 |                       | Chronic Noncarcinogenic Hazards/Toxicological Endpoints |          |          |       |      |       |          |      |
|----------------|---------------|----------|-----------------|---------------|-----------------------------|---------------------------------|-----------------------|---------------------------------------------------------|----------|----------|-------|------|-------|----------|------|
|                | (ug/m3)       | (mg/m3)  |                 |               | URF <sup>a</sup><br>(ug/m3) | CPF <sup>a</sup><br>(mg/kg/day) | RISK<br>(per million) | REL <sup>b</sup><br>(ug/m3)                             | RESP     | CV/BL    | IMMUN | KIDN | GI/LV | REPRO    | EYES |
| Freeways/Ramps | 1.62E-01      | 1.62E-04 | 3.70E-01        | Formaldehyde  | 6.00E-06                    | 2.10E-02                        | 1.56E-01              | 9.00E+00                                                | 6.66E-03 |          |       |      |       |          |      |
|                |               |          | 6.00E-02        | 1,3 Butadiene | 1.70E-04                    | 6.00E-01                        | 7.24E-01              | 2.00E+00                                                |          |          |       |      |       | 4.86E-03 |      |
|                |               |          | 3.90E-01        | Benzene       | 2.90E-05                    | 1.00E-01                        | 7.84E-01              | 3.00E+00                                                |          | 2.11E-02 |       |      |       |          |      |
|                |               |          | 1.00E-02        | Acrolein      | N/A                         | N/A                             | 0.00E+00              | 3.50E-01                                                | 4.63E-03 |          |       |      |       |          |      |
|                |               |          | 1.40E-01        | Acetaldehyde  | 2.70E-06                    | 1.00E-02                        | 2.81E-02              | 1.40E+02                                                | 1.62E-04 |          |       |      |       |          |      |
|                | 3.15E-02      | 3.15E-05 | 1.00E+00        | DPM           | 3.00E-04                    | 1.10E+00                        | 4.30E+00              | 5.00E+00                                                | 6.30E-03 |          |       |      |       |          |      |
| Totals         |               |          |                 |               |                             |                                 | 5.99E+00              | Totals                                                  | 1.78E-02 | 2.11E-02 |       |      |       | 4.86E-03 |      |

<sup>a</sup> [http://www.oehha.ca.gov/air/hot\\_spots/2009/AppendixA.pdf](http://www.oehha.ca.gov/air/hot_spots/2009/AppendixA.pdf)

<sup>b</sup> <http://www.oehha.ca.gov/air/allrels.html>

Assumptions

|                             |                                |
|-----------------------------|--------------------------------|
| Daily Breathing Rate        | 302 L/kg-day (80th percentile) |
| Inhalation Absorbption Rate | 1                              |
| Exposure Frequency          | 350 days                       |
| Exposure Duration           | 30 years                       |
| Averaging Time              | 25,550 days                    |

Toxicological Endpoints

|         |                                   |
|---------|-----------------------------------|
| RESP    | Respiratory System                |
| CNS/PNS | Central/Peripheral Nervous System |
| CV/BL   | Cardiovascular/Blood System       |
| IMMUN   | Immune System                     |
| KIDN    | Kidney                            |
| GI/LV   | Gastrointestinal System/Liver     |
| REPRO   | Reproductive System               |
| EYES    | Eye irritation                    |

**Carcinogenic Risks and Chronic Noncarcinogenic Hazards (Residential-Child 9-Year Exposure)**

| Source            | Concentration |          | Weight Fraction | Contaminant   | Carcinogenic Risk           |                                 |                       | Chronic Noncarcinogenic Hazards/Toxicological Endpoints |          |          |       |      |       |          |      |
|-------------------|---------------|----------|-----------------|---------------|-----------------------------|---------------------------------|-----------------------|---------------------------------------------------------|----------|----------|-------|------|-------|----------|------|
|                   | (ug/m3)       | (mg/m3)  |                 |               | URF <sup>a</sup><br>(ug/m3) | CPF <sup>a</sup><br>(mg/kg/day) | RISK<br>(per million) | REL <sup>b</sup><br>(ug/m3)                             | RESP     | CV/BL    | IMMUN | KIDN | GI/LV | REPRO    | EYES |
| 405 Freeway/Ramps | 1.62E-01      | 1.62E-04 | 3.70E-01        | Formaldehyde  | 6.00E-06                    | 2.10E-02                        | 7.01E-02              | 9.00E+00                                                | 6.66E-03 |          |       |      |       |          |      |
|                   |               |          | 6.00E-02        | 1,3 Butadiene | 1.70E-04                    | 6.00E-01                        | 3.25E-01              | 2.00E+00                                                |          |          |       |      |       | 4.86E-03 |      |
|                   |               |          | 3.90E-01        | Benzene       | 2.90E-05                    | 1.00E-01                        | 3.52E-01              | 3.00E+00                                                |          | 2.11E-02 |       |      |       |          |      |
|                   |               |          | 1.00E-02        | Acrolein      | N/A                         | N/A                             | 0.00E+00              | 3.50E-01                                                | 4.63E-03 |          |       |      |       |          |      |
|                   |               |          | 1.40E-01        | Acetaldehyde  | 2.70E-06                    | 1.00E-02                        | 1.26E-02              | 1.40E+02                                                | 1.62E-04 |          |       |      |       |          |      |
|                   |               |          | 2.00E-02        | Napthalene    | N/A                         | N/A                             | 0.00E+00              | 9.00E+00                                                | 3.60E-04 |          |       |      |       |          |      |
|                   | 3.15E-02      | 3.15E-05 | 9.90E-01        | DPM           | 3.00E-04                    | 1.10E+00                        | 1.93E+00              | 5.00E+00                                                | 6.30E-03 |          |       |      |       |          |      |
| Totals            |               |          |                 |               |                             |                                 | 2.69E+00              | Totals                                                  | 1.81E-02 | 2.11E-02 |       |      |       | 4.86E-03 |      |

<sup>a</sup> [http://www.oehha.ca.gov/air/hot\\_spots/2009/AppendixA.pdf](http://www.oehha.ca.gov/air/hot_spots/2009/AppendixA.pdf)

<sup>b</sup> <http://www.oehha.ca.gov/air/allrels.html>

Assumptions

Daily Breathing Rate            452 L/kg-day (Average rate for 9-yr duration; see Table 5.4 of OEHHA's Air Toxics Hot Spots Program Guidance Manual for Preparation of HRAs, August 2003)

Inhalation Absorbtion Rate    1

Exposure Frequency            350 days

Exposure Duration              9 years

Averaging Time                 25,550 days

Toxicological Endpoints

RESP                    Respiratory System

CNS/PNS              Central/Peripheral Nervous System

CV/BL                  Cardiovascular/Blood System

IMMUN                Immune System

KIDN                    Kidney

GI/LV                    Gastrointestinal System/Liver

REPRO                 Reproductive System

EYES                    Eye irritation

Acute Noncarcinogenic Hazards (1-Hour Exposure)

| Source         | Concentration<br>(ug/m3) | Weight<br>Fraction | Contaminant      | Acute Noncarcinogenic Hazards/Toxicological Endpoints |          |         |          |          |      |       |       |          |
|----------------|--------------------------|--------------------|------------------|-------------------------------------------------------|----------|---------|----------|----------|------|-------|-------|----------|
|                |                          |                    |                  | REL <sup>a</sup><br>(ug/m3)                           | RESP     | CNS/PNS | CV/BL    | IMMUN    | KIDN | GI/LV | REPRO | EYES     |
| Freeways/Ramps | 1.04E+01                 | 3.70E-01           | Formaldehyde     | 5.50E+01                                              |          |         |          |          |      |       |       | 7.00E-02 |
|                |                          | 3.90E-01           | Benzene          | 2.70E+01                                              |          |         | 1.50E-01 | 1.50E-01 |      |       |       |          |
|                |                          | 1.00E-02           | Acrolein         | 2.50E+00                                              | 4.16E-02 |         |          |          |      |       |       | 4.16E-02 |
|                |                          | 1.50E-01           | Acetaldehyde     | 4.70E+02                                              | 3.32E-03 |         |          |          |      |       |       | 3.32E-03 |
|                | 6.29E+02                 | 1.00E+00           | Carbon Monoxide  | 2.30E+04                                              |          |         | 2.73E-02 |          |      |       |       |          |
|                | 7.75E+01                 | 1.00E+00           | Nitrogen Dioxide | 4.70E+02                                              | 1.65E-01 |         |          |          |      |       |       |          |
| Totals         |                          |                    |                  |                                                       | 2.10E-01 |         | 1.78E-01 | 1.50E-01 |      |       |       | 1.15E-01 |

<sup>a</sup> <http://www.oehha.ca.gov/air/allrels.html>

Toxicological Endpoints

|         |                                   |
|---------|-----------------------------------|
| RESP    | Respiratory System                |
| CNS/PNS | Central/Peripheral Nervous System |
| CV/BL   | Cardiovascular/Blood System       |
| IMMUN   | Immune System                     |
| KIDN    | Kidney                            |
| GI/LV   | Gastrointestinal System/Liver     |
| REPRO   | Reproductive System               |
| EYES    | Eye irritation                    |

Acute Noncarcinogenic Hazards (8-Hour Exposure)

| Source         | Concentration<br>(ug/m3) | Weight<br>Fraction | Contaminant   | Acute Noncarcinogenic Hazards/Toxicological Endpoints |          |         |          |       |      |          |          |      |
|----------------|--------------------------|--------------------|---------------|-------------------------------------------------------|----------|---------|----------|-------|------|----------|----------|------|
|                |                          |                    |               | REL <sup>a</sup><br>(ug/m3)                           | RESP     | CNS/PNS | CV/BL    | IMMUN | KIDN | GI/LV    | REPRO    | EYES |
| Freeways/Ramps | 3.49E-01                 | 3.70E-01           | Formaldehyde  | 9.00E+00                                              | 1.43E-02 |         |          |       |      |          |          |      |
|                |                          | 6.00E-02           | 1,3 Butadiene | 9.00E+00                                              |          |         |          |       |      | 0.00E+00 |          |      |
|                |                          | 3.90E-01           | Benzene       | 3.00E+00                                              |          |         | 4.54E-02 |       |      |          |          |      |
|                |                          | 1.00E-02           | Acrolein      | 7.00E-01                                              | 4.99E-03 |         |          |       |      |          |          |      |
|                |                          | 1.40E-01           | Acetaldehyde  | 3.00E+02                                              | 1.63E-04 |         |          |       |      |          |          |      |
| Totals         |                          |                    |               | 1.95E-02                                              |          |         | 4.54E-02 |       |      |          | 0.00E+00 |      |

<sup>a</sup> <http://www.oehha.ca.gov/air/allrels.html>

Toxicological Endpoints

|         |                                   |
|---------|-----------------------------------|
| RESP    | Respiratory System                |
| CNS/PNS | Central/Peripheral Nervous System |
| CV/BL   | Cardiovascular/Blood System       |
| IMMUN   | Immune System                     |
| KIDN    | Kidney                            |
| GI/LV   | Gastrointestinal System/Liver     |
| REPRO   | Reproductive System               |
| EYES    | Eye irritation                    |

Carcinogenic Risks - 25 Year Worker

| Source  | Concentration |          | Weight Fraction | Contaminant   | Carcinogenic Risk           |                                 |                       |
|---------|---------------|----------|-----------------|---------------|-----------------------------|---------------------------------|-----------------------|
|         | (ug/m3)       | (mg/m3)  |                 |               | URF <sup>a</sup><br>(ug/m3) | CPF <sup>a</sup><br>(mg/kg/day) | RISK<br>(per million) |
| Freeway | 1.62E-01      | 1.62E-04 | 0.37            | Formaldehyde  | 6.00E-06                    | 2.10E-02                        | 5.12E-02              |
|         |               |          | 0.06            | 1,3 Butadiene | 1.70E-04                    | 6.00E-01                        | 2.37E-01              |
|         |               |          | 0.39            | Benzene       | 2.90E-05                    | 1.00E-01                        | 2.57E-01              |
|         |               |          | 0.01            | Acrolein      | 0.00E+00                    | 0.00E+00                        | 0.00E+00              |
|         |               |          | 0.14            | Acetaldehyde  | 2.70E-06                    | 1.00E-02                        | 9.23E-03              |
|         |               |          | 0.02            | Naphthalene   | 3.40E-05                    | 1.20E-01                        | 1.58E-02              |
|         | 3.15E-02      | 3.15E-05 | 1.00E+00        | DPM           | 3.00E-04                    | 1.10E+00                        | 1.41E+00              |
| Totals  |               |          |                 |               |                             |                                 | 1.98E+00              |

<sup>a</sup> [http://www.oehha.ca.gov/air/hot\\_spots/2009/AppendixA.pdf](http://www.oehha.ca.gov/air/hot_spots/2009/AppendixA.pdf) (updated 2011)

Assumptions (per OEHHA Guidance Manual for Preparation of HRAs, Appendix I, February 2015)

|                        |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| Daily Breathing Rate   | 170 L/kg-day (Average rate for an 8-hour work day for moderate intensity activities) |
| Inhalation Absorption  | 1                                                                                    |
| Exposure Frequency     | 245 days (5 days per week for 49 weeks per yr)                                       |
| Age Sensitivity Factor | 1                                                                                    |
| Exposure Duration      | 25 years                                                                             |
| Averaging Time         | 70 years (25,550 days)                                                               |

## **APPENDIX B**

### **Emission Factors**

Table 1: Emission Rate Summary

| Sources (Road Segments)                      | Traffic Volumes <sup>a</sup> |           | Pollutants           | Total Emissions (grams) <sup>b</sup> |           | Emission Rate (grams/sec) |           |
|----------------------------------------------|------------------------------|-----------|----------------------|--------------------------------------|-----------|---------------------------|-----------|
|                                              | Daily                        | Peak Hour |                      | Daily                                | Peak Hour | Daily Average             | Peak Hour |
| 1. Glendale Freeway<br>(0.70 miles)          | 162,000                      | 14,600    | DPM                  | 67.80                                | 22.20     | 7.85E-04                  | 6.17E-03  |
|                                              |                              |           | PM <sub>10</sub>     | 5,668.30                             | 635.10    | 6.56E-02                  | 1.76E-01  |
|                                              |                              |           | PM <sub>2.5</sub>    | 2,376.00                             | 329.00    | 2.75E-02                  | 9.14E-02  |
|                                              |                              |           | NO <sub>x</sub>      | 17,088.60                            | 3,479.10  | 1.98E-01                  | 9.66E-01  |
|                                              |                              |           | CO                   | 93,838.60                            | 21,758.20 | 1.09E+00                  | 6.04E+00  |
|                                              |                              |           | TOG/TAC <sup>c</sup> | 337.30                               | 360.90    | 3.90E-03                  | 1.00E-01  |
| 2. On-Ramp From Fletcher Dr.<br>(0.35 miles) | 11,200                       | 1,120     | DPM                  | 2.60                                 | 0.90      | 3.01E-05                  | 2.50E-04  |
|                                              |                              |           | PM <sub>10</sub>     | 197.80                               | 24.40     | 2.29E-03                  | 6.78E-03  |
|                                              |                              |           | PM <sub>2.5</sub>    | 83.80                                | 12.60     | 9.70E-04                  | 3.50E-03  |
|                                              |                              |           | NO <sub>x</sub>      | 619.50                               | 133.40    | 7.17E-03                  | 3.71E-02  |
|                                              |                              |           | CO                   | 4,040.60                             | 834.60    | 4.68E-02                  | 2.32E-01  |
|                                              |                              |           | TOG/TAC <sup>c</sup> | 15.80                                | 13.80     | 1.83E-04                  | 3.83E-03  |

<sup>a</sup> California Department of Transportation: <http://www.traffic-counts.dot.ca.gov/>; year 2015 PDFs accessed February 2017.

<sup>b</sup> Refer to inputs and results computed by CT-EMFAC2014

<sup>c</sup> Refer to Table 2 for a breakdown of the TOG/TACs considered in this analysis with respect to MSATs

Table 2: TOG/TAC Summary

| Sources (Road Segments)                      | TOG/TAC       | Total Emissions<br>(grams) |               | Weight Fractions |             |
|----------------------------------------------|---------------|----------------------------|---------------|------------------|-------------|
|                                              |               | Daily                      | Peak Hour     | Daily            | Peak Hour   |
| 1. Glendale Freeway<br>miles) (0.70          | Formaldehyde  | 125.50                     | 134.70        | 0.37             | 0.37        |
|                                              | 1,3 Butadiene | 21.10                      | 15.30         | 0.06             | 0.04        |
|                                              | Benzene       | 132.50                     | 140.70        | 0.39             | 0.39        |
|                                              | Acrolein      | 4.80                       | 3.30          | 0.01             | 0.01        |
|                                              | Acetaldehyde  | 45.90                      | 55.50         | 0.14             | 0.15        |
|                                              | Naphthalene   | 7.50                       | 11.40         | 0.02             | 0.03        |
|                                              | <i>Total</i>  | <i>337.30</i>              | <i>360.90</i> | <i>1.00</i>      | <i>1.00</i> |
| 2. On-Ramp From Fletcher Dr.<br>(0.35 miles) | Formaldehyde  | 5.90                       | 5.20          | 0.37             | 0.38        |
|                                              | 1,3 Butadiene | 0.90                       | 0.60          | 0.06             | 0.04        |
|                                              | Benzene       | 6.20                       | 5.40          | 0.39             | 0.39        |
|                                              | Acrolein      | 0.20                       | 0.10          | 0.01             | 0.01        |
|                                              | Acetaldehyde  | 2.20                       | 2.10          | 0.14             | 0.15        |
|                                              | Naphthalene   | 0.40                       | 0.40          | 0.03             | 0.03        |
|                                              | <i>Total</i>  | <i>15.80</i>               | <i>13.80</i>  | <i>1.00</i>      | <i>1.00</i> |

File Name: Los Angeles (SC) - 2020 - Annual.EF  
CT-EMFAC Version: 6.0.0.29548  
Run Date: 2/7/2017 16:45  
Area: Los Angeles (SC)  
Analysis Year: 2020  
Season: Annual

Vehicle Category VMT Fraction Diesel VMT Fraction  
Across Category Within Category  
Truck 1 0.018 0.512  
Truck 2 0.004 0.939  
Non-Truck 0.978 0.012

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

| Speed  | CO       | NOx      | PM10     | PM2.5    | Benzene  | Acrolein | Acetaldehyde | Formaldehyde | Butadiene | Naphthalene | Diesel PM |
|--------|----------|----------|----------|----------|----------|----------|--------------|--------------|-----------|-------------|-----------|
| 5 mph  | 2.128981 | 0.340422 | 0.014102 | 0.01305  | 0.007267 | 0.00032  | 0.005435     | 0.013184     | 0.001495  | 0.000205    | 0.002169  |
| 10 mph | 1.817815 | 0.28945  | 0.009328 | 0.008644 | 0.004833 | 0.000207 | 0.004        | 0.009498     | 0.000979  | 0.000139    | 0.001752  |
| 15 mph | 1.562484 | 0.234421 | 0.00638  | 0.005917 | 0.003158 | 0.000141 | 0.002226     | 0.005472     | 0.000655  | 0.000088    | 0.001308  |
| 20 mph | 1.37135  | 0.198801 | 0.004578 | 0.004248 | 0.002159 | 0.000101 | 0.001193     | 0.003119     | 0.00046   | 0.000059    | 0.000998  |
| 25 mph | 1.231122 | 0.178783 | 0.003497 | 0.003248 | 0.001623 | 0.000077 | 0.000865     | 0.002284     | 0.000347  | 0.000044    | 0.000834  |
| 30 mph | 1.120169 | 0.166299 | 0.002818 | 0.002619 | 0.001292 | 0.000061 | 0.00069      | 0.001821     | 0.000276  | 0.000035    | 0.00073   |
| 35 mph | 1.030021 | 0.157927 | 0.002382 | 0.002215 | 0.001078 | 0.000051 | 0.000566     | 0.001501     | 0.000231  | 0.000029    | 0.000657  |
| 40 mph | 0.957042 | 0.152603 | 0.00211  | 0.001964 | 0.000945 | 0.000045 | 0.000481     | 0.001286     | 0.000203  | 0.000026    | 0.00061   |
| 45 mph | 0.899212 | 0.14978  | 0.00196  | 0.001824 | 0.00087  | 0.000042 | 0.000428     | 0.001155     | 0.000188  | 0.000023    | 0.000585  |
| 50 mph | 0.85582  | 0.149179 | 0.001908 | 0.001776 | 0.000842 | 0.000041 | 0.000402     | 0.001096     | 0.000182  | 0.000023    | 0.000581  |
| 55 mph | 0.827501 | 0.150693 | 0.001946 | 0.001813 | 0.000859 | 0.000042 | 0.000405     | 0.001107     | 0.000186  | 0.000023    | 0.000598  |
| 60 mph | 0.816813 | 0.154599 | 0.002075 | 0.001932 | 0.000924 | 0.000045 | 0.000436     | 0.001192     | 0.0002    | 0.000025    | 0.000631  |
| 65 mph | 0.828667 | 0.160939 | 0.002309 | 0.002149 | 0.001045 | 0.00005  | 0.000497     | 0.001354     | 0.000227  | 0.000028    | 0.000679  |
| 70 mph | 0.846293 | 0.165501 | 0.002495 | 0.002322 | 0.001139 | 0.000055 | 0.000562     | 0.001515     | 0.000246  | 0.000031    | 0.000729  |
| 75 mph | 0.846293 | 0.165501 | 0.002495 | 0.002322 | 0.001139 | 0.000055 | 0.000562     | 0.001515     | 0.000246  | 0.000031    | 0.000729  |

Fleet Average Idling Exhaust Emission Factors (grams/veh-idle hour)

| Pollutant Name | Emission Factor |
|----------------|-----------------|
| CO             | 6.490841        |
| NOx            | 1.423775        |
| PM10           | 0.040981        |
| PM2.5          | 0.038112        |
| Benzene        | 0.021917        |
| Acrolein       | 0.001033        |
| Acetaldehyde   | 0.015255        |
| Formaldehyde   | 0.037699        |
| Butadiene      | 0.004518        |
| Naphthalene    | 0.000593        |
| Diesel PM      | 0.011342        |

Fleet Average Running Loss Emission Factors (grams/hour)

| Pollutant Name | Emission Factor |
|----------------|-----------------|
| Benzene        | 0.016258        |
| Butadiene      | 0               |
| Naphthalene    | 0.002276        |

Fleet Average Tire Wear Factors (grams/veh-mile)

| Pollutant Name | Emission Factor |
|----------------|-----------------|
| PM10           | 0.008116        |
| PM2.5          | 0.002029        |

Fleet Average Brake Wear Factors (grams/veh-mile)

| Pollutant Name | Emission Factor |
|----------------|-----------------|
| PM10           | 0.039923        |
| PM2.5          | 0.01711         |

END

File Name: Glendale Freeway ADT  
 CT-EMFAC Version: 6.0.0.29548  
 Run Date: 2/7/2017 16:51  
 Area: Los Angeles (SC)  
 Analysis Year: 2020  
 Season: Annual

| Vehicle Category | VTM Fraction<br>Across Category | Diesel VMT Fraction<br>Within Category |
|------------------|---------------------------------|----------------------------------------|
| Truck 1          | 0.018                           | 0.512                                  |
| Truck 2          | 0.004                           | 0.939                                  |
| Non-Truck        | 0.978                           | 0.012                                  |

Road Length: 0.7 miles  
 Volume: 6750 vehicles per hour  
 Number of Hours: 24 hours  
 Avg. Idling Time: 0 minutes per vehicle  
 Tot. Idling Time: 0 hours

VTM Distribution by Speed (mph):

|    |         |
|----|---------|
| 5  | 0.00%   |
| 10 | 0.00%   |
| 15 | 0.00%   |
| 20 | 0.00%   |
| 25 | 0.00%   |
| 30 | 0.00%   |
| 35 | 0.00%   |
| 40 | 0.00%   |
| 45 | 0.00%   |
| 50 | 0.00%   |
| 55 | 100.00% |
| 60 | 0.00%   |
| 65 | 0.00%   |
| 70 | 0.00%   |
| 75 | 0.00%   |

Summary of Project Emissions

| Pollutant Name | Running Exhaust<br>(grams) | Idling Exhaust<br>(grams) | Running Loss<br>(grams) | Tire Wear<br>(grams) | Brake Wear<br>(grams) | Total<br>(grams) | Total<br>(US tons) |
|----------------|----------------------------|---------------------------|-------------------------|----------------------|-----------------------|------------------|--------------------|
| CO             | 93838.6                    | 0                         | -                       | -                    | -                     | 93838.6          | 0.103              |
| NOx            | 17088.6                    | 0                         | -                       | -                    | -                     | 17088.6          | 0.019              |
| PM10           | 220.7                      | 0                         | -                       | 920.4                | 4527.3                | 5668.3           | 0.006              |
| PM2.5          | 205.6                      | 0                         | -                       | 230.1                | 1940.3                | 2376             | 0.003              |
| Benzene        | 97.4                       | 0                         | 35.1                    | -                    | -                     | 132.5            | <0.001             |
| Acrolein       | 4.8                        | 0                         | -                       | -                    | -                     | 4.8              | <0.001             |
| Acetaldehyde   | 45.9                       | 0                         | -                       | -                    | -                     | 45.9             | <0.001             |
| Formaldehyde   | 125.5                      | 0                         | -                       | -                    | -                     | 125.5            | <0.001             |
| Butadiene      | 21.1                       | 0                         | 0                       | -                    | -                     | 21.1             | <0.001             |
| Naphthalene    | 2.6                        | 0                         | 4.9                     | -                    | -                     | 7.5              | <0.001             |
| Diesel PM      | 67.8                       | 0                         | -                       | -                    | -                     | 67.8             | <0.001             |

END

File Name: Glendale Freeway Peak Hour  
 CT-EMFAC Version: 6.0.0.29548  
 Run Date: 2/7/2017 16:57  
 Area: Los Angeles (SC)  
 Analysis Year: 2020  
 Season: Annual

```
=====
Vehicle Category   VMT Fraction      Diesel VMT Fraction
                   Across Category   Within Category
Truck 1            0.018             0.512
Truck 2            0.004             0.939
Non-Truck          0.978             0.012
=====
```

```
=====
Road Length:      0.7 miles
Volume:           14600 vehicles per hour
Number of Hours:  1 hours
Avg. Idling Time: 0 minutes per vehicle
Tot. Idling Time: 0 hours
=====
```

```

VMT Distribution by Speed (mph):
      5              100.00%
     10               0.00%
     15               0.00%
     20               0.00%
     25               0.00%
     30               0.00%
     35               0.00%
     40               0.00%
     45               0.00%
     50               0.00%
     55               0.00%
     60               0.00%
     65               0.00%
     70               0.00%
     75               0.00%
=====
```

#### Summary of Project Emissions

| Pollutant Name | Running Exhaust<br>(grams) | Idling Exhaust<br>(grams) | Running Loss<br>(grams) | Tire Wear<br>(grams) | Brake Wear<br>(grams) | Total<br>(grams) | Total<br>(US tons) |
|----------------|----------------------------|---------------------------|-------------------------|----------------------|-----------------------|------------------|--------------------|
| CO             | 21758.2                    | 0                         | -                       | -                    | -                     | 21758.2          | 0.024              |
| NOx            | 3479.1                     | 0                         | -                       | -                    | -                     | 3479.1           | 0.004              |
| PM10           | 144.1                      | 0                         | -                       | 82.9                 | 408                   | 635.1            | <0.001             |
| PM2.5          | 133.4                      | 0                         | -                       | 20.7                 | 174.9                 | 329              | <0.001             |
| Benzene        | 74.3                       | 0                         | 66.5                    | -                    | -                     | 140.7            | <0.001             |
| Acrolein       | 3.3                        | 0                         | -                       | -                    | -                     | 3.3              | <0.001             |
| Acetaldehyde   | 55.5                       | 0                         | -                       | -                    | -                     | 55.5             | <0.001             |
| Formaldehyde   | 134.7                      | 0                         | -                       | -                    | -                     | 134.7            | <0.001             |
| Butadiene      | 15.3                       | 0                         | 0                       | -                    | -                     | 15.3             | <0.001             |
| Naphthalene    | 2.1                        | 0                         | 9.3                     | -                    | -                     | 11.4             | <0.001             |
| Diesel PM      | 22.2                       | 0                         | -                       | -                    | -                     | 22.2             | <0.001             |

=====END=====

File Name: On-Ramp from Fletcher Dr. Peak Hour  
 CT-EMFAC Version: 6.0.0.29548  
 Run Date: 2/7/2017 17:05  
 Area: Los Angeles (SC)  
 Analysis Year: 2020  
 Season: Annual

```

=====
Vehicle Category   VMT Fraction      Diesel VMT Fraction
                   Across Category   Within Category
Truck 1            0.018             0.512
Truck 2            0.004             0.939
Non-Truck          0.978             0.012
=====
  
```

```

=====
Road Length:      0.35 miles
Volume:           1120 vehicles per hour
Number of Hours:  1 hours
Avg. Idling Time: 0 minutes per vehicle
Tot. Idling Time: 0 hours
  
```

VTM Distribution by Speed (mph):

```

      5            100.00%
     10             0.00%
     15             0.00%
     20             0.00%
     25             0.00%
     30             0.00%
     35             0.00%
     40             0.00%
     45             0.00%
     50             0.00%
     55             0.00%
     60             0.00%
     65             0.00%
     70             0.00%
     75             0.00%
  
```

Summary of Project Emissions

| Pollutant Name | Running Exhaust<br>(grams) | Idling Exhaust<br>(grams) | Running Loss<br>(grams) | Tire Wear<br>(grams) | Brake Wear<br>(grams) | Total<br>(grams) | Total<br>(US tons) |
|----------------|----------------------------|---------------------------|-------------------------|----------------------|-----------------------|------------------|--------------------|
| CO             | 834.6                      | 0                         | -                       | -                    | -                     | 834.6            | <0.001             |
| NOx            | 133.4                      | 0                         | -                       | -                    | -                     | 133.4            | <0.001             |
| PM10           | 5.5                        | 0                         | -                       | 3.2                  | 15.6                  | 24.4             | <0.001             |
| PM2.5          | 5.1                        | 0                         | -                       | 0.8                  | 6.7                   | 12.6             | <0.001             |
| Benzene        | 2.8                        | 0                         | 2.5                     | -                    | -                     | 5.4              | <0.001             |
| Acrolein       | 0.1                        | 0                         | -                       | -                    | -                     | 0.1              | <0.001             |
| Acetaldehyde   | 2.1                        | 0                         | -                       | -                    | -                     | 2.1              | <0.001             |
| Formaldehyde   | 5.2                        | 0                         | -                       | -                    | -                     | 5.2              | <0.001             |
| Butadiene      | 0.6                        | 0                         | 0                       | -                    | -                     | 0.6              | <0.001             |
| Naphthalene    | <0.1                       | 0                         | 0.4                     | -                    | -                     | 0.4              | <0.001             |
| Diesel PM      | 0.9                        | 0                         | -                       | -                    | -                     | 0.9              | <0.001             |

=====END=====

File Name: On-Ramp from Fletcher Dr. ADT  
 CT-EMFAC Version: 6.0.0.29548  
 Run Date: 2/7/2017 17:02  
 Area: Los Angeles (SC)  
 Analysis Year: 2020  
 Season: Annual

```
=====
Vehicle Category  VMT Fraction      Diesel VMT Fraction
                  Across Category    Within Category
Truck 1           0.018           0.512
Truck 2           0.004           0.939
Non-Truck         0.978           0.012
=====
```

```
=====
Road Length:      0.35 miles
Volume:           467 vehicles per hour
Number of Hours:  24 hours
Avg. Idling Time: 0 minutes per vehicle
Tot. Idling Time: 0 hours
=====
```

```

VMT Distribution by Speed (mph):
      5           0.00%
     10           0.00%
     15           0.00%
     20           0.00%
     25           0.00%
     30           0.00%
     35          100.00%
     40           0.00%
     45           0.00%
     50           0.00%
     55           0.00%
     60           0.00%
     65           0.00%
     70           0.00%
     75           0.00%
=====
```

# Summary of Project Emissions

| Pollutant Name | Running Exhaust<br>(grams) | Idling Exhaust<br>(grams) | Running Loss<br>(grams) | Tire Wear<br>(grams) | Brake Wear<br>(grams) | Total<br>(grams) | Total<br>(US tons) |
|----------------|----------------------------|---------------------------|-------------------------|----------------------|-----------------------|------------------|--------------------|
| CO             | 4040.6                     | 0                         | -                       | -                    | -                     | 4040.6           | 0.004              |
| NOx            | 619.5                      | 0                         | -                       | -                    | -                     | 619.5            | <0.001             |
| PM10           | 9.3                        | 0                         | -                       | 31.8                 | 156.6                 | 197.8            | <0.001             |
| PM2.5          | 8.7                        | 0                         | -                       | 8                    | 67.1                  | 83.8             | <0.001             |
| Benzene        | 4.2                        | 0                         | 2                       | -                    | -                     | 6.2              | <0.001             |
| Acrolein       | 0.2                        | 0                         | -                       | -                    | -                     | 0.2              | <0.001             |
| Acetaldehyde   | 2.2                        | 0                         | -                       | -                    | -                     | 2.2              | <0.001             |
| Formaldehyde   | 5.9                        | 0                         | -                       | -                    | -                     | 5.9              | <0.001             |
| Butadiene      | 0.9                        | 0                         | 0                       | -                    | -                     | 0.9              | <0.001             |
| Naphthalene    | 0.1                        | 0                         | 0.3                     | -                    | -                     | 0.4              | <0.001             |
| Diesel PM      | 2.6                        | 0                         | -                       | -                    | -                     | 2.6              | <0.001             |

=====END=====

## 2015 Daily Truck Traffic

| RTE | DIST | CNTY | MILE    | POST<br>E | L<br>G                              | DESCRIPTION | VEHICLE |       | TRUCK |       | TRUCK |     | TRUCK |       | TRUCK |       | AADT  | EAL | YEAR |
|-----|------|------|---------|-----------|-------------------------------------|-------------|---------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|------|
|     |      |      |         |           |                                     |             | AADT    | TOTAL | % TOT | 2     | 3     | 4   | 5+    | 2     | 3     | 4     |       |     |      |
| 1   | 1    | MEN  | 59.803  | B         | JCT. RTE. 20 EAST                   |             | 19,700  | 886   | 4.49  | 640   | 107   | 32  | 107   | 72.29 | 12.05 | 3.61  | 12.05 | 74  | 05E  |
| 1   | 1    | MEN  | 59.803  | A         | JCT. RTE. 20 EAST                   |             | 21,200  | 627   | 2.96  | 380   | 124   | 35  | 88    | 60.56 | 19.72 | 5.63  | 14.08 | 60  | 05E  |
| 1   | 1    | MEN  | 90.874  | B         | JCT. RTE. 211 NORTH                 |             | 900     | 137   | 15.17 | 41    | 20    | 15  | 61    | 29.63 | 14.81 | 11.11 | 44.44 | 27  | 05E  |
| 1   | 1    | MEN  | 105.578 | B         | LEGGETT, JCT. RTE. 101              |             | 650     | 99    | 15.00 | 29    | 15    | 11  | 44    | 29.63 | 14.81 | 11.11 | 44.44 | 19  | 05E  |
| 2   | 7    | LA   | 3.645   | B         | LOS ANGELES, JCT. RTE. 405          |             | 51,000  | 1,208 | 2.37  | 1,073 | 51    | 13  | 71    | 88.77 | 4.25  | 1.09  | 5.89  | 69  | 06V  |
| 2   | 7    | LA   | 10.896  | A         | LOS ANGELES, HIGHLAND AVE           |             | 39,000  | 991   | 2.54  | 816   | 69    | 18  | 88    | 82.32 | 6.98  | 1.83  | 8.87  | 68  | 06E  |
| 2   | 7    | LA   | 12.74   | B         | LOS ANGELES, JCT. RTE. 101          |             | 56,000  | 1,422 | 2.54  | 1,171 | 99    | 26  | 126   | 82.32 | 6.98  | 1.83  | 8.87  | 97  | 06V  |
| 2   | 7    | LA   | 12.75   | A         | LOS ANGELES, JCT. RTE. 101          |             | 30,000  | 1,239 | 4.13  | 943   | 92    | 18  | 186   | 76.09 | 7.45  | 1.42  | 15.04 | 108 | 06V  |
| 2   | 7    | LA   | 15.143  | B         | LOS ANGELES, JCT. RTE. 5            |             | 59,000  | 1,640 | 2.78  | 1,069 | 128   | 30  | 413   | 65.19 | 7.81  | 1.81  | 25.18 | 196 | 12E  |
| 2   | 7    | LA   | 15.143  | A         | LOS ANGELES, JCT. RTE. 5            |             | 162,000 | 3,548 | 2.19  | 2,555 | 346   | 61  | 586   | 72.02 | 9.75  | 1.72  | 16.51 | 332 | 12E  |
| 2   | 7    | LA   | 16.008  | A         | LOS ANGELES, SAN FERNANDO RD        |             | 155,000 | 3,395 | 2.19  | 2,445 | 331   | 58  | 561   | 72.02 | 9.75  | 1.72  | 16.51 | 318 | 12E  |
| 2   | 7    | LA   | R18.814 | B         | LOS ANGELES, JCT. RTE. 134          |             | 160,000 | 3,505 | 2.19  | 2,524 | 342   | 60  | 579   | 72.02 | 9.75  | 1.72  | 16.51 | 328 | 12E  |
| 2   | 7    | LA   | R18.814 | A         | LOS ANGELES, JCT. RTE. 134          |             | 127,000 | 1,422 | 1.12  | 765   | 211   | 92  | 354   | 53.79 | 14.86 | 6.49  | 24.86 | 182 | 12E  |
| 2   | 7    | LA   | R22.939 | B         | LA CANADA-FLINTRIDGE, JCT. RTE. 210 |             | 119,233 | 2,006 | 1.68  | 1,220 | 220   | 107 | 459   | 60.82 | 10.97 | 5.33  | 22.88 | 237 | 15V  |
| 2   | 7    | LA   | R23.438 | B         | LA CANADA-FLINTRIDGE, FOOTHILL BLVD |             | 14,300  | 160   | 1.12  | 86    | 24    | 10  | 40    | 53.79 | 14.86 | 6.49  | 24.86 | 20  | 12E  |
| 2   | 7    | LA   | 24.463  | A         | EAST JCT. RTE. 210                  |             | 15,400  | 353   | 2.29  | 308   | 29    | 8   | 8     | 87.20 | 8.14  | 2.28  | 2.38  | 17  | 06V  |

## 2015 Traffic Volumes on California State Highways

| Dist | Route | County | Postmile | Description                                   | Back<br>Peak<br>Hour | Back<br>Peak<br>Month | Back<br>AADT | Ahead<br>Peak<br>Hour | Ahead<br>Peak<br>Month | Ahead<br>AADT |
|------|-------|--------|----------|-----------------------------------------------|----------------------|-----------------------|--------------|-----------------------|------------------------|---------------|
| 07   | 002   | LA     | 2.321    | LOS ANGELES, CENTINELA AVENUE                 |                      |                       |              | 2550                  | 30500                  | 29500         |
| 07   | 002   | LA     | 2.6      | LOS ANGELES, BUNDY DRIVE                      | 2550                 | 30500                 | 29500        | 2500                  | 30000                  | 29000         |
| 07   | 002   | LA     | 3.645    | LOS ANGELES, JCT. RTE. 405                    | 4350                 | 53000                 | 51000        | 3900                  | 52000                  | 50000         |
| 07   | 002   | LA     | 10.651   | LOS ANGELES, SYCAMORE AVENUE                  | 3900                 | 52000                 | 50000        | 2850                  | 43000                  | 40500         |
| 07   | 002   | LA     | 10.896   | LOS ANGELES, HIGHLAND AVENUE                  | 2850                 | 43000                 | 40500        | 2750                  | 41500                  | 39000         |
| 07   | 002   | LA     | 11.581   | LOS ANGELES, VINE STREET                      | 2750                 | 41500                 | 39000        | 2600                  | 40000                  | 37500         |
| 07   | 002   | LA     | 12.32    | LOS ANGELES, WILTON PLACE                     | 2600                 | 40000                 | 37500        | 2900                  | 46000                  | 43000         |
| 07   | 002   | LA     | 12.58    | LOS ANGELES, WESTERN AVENUE                   | 2900                 | 46000                 | 43000        | 3850                  | 62000                  | 56000         |
| 07   | 002   | LA     | 12.75    | LOS ANGELES, JCT. RTE. 101                    | 3850                 | 62000                 | 56000        | 2700                  | 33000                  | 30000         |
| 07   | 002   | LA     | 13.19    | LOS ANGELES, SUNSET BOULEVARD                 | 2700                 | 33000                 | 30000        | 3700                  | 42000                  | 38500         |
| 07   | 002   | LA     | 13.592   | LOS ANGELES, LEFT ONTO GLENDALE BLVD          | 3300                 | 36000                 | 33500        | 6300                  | 66000                  | 61000         |
| 07   | 002   | LA     | 14.213   | LOS ANGELES, RIGHT VIA THE GLENDALE FWY       | 6300                 | 66000                 | 61000        | 5500                  | 60000                  | 59000         |
| 07   | 002   | LA     | 15.143   | LOS ANGELES, JCT. RTE. 5                      | 5500                 | 60000                 | 59000        | 14600                 | 164000                 | 162000        |
| 07   | 002   | LA     | 16.008   | LOS ANGELES, SAN FERNANDO ROAD                | 14600                | 164000                | 162000       | 14000                 | 157000                 | 155000        |
| 07   | 002   | LA R   | 17.002   | LOS ANGELES, VERDUGO ROAD                     | 14000                | 157000                | 155000       | 12800                 | 143000                 | 141000        |
| 07   | 002   | LA R   | 17.288   | LOS ANGELES, YORK BOULEVARD                   | 12800                | 143000                | 141000       | 14500                 | 163000                 | 160000        |
| 07   | 002   | LA R   | 18.814   | LOS ANGELES, JCT. RTE. 134                    | 14500                | 163000                | 160000       | 12200                 | 131000                 | 127000        |
| 07   | 002   | LA R   | 20.053   | GLENDALE, MOUNTAIN STREET                     | 12200                | 131000                | 127000       | 11500                 | 119000                 | 115000        |
| 07   | 002   | LA R   | 22.939   | LA CANADA-FLINTRIDGE, JCT. RTE. 210           | 11500                | 119000                | 119233       | 1400                  | 14600                  | 13400         |
| 07   | 002   | LA R   | 23.438   | LA CANADA-FLINTRIDGE, FOOTHILL BOULEVARD      | 1400                 | 14600                 | 14300        | 1600                  | 17300                  | 15400         |
| 07   | 002   | LA     | 24.463   | EAST JCT. RTE. 210, VIA ANGELES CREST HIGHWAY | 1600                 | 17300                 | 15400        | 1600                  | 17300                  | 15400         |
| 07   | 002   | LA R   | 25.35    | VISTA DEL VALLE ROAD                          | 860                  | 9300                  | 8200         | 790                   | 7900                   | 6900          |
| 07   | 002   | LA     | 26.99    | ANGELES FOREST BOUNDARY                       | 460                  | 4000                  | 3500         | 460                   | 4000                   | 3500          |
| 07   | 002   | LA     | 28.576   | SLIDE CANYON BRIDGE                           | 580                  | 5100                  | 4400         | 580                   | 5100                   | 4400          |
| 07   | 002   | LA     | 33.8     | ANGELES FOREST HIGHWAY                        | 410                  | 3600                  | 3100         | 110                   | 860                    | 750           |
| 07   | 002   | LA     | 38.37    | MOUNT WILSON ROAD                             | 110                  | 860                   | 750          | 60                    | 430                    | 370           |
| 07   | 002   | LA     | 50.61    | ENTRANCE, UPPER CHILAO RECREATION AREA        | 70                   | 450                   | 390          | 70                    | 440                    | 380           |
| 07   | 002   | LA     | 58.09    | BUCKHORN RANGER STATION                       | 40                   | 260                   | 230          | 40                    | 260                    | 230           |
| 07   | 002   | LA     | 64.085   | ISLIP SADDLE, JCT. RTE. 39 SOUTH (CLOSED)     | 40                   | 250                   | 220          | 40                    | 250                    | 220           |
| 07   | 002   | LA     | 77.39    | BLUE RIDGE ROAD                               | 40                   | 250                   | 220          | 70                    | 440                    | 390           |
| 07   | 002   | LA     | 79.881   | BIG PINES HIGHWAY                             | 70                   | 440                   | 390          | 280                   | 1850                   | 1600          |
| 07   | 002   | LA     | 82.265   | LOS ANGELES/SAN BERNARDINO COUNTY LINE        | 320                  | 1750                  | 1650         |                       |                        |               |
| 08   | 002   | SBD    | 0        | LOS ANGELES/SAN BERNARDINO COUNTY LINE        |                      |                       |              | 320                   | 1700                   | 1650          |
| 08   | 002   | SBD    | 1.73     | WRIGHTWOOD, LONE PINE ROAD                    | 740                  | 7500                  | 6900         | 750                   | 7600                   | 7000          |
| 08   | 002   | SBD    | 6.358    | JCT. RTE. 138                                 | 750                  | 7600                  | 7000         |                       |                        |               |
| 02   | 003   | TRI L  | 0        | JCT. RTE. 36                                  |                      |                       |              | 80                    | 990                    | 610           |
| 02   | 003   | TRI    | 6.22     | MORGAN HILL ROAD                              | 160                  | 1800                  | 1400         | 290                   | 2550                   | 2350          |
| 02   | 003   | TRI    | 7.2      | HAYFORK                                       | 290                  | 2550                  | 2350         | 290                   | 2550                   | 2350          |
| 02   | 003   | TRI L  | 30.89    | WEAVERVILLE, NORTH JCT. RTE. 299              | 160                  | 1750                  | 1550         | 440                   | 3800                   | 3750          |

| 07-LA-002 |              |        |                            |             |             |             |             |             |             |             |             |             |             |
|-----------|--------------|--------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| P<br>P    | POST<br>MILE | P<br>S | DESCRIPTION                | 2006<br>ADT | 2007<br>ADT | 2008<br>ADT | 2009<br>ADT | 2010<br>ADT | 2011<br>ADT | 2012<br>ADT | 2013<br>ADT | 2014<br>ADT | 2015<br>ADT |
|           | 015.719      |        | EB ON FROM FLETCHER DR     |             |             | 11100       | 11200       |             |             |             |             |             |             |
|           | 015.925      |        | WB ON FROM SAN FERNANDO RD |             |             | 11600       | 11400       |             |             | 12400       | 12600       |             |             |
|           | 015.937      |        | EB OFF TO SAN FERNANDO RD  |             |             | 11700       | 11500       |             |             | 11500       | 11900       |             |             |
|           | 016.101      |        | EB ON FROM SAN FERNANDO RD |             |             | 8900        | 8400        |             |             | 8900        | 8700        |             |             |
|           | 016.138      |        | WB OFF TO SAN FERNANDO RD  |             |             | 7200        |             |             |             |             |             |             |             |
|           | 016.631      |        | EB OFF TO EAGLE ROCK BLVD  |             |             | 12500       | 12700       |             |             | 13100       | 12700       |             |             |
| R         | 016.856      |        | EB ON FROM EAGLE ROCK BLVD |             |             | 4800        | 4600        |             |             | 4750        | 5000        |             |             |
| R         | 017.048      |        | WB ON FROM VERDUGO RD      |             |             | 12100       |             |             |             |             |             |             |             |
| R         | 017.224      |        | WB OFF TO VERDUGO RD       |             |             | 4600        | 4651        | 4650        |             | 4900        | 5500        |             |             |
| R         | 017.506      |        | WB OFF TO YORK BLVD        |             |             | 9100        | 9400        | 9300        | 9400        | 9700        | 9500        |             |             |
| R         | 017.584      |        | EB ON FROM YORK BLVD       |             |             | 9000        | 9200        | 9000        | 8900        | 8900        | 8900        |             |             |
| R         | 018.237      |        | WB ON FROM COLORADO BLVD   |             |             | 11600       | 11500       |             |             | 11300       | 11300       |             |             |
| R         | 018.296      |        | EB OFF TO COLORADO BLVD    |             |             | 13300       |             |             |             |             |             |             |             |
| R         | 018.445      |        | WB ON FROM WB RTE 134      |             |             | 19600       | 19800       |             |             |             |             |             |             |
| R         | 018.491      |        | EB OFF TO EB RTE 134       |             |             | 17800       | 19500       |             |             | 19500       | 20300       |             |             |
| R         | 018.622      |        | WB ON FROM EB RTE 134      |             |             | 12900       |             |             |             | 12700       | 10800       |             |             |
| R         | 018.687      |        | EB OFF TO WB RTE 134       |             |             | 11000       |             |             |             | 10400       | 12400       |             |             |
| R         | 018.911      |        | EB OFF TO HOLLY DR         |             |             | 3150        | 3250        |             |             |             |             |             |             |
| R         | 018.916      |        | WB ON FROM HOLLY DR        |             |             | 2950        | 3050        |             |             | 2900        | 3000        |             |             |
| R         | 019.162      |        | EB ON FROM HOLLY DR        |             |             | 6700        | 6900        |             |             |             |             |             |             |
| R         | 019.167      |        | WB OFF TO HOLLY DR         |             |             | 6100        | 6600        |             |             | 7300        |             |             |             |
| R         | 019.343      |        | EB ON FROM RTE 134         |             |             | 26000       | 25000       |             |             |             |             |             |             |

## **APPENDIX C**

### **AERMOD Input & Output**

```

**
*****
** AERMOD Input Produced by:
** AERMOD View Ver. 9.2.0
** Lakes Environmental Software Inc.
** Date: 2/20/2017
** File: C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD\Casitas HRA\DPM\DPM.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD
  MODELOPT DEFAULT CONC
  AVERTIME ANNUAL
  URBANOPT 9862049
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL DPM.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Glendale Fwy
** PREFIX
** Length of Side = 39.00
** Configuration = Adjacent
** Emission Rate = 0.000785
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 8
** 385251.397, 3775445.306, 109.99, 0.00, 18.14
** 384940.062, 3775201.653, 96.19, 0.00, 18.14

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1

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** 384851.110, 3775122.369, 91.17, 0.00, 18.14
** 384808.567, 3775062.423, 91.08, 0.00, 18.14
** 384762.157, 3774973.470, 91.05, 0.00, 18.14
** 384738.952, 3774880.650, 92.94, 0.00, 18.14
** 384731.217, 3774807.167, 94.35, 0.00, 18.14
** 384731.217, 3774569.315, 98.20, 0.00, 18.14
-----
LOCATION L0000001 VOLUME 385236.040 3775433.288 110.00
LOCATION L0000002 VOLUME 385205.328 3775409.252 109.11
LOCATION L0000003 VOLUME 385174.615 3775385.216 108.17
LOCATION L0000004 VOLUME 385143.902 3775361.180 106.85
LOCATION L0000005 VOLUME 385113.190 3775337.144 105.53
LOCATION L0000006 VOLUME 385082.477 3775313.108 104.37
LOCATION L0000007 VOLUME 385051.764 3775289.072 103.22
LOCATION L0000008 VOLUME 385021.052 3775265.036 101.85
LOCATION L0000009 VOLUME 384990.339 3775241.000 100.27
LOCATION L0000010 VOLUME 384959.626 3775216.964 98.73
LOCATION L0000011 VOLUME 384929.494 3775192.233 97.09
LOCATION L0000012 VOLUME 384900.380 3775166.284 95.49
LOCATION L0000013 VOLUME 384871.266 3775140.334 93.88
LOCATION L0000014 VOLUME 384844.165 3775112.583 92.99
LOCATION L0000015 VOLUME 384821.594 3775080.779 91.93
LOCATION L0000016 VOLUME 384800.939 3775047.802 91.00
LOCATION L0000017 VOLUME 384782.899 3775013.225 91.06
LOCATION L0000018 VOLUME 384764.858 3774978.648 91.08
LOCATION L0000019 VOLUME 384754.115 3774941.361 91.36
LOCATION L0000020 VOLUME 384744.656 3774903.465 92.02
LOCATION L0000021 VOLUME 384737.331 3774865.252 92.76
LOCATION L0000022 VOLUME 384733.248 3774826.467 93.51
LOCATION L0000023 VOLUME 384731.217 3774787.573 94.25
LOCATION L0000024 VOLUME 384731.217 3774748.573 94.82
LOCATION L0000025 VOLUME 384731.217 3774709.573 95.37
LOCATION L0000026 VOLUME 384731.217 3774670.573 96.05
LOCATION L0000027 VOLUME 384731.217 3774631.573 96.89
LOCATION L0000028 VOLUME 384731.217 3774592.573 97.73
** End of LINE VOLUME Source ID = SLINE1
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Fletcher Ramp
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 0.0000301
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 13
** 384495.216, 3774987.675, 99.50, 0.00, 4.19
** 384523.422, 3774990.239, 98.24, 0.00, 4.19

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2

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** 384609.962, 3774990.239, 94.68, 0.00, 4.19
** 384701.631, 3774985.111, 91.27, 0.00, 4.19
** 384747.145, 3774979.982, 91.29, 0.00, 4.19
** 384788.172, 3774978.059, 91.02, 0.00, 4.19
** 384807.403, 3774985.111, 91.05, 0.00, 4.19
** 384823.429, 3774999.214, 91.07, 0.00, 4.19
** 384845.865, 3775039.599, 91.00, 0.00, 4.19
** 384875.448, 3775089.231, 91.12, 0.00, 4.19
** 384893.975, 3775114.243, 91.31, 0.00, 4.19
** 384924.545, 3775150.371, 95.25, 0.00, 4.19
** 384959.747, 3775182.793, 96.84, 0.00, 4.19
**
-----
LOCATION L0000029 VOLUME 384499.698 3774988.082 100.42
LOCATION L0000030 VOLUME 384508.661 3774988.897 100.08
LOCATION L0000031 VOLUME 384517.624 3774989.712 99.74
LOCATION L0000032 VOLUME 384526.600 3774990.239 99.40
LOCATION L0000033 VOLUME 384535.600 3774990.239 99.05
LOCATION L0000034 VOLUME 384544.600 3774990.239 98.70
LOCATION L0000035 VOLUME 384553.600 3774990.239 98.35
LOCATION L0000036 VOLUME 384562.600 3774990.239 97.94
LOCATION L0000037 VOLUME 384571.600 3774990.239 97.50
LOCATION L0000038 VOLUME 384580.600 3774990.239 97.06
LOCATION L0000039 VOLUME 384589.600 3774990.239 96.62
LOCATION L0000040 VOLUME 384598.600 3774990.239 96.19
LOCATION L0000041 VOLUME 384607.600 3774990.239 95.75
LOCATION L0000042 VOLUME 384616.590 3774989.868 95.31
LOCATION L0000043 VOLUME 384625.576 3774989.366 94.86
LOCATION L0000044 VOLUME 384634.562 3774988.863 94.43
LOCATION L0000045 VOLUME 384643.547 3774988.360 94.07
LOCATION L0000046 VOLUME 384652.533 3774987.857 93.71
LOCATION L0000047 VOLUME 384661.519 3774987.355 93.35
LOCATION L0000048 VOLUME 384670.505 3774986.852 92.99
LOCATION L0000049 VOLUME 384679.491 3774986.349 92.63
LOCATION L0000050 VOLUME 384688.477 3774985.847 92.27
LOCATION L0000051 VOLUME 384697.463 3774985.344 91.91
LOCATION L0000052 VOLUME 384706.426 3774984.841 91.55
LOCATION L0000053 VOLUME 384715.370 3774984.338 91.19
LOCATION L0000054 VOLUME 384724.313 3774983.835 90.83
LOCATION L0000055 VOLUME 384733.257 3774983.332 90.47
LOCATION L0000056 VOLUME 384742.200 3774982.829 90.11
LOCATION L0000057 VOLUME 384751.164 3774982.326 89.75
LOCATION L0000058 VOLUME 384760.154 3774981.823 89.39
LOCATION L0000059 VOLUME 384769.145 3774981.320 89.03
LOCATION L0000060 VOLUME 384778.135 3774980.817 88.67
LOCATION L0000061 VOLUME 384787.125 3774980.314 88.31
LOCATION L0000062 VOLUME 384795.638 3774979.811 87.95
LOCATION L0000063 VOLUME 384804.087 3774979.308 87.59
LOCATION L0000064 VOLUME 384811.508 3774978.805 87.23
LOCATION L0000065 VOLUME 384818.265 3774978.302 86.87
LOCATION L0000066 VOLUME 384824.459 3775001.068 91.00
LOCATION L0000067 VOLUME 384828.830 3775008.935 91.00

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3

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LOCATION L0000068 VOLUME 384833.201 3775016.803 91.00
LOCATION L0000069 VOLUME 384837.571 3775024.670 91.00
LOCATION L0000070 VOLUME 384841.942 3775032.537 91.00
LOCATION L0000071 VOLUME 384846.337 3775040.391 91.00
LOCATION L0000072 VOLUME 384850.945 3775048.122 91.00
LOCATION L0000073 VOLUME 384855.553 3775055.853 91.00
LOCATION L0000074 VOLUME 384860.161 3775063.583 91.25
LOCATION L0000075 VOLUME 384864.769 3775071.314 91.49
LOCATION L0000076 VOLUME 384869.377 3775079.045 91.82
LOCATION L0000077 VOLUME 384873.985 3775086.776 92.16
LOCATION L0000078 VOLUME 384879.104 3775094.167 92.50
LOCATION L0000079 VOLUME 384884.461 3775101.399 92.85
LOCATION L0000080 VOLUME 384889.818 3775108.631 93.22
LOCATION L0000081 VOLUME 384895.277 3775115.863 93.59
LOCATION L0000082 VOLUME 384901.091 3775122.652 93.98
LOCATION L0000083 VOLUME 384906.904 3775129.523 94.37
LOCATION L0000084 VOLUME 384912.710 3775136.393 94.78
LOCATION L0000085 VOLUME 384918.531 3775143.264 95.19
LOCATION L0000086 VOLUME 384924.345 3775150.134 95.60
LOCATION L0000087 VOLUME 384930.937 3775156.258 95.97
LOCATION L0000088 VOLUME 384937.557 3775162.355 96.34
LOCATION L0000089 VOLUME 384944.177 3775168.453 96.73
LOCATION L0000090 VOLUME 384950.797 3775174.550 97.16
LOCATION L0000091 VOLUME 384957.417 3775180.647 97.58
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
SRCPARAM L0000001 0.0000280357 0.00 18.14
0.70
SRCPARAM L0000002 0.0000280357 0.00 18.14
0.70
SRCPARAM L0000003 0.0000280357 0.00 18.14
0.70
SRCPARAM L0000004 0.0000280357 0.00 18.14
0.70
SRCPARAM L0000005 0.0000280357 0.00 18.14
0.70
SRCPARAM L0000006 0.0000280357 0.00 18.14
0.70
SRCPARAM L0000007 0.0000280357 0.00 18.14
0.70
SRCPARAM L0000008 0.0000280357 0.00 18.14
0.70
SRCPARAM L0000009 0.0000280357 0.00 18.14
0.70
SRCPARAM L0000010 0.0000280357 0.00 18.14
0.70
SRCPARAM L0000011 0.0000280357 0.00 18.14
0.70
SRCPARAM L0000012 0.0000280357 0.00 18.14
0.70
SRCPARAM L0000013 0.0000280357 0.00 18.14

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4

0.70  
SRCPARAM L0000014 0.0000280357 0.00 18.14  
0.70  
SRCPARAM L0000015 0.0000280357 0.00 18.14  
0.70  
SRCPARAM L0000016 0.0000280357 0.00 18.14  
0.70  
SRCPARAM L0000017 0.0000280357 0.00 18.14  
0.70  
SRCPARAM L0000018 0.0000280357 0.00 18.14  
0.70  
SRCPARAM L0000019 0.0000280357 0.00 18.14  
0.70  
SRCPARAM L0000020 0.0000280357 0.00 18.14  
0.70  
SRCPARAM L0000021 0.0000280357 0.00 18.14  
0.70  
SRCPARAM L0000022 0.0000280357 0.00 18.14  
0.70  
SRCPARAM L0000023 0.0000280357 0.00 18.14  
0.70  
SRCPARAM L0000024 0.0000280357 0.00 18.14  
0.70  
SRCPARAM L0000025 0.0000280357 0.00 18.14  
0.70  
SRCPARAM L0000026 0.0000280357 0.00 18.14  
0.70  
SRCPARAM L0000027 0.0000280357 0.00 18.14  
0.70  
SRCPARAM L0000028 0.0000280357 0.00 18.14  
0.70

\*\* -----  
\*\* LINE VOLUME Source ID = SLINE2  
SRCPARAM L0000029 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000030 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000031 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000032 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000033 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000034 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000035 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000036 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000037 0.0000004778 0.00 4.19  
0.70

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SRCPARAM L0000038 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000039 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000040 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000041 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000042 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000043 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000044 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000045 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000046 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000047 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000048 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000049 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000050 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000051 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000052 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000053 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000054 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000055 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000056 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000057 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000058 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000059 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000060 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000061 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000062 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000063 0.0000004778 0.00 4.19  
0.70

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SRCPARAM L0000064 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000065 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000066 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000067 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000068 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000069 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000070 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000071 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000072 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000073 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000074 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000075 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000076 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000077 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000078 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000079 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000080 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000081 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000082 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000083 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000084 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000085 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000086 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000087 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000088 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000089 0.0000004778 0.00 4.19  
0.70

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SRCPARAM L0000090 0.0000004778 0.00 4.19  
0.70  
SRCPARAM L0000091 0.0000004778 0.00 4.19  
0.70  
\*\* -----  
URBANSRC ALL  
SRCGROUP ALL  
SO FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Receptor Pathway  
\*\*\*\*\*  
\*\*  
RE STARTING  
INCLUDED DPM.rou  
RE FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*  
ME STARTING  
SURFFILE ..\cela8.sfc  
PROFFILE ..\cela8.PFL  
SURFDATA 0 2006  
UAIRDATA 3190 2006  
SITEDATA 99999 2006  
PROFBASE 87.0 METERS  
ME FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*  
OU STARTING  
\*\* Auto-Generated Plotfiles  
PLOTFILE ANNUAL ALL DPM.AD\AN00GALL.PLT 31  
SUMMFILE DPM.sum  
OU FINISHED  
\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

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\Dropbox\Pomeroy Environmental Services\AERMOD ***
02/20/17
*** AERMET - VERSION 14134 *** ***
*** 21:49:48

PAGE 1
**MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

**Model Uses URBAN Dispersion Algorithm for the SBL for 91
Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length =
1.000 m

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

**Other Options Specified:
TEMP_Sub - Meteorological data includes TEMP
substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: DPM

**Model Calculates ANNUAL Averages Only

**This Run Includes: 91 Source(s); 1 Source Group(s);
and 102 Receptor(s)

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

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and: 91 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 OPENPIT source(s)

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

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:
Model Outputs Tables of ANNUAL 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.

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

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PAGE 2
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** VOLUME
SOURCE DATA ***

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

- - - - -

L0000001 0 0.28036E-04 385236.0 3775433.3 110.0
0.00 18.14 0.70 YES
L0000002 0 0.28036E-04 385205.3 3775409.3 109.1
0.00 18.14 0.70 YES
L0000003 0 0.28036E-04 385174.6 3775385.2 108.2
0.00 18.14 0.70 YES
L0000004 0 0.28036E-04 385143.9 3775361.2 106.8
0.00 18.14 0.70 YES
L0000005 0 0.28036E-04 385113.2 3775337.1 105.5
0.00 18.14 0.70 YES
L0000006 0 0.28036E-04 385082.5 3775313.1 104.4
0.00 18.14 0.70 YES
L0000007 0 0.28036E-04 385051.8 3775289.1 103.2
0.00 18.14 0.70 YES
L0000008 0 0.28036E-04 385021.1 3775265.0 101.8
0.00 18.14 0.70 YES
L0000009 0 0.28036E-04 384990.3 3775241.0 100.3
0.00 18.14 0.70 YES
L0000010 0 0.28036E-04 384959.6 3775217.0 98.7
0.00 18.14 0.70 YES
L0000011 0 0.28036E-04 384929.5 3775192.2 97.1
0.00 18.14 0.70 YES
L0000012 0 0.28036E-04 384900.4 3775166.3 95.5
0.00 18.14 0.70 YES
L0000013 0 0.28036E-04 384871.3 3775140.3 93.9
0.00 18.14 0.70 YES
L0000014 0 0.28036E-04 384844.2 3775112.6 93.0
0.00 18.14 0.70 YES
L0000015 0 0.28036E-04 384821.6 3775080.8 91.9
0.00 18.14 0.70 YES

```

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```

L0000016 0 0.28036E-04 384800.9 3775047.8 91.0
0.00 18.14 0.70 YES
L0000017 0 0.28036E-04 384782.9 3775013.2 91.1
0.00 18.14 0.70 YES
L0000018 0 0.28036E-04 384764.9 3774978.6 91.1
0.00 18.14 0.70 YES
L0000019 0 0.28036E-04 384754.1 3774941.3 91.4
0.00 18.14 0.70 YES
L0000020 0 0.28036E-04 384744.7 3774903.5 92.0
0.00 18.14 0.70 YES
L0000021 0 0.28036E-04 384737.3 3774865.3 92.8
0.00 18.14 0.70 YES
L0000022 0 0.28036E-04 384733.2 3774826.5 93.5
0.00 18.14 0.70 YES
L0000023 0 0.28036E-04 384731.2 3774787.6 94.2
0.00 18.14 0.70 YES
L0000024 0 0.28036E-04 384731.2 3774748.6 94.8
0.00 18.14 0.70 YES
L0000025 0 0.28036E-04 384731.2 3774709.6 95.4
0.00 18.14 0.70 YES
L0000026 0 0.28036E-04 384731.2 3774670.6 96.0
0.00 18.14 0.70 YES
L0000027 0 0.28036E-04 384731.2 3774631.6 96.9
0.00 18.14 0.70 YES
L0000028 0 0.28036E-04 384731.2 3774592.6 97.7
0.00 18.14 0.70 YES
L0000029 0 0.47780E-06 384499.7 3774988.1 100.4
0.00 4.19 0.70 YES
L0000030 0 0.47780E-06 384508.7 3774988.9 100.1
0.00 4.19 0.70 YES
L0000031 0 0.47780E-06 384517.6 3774989.7 99.7
0.00 4.19 0.70 YES
L0000032 0 0.47780E-06 384526.6 3774990.2 99.4
0.00 4.19 0.70 YES
L0000033 0 0.47780E-06 384535.6 3774990.2 99.0
0.00 4.19 0.70 YES
L0000034 0 0.47780E-06 384544.6 3774990.2 98.7
0.00 4.19 0.70 YES
L0000035 0 0.47780E-06 384553.6 3774990.2 98.3
0.00 4.19 0.70 YES
L0000036 0 0.47780E-06 384562.6 3774990.2 97.9
0.00 4.19 0.70 YES
L0000037 0 0.47780E-06 384571.6 3774990.2 97.5
0.00 4.19 0.70 YES
L0000038 0 0.47780E-06 384580.6 3774990.2 97.1
0.00 4.19 0.70 YES
L0000039 0 0.47780E-06 384589.6 3774990.2 96.6
0.00 4.19 0.70 YES
L0000040 0 0.47780E-06 384598.6 3774990.2 96.2
0.00 4.19 0.70 YES

```

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\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Users\Brett Pomeroy  
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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

SOURCE DATA \*\*\*

\*\*\* VOLUME

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>SZ<br>(METERS) | NUMBER<br>(GRAMS/SEC) | EMISSION<br>RATE<br>X<br>SCALAR VARY<br>(METERS)<br>BY | EMISSION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |      |
|-----------------------------------------------|-------------------------|----------------------------------|-----------------------|--------------------------------------------------------|-----------------------------------|---------------------------|------|
| L0000041                                      | 0.00                    | 4.19                             | 0.00                  | 0.47780E-06                                            | 384607.6                          | 3774990.2                 | 95.8 |
| L0000042                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384616.6                          | 3774989.9                 | 95.3 |
| L0000043                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384625.6                          | 3774989.4                 | 94.9 |
| L0000044                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384634.6                          | 3774988.9                 | 94.4 |
| L0000045                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384643.5                          | 3774988.4                 | 94.1 |
| L0000046                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384652.5                          | 3774987.9                 | 93.7 |
| L0000047                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384661.5                          | 3774987.4                 | 93.3 |
| L0000048                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384670.5                          | 3774986.9                 | 93.0 |
| L0000049                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384679.5                          | 3774986.3                 | 92.6 |
| L0000050                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384688.5                          | 3774985.8                 | 92.3 |
| L0000051                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384697.5                          | 3774985.3                 | 91.9 |
| L0000052                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384706.4                          | 3774984.6                 | 91.5 |
| L0000053                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384715.4                          | 3774983.6                 | 91.4 |
| L0000054                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384724.3                          | 3774982.6                 | 91.3 |
| L0000055                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384733.3                          | 3774981.5                 | 91.2 |

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|          |      |      |      |     |          |           |      |
|----------|------|------|------|-----|----------|-----------|------|
| L0000056 | 0.00 | 4.19 | 0.70 | YES | 384742.2 | 3774980.5 | 91.2 |
| L0000057 | 0.00 | 4.19 | 0.70 | YES | 384751.2 | 3774979.8 | 91.1 |
| L0000058 | 0.00 | 4.19 | 0.70 | YES | 384760.2 | 3774979.4 | 91.1 |
| L0000059 | 0.00 | 4.19 | 0.70 | YES | 384769.1 | 3774979.0 | 91.1 |
| L0000060 | 0.00 | 4.19 | 0.70 | YES | 384778.1 | 3774978.5 | 91.0 |
| L0000061 | 0.00 | 4.19 | 0.70 | YES | 384787.1 | 3774978.1 | 91.0 |
| L0000062 | 0.00 | 4.19 | 0.70 | YES | 384795.6 | 3774980.8 | 91.0 |
| L0000063 | 0.00 | 4.19 | 0.70 | YES | 384804.1 | 3774983.9 | 91.0 |
| L0000064 | 0.00 | 4.19 | 0.70 | YES | 384811.5 | 3774988.7 | 91.0 |
| L0000065 | 0.00 | 4.19 | 0.70 | YES | 384818.3 | 3774994.7 | 91.0 |
| L0000066 | 0.00 | 4.19 | 0.70 | YES | 384824.5 | 3775001.1 | 91.0 |
| L0000067 | 0.00 | 4.19 | 0.70 | YES | 384828.8 | 3775008.9 | 91.0 |
| L0000068 | 0.00 | 4.19 | 0.70 | YES | 384833.2 | 3775016.8 | 91.0 |
| L0000069 | 0.00 | 4.19 | 0.70 | YES | 384837.6 | 3775024.7 | 91.0 |
| L0000070 | 0.00 | 4.19 | 0.70 | YES | 384841.9 | 3775032.5 | 91.0 |
| L0000071 | 0.00 | 4.19 | 0.70 | YES | 384846.3 | 3775040.4 | 91.0 |
| L0000072 | 0.00 | 4.19 | 0.70 | YES | 384850.9 | 3775048.1 | 91.0 |
| L0000073 | 0.00 | 4.19 | 0.70 | YES | 384855.6 | 3775055.9 | 91.0 |
| L0000074 | 0.00 | 4.19 | 0.70 | YES | 384860.2 | 3775063.6 | 91.2 |
| L0000075 | 0.00 | 4.19 | 0.70 | YES | 384864.8 | 3775071.3 | 91.5 |
| L0000076 | 0.00 | 4.19 | 0.70 | YES | 384869.4 | 3775079.0 | 91.8 |
| L0000077 | 0.00 | 4.19 | 0.70 | YES | 384874.0 | 3775086.8 | 92.2 |
| L0000078 | 0.00 | 4.19 | 0.70 | YES | 384879.1 | 3775094.2 | 92.5 |
| L0000079 | 0.00 | 4.19 | 0.70 | YES | 384884.5 | 3775101.4 | 92.8 |
| L0000080 | 0.00 | 4.19 | 0.70 | YES | 384889.8 | 3775108.6 | 93.2 |

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\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Users\Brett Pomeroy  
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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

SOURCE DATA \*\*\*

\*\*\* VOLUME

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>SZ<br>(METERS) | NUMBER<br>(GRAMS/SEC) | EMISSION<br>RATE<br>X<br>SCALAR VARY<br>(METERS)<br>BY | EMISSION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |      |
|-----------------------------------------------|-------------------------|----------------------------------|-----------------------|--------------------------------------------------------|-----------------------------------|---------------------------|------|
| L0000081                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384895.3                          | 3775115.8                 | 93.6 |
| L0000082                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384901.1                          | 3775122.7                 | 94.0 |
| L0000083                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384906.9                          | 3775129.5                 | 94.4 |
| L0000084                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384912.7                          | 3775136.4                 | 94.8 |
| L0000085                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384918.5                          | 3775143.3                 | 95.2 |
| L0000086                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384924.3                          | 3775150.1                 | 95.6 |
| L0000087                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384930.9                          | 3775156.3                 | 96.0 |
| L0000088                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384937.6                          | 3775162.4                 | 96.3 |
| L0000089                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384944.2                          | 3775168.5                 | 96.7 |
| L0000090                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384950.8                          | 3775174.5                 | 97.2 |
| L0000091                                      | 0.00                    | 4.19                             | 0.70                  | YES                                                    | 384957.4                          | 3775180.6                 | 97.6 |

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

DEFINING SOURCE GROUPS \*\*\*

\*\*\* SOURCE IDs

| SRCGROUP ID | SOURCE                           |
|-------------|----------------------------------|
| ALL         |                                  |
| L0000004    | L0000001 , L0000002 , L0000003 , |
| L0000008    | L0000005 , L0000006 , L0000007 , |
| L0000012    | L0000009 , L0000010 , L0000011 , |
| L0000016    | L0000013 , L0000014 , L0000015 , |
| L0000020    | L0000017 , L0000018 , L0000019 , |
| L0000024    | L0000021 , L0000022 , L0000023 , |
| L0000028    | L0000025 , L0000026 , L0000027 , |
| L0000032    | L0000029 , L0000030 , L0000031 , |
| L0000036    | L0000033 , L0000034 , L0000035 , |
| L0000040    | L0000037 , L0000038 , L0000039 , |
| L0000044    | L0000041 , L0000042 , L0000043 , |
| L0000048    | L0000045 , L0000046 , L0000047 , |
| L0000052    | L0000049 , L0000050 , L0000051 , |
| L0000056    | L0000053 , L0000054 , L0000055 , |
| L0000060    | L0000057 , L0000058 , L0000059 , |
| L0000064    | L0000061 , L0000062 , L0000063 , |
| L0000065    | L0000065 , L0000066 , L0000067 , |

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L0000068 , L0000069 , L0000070 , L0000071 ,  
L0000072 ,  
  
L0000076 L0000073 , L0000074 , L0000075 ,  
L0000080 , L0000077 , L0000078 , L0000079 ,  
  
L0000084 L0000081 , L0000082 , L0000083 ,  
L0000088 , L0000085 , L0000086 , L0000087 ,  
  
L0000089 , L0000090 , L0000091 ,

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

\*\*\* SOURCE IDs DEFINED

| URBAN ID<br>IDS                  | URBAN POP                        | SOURCE                                         |
|----------------------------------|----------------------------------|------------------------------------------------|
| L0000003<br>L0000007<br>L0000008 | 9862049.<br>L0000004<br>L0000005 | L0000001 , L0000002 ,<br>L0000006 ,            |
| L0000012<br>L0000016             | L0000009<br>L0000013             | L0000010 , L0000011 ,<br>L0000014 , L0000015 , |
| L0000020<br>L0000024             | L0000017<br>L0000021             | L0000018 , L0000019 ,<br>L0000022 , L0000023 , |
| L0000028<br>L0000032             | L0000025<br>L0000029             | L0000026 , L0000027 ,<br>L0000030 , L0000031 , |
| L0000036<br>L0000040             | L0000033<br>L0000037             | L0000034 , L0000035 ,<br>L0000038 , L0000039 , |
| L0000044<br>L0000048             | L0000041<br>L0000045             | L0000042 , L0000043 ,<br>L0000046 , L0000047 , |
| L0000052<br>L0000056             | L0000049<br>L0000053             | L0000050 , L0000051 ,<br>L0000054 , L0000055 , |
| L0000060<br>L0000064             | L0000057<br>L0000061             | L0000058 , L0000059 ,<br>L0000062 , L0000063 , |

L0000068 L0000065 , L0000066 , L0000067 ,  
L0000072 , L0000069 , L0000070 , L0000071 ,  
  
L0000076 L0000073 , L0000074 , L0000075 ,  
L0000080 , L0000077 , L0000078 , L0000079 ,  
  
L0000084 L0000081 , L0000082 , L0000083 ,  
L0000088 , L0000085 , L0000086 , L0000087 ,  
  
L0000089 , L0000090 , L0000091 ,

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

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

(METERS)

|                        |       |       |       |
|------------------------|-------|-------|-------|
| ( 384981.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 384927.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384945.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384963.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384981.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384909.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384927.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384945.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384963.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384981.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384837.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384855.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384909.6, 3774976.1, | 91.1, | 91.1, | 0.0); |
| ( 384927.6, 3774976.1, | 91.1, | 91.1, | 0.0); |
| ( 384945.6, 3774976.1, | 91.2, | 91.2, | 0.0); |
| ( 384963.6, 3774976.1, | 91.2, | 91.2, | 0.0); |
| ( 384981.6, 3774976.1, | 91.3, | 91.3, | 0.0); |
| ( 384999.6, 3774976.1, | 91.3, | 91.3, | 0.0); |
| ( 385017.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384837.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384855.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774989.1, | 91.1, | 91.1, | 0.0); |
| ( 384909.6, 3774989.1, | 91.2, | 91.2, | 0.0); |
| ( 384927.6, 3774989.1, | 91.2, | 91.2, | 0.0); |
| ( 384945.6, 3774989.1, | 91.3, | 91.3, | 0.0); |

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**MODELOPTS: RegDFAULT CONC ELEV URBAN

*** UP TO THE FIRST 24 HOURS

OF METEOROLOGICAL DATA ***

Surface file: ..\cela8.sfc
Met Version: 14134
Profile file: ..\cela8.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air
station no.: 3190
Name: UNKNOWN
Year: 2006

First 24 hours of scalar data
YR MO DY JDY HR H0 U* W* DT/DZ ZICNV ZIMCH M-0 LEN
Z0 BOWEN ALBEDO REF WS WD HT REF TA HT
-----
06 01 01 1 01 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 347. 9.1 286.4 5.5
06 01 01 1 02 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 81. 9.1 286.4 5.5
06 01 01 1 03 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 66. 9.1 286.4 5.5
06 01 01 1 04 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 23. 9.1 285.9 5.5
06 01 01 1 05 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 61. 9.1 285.4 5.5
06 01 01 1 06 -6.5 0.093 -9.000 -9.000 -999. 68. 11.2
0.56 1.00 1.00 1.30 83. 9.1 285.4 5.5
06 01 01 1 07 -11.6 0.210 -9.000 -9.000 -999. 232. 71.6
0.56 1.00 1.00 1.80 64. 9.1 285.4 5.5
06 01 01 1 08 -6.0 0.093 -9.000 -9.000 -999. 77. 12.0
0.56 1.00 0.55 1.30 46. 9.1 285.4 5.5
06 01 01 1 09 26.6 0.340 0.706 0.005 474. 476. -132.1
0.56 1.00 0.32 2.20 87. 9.1 286.4 5.5
06 01 01 1 10 21.0 0.284 0.736 0.005 681. 364. -97.2
0.56 1.00 0.24 1.80 76. 9.1 286.4 5.5
06 01 01 1 11 35.8 0.230 0.921 0.005 780. 266. -30.3
0.56 1.00 0.21 1.30 66. 9.1 287.5 5.5
06 01 01 1 12 14.9 0.331 0.694 0.008 804. 458. -218.6

```

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0.56 1.00 0.20 2.20 79. 9.1 287.5 5.5
06 01 01 1 13 26.4 0.460 0.854 0.012 844. 749. -330.2
0.56 1.00 0.20 3.10 76. 9.1 287.5 5.5
06 01 01 1 14 39.0 0.466 0.995 0.015 902. 763. -231.5
0.56 1.00 0.21 3.10 80. 9.1 288.1 5.5
06 01 01 1 15 11.4 0.328 0.664 0.015 917. 466. -277.7
0.56 1.00 0.25 2.20 85. 9.1 287.5 5.5
06 01 01 1 16 0.1 0.445 0.137 0.015 917. 712. -8888.0
0.56 1.00 0.33 3.10 75. 9.1 287.0 5.5
06 01 01 1 17 -21.5 0.423 -9.000 -9.000 -999. 661. 315.0
0.56 1.00 0.60 3.10 82. 9.1 286.4 5.5
06 01 01 1 18 -33.6 0.332 -9.000 -9.000 -999. 464. 97.1
0.56 1.00 1.00 2.70 101. 9.1 286.4 5.5
06 01 01 1 19 -30.9 0.412 -9.000 -9.000 -999. 634. 201.9
0.56 1.00 1.00 3.10 97. 9.1 285.9 5.5
06 01 01 1 20 -34.9 0.630 -9.000 -9.000 -999. 1200. 640.4
0.56 1.00 1.00 4.50 92. 9.1 284.9 5.5
06 01 01 1 21 -47.1 0.624 -9.000 -9.000 -999. 1183. 460.9
0.56 1.00 1.00 4.50 88. 9.1 284.2 5.5
06 01 01 1 22 -62.8 0.616 -9.000 -9.000 -999. 1160. 332.6
0.56 1.00 1.00 4.50 91. 9.1 284.9 5.5
06 01 01 1 23 -61.4 0.816 -9.000 -9.000 -999. 1765. 791.1
0.56 1.00 1.00 5.80 82. 9.1 285.4 5.5
06 01 01 1 24 -45.3 0.820 -9.000 -9.000 -999. 1783. 1090.2
0.56 1.00 1.00 5.80 84. 9.1 285.9 5.5

```

```

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

```

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

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**MODELOPTS: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):
L0000001 , L0000002 , L0000003 , L0000004 ,
L0000005 ,
L0000006 , L0000007 , L0000008 ,
L0000009 , L0000010 , L0000011 , L0000012 ,
L0000013 ,
L0000014 , L0000015 , L0000016 ,
L0000017 , L0000018 , L0000019 , L0000020 ,
L0000021 ,
L0000022 , L0000023 , L0000024 ,
L0000025 , L0000026 , L0000027 ,
L0000028 , . . .

*** DISCRETE

CARTESIAN RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF DPM IN
X-COORD (M) Y-COORD (M) CONC
X-COORD (M) Y-COORD (M) CONC
-----
384981.56 3774937.12 0.00908
384999.56 3774937.12 0.00843
385017.56 3774937.12 0.00785
384927.56 3774950.12 0.01218
384945.56 3774950.12 0.01110
384963.56 3774950.12 0.01018
384981.56 3774950.12 0.00939
384999.56 3774950.12 0.00870
385017.56 3774950.12 0.00810
384873.56 3774963.12 0.01808
384891.56 3774963.12 0.01584
384909.56 3774963.12 0.01409
384927.56 3774963.12 0.01269
384945.56 3774963.12 0.01153
384963.56 3774963.12 0.01056
384981.56 3774963.12 0.00973
384999.56 3774963.12 0.00900
385017.56 3774963.12 0.00837

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384837.56 3774976.12 0.02788
384855.56 3774976.12 0.02264
384873.56 3774976.12 0.01918
384891.56 3774976.12 0.01668
384909.56 3774976.12 0.01477
384927.56 3774976.12 0.01326
384945.56 3774976.12 0.01202
384963.56 3774976.12 0.01098
384981.56 3774976.12 0.01010
384999.56 3774976.12 0.00934
385017.56 3774976.12 0.00867
384837.56 3774989.12 0.03147
384855.56 3774989.12 0.02455
384873.56 3774989.12 0.02047
384891.56 3774989.12 0.01765
384909.56 3774989.12 0.01555
384927.56 3774989.12 0.01390
384945.56 3774989.12 0.01256
384963.56 3774989.12 0.01145
384981.56 3774989.12 0.01051
384999.56 3774989.12 0.00970
385017.56 3774989.12 0.00900
384855.56 3775002.12 0.02694
384873.56 3775002.12 0.02199
384891.56 3775002.12 0.01877
384909.56 3775002.12 0.01642
384927.56 3775002.12 0.01462
384945.56 3775002.12 0.01317
384963.56 3775002.12 0.01197
384981.56 3775002.12 0.01097
384999.56 3775002.12 0.01010
385017.56 3775002.12 0.00935
384855.56 3775015.12 0.03005
384873.56 3775015.12 0.02383
384891.56 3775015.12 0.02007
384909.56 3775015.12 0.01743
384927.56 3775015.12 0.01543
384945.56 3775015.12 0.01385
384963.56 3775015.12 0.01256
384981.56 3775015.12 0.01147
384999.56 3775015.12 0.01055
385017.56 3775015.12 0.00975
385035.56 3775015.12 0.00904
384873.56 3775028.12 0.02611
384891.56 3775028.12 0.02162
384909.56 3775028.12 0.01860
384927.56 3775028.12 0.01637
384945.56 3775028.12 0.01463
384963.56 3775028.12 0.01322
384981.56 3775028.12 0.01204
384999.56 3775028.12 0.01104

```

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385017.56 3775028.12 0.01018  
385035.56 3775028.12 0.00943  
384891.56 3775041.12 0.02350  
384909.56 3775041.12 0.01999  
384927.56 3775041.12 0.01747  
384945.56 3775041.12 0.01553  
384963.56 3775041.12 0.01397  
384981.56 3775041.12 0.01269  
384999.56 3775041.12 0.01160  
385017.56 3775041.12 0.01067

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN  
\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES  
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL  
INCLUDING SOURCE(S):  
L0000001 , L0000002 , L0000003 , L0000004 ,  
L0000005 , L0000006 , L0000007 , L0000008 ,  
L0000009 , L0000010 , L0000011 , L0000012 ,  
L0000013 , L0000014 , L0000015 , L0000016 ,  
L0000017 , L0000018 , L0000019 , L0000020 ,  
L0000021 , L0000022 , L0000023 , L0000024 ,  
L0000025 , L0000026 , L0000027 ,  
L0000028 , . . . ,

\*\*\* DISCRETE  
CARTESIAN RECEPTOR POINTS \*\*\*  
\*\* CONC OF DPM IN  
\*\*  
MICROGRAMS/M\*\*3  
X-COORD (M) Y-COORD (M) CONC  
X-COORD (M) Y-COORD (M) CONC  
-----  
385035.56 3775041.12 0.00986  
384927.56 3775054.12 0.01876  
384945.56 3775054.12 0.01657  
384963.56 3775054.12 0.01484  
384981.56 3775054.12 0.01342  
384999.56 3775054.12 0.01223  
385017.56 3775054.12 0.01121  
385035.56 3775054.12 0.01033  
384945.56 3775067.12 0.01785  
384963.56 3775067.12 0.01588  
384981.56 3775067.12 0.01429  
384999.56 3775067.12 0.01297  
385017.56 3775067.12 0.01185  
385035.56 3775067.12 0.01089  
384981.56 3775080.12 0.01530  
384999.56 3775080.12 0.01381  
385017.56 3775080.12 0.01257  
385035.56 3775080.12 0.01150

384999.56 3775093.12 0.01479  
385017.56 3775093.12 0.01339  
385035.56 3775093.12 0.01220  
385035.56 3775106.12 0.01300

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN  
\*\*\* THE SUMMARY OF MAXIMUM  
ANNUAL RESULTS AVERAGED OVER 5 YEARS \*\*\*  
\*\* CONC OF DPM IN  
\*\*  
MICROGRAMS/M\*\*3  
NETWORK  
GROUP ID AVERAGE CONC  
RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID  
-----  
ALL 1ST HIGHEST VALUE IS 0.03147 AT ( 384837.56,  
3774989.12, 91.00, 91.00, 0.00) DC  
2ND HIGHEST VALUE IS 0.03005 AT ( 384855.56,  
3775015.12, 91.00, 91.00, 0.00) DC  
3RD HIGHEST VALUE IS 0.02788 AT ( 384837.56,  
3774976.12, 91.00, 91.00, 0.00) DC  
4TH HIGHEST VALUE IS 0.02694 AT ( 384855.56,  
3775002.12, 91.00, 91.00, 0.00) DC  
5TH HIGHEST VALUE IS 0.02611 AT ( 384873.56,  
3775028.12, 91.09, 91.09, 0.00) DC  
6TH HIGHEST VALUE IS 0.02455 AT ( 384855.56,  
3774989.12, 91.00, 91.00, 0.00) DC  
7TH HIGHEST VALUE IS 0.02383 AT ( 384873.56,  
3775015.12, 91.07, 91.07, 0.00) DC  
8TH HIGHEST VALUE IS 0.02350 AT ( 384891.56,  
3775041.12, 91.30, 91.30, 0.00) DC  
9TH HIGHEST VALUE IS 0.02264 AT ( 384855.56,  
3774976.12, 91.00, 91.00, 0.00) DC  
10TH HIGHEST VALUE IS 0.02199 AT ( 384873.56,  
3775002.12, 91.05, 91.05, 0.00) DC

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

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 756 Informational Message(s)

A Total of 43800 Hours Were Processed

A Total of 4 Calm Hours Identified

A Total of 752 Missing Hours Identified ( 1.72  
Percent)

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

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

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

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**
*****
** AERMOD Input Produced by:
** AERMOD View Ver. 9.2.0
** Lakes Environmental Software Inc.
** Date: 2/20/2017
** File: C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD\Casitas HRA\TOGChronic\TOGChronic.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD
  MODELOPT DEFAULT CONC
  AVERTIME 8 ANNUAL
  URBANOPT 9862049
  POLLUTID TOGCHRON
  RUNORNOT RUN
  ERRORFIL TOGChronic.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Glendale Fwy
** PREFIX
** Length of Side = 39.00
** Configuration = Adjacent
** Emission Rate = 0.0039
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 8
** 385251.397, 3775445.306, 109.99, 0.00, 18.14
** 384940.062, 3775201.653, 96.19, 0.00, 18.14

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1

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** 384851.110, 3775122.369, 91.17, 0.00, 18.14
** 384808.567, 3775062.423, 91.08, 0.00, 18.14
** 384762.157, 3774973.470, 91.05, 0.00, 18.14
** 384738.952, 3774880.650, 92.94, 0.00, 18.14
** 384731.217, 3774807.167, 94.35, 0.00, 18.14
** 384731.217, 3774569.315, 98.20, 0.00, 18.14
-----
LOCATION L0000092 VOLUME 385236.040 3775433.288 110.00
LOCATION L0000093 VOLUME 385205.328 3775409.252 109.11
LOCATION L0000094 VOLUME 385174.615 3775385.216 108.17
LOCATION L0000095 VOLUME 385143.902 3775361.180 106.85
LOCATION L0000096 VOLUME 385113.190 3775337.144 105.53
LOCATION L0000097 VOLUME 385082.477 3775313.108 104.37
LOCATION L0000098 VOLUME 385051.764 3775289.072 103.22
LOCATION L0000099 VOLUME 385021.052 3775265.036 101.85
LOCATION L0000100 VOLUME 384990.339 3775241.000 100.27
LOCATION L0000101 VOLUME 384959.626 3775216.964 98.73
LOCATION L0000102 VOLUME 384929.494 3775192.233 97.09
LOCATION L0000103 VOLUME 384900.380 3775166.284 95.49
LOCATION L0000104 VOLUME 384871.266 3775140.334 93.88
LOCATION L0000105 VOLUME 384844.165 3775112.583 92.99
LOCATION L0000106 VOLUME 384821.594 3775080.779 91.93
LOCATION L0000107 VOLUME 384800.939 3775047.802 91.00
LOCATION L0000108 VOLUME 384782.899 3775013.225 91.06
LOCATION L0000109 VOLUME 384764.858 3774978.648 91.08
LOCATION L0000110 VOLUME 384754.115 3774941.361 91.36
LOCATION L0000111 VOLUME 384744.656 3774903.465 92.02
LOCATION L0000112 VOLUME 384737.331 3774865.252 92.76
LOCATION L0000113 VOLUME 384733.248 3774826.467 93.51
LOCATION L0000114 VOLUME 384731.217 3774787.573 94.25
LOCATION L0000115 VOLUME 384731.217 3774748.573 94.82
LOCATION L0000116 VOLUME 384731.217 3774709.573 95.37
LOCATION L0000117 VOLUME 384731.217 3774670.573 96.05
LOCATION L0000118 VOLUME 384731.217 3774631.573 96.89
LOCATION L0000119 VOLUME 384731.217 3774592.573 97.73
** End of LINE VOLUME Source ID = SLINE1
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Fletcher Ramp
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 0.000183
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 13
** 384495.216, 3774987.675, 99.50, 0.00, 4.19
** 384523.422, 3774990.239, 98.24, 0.00, 4.19

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2

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** 384609.962, 3774990.239, 94.68, 0.00, 4.19
** 384701.631, 3774985.111, 91.27, 0.00, 4.19
** 384747.145, 3774979.982, 91.29, 0.00, 4.19
** 384788.172, 3774978.059, 91.02, 0.00, 4.19
** 384807.403, 3774985.111, 91.05, 0.00, 4.19
** 384823.429, 3774999.214, 91.07, 0.00, 4.19
** 384845.865, 3775039.599, 91.00, 0.00, 4.19
** 384875.448, 3775089.231, 91.12, 0.00, 4.19
** 384893.975, 3775114.243, 91.31, 0.00, 4.19
** 384924.545, 3775150.371, 95.25, 0.00, 4.19
** 384959.747, 3775182.793, 96.84, 0.00, 4.19
**
-----
LOCATION L0000120 VOLUME 384499.698 3774988.082 100.42
LOCATION L0000121 VOLUME 384508.661 3774988.897 100.08
LOCATION L0000122 VOLUME 384517.624 3774989.712 99.74
LOCATION L0000123 VOLUME 384526.600 3774990.239 99.40
LOCATION L0000124 VOLUME 384535.600 3774990.239 99.05
LOCATION L0000125 VOLUME 384544.600 3774990.239 98.70
LOCATION L0000126 VOLUME 384553.600 3774990.239 98.35
LOCATION L0000127 VOLUME 384562.600 3774990.239 97.94
LOCATION L0000128 VOLUME 384571.600 3774990.239 97.50
LOCATION L0000129 VOLUME 384580.600 3774990.239 97.06
LOCATION L0000130 VOLUME 384589.600 3774990.239 96.62
LOCATION L0000131 VOLUME 384598.600 3774990.239 96.19
LOCATION L0000132 VOLUME 384607.600 3774990.239 95.75
LOCATION L0000133 VOLUME 384616.590 3774989.868 95.31
LOCATION L0000134 VOLUME 384625.576 3774989.366 94.86
LOCATION L0000135 VOLUME 384634.562 3774988.863 94.43
LOCATION L0000136 VOLUME 384643.547 3774988.360 94.07
LOCATION L0000137 VOLUME 384652.533 3774987.857 93.71
LOCATION L0000138 VOLUME 384661.519 3774987.355 93.35
LOCATION L0000139 VOLUME 384670.505 3774986.852 92.99
LOCATION L0000140 VOLUME 384679.491 3774986.349 92.63
LOCATION L0000141 VOLUME 384688.477 3774985.847 92.27
LOCATION L0000142 VOLUME 384697.463 3774985.344 91.91
LOCATION L0000143 VOLUME 384706.426 3774984.841 91.55
LOCATION L0000144 VOLUME 384715.370 3774984.338 91.19
LOCATION L0000145 VOLUME 384724.313 3774983.835 90.83
LOCATION L0000146 VOLUME 384733.257 3774983.332 90.47
LOCATION L0000147 VOLUME 384742.200 3774982.829 90.11
LOCATION L0000148 VOLUME 384751.164 3774982.326 89.75
LOCATION L0000149 VOLUME 384760.154 3774981.823 89.39
LOCATION L0000150 VOLUME 384769.145 3774981.320 89.03
LOCATION L0000151 VOLUME 384778.135 3774980.817 88.67
LOCATION L0000152 VOLUME 384787.125 3774980.314 88.31
LOCATION L0000153 VOLUME 384795.638 3774979.811 87.95
LOCATION L0000154 VOLUME 384804.087 3774979.308 87.59
LOCATION L0000155 VOLUME 384811.508 3774988.723 91.00
LOCATION L0000156 VOLUME 384818.265 3774994.669 91.00
LOCATION L0000157 VOLUME 384824.459 3775001.068 91.00
LOCATION L0000158 VOLUME 384828.830 3775008.935 91.00

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3

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LOCATION L0000159 VOLUME 384833.201 3775016.803 91.00
LOCATION L0000160 VOLUME 384837.571 3775024.670 91.00
LOCATION L0000161 VOLUME 384841.942 3775032.537 91.00
LOCATION L0000162 VOLUME 384846.337 3775040.391 91.00
LOCATION L0000163 VOLUME 384850.945 3775048.122 91.00
LOCATION L0000164 VOLUME 384855.553 3775055.853 91.00
LOCATION L0000165 VOLUME 384860.161 3775063.583 91.25
LOCATION L0000166 VOLUME 384864.769 3775071.314 91.49
LOCATION L0000167 VOLUME 384869.377 3775079.045 91.82
LOCATION L0000168 VOLUME 384873.985 3775086.776 92.16
LOCATION L0000169 VOLUME 384879.104 3775094.167 92.50
LOCATION L0000170 VOLUME 384884.461 3775101.399 92.85
LOCATION L0000171 VOLUME 384889.818 3775108.631 93.22
LOCATION L0000172 VOLUME 384895.277 3775115.782 93.59
LOCATION L0000173 VOLUME 384901.091 3775122.652 93.98
LOCATION L0000174 VOLUME 384906.904 3775129.523 94.37
LOCATION L0000175 VOLUME 384912.710 3775136.393 94.78
LOCATION L0000176 VOLUME 384918.531 3775143.264 95.19
LOCATION L0000177 VOLUME 384924.345 3775150.134 95.60
LOCATION L0000178 VOLUME 384930.937 3775156.258 95.97
LOCATION L0000179 VOLUME 384937.557 3775162.355 96.34
LOCATION L0000180 VOLUME 384944.177 3775168.453 96.73
LOCATION L0000181 VOLUME 384950.797 3775174.550 97.16
LOCATION L0000182 VOLUME 384957.417 3775180.647 97.58
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
SRCPARAM L0000092 0.0001392857 0.00 18.14
0.70
SRCPARAM L0000093 0.0001392857 0.00 18.14
0.70
SRCPARAM L0000094 0.0001392857 0.00 18.14
0.70
SRCPARAM L0000095 0.0001392857 0.00 18.14
0.70
SRCPARAM L0000096 0.0001392857 0.00 18.14
0.70
SRCPARAM L0000097 0.0001392857 0.00 18.14
0.70
SRCPARAM L0000098 0.0001392857 0.00 18.14
0.70
SRCPARAM L0000099 0.0001392857 0.00 18.14
0.70
SRCPARAM L0000100 0.0001392857 0.00 18.14
0.70
SRCPARAM L0000101 0.0001392857 0.00 18.14
0.70
SRCPARAM L0000102 0.0001392857 0.00 18.14
0.70
SRCPARAM L0000103 0.0001392857 0.00 18.14
0.70
SRCPARAM L0000104 0.0001392857 0.00 18.14

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4

0.70  
SRCPARAM L0000105 0.0001392857 0.00 18.14  
0.70  
SRCPARAM L0000106 0.0001392857 0.00 18.14  
0.70  
SRCPARAM L0000107 0.0001392857 0.00 18.14  
0.70  
SRCPARAM L0000108 0.0001392857 0.00 18.14  
0.70  
SRCPARAM L0000109 0.0001392857 0.00 18.14  
0.70  
SRCPARAM L0000110 0.0001392857 0.00 18.14  
0.70  
SRCPARAM L0000111 0.0001392857 0.00 18.14  
0.70  
SRCPARAM L0000112 0.0001392857 0.00 18.14  
0.70  
SRCPARAM L0000113 0.0001392857 0.00 18.14  
0.70  
SRCPARAM L0000114 0.0001392857 0.00 18.14  
0.70  
SRCPARAM L0000115 0.0001392857 0.00 18.14  
0.70  
SRCPARAM L0000116 0.0001392857 0.00 18.14  
0.70  
SRCPARAM L0000117 0.0001392857 0.00 18.14  
0.70  
SRCPARAM L0000118 0.0001392857 0.00 18.14  
0.70  
SRCPARAM L0000119 0.0001392857 0.00 18.14  
0.70  
\*\* -----

\*\* LINE VOLUME Source ID = SLINE2  
SRCPARAM L0000120 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000121 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000122 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000123 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000124 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000125 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000126 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000127 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000128 0.000002905 0.00 4.19  
0.70

5

SRCPARAM L0000129 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000130 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000131 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000132 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000133 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000134 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000135 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000136 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000137 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000138 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000139 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000140 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000141 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000142 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000143 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000144 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000145 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000146 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000147 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000148 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000149 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000150 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000151 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000152 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000153 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000154 0.000002905 0.00 4.19  
0.70

6

SRCPARAM L0000155 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000156 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000157 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000158 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000159 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000160 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000161 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000162 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000163 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000164 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000165 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000166 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000167 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000168 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000169 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000170 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000171 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000172 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000173 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000174 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000175 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000176 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000177 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000178 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000179 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000180 0.000002905 0.00 4.19  
0.70

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SRCPARAM L0000181 0.000002905 0.00 4.19  
0.70  
SRCPARAM L0000182 0.000002905 0.00 4.19  
0.70  
\*\* -----  
URBANSRC ALL  
SRCGROUP ALL  
SO FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Receptor Pathway  
\*\*\*\*\*  
\*\*  
\*\*  
RE STARTING  
INCLUDED TOGChronic.rou  
RE FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*  
\*\*  
ME STARTING  
SURFFILE ..\cela8.sfc  
PROFFILE ..\cela8.PFL  
SURFDATA 0 2006  
UAIRDATA 3190 2006  
SITEDATA 99999 2006  
PROFBASE 87.0 METERS  
ME FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*  
\*\*  
OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 8 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 8 ALL 1ST TOGCHRONIC.AD\08H1GALL.PLT 31  
PLOTFILE ANNUAL ALL TOGCHRONIC.AD\AN00GALL.PLT 32  
SUMMFILE TOGChronic.sum  
OU FINISHED  
\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

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*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
\Dropbox\Pomeroy Environmental Services\AERMOD ***
02/20/17
*** AERMET - VERSION 14134 *** ***
22:04:08

PAGE 1
**MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

**Model Uses URBAN Dispersion Algorithm for the SBL for 91
Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length =
1.000 m

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

**Other Options Specified:
TEMP_Sub - Meteorological data includes TEMP
substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: TOGCHRON

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

**This Run Includes: 91 Source(s); 1 Source Group(s);
and 102 Receptor(s)

with: 0 POINT(s), including

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0 POINTCAP(s) and 0 POINTHOR(s)
and: 91 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 OPENPIT source(s)

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

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs Tables of Highest Short Term Values by
Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for
Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked
Values (SUMMFILE Keyword)

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =
87.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = ; Emission Rate Unit
GRAMS/SEC ;
Factor = 0.10000E+07 Output Units = MICROGRAMS/M**3

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

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

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*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
\Dropbox\Pomeroy Environmental Services\AERMOD ***
02/20/17
*** AERMET - VERSION 14134 *** ***
22:04:08

PAGE 2
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** VOLUME
SOURCE DATA ***

RELEASE INIT. INIT. URBAN EMISSION RATE BASE
SOURCE PART. (GRAMS/SEC) X ELEV.
HEIGHT SY SZ SOURCE SCALAR VARY Y
ID CATS SOURCE (METERS) (METERS)
(METERS) (METERS) (METERS) BY
-----
L0000092 0 0.13929E-03 385236.0 3775433.3 110.0
0.00 18.14 0.70 YES
L0000093 0 0.13929E-03 385205.3 3775409.3 109.1
0.00 18.14 0.70 YES
L0000094 0 0.13929E-03 385174.6 3775385.2 108.2
0.00 18.14 0.70 YES
L0000095 0 0.13929E-03 385143.9 3775361.2 106.8
0.00 18.14 0.70 YES
L0000096 0 0.13929E-03 385113.2 3775337.1 105.5
0.00 18.14 0.70 YES
L0000097 0 0.13929E-03 385082.5 3775313.1 104.4
0.00 18.14 0.70 YES
L0000098 0 0.13929E-03 385051.8 3775289.1 103.2
0.00 18.14 0.70 YES
L0000099 0 0.13929E-03 385021.1 3775265.0 101.8
0.00 18.14 0.70 YES
L0000100 0 0.13929E-03 384990.3 3775241.0 100.3
0.00 18.14 0.70 YES
L0000101 0 0.13929E-03 384959.6 3775217.0 98.7
0.00 18.14 0.70 YES
L0000102 0 0.13929E-03 384929.5 3775192.2 97.1
0.00 18.14 0.70 YES
L0000103 0 0.13929E-03 384900.4 3775166.3 95.5
0.00 18.14 0.70 YES
L0000104 0 0.13929E-03 384871.3 3775140.3 93.9
0.00 18.14 0.70 YES
L0000105 0 0.13929E-03 384844.2 3775112.6 93.0
0.00 18.14 0.70 YES
L0000106 0 0.13929E-03 384821.6 3775080.8 91.9
0.00 18.14 0.70 YES

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L0000107 0 0.13929E-03 384800.9 3775047.8 91.0
0.00 18.14 0.70 YES
L0000108 0 0.13929E-03 384782.9 3775013.2 91.1
0.00 18.14 0.70 YES
L0000109 0 0.13929E-03 384764.9 3774978.6 91.1
0.00 18.14 0.70 YES
L0000110 0 0.13929E-03 384754.1 3774941.3 91.4
0.00 18.14 0.70 YES
L0000111 0 0.13929E-03 384744.7 3774903.5 92.0
0.00 18.14 0.70 YES
L0000112 0 0.13929E-03 384737.3 3774865.3 92.8
0.00 18.14 0.70 YES
L0000113 0 0.13929E-03 384733.2 3774826.5 93.5
0.00 18.14 0.70 YES
L0000114 0 0.13929E-03 384731.2 3774787.6 94.2
0.00 18.14 0.70 YES
L0000115 0 0.13929E-03 384731.2 3774748.6 94.8
0.00 18.14 0.70 YES
L0000116 0 0.13929E-03 384731.2 3774709.6 95.4
0.00 18.14 0.70 YES
L0000117 0 0.13929E-03 384731.2 3774670.6 96.0
0.00 18.14 0.70 YES
L0000118 0 0.13929E-03 384731.2 3774631.6 96.9
0.00 18.14 0.70 YES
L0000119 0 0.13929E-03 384731.2 3774592.6 97.7
0.00 18.14 0.70 YES
L0000120 0 0.29050E-05 384499.7 3774988.1 100.4
0.00 4.19 0.70 YES
L0000121 0 0.29050E-05 384508.7 3774988.9 100.1
0.00 4.19 0.70 YES
L0000122 0 0.29050E-05 384517.6 3774989.7 99.7
0.00 4.19 0.70 YES
L0000123 0 0.29050E-05 384526.6 3774990.2 99.4
0.00 4.19 0.70 YES
L0000124 0 0.29050E-05 384535.6 3774990.2 99.0
0.00 4.19 0.70 YES
L0000125 0 0.29050E-05 384544.6 3774990.2 98.7
0.00 4.19 0.70 YES
L0000126 0 0.29050E-05 384553.6 3774990.2 98.3
0.00 4.19 0.70 YES
L0000127 0 0.29050E-05 384562.6 3774990.2 97.9
0.00 4.19 0.70 YES
L0000128 0 0.29050E-05 384571.6 3774990.2 97.5
0.00 4.19 0.70 YES
L0000129 0 0.29050E-05 384580.6 3774990.2 97.1
0.00 4.19 0.70 YES
L0000130 0 0.29050E-05 384589.6 3774990.2 96.6
0.00 4.19 0.70 YES
L0000131 0 0.29050E-05 384598.6 3774990.2 96.2
0.00 4.19 0.70 YES

```

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\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Users\Brett Pomeroy  
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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

SOURCE DATA \*\*\* \*\*\* VOLUME

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>SZ<br>(METERS) | NUMBER<br>(GRAMS/SEC) | EMISSION<br>RATE<br>X<br>SCALAR VARY<br>BY | EMISSION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |      |
|-----------------------------------------------|-------------------------|----------------------------------|-----------------------|--------------------------------------------|-----------------------------------|---------------------------|------|
| L0000132                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384607.6                          | 3774990.2                 | 95.8 |
| L0000133                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384616.6                          | 3774989.9                 | 95.3 |
| L0000134                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384625.6                          | 3774989.4                 | 94.9 |
| L0000135                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384634.6                          | 3774988.9                 | 94.4 |
| L0000136                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384643.5                          | 3774988.4                 | 94.1 |
| L0000137                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384652.5                          | 3774987.9                 | 93.7 |
| L0000138                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384661.5                          | 3774987.4                 | 93.3 |
| L0000139                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384670.5                          | 3774986.9                 | 93.0 |
| L0000140                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384679.5                          | 3774986.3                 | 92.6 |
| L0000141                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384688.5                          | 3774985.8                 | 92.3 |
| L0000142                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384697.5                          | 3774985.3                 | 91.9 |
| L0000143                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384706.4                          | 3774984.6                 | 91.5 |
| L0000144                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384715.4                          | 3774983.6                 | 91.4 |
| L0000145                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384724.3                          | 3774982.6                 | 91.3 |
| L0000146                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384733.3                          | 3774981.5                 | 91.2 |

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|          |      |      |      |             |          |           |      |
|----------|------|------|------|-------------|----------|-----------|------|
| L0000147 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384742.2 | 3774980.5 | 91.2 |
| L0000148 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384751.2 | 3774979.8 | 91.1 |
| L0000149 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384760.2 | 3774979.4 | 91.1 |
| L0000150 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384769.1 | 3774979.0 | 91.1 |
| L0000151 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384778.1 | 3774978.5 | 91.0 |
| L0000152 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384787.1 | 3774978.1 | 91.0 |
| L0000153 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384795.6 | 3774980.8 | 91.0 |
| L0000154 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384804.1 | 3774983.9 | 91.0 |
| L0000155 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384811.5 | 3774988.7 | 91.0 |
| L0000156 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384818.3 | 3774994.7 | 91.0 |
| L0000157 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384824.5 | 3775001.1 | 91.0 |
| L0000158 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384828.8 | 3775008.9 | 91.0 |
| L0000159 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384833.2 | 3775016.8 | 91.0 |
| L0000160 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384837.6 | 3775024.7 | 91.0 |
| L0000161 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384841.9 | 3775032.5 | 91.0 |
| L0000162 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384846.3 | 3775040.4 | 91.0 |
| L0000163 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384850.9 | 3775048.1 | 91.0 |
| L0000164 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384855.6 | 3775055.9 | 91.0 |
| L0000165 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384860.2 | 3775063.6 | 91.2 |
| L0000166 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384864.8 | 3775071.3 | 91.5 |
| L0000167 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384869.4 | 3775079.0 | 91.8 |
| L0000168 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384874.0 | 3775086.8 | 92.2 |
| L0000169 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384879.1 | 3775094.2 | 92.5 |
| L0000170 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384884.5 | 3775101.4 | 92.8 |
| L0000171 | 0.00 | 4.19 | 0.70 | 0.29050E-05 | 384889.8 | 3775108.6 | 93.2 |

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

SOURCE DATA \*\*\* \*\*\* VOLUME

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>SZ<br>(METERS) | NUMBER<br>(GRAMS/SEC) | EMISSION<br>RATE<br>X<br>SCALAR VARY<br>BY | EMISSION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |      |
|-----------------------------------------------|-------------------------|----------------------------------|-----------------------|--------------------------------------------|-----------------------------------|---------------------------|------|
| L0000172                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384895.3                          | 3775115.8                 | 93.6 |
| L0000173                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384901.1                          | 3775122.7                 | 94.0 |
| L0000174                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384906.9                          | 3775129.5                 | 94.4 |
| L0000175                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384912.7                          | 3775136.4                 | 94.8 |
| L0000176                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384918.5                          | 3775143.3                 | 95.2 |
| L0000177                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384924.3                          | 3775150.1                 | 95.6 |
| L0000178                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384930.9                          | 3775156.3                 | 96.0 |
| L0000179                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384937.6                          | 3775162.4                 | 96.3 |
| L0000180                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384944.2                          | 3775168.5                 | 96.7 |
| L0000181                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384950.8                          | 3775174.5                 | 97.2 |
| L0000182                                      | 0.00                    | 4.19                             | 0.70                  | 0.29050E-05                                | 384957.4                          | 3775180.6                 | 97.6 |

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

DEFINING SOURCE GROUPS \*\*\* \*\*\* SOURCE IDs

| SRCGROUP ID<br>IDs | SOURCE   |
|--------------------|----------|
| ALL                |          |
| L0000095           | L0000092 |
| L0000099           | L0000096 |
|                    | L0000093 |
|                    | L0000097 |
|                    | L0000094 |
|                    | L0000098 |
|                    |          |
| L0000103           | L0000100 |
| L0000107           | L0000104 |
|                    | L0000101 |
|                    | L0000105 |
|                    | L0000102 |
|                    | L0000106 |
|                    |          |
| L0000111           | L0000108 |
| L0000115           | L0000112 |
|                    | L0000109 |
|                    | L0000113 |
|                    | L0000110 |
|                    | L0000114 |
|                    |          |
| L0000119           | L0000116 |
| L0000123           | L0000120 |
|                    | L0000117 |
|                    | L0000121 |
|                    | L0000118 |
|                    | L0000122 |
|                    |          |
| L0000127           | L0000124 |
| L0000131           | L0000128 |
|                    | L0000125 |
|                    | L0000129 |
|                    | L0000126 |
|                    | L0000130 |
|                    |          |
| L0000135           | L0000132 |
| L0000139           | L0000136 |
|                    | L0000133 |
|                    | L0000137 |
|                    | L0000134 |
|                    | L0000138 |
|                    |          |
| L0000143           | L0000140 |
| L0000147           | L0000144 |
|                    | L0000141 |
|                    | L0000145 |
|                    | L0000142 |
|                    | L0000146 |
|                    |          |
| L0000151           | L0000148 |
| L0000155           | L0000152 |
|                    | L0000149 |
|                    | L0000153 |
|                    | L0000150 |
|                    | L0000154 |
|                    |          |
|                    | L0000156 |
|                    | L0000157 |
|                    | L0000158 |
|                    |          |

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L0000159 , L0000160 , L0000161 , L0000162 ,  
L0000163 ,  
  
L0000164 , L0000165 , L0000166 ,  
L0000167 , L0000168 , L0000169 , L0000170 ,  
L0000171 ,  
  
L0000172 , L0000173 , L0000174 ,  
L0000175 , L0000176 , L0000177 , L0000178 ,  
L0000179 ,  
  
L0000180 , L0000181 , L0000182 ,

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

\*\*\* SOURCE IDs DEFINED

| URBAN ID<br>IDS                  | URBAN POP                        | SOURCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L0000094<br>L0000098<br>L0000099 | 9862049.<br>L0000095<br>L0000096 | L0000092 , L0000093 ,<br>L0000097 ,<br>L0000100 , L0000101 , L0000102 ,<br>L0000103 , L0000104 , L0000105 , L0000106 ,<br>L0000107 ,<br>L0000108 , L0000109 , L0000110 ,<br>L0000111 , L0000112 , L0000113 , L0000114 ,<br>L0000115 ,<br>L0000116 , L0000117 , L0000118 ,<br>L0000119 , L0000120 , L0000121 , L0000122 ,<br>L0000123 ,<br>L0000124 , L0000125 , L0000126 ,<br>L0000127 , L0000128 , L0000129 , L0000130 ,<br>L0000131 ,<br>L0000132 , L0000133 , L0000134 ,<br>L0000135 , L0000136 , L0000137 , L0000138 ,<br>L0000139 ,<br>L0000140 , L0000141 , L0000142 ,<br>L0000143 , L0000144 , L0000145 , L0000146 ,<br>L0000147 ,<br>L0000148 , L0000149 , L0000150 ,<br>L0000151 , L0000152 , L0000153 , L0000154 ,<br>L0000155 , |

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L0000159 , L0000156 , L0000157 , L0000158 ,  
L0000163 , L0000160 , L0000161 , L0000162 ,  
  
L0000164 , L0000165 , L0000166 ,  
L0000167 , L0000168 , L0000169 , L0000170 ,  
L0000171 ,  
  
L0000172 , L0000173 , L0000174 ,  
L0000175 , L0000176 , L0000177 , L0000178 ,  
L0000179 ,  
  
L0000180 , L0000181 , L0000182 ,

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

\*\*\* DISCRETE

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

(METERS)

|                        |       |       |       |
|------------------------|-------|-------|-------|
| ( 384981.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 384927.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384945.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384963.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384981.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384909.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384927.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384945.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384963.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384981.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384837.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384855.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384909.6, 3774976.1, | 91.1, | 91.1, | 0.0); |
| ( 384927.6, 3774976.1, | 91.1, | 91.1, | 0.0); |
| ( 384945.6, 3774976.1, | 91.2, | 91.2, | 0.0); |
| ( 384963.6, 3774976.1, | 91.2, | 91.2, | 0.0); |
| ( 384981.6, 3774976.1, | 91.3, | 91.3, | 0.0); |
| ( 384999.6, 3774976.1, | 91.3, | 91.3, | 0.0); |
| ( 385017.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384837.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384855.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774989.1, | 91.1, | 91.1, | 0.0); |
| ( 384909.6, 3774989.1, | 91.2, | 91.2, | 0.0); |
| ( 384927.6, 3774989.1, | 91.2, | 91.2, | 0.0); |
| ( 384945.6, 3774989.1, | 91.3, | 91.3, | 0.0); |

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**MODELOPTS:  RegDEFAULT CONC      ELEV      URBAN

      *** UP TO THE FIRST 24 HOURS

OF METEOROLOGICAL DATA ***

  Surface file:  ..\cela8.sfc
Met Version: 14134
  Profile file:  ..\cela8.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:      0
station no.: 3190
Name: UNKNOWN
Year: 2006

  First 24 hours of scalar data
  YR MO DY JDY HR      H0      U*      W*      DT/DZ ZICNV ZIMCH      M-0 LEN
  Z0 BOWEN ALBEDO REF WS      WD      HT      REF TA      HT
  - - - - -
06 01 01 1 01 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 347. 9.1 286.4 5.5
06 01 01 1 02 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 81. 9.1 286.4 5.5
06 01 01 1 03 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 66. 9.1 286.4 5.5
06 01 01 1 04 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 23. 9.1 285.9 5.5
06 01 01 1 05 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 61. 9.1 285.4 5.5
06 01 01 1 06 -6.5 0.093 -9.000 -9.000 -999. 68. 11.2
0.56 1.00 1.00 1.30 83. 9.1 285.4 5.5
06 01 01 1 07 -11.6 0.210 -9.000 -9.000 -999. 232. 71.6
0.56 1.00 1.00 1.80 64. 9.1 285.4 5.5
06 01 01 1 08 -6.0 0.093 -9.000 -9.000 -999. 77. 12.0
0.56 1.00 0.55 1.30 46. 9.1 285.4 5.5
06 01 01 1 09 26.6 0.340 0.700 0.005 474. 476. -132.1
0.56 1.00 0.32 2.20 87. 9.1 286.4 5.5
06 01 01 1 10 21.0 0.284 0.736 0.005 681. 364. -97.2
0.56 1.00 0.24 1.80 76. 9.1 286.4 5.5
06 01 01 1 11 35.8 0.230 0.921 0.005 780. 266. -30.3
0.56 1.00 0.21 1.30 66. 9.1 287.5 5.5
06 01 01 1 12 14.9 0.331 0.694 0.008 804. 458. -218.6

```

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```

0.56 1.00 0.20 2.20 79. 9.1 287.5 5.5
06 01 01 1 13 26.4 0.460 0.854 0.012 844. 749. -330.2
0.56 1.00 0.20 3.10 76. 9.1 287.5 5.5
06 01 01 1 14 39.0 0.466 0.995 0.015 902. 763. -231.5
0.56 1.00 0.21 3.10 80. 9.1 288.1 5.5
06 01 01 1 15 11.4 0.328 0.664 0.015 917. 466. -277.7
0.56 1.00 0.25 2.20 85. 9.1 287.5 5.5
06 01 01 1 16 0.1 0.445 0.137 0.015 917. 712. -8888.0
0.56 1.00 0.33 3.10 75. 9.1 287.0 5.5
06 01 01 1 17 -21.5 0.423 -9.000 -9.000 -999. 661. 315.0
0.56 1.00 0.60 3.10 82. 9.1 286.4 5.5
06 01 01 1 18 -33.6 0.332 -9.000 -9.000 -999. 464. 97.1
0.56 1.00 1.00 2.70 101. 9.1 286.4 5.5
06 01 01 1 19 -30.9 0.412 -9.000 -9.000 -999. 634. 201.9
0.56 1.00 1.00 3.10 97. 9.1 285.9 5.5
06 01 01 1 20 -34.9 0.630 -9.000 -9.000 -999. 1200. 640.4
0.56 1.00 1.00 4.50 92. 9.1 284.9 5.5
06 01 01 1 21 -47.1 0.624 -9.000 -9.000 -999. 1183. 460.9
0.56 1.00 1.00 4.50 88. 9.1 284.2 5.5
06 01 01 1 22 -62.8 0.616 -9.000 -9.000 -999. 1160. 332.6
0.56 1.00 1.00 4.50 91. 9.1 284.9 5.5
06 01 01 1 23 -61.4 0.816 -9.000 -9.000 -999. 1765. 791.1
0.56 1.00 1.00 5.80 82. 9.1 285.4 5.5
06 01 01 1 24 -45.3 0.820 -9.000 -9.000 -999. 1783. 1090.2
0.56 1.00 1.00 5.80 84. 9.1 285.9 5.5

```

```

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

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

```

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*** AERMET - VERSION 14134 *** ***
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PAGE 11
**MODELOPTS:  RegDEFAULT CONC      ELEV      URBAN

      *** THE ANNUAL AVERAGE CONCENTRATION      VALUES
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
      INCLUDING SOURCE(S):
L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 ,
      L0000097 , L0000098 , L0000099 ,
L0000100 , L0000101 , L0000102 , L0000103 ,
L0000104 ,
      L0000105 , L0000106 , L0000107 ,
L0000108 , L0000109 , L0000110 , L0000111 ,
L0000112 ,
      L0000113 , L0000114 , L0000115 ,
L0000116 , L0000117 , L0000118 ,
L0000119 , . . .

      *** DISCRETE

CARTESIAN RECEPTOR POINTS ***

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

      X-COORD (M)      Y-COORD (M)      CONC
X-COORD (M)      Y-COORD (M)      CONC
- - - - -
384981.56 3774937.12 0.04234
384999.56 3774937.12 0.03943
385017.56 3774937.12 0.06135
384927.56 3774950.12 0.05585
384963.56 3774950.12 0.05120
384981.56 3774950.12 0.04721
384999.56 3774950.12 0.04374
385017.56 3774950.12 0.04069
384873.56 3774963.12 0.09138
384891.56 3774963.12 0.07996
384909.56 3774963.12 0.07108
384927.56 3774963.12 0.06395
384945.56 3774963.12 0.05808
384963.56 3774963.12 0.05314
384981.56 3774963.12 0.04892
384999.56 3774963.12 0.04527
385017.56 3774963.12 0.04206

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384837.56 3774976.12 0.14215
384855.56 3774976.12 0.11492
384873.56 3774976.12 0.09711
384891.56 3774976.12 0.08432
384909.56 3774976.12 0.07458
384927.56 3774976.12 0.06687
384945.56 3774976.12 0.06057
384963.56 3774976.12 0.05530
384981.56 3774976.12 0.05082
384999.56 3774976.12 0.04695
385017.56 3774976.12 0.04357
384837.56 3774989.12 0.16175
384855.56 3774989.12 0.12507
384873.56 3774989.12 0.10383
384891.56 3774989.12 0.08932
384909.56 3774989.12 0.07854
384927.56 3774989.12 0.07013
384945.56 3774989.12 0.06333
384963.56 3774989.12 0.05768
384981.56 3774989.12 0.05291
384999.56 3774989.12 0.04880
385017.56 3774989.12 0.04522
384855.56 3775002.12 0.13781
384873.56 3775002.12 0.11181
384891.56 3775002.12 0.09510
384909.56 3775002.12 0.08305
384927.56 3775002.12 0.07381
384945.56 3775002.12 0.06641
384963.56 3775002.12 0.06033
384981.56 3775002.12 0.05521
384999.56 3775002.12 0.05083
385017.56 3775002.12 0.04702
385035.56 3775002.12 0.04368
384855.56 3775015.12 0.15446
384873.56 3775015.12 0.12143
384891.56 3775015.12 0.10185
384909.56 3775015.12 0.08822
384927.56 3775015.12 0.07798
384945.56 3775015.12 0.06989
384963.56 3775015.12 0.06330
384981.56 3775015.12 0.05778
384999.56 3775015.12 0.05308
385017.56 3775015.12 0.04901
385035.56 3775015.12 0.04545
384873.56 3775028.12 0.13339
384891.56 3775028.12 0.10988
384909.56 3775028.12 0.09424
384927.56 3775028.12 0.08277
384945.56 3775028.12 0.07387
384963.56 3775028.12 0.06666
384981.56 3775028.12 0.06067
384999.56 3775028.12 0.05558

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|           |            |            |         |
|-----------|------------|------------|---------|
|           | 385017.56  | 3775028.12 | 0.05121 |
| 385035.56 | 3775028.12 | 0.04739    |         |
| 384891.56 | 3775041.12 | 0.11965    |         |
| 384909.56 | 3775041.12 | 0.10136    |         |
| 384927.56 | 3775041.12 | 0.08838    |         |
| 384945.56 | 3775041.12 | 0.07844    |         |
| 384963.56 | 3775041.12 | 0.07048    |         |
| 384981.56 | 3775041.12 | 0.06392    |         |
| 384999.56 | 3775041.12 | 0.05839    |         |
| 385017.56 | 3775041.12 | 0.05365    |         |

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PAGE 12  
\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES  
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL  
INCLUDING SOURCE(S):

|          |            |            |            |            |
|----------|------------|------------|------------|------------|
| L0000092 | , L0000093 | , L0000094 | , L0000095 | ,          |
| L0000096 | ,          | L0000097   | , L0000098 | , L0000099 |
| L0000100 | , L0000101 | , L0000102 | , L0000103 | ,          |
| L0000104 | ,          | L0000105   | , L0000106 | , L0000107 |
| L0000108 | , L0000109 | , L0000110 | , L0000111 | ,          |
| L0000112 | ,          | L0000113   | , L0000114 | , L0000115 |
| L0000116 | , L0000117 | , L0000118 | ,          |            |
| L0000119 | , . . .    | ,          |            |            |

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF TOGCHRON IN \*\*

| X-COORD (M) | Y-COORD (M) | CONC    | CONC |
|-------------|-------------|---------|------|
| 385035.56   | 3775041.12  | 0.04954 |      |
| 384927.56   | 3775054.12  | 0.09498 |      |
| 384945.56   | 3775054.12  | 0.08374 |      |
| 384963.56   | 3775054.12  | 0.07486 |      |
| 384981.56   | 3775054.12  | 0.06760 |      |
| 384999.56   | 3775054.12  | 0.06154 |      |
| 385017.56   | 3775054.12  | 0.05638 |      |
| 385035.56   | 3775054.12  | 0.05193 |      |
| 384945.56   | 3775067.12  | 0.09024 |      |
| 384963.56   | 3775067.12  | 0.08015 |      |
| 384981.56   | 3775067.12  | 0.07201 |      |
| 384999.56   | 3775067.12  | 0.06527 |      |
| 385017.56   | 3775067.12  | 0.05958 |      |
| 385035.56   | 3775067.12  | 0.05470 |      |
| 384981.56   | 3775080.12  | 0.07711 |      |
| 384999.56   | 3775080.12  | 0.06953 |      |
| 385017.56   | 3775080.12  | 0.06319 |      |
| 385035.56   | 3775080.12  | 0.05779 |      |

|           |            |            |         |
|-----------|------------|------------|---------|
|           | 384999.56  | 3775093.12 | 0.07444 |
| 385017.56 | 3775093.12 | 0.06731    |         |
| 385035.56 | 3775093.12 | 0.06129    |         |
| 385035.56 | 3775106.12 | 0.06527    |         |

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PAGE 13  
\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: ALL  
INCLUDING SOURCE(S):

|          |            |            |            |            |
|----------|------------|------------|------------|------------|
| L0000092 | , L0000093 | , L0000094 | , L0000095 | ,          |
| L0000096 | ,          | L0000097   | , L0000098 | , L0000099 |
| L0000100 | , L0000101 | , L0000102 | , L0000103 | ,          |
| L0000104 | ,          | L0000105   | , L0000106 | , L0000107 |
| L0000108 | , L0000109 | , L0000110 | , L0000111 | ,          |
| L0000112 | ,          | L0000113   | , L0000114 | , L0000115 |
| L0000116 | , L0000117 | , L0000118 | ,          |            |
| L0000119 | , . . .    | ,          |            |            |

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF TOGCHRON IN \*\*

| X-COORD (M) | Y-COORD (M) | CONC    | CONC (YYMMDDHH) |
|-------------|-------------|---------|-----------------|
| 384981.56   | 3774937.12  | 0.10467 | (07013108)      |
| 384999.56   | 3774937.12  | 0.09745 | (07013108)      |
| 385017.56   | 3774937.12  | 0.09107 | (07013108)      |
| 384927.56   | 3774950.12  | 0.13875 | (07013108)      |
| 384945.56   | 3774950.12  | 0.12688 | (07013108)      |
| 384963.56   | 3774950.12  | 0.11682 | (07013108)      |
| 384981.56   | 3774950.12  | 0.10815 | (07013108)      |
| 384999.56   | 3774950.12  | 0.10058 | (07013108)      |
| 385017.56   | 3774950.12  | 0.09390 | (07013108)      |
| 384873.56   | 3774963.12  | 0.20305 | (07013108)      |
| 384891.56   | 3774963.12  | 0.17867 | (07013108)      |
| 384909.56   | 3774963.12  | 0.15967 | (07013108)      |
| 384927.56   | 3774963.12  | 0.14438 | (07013108)      |
| 384945.56   | 3774963.12  | 0.13173 | (07013108)      |
| 384963.56   | 3774963.12  | 0.12107 | (07013108)      |
| 384981.56   | 3774963.12  | 0.11192 | (07013108)      |
| 384999.56   | 3774963.12  | 0.10396 | (07013108)      |

385017.56 3774963.12 0.09695 (07013108)  
384837.56 3774976.12 0.30948 (07013108)  
384855.56 3774976.12 0.25278 (07013108)  
384873.56 3774976.12 0.21514 (07013108)  
384891.56 3774976.12 0.18795 (07013108)  
384909.56 3774976.12 0.16717 (07013108)  
384927.56 3774976.12 0.15065 (07013108)  
384945.56 3774976.12 0.13711 (07013108)  
384963.56 3774976.12 0.12576 (07013108)  
384981.56 3774976.12 0.11607 (07013108)  
384999.56 3774976.12 0.10766 (07013108)  
385017.56 3774976.12 0.10028 (07013108)  
384837.56 3774989.12 0.34923 (07013108)  
384855.56 3774989.12 0.27382 (07013108)  
384873.56 3774989.12 0.22931 (07013108)  
384891.56 3774989.12 0.19857 (07013108)  
384909.56 3774989.12 0.17563 (07013108)  
384927.56 3774989.12 0.15765 (07013108)  
384945.56 3774989.12 0.14307 (07013108)  
384963.56 3774989.12 0.13092 (07013108)  
384981.56 3774989.12 0.12061 (07013108)  
384999.56 3774989.12 0.11170 (07013108)  
385017.56 3774989.12 0.10390 (07013108)  
384855.56 3775002.12 0.30007 (07013108)  
384873.56 3775002.12 0.24604 (07013108)  
384891.56 3775002.12 0.21081 (07013108)  
384909.56 3775002.12 0.18524 (07013108)  
384927.56 3775002.12 0.16553 (07013108)  
384945.56 3775002.12 0.14971 (07013108)  
384963.56 3775002.12 0.13665 (07013108)  
384981.56 3775002.12 0.12560 (07013108)  
384999.56 3775002.12 0.11611 (07013108)  
385017.56 3775002.12 0.10783 (07013108)  
385035.56 3775002.12 0.10053 (07013108)  
384855.56 3775015.12 0.33412 (07013108)  
384873.56 3775015.12 0.26613 (07013108)  
384891.56 3775015.12 0.22508 (07013108)  
384909.56 3775015.12 0.19625 (07013108)  
384927.56 3775015.12 0.17445 (07013108)  
384945.56 3775015.12 0.15717 (07013108)  
384963.56 3775015.12 0.14302 (07013108)  
384981.56 3775015.12 0.13114 (07013108)  
384999.56 3775015.12 0.12097 (07013108)  
385017.56 3775015.12 0.11214 (07013108)  
385035.56 3775015.12 0.10438 (07013108)  
384873.56 3775028.12 0.29097 (07013108)  
384891.56 3775028.12 0.24198 (07013108)  
384909.56 3775028.12 0.20903 (07013108)  
384927.56 3775028.12 0.18467 (07013108)  
384945.56 3775028.12 0.16563 (07013108)  
384963.56 3775028.12 0.15018 (07013108)  
384981.56 3775028.12 0.13731 (07013108)

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384999.56 3775028.12 0.12635 (07013108)  
385017.56 3775028.12 0.11689 (07013108)  
385035.56 3775028.12 0.10859 (07013108)  
384891.56 3775041.12 0.26248 (07013108)  
384909.56 3775041.12 0.22410 (07013108)  
384927.56 3775041.12 0.19652 (07013108)  
384945.56 3775041.12 0.17532 (07013108)  
384963.56 3775041.12 0.15830 (07013108)  
384981.56 3775041.12 0.14424 (07013108)  
384999.56 3775041.12 0.13235 (07013108)  
385017.56 3775041.12 0.12214 (07013108)

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN  
  
\*\*\* THE 1ST HIGHEST 8-HR AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S):  
L0000092 , L0000093 , L0000094 , L0000095 ,  
L0000096 ,  
L0000097 , L0000098 , L0000099 ,  
L0000100 , L0000101 , L0000102 , L0000103 ,  
L0000104 ,  
L0000105 , L0000106 , L0000107 ,  
L0000108 , L0000109 , L0000110 , L0000111 ,  
L0000112 ,  
L0000113 , L0000114 , L0000115 ,  
L0000116 , L0000117 , L0000118 ,  
L0000119 , . . . ,

\*\*\* DISCRETE  
CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF TOGCHRON IN \*\*  
  
X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)  
X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)  
- - - - -  
-  
385035.56 3775041.12 0.11323 (07013108)  
384927.56 3775054.12 0.21048 (07013108)  
384945.56 3775054.12 0.18655 (07013108)  
384963.56 3775054.12 0.16760 (07013108)  
384981.56 3775054.12 0.15209 (07013108)  
384999.56 3775054.12 0.13909 (07013108)  
385017.56 3775054.12 0.12799 (07013108)  
385035.56 3775054.12 0.11837 (07013108)  
384945.56 3775067.12 0.19994 (07013108)  
384963.56 3775067.12 0.17853 (07013108)  
384981.56 3775067.12 0.16122 (07013108)  
384999.56 3775067.12 0.14685 (07013108)  
385017.56 3775067.12 0.13468 (07013108)  
385035.56 3775067.12 0.12419 (07013108)  
384981.56 3775080.12 0.17178 (07013108)  
384999.56 3775080.12 0.15571 (07013108)  
385017.56 3775080.12 0.14224 (07013108)

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385035.56 3775080.12 0.13072 (07013108)  
384999.56 3775093.12 0.16592 (07013108)  
385017.56 3775093.12 0.15085 (07013108)  
385035.56 3775093.12 0.13808 (07013108)  
385035.56 3775106.12 0.14644 (07013108)

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

ANNUAL RESULTS AVERAGED OVER 5 YEARS \*\*\* THE SUMMARY OF MAXIMUM

MICROGRAMS/M\*\*3

\*\* CONC OF TOGCHRON IN

| NETWORK<br>GROUP ID<br>RECEPTOR | (XR, YR, ZELEV, ZHILL, ZFLAG) | AVERAGE CONC<br>OF TYPE | GRID-ID    |
|---------------------------------|-------------------------------|-------------------------|------------|
| ALL                             | 1ST HIGHEST VALUE IS          | 0.16175 AT (            | 384837.56, |
| 3774989.12,                     | 91.00, 91.00,                 | 0.00) DC                |            |
| 3775015.12,                     | 2ND HIGHEST VALUE IS          | 0.15446 AT (            | 384855.56, |
| 3774976.12,                     | 91.00, 91.00,                 | 0.00) DC                |            |
| 3775002.12,                     | 3RD HIGHEST VALUE IS          | 0.14215 AT (            | 384837.56, |
| 3775028.12,                     | 91.00, 91.00,                 | 0.00) DC                |            |
| 3774976.12,                     | 4TH HIGHEST VALUE IS          | 0.13781 AT (            | 384855.56, |
| 3775002.12,                     | 91.00, 91.00,                 | 0.00) DC                |            |
| 3775028.12,                     | 5TH HIGHEST VALUE IS          | 0.13339 AT (            | 384873.56, |
| 3774989.12,                     | 91.00, 91.00,                 | 0.00) DC                |            |
| 3775015.12,                     | 6TH HIGHEST VALUE IS          | 0.12507 AT (            | 384855.56, |
| 3774976.12,                     | 91.00, 91.00,                 | 0.00) DC                |            |
| 3775002.12,                     | 7TH HIGHEST VALUE IS          | 0.12143 AT (            | 384873.56, |
| 3775028.12,                     | 91.00, 91.00,                 | 0.00) DC                |            |
| 3774989.12,                     | 8TH HIGHEST VALUE IS          | 0.11965 AT (            | 384891.56, |
| 3775015.12,                     | 91.00, 91.00,                 | 0.00) DC                |            |
| 3774976.12,                     | 9TH HIGHEST VALUE IS          | 0.11492 AT (            | 384855.56, |
| 3775002.12,                     | 91.00, 91.00,                 | 0.00) DC                |            |
| 3775028.12,                     | 10TH HIGHEST VALUE IS         | 0.11181 AT (            | 384873.56, |
|                                 | 91.05, 91.05,                 | 0.00) DC                |            |

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

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

OF HIGHEST 8-HR RESULTS \*\*\* THE SUMMARY

MICROGRAMS/M\*\*3

\*\* CONC OF TOGCHRON IN

| NETWORK<br>GROUP ID<br>RECEPTOR | (XR, YR, ZELEV, ZHILL, ZFLAG) | AVERAGE CONC<br>OF TYPE | GRID-ID                 | DATE<br>(YYMMDDHH) |
|---------------------------------|-------------------------------|-------------------------|-------------------------|--------------------|
| ALL                             | HIGH                          | 1ST HIGH VALUE IS       | 0.34923 ON 07013108: AT |                    |
| (                               | 384837.56,                    | 3774989.12,             | 91.00,                  | 91.00, 0.00) DC    |

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

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\*\*\* AERMOD - VERSION 15181 \*\*\* \*\* C:\Users\Brett Pomeroy  
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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 756 Informational Message(s)

A Total of 43800 Hours Were Processed

A Total of 4 Calm Hours Identified

A Total of 752 Missing Hours Identified ( 1.72  
Percent)

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

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

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

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**
*****
** AERMOD Input Produced by:
** AERMOD View Ver. 9.2.0
** Lakes Environmental Software Inc.
** Date: 2/20/2017
** File: C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD\Casitas HRA\TOGacute\TOGacute.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD
  MODELOPT DEFAULT CONC
  AVERTIME 1
  URBANOPT 9862049
  POLLUTID TOGACUTE
  RUNORNOT RUN
  ERRORFIL TOGacute.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Glendale Fwy
** PREFIX
** Length of Side = 39.00
** Configuration = Adjacent
** Emission Rate = 0.1
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 8
** 385251.397, 3775445.306, 109.99, 0.00, 18.14
** 384940.062, 3775201.653, 96.19, 0.00, 18.14

```

1

```

** 384851.110, 3775122.369, 91.17, 0.00, 18.14
** 384808.567, 3775062.423, 91.08, 0.00, 18.14
** 384762.157, 3774973.470, 91.05, 0.00, 18.14
** 384738.952, 3774880.650, 92.94, 0.00, 18.14
** 384731.217, 3774807.167, 94.35, 0.00, 18.14
** 384731.217, 3774569.315, 98.20, 0.00, 18.14
-----
LOCATION L0000183 VOLUME 385236.040 3775433.288 110.00
LOCATION L0000184 VOLUME 385205.328 3775409.252 109.11
LOCATION L0000185 VOLUME 385174.615 3775385.216 108.17
LOCATION L0000186 VOLUME 385143.902 3775361.180 106.85
LOCATION L0000187 VOLUME 385113.190 3775337.144 105.53
LOCATION L0000188 VOLUME 385082.477 3775313.108 104.37
LOCATION L0000189 VOLUME 385051.764 3775289.072 103.22
LOCATION L0000190 VOLUME 385021.052 3775265.036 101.85
LOCATION L0000191 VOLUME 384990.339 3775241.000 100.27
LOCATION L0000192 VOLUME 384959.626 3775216.964 98.73
LOCATION L0000193 VOLUME 384929.494 3775192.233 97.09
LOCATION L0000194 VOLUME 384900.380 3775166.284 95.49
LOCATION L0000195 VOLUME 384871.266 3775140.334 93.88
LOCATION L0000196 VOLUME 384844.165 3775112.583 92.99
LOCATION L0000197 VOLUME 384821.594 3775080.779 91.93
LOCATION L0000198 VOLUME 384800.939 3775047.802 91.00
LOCATION L0000199 VOLUME 384782.899 3775013.225 91.06
LOCATION L0000200 VOLUME 384764.858 3774978.648 91.08
LOCATION L0000201 VOLUME 384754.115 3774941.361 91.36
LOCATION L0000202 VOLUME 384744.656 3774903.465 92.02
LOCATION L0000203 VOLUME 384737.331 3774865.252 92.76
LOCATION L0000204 VOLUME 384733.248 3774826.467 93.51
LOCATION L0000205 VOLUME 384731.217 3774787.573 94.25
LOCATION L0000206 VOLUME 384731.217 3774748.573 94.82
LOCATION L0000207 VOLUME 384731.217 3774709.573 95.37
LOCATION L0000208 VOLUME 384731.217 3774670.573 96.05
LOCATION L0000209 VOLUME 384731.217 3774631.573 96.89
LOCATION L0000210 VOLUME 384731.217 3774592.573 97.73
** End of LINE VOLUME Source ID = SLINE1
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Fletcher Ramp
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 0.00383
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 13
** 384495.216, 3774987.675, 99.50, 0.00, 4.19
** 384523.422, 3774990.239, 98.24, 0.00, 4.19

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2

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** 384609.962, 3774990.239, 94.68, 0.00, 4.19
** 384701.631, 3774985.111, 91.27, 0.00, 4.19
** 384747.145, 3774979.982, 91.29, 0.00, 4.19
** 384788.172, 3774978.059, 91.02, 0.00, 4.19
** 384807.403, 3774985.111, 91.05, 0.00, 4.19
** 384823.429, 3774999.214, 91.07, 0.00, 4.19
** 384845.865, 3775039.599, 91.00, 0.00, 4.19
** 384875.448, 3775089.231, 91.12, 0.00, 4.19
** 384893.975, 3775114.243, 91.31, 0.00, 4.19
** 384924.545, 3775150.371, 95.25, 0.00, 4.19
** 384959.747, 3775182.793, 96.84, 0.00, 4.19
**
-----
LOCATION L0000211 VOLUME 384499.698 3774988.082 100.42
LOCATION L0000212 VOLUME 384508.661 3774988.897 100.08
LOCATION L0000213 VOLUME 384517.624 3774989.712 99.74
LOCATION L0000214 VOLUME 384526.600 3774990.239 99.40
LOCATION L0000215 VOLUME 384535.600 3774990.239 99.05
LOCATION L0000216 VOLUME 384544.600 3774990.239 98.70
LOCATION L0000217 VOLUME 384553.600 3774990.239 98.35
LOCATION L0000218 VOLUME 384562.600 3774990.239 97.94
LOCATION L0000219 VOLUME 384571.600 3774990.239 97.50
LOCATION L0000220 VOLUME 384580.600 3774990.239 97.06
LOCATION L0000221 VOLUME 384589.600 3774990.239 96.62
LOCATION L0000222 VOLUME 384598.600 3774990.239 96.19
LOCATION L0000223 VOLUME 384607.600 3774990.239 95.75
LOCATION L0000224 VOLUME 384616.590 3774989.868 95.31
LOCATION L0000225 VOLUME 384625.576 3774989.366 94.86
LOCATION L0000226 VOLUME 384634.562 3774988.863 94.43
LOCATION L0000227 VOLUME 384643.547 3774988.360 94.07
LOCATION L0000228 VOLUME 384652.533 3774987.857 93.71
LOCATION L0000229 VOLUME 384661.519 3774987.355 93.35
LOCATION L0000230 VOLUME 384670.505 3774986.852 92.99
LOCATION L0000231 VOLUME 384679.491 3774986.349 92.63
LOCATION L0000232 VOLUME 384688.477 3774985.847 92.27
LOCATION L0000233 VOLUME 384697.463 3774985.344 91.91
LOCATION L0000234 VOLUME 384706.426 3774984.841 91.55
LOCATION L0000235 VOLUME 384715.370 3774984.338 91.19
LOCATION L0000236 VOLUME 384724.313 3774983.835 90.83
LOCATION L0000237 VOLUME 384733.257 3774983.332 90.47
LOCATION L0000238 VOLUME 384742.200 3774982.829 90.11
LOCATION L0000239 VOLUME 384751.164 3774982.326 89.75
LOCATION L0000240 VOLUME 384760.154 3774981.823 89.39
LOCATION L0000241 VOLUME 384769.145 3774981.320 89.03
LOCATION L0000242 VOLUME 384778.135 3774980.817 88.67
LOCATION L0000243 VOLUME 384787.125 3774980.314 88.31
LOCATION L0000244 VOLUME 384795.638 3774980.314 88.31
LOCATION L0000245 VOLUME 384804.087 3774980.314 88.31
LOCATION L0000246 VOLUME 384811.508 3774980.314 88.31
LOCATION L0000247 VOLUME 384818.265 3774980.314 88.31
LOCATION L0000248 VOLUME 384824.459 3775001.068 91.00
LOCATION L0000249 VOLUME 384828.830 3775008.935 91.00

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3

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LOCATION L0000250 VOLUME 384833.201 3775016.803 91.00
LOCATION L0000251 VOLUME 384837.571 3775024.670 91.00
LOCATION L0000252 VOLUME 384841.942 3775032.537 91.00
LOCATION L0000253 VOLUME 384846.337 3775040.391 91.00
LOCATION L0000254 VOLUME 384850.945 3775048.122 91.00
LOCATION L0000255 VOLUME 384855.553 3775055.853 91.00
LOCATION L0000256 VOLUME 384860.161 3775063.583 91.25
LOCATION L0000257 VOLUME 384864.769 3775071.314 91.49
LOCATION L0000258 VOLUME 384869.377 3775079.045 91.82
LOCATION L0000259 VOLUME 384873.985 3775086.776 92.16
LOCATION L0000260 VOLUME 384879.104 3775094.167 92.50
LOCATION L0000261 VOLUME 384884.461 3775101.399 92.85
LOCATION L0000262 VOLUME 384889.818 3775108.631 93.22
LOCATION L0000263 VOLUME 384895.277 3775115.782 93.59
LOCATION L0000264 VOLUME 384901.091 3775122.652 93.98
LOCATION L0000265 VOLUME 384906.904 3775129.523 94.37
LOCATION L0000266 VOLUME 384912.710 3775136.393 94.78
LOCATION L0000267 VOLUME 384918.531 3775143.264 95.19
LOCATION L0000268 VOLUME 384924.345 3775150.134 95.60
LOCATION L0000269 VOLUME 384930.937 3775156.258 95.97
LOCATION L0000270 VOLUME 384937.557 3775162.355 96.34
LOCATION L0000271 VOLUME 384944.177 3775168.453 96.73
LOCATION L0000272 VOLUME 384950.797 3775174.550 97.16
LOCATION L0000273 VOLUME 384957.417 3775180.647 97.58
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
SRCPARAM L0000183 0.0035714286 0.00 18.14
0.70
SRCPARAM L0000184 0.0035714286 0.00 18.14
0.70
SRCPARAM L0000185 0.0035714286 0.00 18.14
0.70
SRCPARAM L0000186 0.0035714286 0.00 18.14
0.70
SRCPARAM L0000187 0.0035714286 0.00 18.14
0.70
SRCPARAM L0000188 0.0035714286 0.00 18.14
0.70
SRCPARAM L0000189 0.0035714286 0.00 18.14
0.70
SRCPARAM L0000190 0.0035714286 0.00 18.14
0.70
SRCPARAM L0000191 0.0035714286 0.00 18.14
0.70
SRCPARAM L0000192 0.0035714286 0.00 18.14
0.70
SRCPARAM L0000193 0.0035714286 0.00 18.14
0.70
SRCPARAM L0000194 0.0035714286 0.00 18.14
0.70
SRCPARAM L0000195 0.0035714286 0.00 18.14

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4

|      |                                |              |      |       |
|------|--------------------------------|--------------|------|-------|
| 0.70 |                                |              |      |       |
| 0.70 | SRCPARAM L0000196              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000197              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000198              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000199              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000200              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000201              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000202              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000203              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000204              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000205              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000206              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000207              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000208              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000209              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000210              | 0.0035714286 | 0.00 | 18.14 |
| 0.70 |                                |              |      |       |
| **   | -----                          |              |      |       |
| **   | LINE VOLUME Source ID = SLINE2 |              |      |       |
| 0.70 | SRCPARAM L0000211              | 0.0000607937 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000212              | 0.0000607937 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000213              | 0.0000607937 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000214              | 0.0000607937 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000215              | 0.0000607937 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000216              | 0.0000607937 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000217              | 0.0000607937 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000218              | 0.0000607937 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000219              | 0.0000607937 | 0.00 | 4.19  |
| 0.70 |                                |              |      |       |

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|      |                   |              |      |      |
|------|-------------------|--------------|------|------|
|      | SRCPARAM L0000220 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000221 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000222 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000223 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000224 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000225 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000226 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000227 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000228 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000229 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000230 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000231 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000232 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000233 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000234 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000235 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000236 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000237 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000238 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000239 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000240 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000241 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000242 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000243 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000244 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000245 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 |                   |              |      |      |

6

|      |                   |              |      |      |
|------|-------------------|--------------|------|------|
|      | SRCPARAM L0000246 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000247 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000248 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000249 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000250 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000251 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000252 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000253 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000254 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000255 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000256 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000257 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000258 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000259 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000260 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000261 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000262 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000263 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000264 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000265 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000266 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000267 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000268 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000269 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000270 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000271 | 0.0000607937 | 0.00 | 4.19 |
| 0.70 |                   |              |      |      |

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|      |                                                |              |      |      |
|------|------------------------------------------------|--------------|------|------|
|      | SRCPARAM L0000272                              | 0.0000607937 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000273                              | 0.0000607937 | 0.00 | 4.19 |
| 0.70 |                                                |              |      |      |
| **   | -----                                          |              |      |      |
|      | URBANSRC ALL                                   |              |      |      |
|      | SRCSGROUP ALL                                  |              |      |      |
| SO   | FINISHED                                       |              |      |      |
| **   |                                                |              |      |      |
|      | *****                                          |              |      |      |
| **   | AERMOD Receptor Pathway                        |              |      |      |
|      | *****                                          |              |      |      |
| **   |                                                |              |      |      |
|      | RE STARTING                                    |              |      |      |
|      | INCLUDED TOGacute.rou                          |              |      |      |
| RE   | FINISHED                                       |              |      |      |
| **   |                                                |              |      |      |
|      | *****                                          |              |      |      |
| **   | AERMOD Meteorology Pathway                     |              |      |      |
|      | *****                                          |              |      |      |
| **   |                                                |              |      |      |
|      | ME STARTING                                    |              |      |      |
|      | SURFFILE ..\cela8.sfc                          |              |      |      |
|      | PROFFILE ..\cela8.PFL                          |              |      |      |
|      | SURFDATA 0 2006                                |              |      |      |
|      | UAIRDATA 3190 2006                             |              |      |      |
|      | SITEDATA 99999 2006                            |              |      |      |
|      | PROFBASE 87.0 METERS                           |              |      |      |
| ME   | FINISHED                                       |              |      |      |
| **   |                                                |              |      |      |
|      | *****                                          |              |      |      |
| **   | AERMOD Output Pathway                          |              |      |      |
|      | *****                                          |              |      |      |
| **   |                                                |              |      |      |
|      | OU STARTING                                    |              |      |      |
|      | RECTABLE ALLAVE 1ST                            |              |      |      |
|      | RECTABLE 1 1ST                                 |              |      |      |
| **   | Auto-Generated Plotfiles                       |              |      |      |
|      | PLOTFILE 1 ALL 1ST TOGACUTE.AD\01H1GALL.PLT 31 |              |      |      |
|      | SUMMFILE TOGacute.sum                          |              |      |      |
| OU   | FINISHED                                       |              |      |      |
|      |                                                |              |      |      |
|      | *****                                          |              |      |      |
|      | *** SETUP Finishes Successfully ***            |              |      |      |
|      | *****                                          |              |      |      |

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*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
\Dropbox\Pomeroy Environmental Services\AERMOD ***
02/20/17
*** AERMET - VERSION 14134 *** ***
*** 22:21:44

PAGE 1
**MODELOPTs: RegDFAULT CONC      ELEV      URBAN

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

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

**Model Uses URBAN Dispersion Algorithm for the SBL for 91
Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length =
1.000 m

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

**Other Options Specified:
TEMP_Sub - Meteorological data includes TEMP
substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: TOGACUTE

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

**This Run Includes: 91 Source(s); 1 Source Group(s);
and 102 Receptor(s)

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

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and: 91 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 OPENPIT source(s)

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

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by
Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for
Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked
Values (SUMMFILE Keyword)

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =
87.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = ; Emission Rate Unit
GRAMS/SEC
Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

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

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

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*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
\Dropbox\Pomeroy Environmental Services\AERMOD ***
02/20/17
*** AERMET - VERSION 14134 *** ***
*** 22:21:44

PAGE 2
**MODELOPTs: RegDFAULT CONC      ELEV      URBAN

*** VOLUME
SOURCE DATA ***

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

L0000183 0 0.35714E-02 385236.0 3775433.3 110.0
0.00 18.14 0.70 YES
L0000184 0 0.35714E-02 385205.3 3775409.3 109.1
0.00 18.14 0.70 YES
L0000185 0 0.35714E-02 385174.6 3775385.2 108.2
0.00 18.14 0.70 YES
L0000186 0 0.35714E-02 385143.9 3775361.2 106.8
0.00 18.14 0.70 YES
L0000187 0 0.35714E-02 385113.2 3775337.1 105.5
0.00 18.14 0.70 YES
L0000188 0 0.35714E-02 385082.5 3775313.1 104.4
0.00 18.14 0.70 YES
L0000189 0 0.35714E-02 385051.8 3775289.1 103.2
0.00 18.14 0.70 YES
L0000190 0 0.35714E-02 385021.1 3775265.0 101.8
0.00 18.14 0.70 YES
L0000191 0 0.35714E-02 384990.3 3775241.0 100.3
0.00 18.14 0.70 YES
L0000192 0 0.35714E-02 384959.6 3775217.0 98.7
0.00 18.14 0.70 YES
L0000193 0 0.35714E-02 384929.5 3775192.2 97.1
0.00 18.14 0.70 YES
L0000194 0 0.35714E-02 384900.4 3775166.3 95.5
0.00 18.14 0.70 YES
L0000195 0 0.35714E-02 384871.3 3775140.3 93.9
0.00 18.14 0.70 YES
L0000196 0 0.35714E-02 384844.2 3775112.6 93.0
0.00 18.14 0.70 YES
L0000197 0 0.35714E-02 384821.6 3775080.8 91.9
0.00 18.14 0.70 YES

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L0000198 0 0.35714E-02 384800.9 3775047.8 91.0
0.00 18.14 0.70 YES
L0000199 0 0.35714E-02 384782.9 3775013.2 91.1
0.00 18.14 0.70 YES
L0000200 0 0.35714E-02 384764.9 3774978.6 91.1
0.00 18.14 0.70 YES
L0000201 0 0.35714E-02 384754.1 3774941.3 91.4
0.00 18.14 0.70 YES
L0000202 0 0.35714E-02 384744.7 3774903.5 92.0
0.00 18.14 0.70 YES
L0000203 0 0.35714E-02 384737.3 3774865.3 92.8
0.00 18.14 0.70 YES
L0000204 0 0.35714E-02 384733.2 3774826.5 93.5
0.00 18.14 0.70 YES
L0000205 0 0.35714E-02 384731.2 3774787.6 94.2
0.00 18.14 0.70 YES
L0000206 0 0.35714E-02 384731.2 3774748.6 94.8
0.00 18.14 0.70 YES
L0000207 0 0.35714E-02 384731.2 3774709.6 95.4
0.00 18.14 0.70 YES
L0000208 0 0.35714E-02 384731.2 3774670.6 96.0
0.00 18.14 0.70 YES
L0000209 0 0.35714E-02 384731.2 3774631.6 96.9
0.00 18.14 0.70 YES
L0000210 0 0.35714E-02 384731.2 3774592.6 97.7
0.00 18.14 0.70 YES
L0000211 0 0.60794E-04 384499.7 3774988.1 100.4
0.00 4.19 0.70 YES
L0000212 0 0.60794E-04 384508.7 3774988.9 100.1
0.00 4.19 0.70 YES
L0000213 0 0.60794E-04 384517.6 3774989.7 99.7
0.00 4.19 0.70 YES
L0000214 0 0.60794E-04 384526.6 3774990.2 99.4
0.00 4.19 0.70 YES
L0000215 0 0.60794E-04 384535.6 3774990.2 99.0
0.00 4.19 0.70 YES
L0000216 0 0.60794E-04 384544.6 3774990.2 98.7
0.00 4.19 0.70 YES
L0000217 0 0.60794E-04 384553.6 3774990.2 98.3
0.00 4.19 0.70 YES
L0000218 0 0.60794E-04 384562.6 3774990.2 97.9
0.00 4.19 0.70 YES
L0000219 0 0.60794E-04 384571.6 3774990.2 97.5
0.00 4.19 0.70 YES
L0000220 0 0.60794E-04 384580.6 3774990.2 97.1
0.00 4.19 0.70 YES
L0000221 0 0.60794E-04 384589.6 3774990.2 96.6
0.00 4.19 0.70 YES
L0000222 0 0.60794E-04 384598.6 3774990.2 96.2
0.00 4.19 0.70 YES

```

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\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Users\Brett Pomeroy  
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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

SOURCE DATA \*\*\*

\*\*\* VOLUME

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>SZ<br>(METERS) | NUMBER<br>EMISSION<br>(GRAMS/SEC) | URBAN<br>SOURCE | EMISSION<br>RATE<br>X<br>SCALAR<br>BY | EMISSION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |
|-----------------------------------------------|-------------------------|----------------------------------|-----------------------------------|-----------------|---------------------------------------|-----------------------------------|---------------------------|
| L0000223                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384607.6                              | 3774990.2                         | 95.8                      |
| L0000224                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384616.6                              | 3774989.9                         | 95.3                      |
| L0000225                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384625.6                              | 3774989.4                         | 94.9                      |
| L0000226                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384634.6                              | 3774988.9                         | 94.4                      |
| L0000227                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384643.5                              | 3774988.4                         | 94.1                      |
| L0000228                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384652.5                              | 3774987.9                         | 93.7                      |
| L0000229                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384661.5                              | 3774987.4                         | 93.3                      |
| L0000230                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384670.5                              | 3774986.9                         | 93.0                      |
| L0000231                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384679.5                              | 3774986.3                         | 92.6                      |
| L0000232                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384688.5                              | 3774985.8                         | 92.3                      |
| L0000233                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384697.5                              | 3774985.3                         | 91.9                      |
| L0000234                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384706.4                              | 3774984.6                         | 91.5                      |
| L0000235                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384715.4                              | 3774983.6                         | 91.4                      |
| L0000236                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384724.3                              | 3774982.6                         | 91.3                      |
| L0000237                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384733.3                              | 3774981.5                         | 91.2                      |

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|          |      |      |      |             |          |           |      |
|----------|------|------|------|-------------|----------|-----------|------|
| L0000238 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384742.2 | 3774980.5 | 91.2 |
| L0000239 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384751.2 | 3774979.8 | 91.1 |
| L0000240 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384760.2 | 3774979.4 | 91.1 |
| L0000241 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384769.1 | 3774979.0 | 91.1 |
| L0000242 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384778.1 | 3774978.5 | 91.0 |
| L0000243 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384787.1 | 3774978.1 | 91.0 |
| L0000244 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384795.6 | 3774980.8 | 91.0 |
| L0000245 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384804.1 | 3774983.9 | 91.0 |
| L0000246 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384811.5 | 3774988.7 | 91.0 |
| L0000247 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384818.3 | 3774994.7 | 91.0 |
| L0000248 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384824.5 | 3775001.1 | 91.0 |
| L0000249 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384828.8 | 3775008.9 | 91.0 |
| L0000250 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384833.2 | 3775016.8 | 91.0 |
| L0000251 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384837.6 | 3775024.7 | 91.0 |
| L0000252 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384841.9 | 3775032.5 | 91.0 |
| L0000253 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384846.3 | 3775040.4 | 91.0 |
| L0000254 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384850.9 | 3775048.1 | 91.0 |
| L0000255 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384855.6 | 3775055.9 | 91.0 |
| L0000256 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384860.2 | 3775063.6 | 91.2 |
| L0000257 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384864.8 | 3775071.3 | 91.5 |
| L0000258 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384869.4 | 3775079.0 | 91.8 |
| L0000259 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384874.0 | 3775086.8 | 92.2 |
| L0000260 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384879.1 | 3775094.2 | 92.5 |
| L0000261 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384884.5 | 3775101.4 | 92.8 |
| L0000262 | 0.00 | 4.19 | 0.70 | 0.60794E-04 | 384889.8 | 3775108.6 | 93.2 |

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

SOURCE DATA \*\*\*

\*\*\* VOLUME

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>SZ<br>(METERS) | NUMBER<br>EMISSION<br>(GRAMS/SEC) | URBAN<br>SOURCE | EMISSION<br>RATE<br>X<br>SCALAR<br>BY | EMISSION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |
|-----------------------------------------------|-------------------------|----------------------------------|-----------------------------------|-----------------|---------------------------------------|-----------------------------------|---------------------------|
| L0000263                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384895.3                              | 3775115.8                         | 93.6                      |
| L0000264                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384901.1                              | 3775122.7                         | 94.0                      |
| L0000265                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384906.9                              | 3775129.5                         | 94.4                      |
| L0000266                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384912.7                              | 3775136.4                         | 94.8                      |
| L0000267                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384918.5                              | 3775143.3                         | 95.2                      |
| L0000268                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384924.3                              | 3775150.1                         | 95.6                      |
| L0000269                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384930.9                              | 3775156.3                         | 96.0                      |
| L0000270                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384937.6                              | 3775162.4                         | 96.3                      |
| L0000271                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384944.2                              | 3775168.5                         | 96.7                      |
| L0000272                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384950.8                              | 3775174.5                         | 97.2                      |
| L0000273                                      | 0.00                    | 4.19                             | 0.70                              | 0.60794E-04     | 384957.4                              | 3775180.6                         | 97.6                      |

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

DEFINING SOURCE GROUPS \*\*\*

\*\*\* SOURCE IDs

| SRCGROUP ID | SOURCE                           |
|-------------|----------------------------------|
| ALL         |                                  |
| L0000186    | L0000183 , L0000184 , L0000185 , |
| L0000190    | L0000187 , L0000188 , L0000189 , |
| L0000194    | L0000191 , L0000192 , L0000193 , |
| L0000198    | L0000195 , L0000196 , L0000197 , |
| L0000202    | L0000199 , L0000200 , L0000201 , |
| L0000206    | L0000203 , L0000204 , L0000205 , |
| L0000210    | L0000207 , L0000208 , L0000209 , |
| L0000214    | L0000211 , L0000212 , L0000213 , |
| L0000218    | L0000215 , L0000216 , L0000217 , |
| L0000222    | L0000219 , L0000220 , L0000221 , |
| L0000226    | L0000223 , L0000224 , L0000225 , |
| L0000230    | L0000227 , L0000228 , L0000229 , |
| L0000234    | L0000231 , L0000232 , L0000233 , |
| L0000238    | L0000235 , L0000236 , L0000237 , |
| L0000242    | L0000239 , L0000240 , L0000241 , |
| L0000246    | L0000243 , L0000244 , L0000245 , |
|             | L0000247 , L0000248 , L0000249 , |

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L0000250 , L0000251 , L0000252 , L0000253 ,  
L0000254 ,  
  
L0000258 , L0000255 , L0000256 , L0000257 ,  
L0000262 , L0000259 , L0000260 , L0000261 ,  
  
L0000266 , L0000263 , L0000264 , L0000265 ,  
L0000270 , L0000267 , L0000268 , L0000269 ,  
  
L0000271 , L0000272 , L0000273 ,

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

\*\*\* SOURCE IDs DEFINED

| URBAN ID<br>IDS                  | URBAN POP                        | SOURCE                                         |
|----------------------------------|----------------------------------|------------------------------------------------|
| L0000185<br>L0000189<br>L0000190 | 9862049.<br>L0000186<br>L0000187 | L0000183 , L0000184 ,<br>L0000188 ,            |
| L0000194<br>L0000198             | L0000191<br>L0000195             | L0000192 , L0000193 ,<br>L0000196 , L0000197 , |
| L0000202<br>L0000206             | L0000199<br>L0000203             | L0000200 , L0000201 ,<br>L0000204 , L0000205 , |
| L0000210<br>L0000214             | L0000207<br>L0000211             | L0000208 , L0000209 ,<br>L0000212 , L0000213 , |
| L0000218<br>L0000222             | L0000215<br>L0000219             | L0000216 , L0000217 ,<br>L0000220 , L0000221 , |
| L0000226<br>L0000230             | L0000223<br>L0000227             | L0000224 , L0000225 ,<br>L0000228 , L0000229 , |
| L0000234<br>L0000238             | L0000231<br>L0000235             | L0000232 , L0000233 ,<br>L0000236 , L0000237 , |
| L0000242<br>L0000246             | L0000239<br>L0000243             | L0000240 , L0000241 ,<br>L0000244 , L0000245 , |

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L0000250 , L0000247 , L0000248 , L0000249 ,  
L0000254 , L0000251 , L0000252 , L0000253 ,  
  
L0000258 , L0000255 , L0000256 , L0000257 ,  
L0000262 , L0000259 , L0000260 , L0000261 ,  
  
L0000266 , L0000263 , L0000264 , L0000265 ,  
L0000270 , L0000267 , L0000268 , L0000269 ,  
  
L0000271 , L0000272 , L0000273 ,

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\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Users\Brett Pomeroy  
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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

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

|                        |       |       |       |
|------------------------|-------|-------|-------|
| ( 384981.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 384927.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384945.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384963.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384981.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384909.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384927.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384945.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384963.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384981.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384837.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384855.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384909.6, 3774976.1, | 91.1, | 91.1, | 0.0); |
| ( 384927.6, 3774976.1, | 91.1, | 91.1, | 0.0); |
| ( 384945.6, 3774976.1, | 91.2, | 91.2, | 0.0); |
| ( 384963.6, 3774976.1, | 91.2, | 91.2, | 0.0); |
| ( 384981.6, 3774976.1, | 91.3, | 91.3, | 0.0); |
| ( 384999.6, 3774976.1, | 91.3, | 91.3, | 0.0); |
| ( 385017.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384837.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384855.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774989.1, | 91.1, | 91.1, | 0.0); |
| ( 384909.6, 3774989.1, | 91.2, | 91.2, | 0.0); |
| ( 384927.6, 3774989.1, | 91.2, | 91.2, | 0.0); |
| ( 384945.6, 3774989.1, | 91.3, | 91.3, | 0.0); |

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|                        |       |       |       |
|------------------------|-------|-------|-------|
| ( 384981.6, 3775067.1, | 93.2, | 93.2, | 0.0); |
| ( 384999.6, 3775067.1, | 93.5, | 93.5, | 0.0); |
| ( 385017.6, 3775067.1, | 93.8, | 93.8, | 0.0); |
| ( 385035.6, 3775067.1, | 94.1, | 94.1, | 0.0); |
| ( 384981.6, 3775080.1, | 93.9, | 93.9, | 0.0); |
| ( 384999.6, 3775080.1, | 94.3, | 94.3, | 0.0); |
| ( 385017.6, 3775080.1, | 94.7, | 94.7, | 0.0); |
| ( 385035.6, 3775080.1, | 94.9, | 94.9, | 0.0); |
| ( 384999.6, 3775093.1, | 95.0, | 95.0, | 0.0); |
| ( 385017.6, 3775093.1, | 95.5, | 95.5, | 0.0); |
| ( 385035.6, 3775093.1, | 95.8, | 95.8, | 0.0); |
| ( 385035.6, 3775106.1, | 96.6, | 96.6, | 0.0); |

[illegible]

5.14, 8.23, 10.80,

1.54. 3.09.

```
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**MODELOPTS:  RegDFAULT CONC      ELEV      URBAN

*** UP TO THE FIRST 24 HOURS

OF METEOROLOGICAL DATA ***

  Surface file:  ..\cela8.sfc
Met Version: 14134
  Profile file:  ..\cela8.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:      0      Upper air
station no.: 3190
Name: UNKNOWN
Year: 2006

First 24 hours of scalar data
YR MO DY JDY HR H0 U* W* DT/DZ ZICNV ZIMCH M-0 LEN
Z0 BOWEN ALBEDO REF WS WD HT REF TA HT
-----
06 01 01 1 01 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 347. 9.1 286.4 5.5
06 01 01 1 02 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 81. 9.1 286.4 5.5
06 01 01 1 03 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 66. 9.1 286.4 5.5
06 01 01 1 04 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 23. 9.1 285.9 5.5
06 01 01 1 05 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 61. 9.1 285.4 5.5
06 01 01 1 06 -6.5 0.093 -9.000 -9.000 -999. 68. 11.2
0.56 1.00 1.00 1.30 83. 9.1 285.4 5.5
06 01 01 1 07 -11.6 0.210 -9.000 -9.000 -999. 232. 71.6
0.56 1.00 1.00 1.80 64. 9.1 285.4 5.5
06 01 01 1 08 -6.0 0.093 -9.000 -9.000 -999. 77. 12.0
0.56 1.00 1.00 1.30 46. 9.1 285.4 5.5
06 01 01 1 09 26.6 0.340 0.706 0.005 474. 476. -132.1
0.56 1.00 0.32 2.20 87. 9.1 286.4 5.5
06 01 01 1 10 21.0 0.284 0.736 0.005 681. 364. -97.2
0.56 1.00 0.24 1.80 76. 9.1 286.4 5.5
06 01 01 1 11 35.8 0.230 0.921 0.005 780. 266. -30.3
0.56 1.00 0.21 1.30 66. 9.1 287.5 5.5
06 01 01 1 12 14.9 0.331 0.694 0.008 804. 458. -218.6
```

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```
0.56 1.00 0.20 2.20 79. 9.1 287.5 5.5
06 01 01 1 13 26.4 0.460 0.854 0.012 844. 749. -330.2
0.56 1.00 0.20 3.10 76. 9.1 287.5 5.5
06 01 01 1 14 39.0 0.466 0.995 0.015 902. 763. -231.5
0.56 1.00 0.21 3.10 80. 9.1 288.1 5.5
06 01 01 1 15 11.4 0.328 0.664 0.015 917. 466. -277.7
0.56 1.00 0.25 2.20 85. 9.1 287.5 5.5
06 01 01 1 16 0.1 0.445 0.137 0.015 917. 712. -8888.0
0.56 1.00 0.33 3.10 75. 9.1 287.0 5.5
06 01 01 1 17 -21.5 0.423 -9.000 -9.000 -999. 661. 315.0
0.56 1.00 0.60 3.10 82. 9.1 286.4 5.5
06 01 01 1 18 -33.6 0.332 -9.000 -9.000 -999. 464. 97.1
0.56 1.00 1.00 2.70 101. 9.1 286.4 5.5
06 01 01 1 19 -30.9 0.412 -9.000 -9.000 -999. 634. 201.9
0.56 1.00 1.00 3.10 97. 9.1 285.9 5.5
06 01 01 1 20 -34.9 0.630 -9.000 -9.000 -999. 1200. 640.4
0.56 1.00 1.00 4.50 92. 9.1 284.9 5.5
06 01 01 1 21 -47.1 0.624 -9.000 -9.000 -999. 1183. 460.9
0.56 1.00 1.00 4.50 88. 9.1 284.2 5.5
06 01 01 1 22 -62.8 0.616 -9.000 -9.000 -999. 1160. 332.6
0.56 1.00 1.00 4.50 91. 9.1 284.9 5.5
06 01 01 1 23 -61.4 0.816 -9.000 -9.000 -999. 1765. 791.1
0.56 1.00 1.00 5.80 82. 9.1 285.4 5.5
06 01 01 1 24 -45.3 0.820 -9.000 -9.000 -999. 1783. 1090.2
0.56 1.00 1.00 5.80 84. 9.1 285.9 5.5
```

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

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

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```
*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
\Dropbox\Pomeroy Environmental Services\AERMOD ***
02/20/17
*** AERMET - VERSION 14134 *** ***
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PAGE 11
**MODELOPTS:  RegDFAULT CONC      ELEV      URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):
L0000183 , L0000184 , L0000185 , L0000186 ,
L0000187 ,
L0000188 , L0000189 , L0000190 ,
L0000191 , L0000192 , L0000193 , L0000194 ,
L0000195 ,
L0000196 , L0000197 , L0000198 ,
L0000199 , L0000200 , L0000201 , L0000202 ,
L0000203 ,
L0000204 , L0000205 , L0000206 ,
L0000207 , L0000208 , L0000209 ,
L0000210 , . . .

*** DISCRETE

CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) Y-COORD (M) CONC (YYMDDHH)
X-COORD (M) Y-COORD (M) CONC (YYMDDHH)
-----
384981.56 3774937.12 3.18683 (06090401)
384999.56 3774937.12 2.96816 (06090401)
385017.56 3774937.12 2.77476 (06090401)
384927.56 3774950.12 4.21693 (06090506)
384945.56 3774950.12 3.85834 (06090401)
384963.56 3774950.12 3.55402 (06090401)
384981.56 3774950.12 3.29172 (06090401)
384999.56 3774950.12 3.06270 (06090506)
385017.56 3774950.12 2.86052 (06090401)
384873.56 3774963.12 6.15001 (06090401)
384891.56 3774963.12 5.41771 (06090401)
384909.56 3774963.12 4.84613 (06090401)
384927.56 3774963.12 4.38522 (06090401)
384945.56 3774963.12 4.00394 (06090401)
384963.56 3774963.12 3.68204 (06090401)
384981.56 3774963.12 3.40557 (06090401)
384999.56 3774963.12 3.16491 (06090401)
```

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```
385017.56 3774963.12 2.95291 (06090401)
384837.56 3774976.12 9.29846 (06090401)
384855.56 3774976.12 7.62552 (06090401)
384873.56 3774976.12 6.50579 (06090401)
384891.56 3774976.12 5.69283 (06090401)
384909.56 3774976.12 5.06958 (06090401)
384927.56 3774976.12 4.57296 (06090401)
384945.56 3774976.12 4.16545 (06090401)
384963.56 3774976.12 3.82329 (06090401)
384981.56 3774976.12 3.53079 (06090401)
384999.56 3774976.12 3.27695 (06090401)
385017.56 3774976.12 3.05391 (06090401)
384837.56 3774989.12 10.41433 (06090401)
384855.56 3774989.12 8.23443 (06090401)
384873.56 3774989.12 6.92203 (06090401)
384891.56 3774989.12 6.00755 (06090401)
384909.56 3774989.12 5.32177 (06090401)
384927.56 3774989.12 4.78271 (06090401)
384945.56 3774989.12 4.34440 (06090401)
384963.56 3774989.12 3.97891 (06090401)
384981.56 3774989.12 3.66799 (06090401)
384999.56 3774989.12 3.39918 (06090401)
385017.56 3774989.12 3.16354 (06090401)
384855.56 3775002.12 8.99042 (06090401)
384873.56 3775002.12 7.41295 (06090401)
384891.56 3775002.12 6.37025 (06090401)
384909.56 3775002.12 5.60822 (06090401)
384927.56 3775002.12 5.01853 (06090401)
384945.56 3775002.12 4.54411 (06090401)
384963.56 3775002.12 4.15142 (06090401)
384981.56 3775002.12 3.81905 (06090401)
384999.56 3775002.12 3.53294 (06090401)
385017.56 3775002.12 3.28308 (06090401)
385035.56 3775002.12 3.06244 (06090401)
384855.56 3775015.12 9.96310 (06090401)
384873.56 3775015.12 8.00123 (06090401)
384891.56 3775015.12 6.79288 (06090401)
384909.56 3775015.12 5.93668 (06090401)
384927.56 3775015.12 5.28603 (06090401)
384945.56 3775015.12 4.76859 (06090401)
384963.56 3775015.12 4.34380 (06090401)
384981.56 3775015.12 3.98646 (06090401)
384999.56 3775015.12 3.68032 (06090401)
385017.56 3775015.12 3.41407 (06090401)
385035.56 3775015.12 3.17966 (06090506)
384873.56 3775028.12 8.72585 (06090401)
384891.56 3775028.12 7.29320 (06090401)
384909.56 3775028.12 6.31796 (06090401)
384927.56 3775028.12 5.59233 (06090401)
384945.56 3775028.12 5.02312 (06090401)
384963.56 3775028.12 4.56006 (06090401)
384981.56 3775028.12 4.17330 (06090401)
```

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384999.56 3775028.12 3.84372 (06090401)  
385017.56 3775028.12 3.55837 (06090401)  
385035.56 3775028.12 3.30812 (06090401)  
384891.56 3775041.12 7.89843 (06090401)  
384909.56 3775041.12 6.76718 (06090401)  
384927.56 3775041.12 5.94766 (06090401)  
384945.56 3775041.12 5.31471 (06090401)  
384963.56 3775041.12 4.80530 (06090401)  
384981.56 3775041.12 4.38324 (06090401)  
384999.56 3775041.12 4.02597 (06090401)  
385017.56 3775041.12 3.71825 (06090401)

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\*\*\* AERMET - VERSION 14134 \*\*\* \*\*  
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PAGE 12  
\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN  
\*\*\* THE 1ST HIGHEST 1-HR AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S):  
L0000183 , L0000184 , L0000185 , L0000186 ,  
L0000187 , L0000188 , L0000189 , L0000190 ,  
L0000191 , L0000192 , L0000193 , L0000194 ,  
L0000195 , L0000196 , L0000197 , L0000198 ,  
L0000199 , L0000200 , L0000201 , L0000202 ,  
L0000203 , L0000204 , L0000205 , L0000206 ,  
L0000207 , L0000208 , L0000209 ,  
L0000210 , . . . ,

\*\*\* DISCRETE  
CARTESIAN RECEPTOR POINTS \*\*\*  
\*\* CONC OF TOGACUTE IN  
\*\*  
MICROGRAMS/M\*\*3

| X-COORD (M) | Y-COORD (M) | CONC    | CONC (YYMMDDHH) |
|-------------|-------------|---------|-----------------|
| 385035.56   | 3775041.12  | 3.44966 | (06090401)      |
| 384927.56   | 3775054.12  | 6.36596 | (06090401)      |
| 384945.56   | 3775054.12  | 5.65279 | (06090401)      |
| 384963.56   | 3775054.12  | 5.08621 | (06090401)      |
| 384981.56   | 3775054.12  | 4.62120 | (06090401)      |
| 384999.56   | 3775054.12  | 4.23062 | (06090506)      |
| 385017.56   | 3775054.12  | 3.89648 | (06090401)      |
| 385035.56   | 3775054.12  | 3.60636 | (06090401)      |
| 384945.56   | 3775067.12  | 6.05640 | (06090401)      |
| 384963.56   | 3775067.12  | 5.41683 | (06090401)      |
| 384981.56   | 3775067.12  | 4.89835 | (06090401)      |
| 384999.56   | 3775067.12  | 4.46695 | (06090401)      |
| 385017.56   | 3775067.12  | 4.10081 | (06090401)      |
| 385035.56   | 3775067.12  | 3.78465 | (06090401)      |
| 384981.56   | 3775080.12  | 5.21923 | (06090401)      |
| 384999.56   | 3775080.12  | 4.73697 | (06090401)      |
| 385017.56   | 3775080.12  | 4.33184 | (06090401)      |

385035.56 3775080.12 3.98456 (06090401)  
384999.56 3775093.12 5.04849 (06090401)  
385017.56 3775093.12 4.59513 (06090401)  
385035.56 3775093.12 4.21018 (06090401)  
385035.56 3775106.12 4.46698 (06090401)

\*\*\* AERMOD - VERSION 15181 \*\*\* \*\* C:\Users\Brett Pomeroy  
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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN  
\*\*\* THE SUMMARY  
OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF TOGACUTE IN  
\*\*  
MICROGRAMS/M\*\*3  
DATE  
NETWORK  
GROUP ID AVERAGE CONC (YYMMDDHH)  
RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID  
ALL HIGH 1ST HIGH VALUE IS 10.41433 ON 06090401: AT  
( 384837.56, 3774989.12, 91.00, 91.00, 0.00) DC

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

\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Users\Brett Pomeroy  
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\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

A Total of 0 Fatal Error Message(s)

A Total of 2 Warning Message(s)

A Total of 756 Informational Message(s)

A Total of 43800 Hours Were Processed

A Total of 4 Calm Hours Identified

A Total of 752 Missing Hours Identified ( 1.72  
Percent)

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

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

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

**
*****
** AERMOD Input Produced by:
** AERMOD View Ver. 9.2.0
** Lakes Environmental Software Inc.
** Date: 2/21/2017
** File: C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD\Casitas HRA\N02 1HR\N02 1HR.ADI
**
*****
**
**
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD
  MODELOPT DFAULT CONC ARM
  AVERTIME 1
  URBANOPT 9862049
  POLLUTID N02
  RUNORNOT RUN
** N02 Conversion Options
  AMRATIO 0.800 0.750
  ERRORFTL "N02 1HR.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Glendale Fwy
** PREFIX
** Length of Side = 39.00
** Configuration = Adjacent
** Emission Rate = 0.966
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 8

```

1

```

** 384495.216, 3774987.675, 99.50, 0.00, 4.19
** 384523.422, 3774990.239, 98.24, 0.00, 4.19
** 384609.962, 3774990.239, 94.68, 0.00, 4.19
** 384701.631, 3774985.111, 91.27, 0.00, 4.19
** 384747.145, 3774979.982, 91.29, 0.00, 4.19
** 384788.172, 3774978.059, 91.02, 0.00, 4.19
** 384807.403, 3774985.111, 91.05, 0.00, 4.19
** 384823.429, 3774999.214, 91.07, 0.00, 4.19
** 384845.865, 3775039.599, 91.00, 0.00, 4.19
** 384875.448, 3775089.231, 91.12, 0.00, 4.19
** 384893.975, 3775114.243, 91.31, 0.00, 4.19
** 384924.545, 3775150.371, 95.25, 0.00, 4.19
** 384959.747, 3775182.793, 96.84, 0.00, 4.19
**
-----
LOCATION L0000848 VOLUME 384499.698 3774988.082 100.42
LOCATION L0000849 VOLUME 384508.661 3774988.897 100.08
LOCATION L0000850 VOLUME 384517.624 3774989.712 99.74
LOCATION L0000851 VOLUME 384526.600 3774990.239 99.40
LOCATION L0000852 VOLUME 384535.600 3774990.239 99.05
LOCATION L0000853 VOLUME 384544.600 3774990.239 98.70
LOCATION L0000854 VOLUME 384553.600 3774990.239 98.35
LOCATION L0000855 VOLUME 384562.600 3774990.239 97.94
LOCATION L0000856 VOLUME 384571.600 3774990.239 97.50
LOCATION L0000857 VOLUME 384580.600 3774990.239 97.06
LOCATION L0000858 VOLUME 384589.600 3774990.239 96.62
LOCATION L0000859 VOLUME 384598.600 3774990.239 96.19
LOCATION L0000860 VOLUME 384607.600 3774990.239 95.75
LOCATION L0000861 VOLUME 384616.590 3774989.868 95.31
LOCATION L0000862 VOLUME 384625.576 3774989.366 94.86
LOCATION L0000863 VOLUME 384634.562 3774988.863 94.43
LOCATION L0000864 VOLUME 384643.547 3774988.360 94.07
LOCATION L0000865 VOLUME 384652.533 3774987.857 93.71
LOCATION L0000866 VOLUME 384661.519 3774987.355 93.35
LOCATION L0000867 VOLUME 384670.505 3774986.852 92.99
LOCATION L0000868 VOLUME 384679.491 3774986.349 92.63
LOCATION L0000869 VOLUME 384688.477 3774985.847 92.27
LOCATION L0000870 VOLUME 384697.463 3774985.344 91.91
LOCATION L0000871 VOLUME 384706.426 3774984.841 91.55
LOCATION L0000872 VOLUME 384715.370 3774984.338 91.19
LOCATION L0000873 VOLUME 384724.313 3774983.835 90.83
LOCATION L0000874 VOLUME 384733.257 3774983.332 90.47
LOCATION L0000875 VOLUME 384742.200 3774982.829 90.11
LOCATION L0000876 VOLUME 384751.164 3774979.794 91.15
LOCATION L0000877 VOLUME 384760.154 3774979.373 91.11
LOCATION L0000878 VOLUME 384769.145 3774978.951 91.07
LOCATION L0000879 VOLUME 384778.135 3774978.530 91.03
LOCATION L0000880 VOLUME 384787.125 3774978.108 91.00
LOCATION L0000881 VOLUME 384795.638 3774980.797 91.00
LOCATION L0000882 VOLUME 384804.987 3774983.895 91.00
LOCATION L0000883 VOLUME 384811.508 3774988.723 91.00
LOCATION L0000884 VOLUME 384818.265 3774994.669 91.00

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3

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** 385251.397, 3775445.306, 109.99, 0.00, 18.14
** 384940.062, 3775201.653, 96.19, 0.00, 18.14
** 384851.110, 3775122.369, 91.17, 0.00, 18.14
** 384808.567, 3775062.423, 91.08, 0.00, 18.14
** 384762.157, 3774973.470, 91.05, 0.00, 18.14
** 384738.952, 3774880.650, 92.94, 0.00, 18.14
** 384731.217, 3774807.167, 94.35, 0.00, 18.14
** 384731.217, 3774569.315, 98.20, 0.00, 18.14
**
-----
LOCATION L0000820 VOLUME 385236.040 3775433.288 110.00
LOCATION L0000821 VOLUME 385205.328 3775409.252 109.11
LOCATION L0000822 VOLUME 385174.615 3775385.216 108.17
LOCATION L0000823 VOLUME 385143.902 3775361.180 106.85
LOCATION L0000824 VOLUME 385113.190 3775337.144 105.53
LOCATION L0000825 VOLUME 385082.477 3775313.108 104.37
LOCATION L0000826 VOLUME 385051.764 3775289.072 103.22
LOCATION L0000827 VOLUME 385021.052 3775265.036 101.85
LOCATION L0000828 VOLUME 384990.339 3775241.000 100.27
LOCATION L0000829 VOLUME 384959.626 3775216.964 98.73
LOCATION L0000830 VOLUME 384929.494 3775192.233 97.09
LOCATION L0000831 VOLUME 384900.380 3775166.284 95.49
LOCATION L0000832 VOLUME 384871.266 3775140.334 93.88
LOCATION L0000833 VOLUME 384844.165 3775112.583 92.99
LOCATION L0000834 VOLUME 384821.594 3775080.779 91.93
LOCATION L0000835 VOLUME 384800.939 3775047.802 91.00
LOCATION L0000836 VOLUME 384782.899 3775013.225 91.06
LOCATION L0000837 VOLUME 384764.858 3774978.648 91.08
LOCATION L0000838 VOLUME 384754.115 3774941.301 91.36
LOCATION L0000839 VOLUME 384744.656 3774903.465 92.02
LOCATION L0000840 VOLUME 384737.331 3774865.252 92.76
LOCATION L0000841 VOLUME 384733.248 3774826.467 93.51
LOCATION L0000842 VOLUME 384731.217 3774787.573 94.25
LOCATION L0000843 VOLUME 384731.217 3774748.573 94.82
LOCATION L0000844 VOLUME 384731.217 3774709.573 95.37
LOCATION L0000845 VOLUME 384731.217 3774670.573 96.05
LOCATION L0000846 VOLUME 384731.217 3774631.573 96.89
LOCATION L0000847 VOLUME 384731.217 3774592.573 97.73
** End of LINE VOLUME Source ID = SLINE1
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Fletcher Ramp
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 0.0371
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 13

```

2

```

LOCATION L0000885 VOLUME 384824.459 3775001.068 91.00
LOCATION L0000886 VOLUME 384828.830 3775008.935 91.00
LOCATION L0000887 VOLUME 384833.201 3775016.803 91.00
LOCATION L0000888 VOLUME 384837.571 3775024.670 91.00
LOCATION L0000889 VOLUME 384841.942 3775032.537 91.00
LOCATION L0000890 VOLUME 384846.337 3775040.391 91.00
LOCATION L0000891 VOLUME 384850.945 3775048.122 91.00
LOCATION L0000892 VOLUME 384855.553 3775055.853 91.00
LOCATION L0000893 VOLUME 384860.161 3775063.583 91.25
LOCATION L0000894 VOLUME 384864.769 3775071.314 91.49
LOCATION L0000895 VOLUME 384869.377 3775079.045 91.82
LOCATION L0000896 VOLUME 384873.985 3775086.776 92.16
LOCATION L0000897 VOLUME 384879.104 3775094.167 92.50
LOCATION L0000898 VOLUME 384884.461 3775101.399 92.85
LOCATION L0000899 VOLUME 384889.818 3775108.631 93.22
LOCATION L0000900 VOLUME 384895.277 3775115.782 93.59
LOCATION L0000901 VOLUME 384901.091 3775122.652 93.98
LOCATION L0000902 VOLUME 384906.904 3775129.523 94.37
LOCATION L0000903 VOLUME 384912.718 3775136.393 94.78
LOCATION L0000904 VOLUME 384918.531 3775143.264 95.19
LOCATION L0000905 VOLUME 384924.345 3775150.134 95.60
LOCATION L0000906 VOLUME 384930.937 3775156.258 95.97
LOCATION L0000907 VOLUME 384937.557 3775162.355 96.34
LOCATION L0000908 VOLUME 384944.177 3775168.453 96.73
LOCATION L0000909 VOLUME 384950.797 3775174.550 97.16
LOCATION L0000910 VOLUME 384957.417 3775180.647 97.58
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
SRCPARAM L0000820 0.0345 0.00 18.14 0.70
SRCPARAM L0000821 0.0345 0.00 18.14 0.70
SRCPARAM L0000822 0.0345 0.00 18.14 0.70
SRCPARAM L0000823 0.0345 0.00 18.14 0.70
SRCPARAM L0000824 0.0345 0.00 18.14 0.70
SRCPARAM L0000825 0.0345 0.00 18.14 0.70
SRCPARAM L0000826 0.0345 0.00 18.14 0.70
SRCPARAM L0000827 0.0345 0.00 18.14 0.70
SRCPARAM L0000828 0.0345 0.00 18.14 0.70
SRCPARAM L0000829 0.0345 0.00 18.14 0.70
SRCPARAM L0000830 0.0345 0.00 18.14 0.70
SRCPARAM L0000831 0.0345 0.00 18.14 0.70
SRCPARAM L0000832 0.0345 0.00 18.14 0.70
SRCPARAM L0000833 0.0345 0.00 18.14 0.70
SRCPARAM L0000834 0.0345 0.00 18.14 0.70
SRCPARAM L0000835 0.0345 0.00 18.14 0.70
SRCPARAM L0000836 0.0345 0.00 18.14 0.70
SRCPARAM L0000837 0.0345 0.00 18.14 0.70
SRCPARAM L0000838 0.0345 0.00 18.14 0.70
SRCPARAM L0000839 0.0345 0.00 18.14 0.70
SRCPARAM L0000840 0.0345 0.00 18.14 0.70
SRCPARAM L0000841 0.0345 0.00 18.14 0.70
SRCPARAM L0000842 0.0345 0.00 18.14 0.70

```

4

|                                   |              |      |       |      |
|-----------------------------------|--------------|------|-------|------|
| SRCPARAM L0000843                 | 0.0345       | 0.00 | 18.14 | 0.70 |
| SRCPARAM L0000844                 | 0.0345       | 0.00 | 18.14 | 0.70 |
| SRCPARAM L0000845                 | 0.0345       | 0.00 | 18.14 | 0.70 |
| SRCPARAM L0000846                 | 0.0345       | 0.00 | 18.14 | 0.70 |
| SRCPARAM L0000847                 | 0.0345       | 0.00 | 18.14 | 0.70 |
| **                                |              |      |       |      |
| -----                             |              |      |       |      |
| ** LINE VOLUME Source ID = SLINE2 |              |      |       |      |
| SRCPARAM L0000848                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000849                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000850                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000851                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000852                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000853                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000854                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000855                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000856                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000857                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000858                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000859                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000860                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000861                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000862                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000863                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000864                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000865                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000866                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000867                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000868                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |
| SRCPARAM L0000869                 | 0.0005888889 | 0.00 | 4.19  |      |
| 0.70                              |              |      |       |      |

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|                   |              |      |      |  |
|-------------------|--------------|------|------|--|
| SRCPARAM L0000870 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000871 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000872 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000873 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000874 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000875 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000876 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000877 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000878 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000879 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000880 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000881 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000882 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000883 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000884 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000885 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000886 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000887 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000888 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000889 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000890 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000891 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000892 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000893 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000894 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |
| SRCPARAM L0000895 | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70              |              |      |      |  |

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|                               |              |      |      |  |
|-------------------------------|--------------|------|------|--|
| SRCPARAM L0000896             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| SRCPARAM L0000897             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| SRCPARAM L0000898             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| SRCPARAM L0000899             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| SRCPARAM L0000900             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| SRCPARAM L0000901             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| SRCPARAM L0000902             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| SRCPARAM L0000903             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| SRCPARAM L0000904             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| SRCPARAM L0000905             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| SRCPARAM L0000906             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| SRCPARAM L0000907             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| SRCPARAM L0000908             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| SRCPARAM L0000909             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| SRCPARAM L0000910             | 0.0005888889 | 0.00 | 4.19 |  |
| 0.70                          |              |      |      |  |
| **                            |              |      |      |  |
| -----                         |              |      |      |  |
| URBANSRC ALL                  |              |      |      |  |
| SRCGROUP ALL                  |              |      |      |  |
| SD FINISHED                   |              |      |      |  |
| **                            |              |      |      |  |
| *****                         |              |      |      |  |
| ** AERMOD Receptor Pathway    |              |      |      |  |
| *****                         |              |      |      |  |
| **                            |              |      |      |  |
| **                            |              |      |      |  |
| RE STARTING                   |              |      |      |  |
| INCLUDED "N02 1HR.rou"        |              |      |      |  |
| RE FINISHED                   |              |      |      |  |
| **                            |              |      |      |  |
| *****                         |              |      |      |  |
| ** AERMOD Meteorology Pathway |              |      |      |  |
| *****                         |              |      |      |  |
| **                            |              |      |      |  |
| **                            |              |      |      |  |
| ME STARTING                   |              |      |      |  |
| SURFFILE ..\cela8.sfc         |              |      |      |  |

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```

PROFFILE ..\cela8.PFL
SURFDATA 0 2006
UAIRDATA 3190 2006
SITEDATA 99999 2006
PROFBASE 87.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST "N02 1HR.AD\01HIGALL.PLT" 31
SUMMFILE "N02 1HR.sum"
OU FINISHED

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

```

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*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
\Dropbox\Pomeroy Environmental Services\AERMOD ***
02/21/17
*** AERMET - VERSION 14134 *** ***
01:23:39

PAGE 1
**MODELOPTS: RegDFAULT CONC      ELEV      ARM      URBAN
***
MODEL SETUP
OPTIONS SUMMARY
-----
**Model Is Setup For Calculation of Average CONCentration
Values.

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

**Model Uses URBAN Dispersion Algorithm for the SBL for 91
Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length =
1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Ambient Ratio Method (ARM) Used for NO2 Conversion
with a 1-hour NO2/NOx Ratio of 0.800
with an Annual NO2/NOx Ratio of 0.750
7. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
TEMP_Sub - Meteorological data includes TEMP
substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: NO2

**Note that special processing requirements apply for the 1-hour
NO2 NAAQS - check available guidance.
Model will process user-specified ranks of daily maximum 1-
hour values averaged across the number of years modeled.

```

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```

For annual NO2 NAAQS modeling, the multi-year maximum of
PERIOD values can be simulated using the MULTYEAR keyword.
Multi-year PERIOD and 1-hour values should only be done in a
single model run using the MULTYEAR option with a
single multi-year meteorological data file using STARTEND
keyword.

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

**This Run Includes: 91 Source(s); 1 Source Group(s);
and 102 Receptor(s)

with: 0 POINT(s), including 0 POINTHOR(s)
0 POINTCAP(s) and
and: 91 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 OPENPIT source(s)

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

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by
Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for
Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked
Values (SUMMFILE Keyword)

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

m for Missing Hours

b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =
87.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units =
GRAMS/SEC ; Emission Rate Unit
Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

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

**Detailed Error/Message File: NO2 1HR.err
**File for Summary of Results: NO2 1HR.sum

```

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PAGE 2
**MODELOPTS: RegDFAULT CONC      ELEV      ARM      URBAN
***
VOLUME
SOURCE DATA ***
NUMBER EMISSION RATE      BASE
RELEASE INIT. INIT. URBAN EMISSION RATE
SOURCE PART. (GRAMS/SEC) X Y
HEIGHT SY SZ SOURCE SCALAR VARY ELEV.
ID CATS SOURCE (METERS) (METERS) (METERS)
(METERS) (METERS) (METERS) BY
-----
L0000820 0 0.34500E-01 385236.0 3775433.3 110.0
0.00 18.14 0.70 YES
L0000821 0 0.34500E-01 385205.3 3775409.3 109.1
0.00 18.14 0.70 YES
L0000822 0 0.34500E-01 385174.6 3775385.2 108.2
0.00 18.14 0.70 YES
L0000823 0 0.34500E-01 385143.9 3775361.2 106.8
0.00 18.14 0.70 YES
L0000824 0 0.34500E-01 385113.2 3775337.1 105.5
0.00 18.14 0.70 YES
L0000825 0 0.34500E-01 385082.5 3775313.1 104.4
0.00 18.14 0.70 YES
L0000826 0 0.34500E-01 385051.8 3775289.1 103.2
0.00 18.14 0.70 YES
L0000827 0 0.34500E-01 385021.1 3775265.0 101.8
0.00 18.14 0.70 YES
L0000828 0 0.34500E-01 384990.3 3775241.0 100.3
0.00 18.14 0.70 YES
L0000829 0 0.34500E-01 384959.6 3775217.0 98.7
0.00 18.14 0.70 YES
L0000830 0 0.34500E-01 384929.5 3775192.2 97.1
0.00 18.14 0.70 YES
L0000831 0 0.34500E-01 384900.4 3775166.3 95.5
0.00 18.14 0.70 YES
L0000832 0 0.34500E-01 384871.3 3775140.3 93.9
0.00 18.14 0.70 YES
L0000833 0 0.34500E-01 384844.2 3775112.6 93.0
0.00 18.14 0.70 YES
L0000834 0 0.34500E-01 384821.6 3775080.8 91.9
0.00 18.14 0.70 YES

```

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|            |      |             |          |           |       |
|------------|------|-------------|----------|-----------|-------|
| L0000835   | 0    | 0.34500E-01 | 384800.9 | 3775047.8 | 91.0  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000836   | 0    | 0.34500E-01 | 384782.9 | 3775013.2 | 91.1  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000837   | 0    | 0.34500E-01 | 384764.9 | 3774978.6 | 91.1  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000838   | 0    | 0.34500E-01 | 384754.1 | 3774941.3 | 91.4  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000839   | 0    | 0.34500E-01 | 384744.7 | 3774903.5 | 92.0  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000840   | 0    | 0.34500E-01 | 384737.3 | 3774865.3 | 92.8  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000841   | 0    | 0.34500E-01 | 384733.2 | 3774826.5 | 93.5  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000842   | 0    | 0.34500E-01 | 384731.2 | 3774787.6 | 94.2  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000843   | 0    | 0.34500E-01 | 384731.2 | 3774748.6 | 94.8  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000844   | 0    | 0.34500E-01 | 384731.2 | 3774709.6 | 95.4  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000845   | 0    | 0.34500E-01 | 384731.2 | 3774670.6 | 96.0  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000846   | 0    | 0.34500E-01 | 384731.2 | 3774631.6 | 96.9  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000847   | 0    | 0.34500E-01 | 384731.2 | 3774592.6 | 97.7  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000848   | 0    | 0.58889E-03 | 384499.7 | 3774988.1 | 100.4 |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000849   | 0    | 0.58889E-03 | 384508.7 | 3774988.9 | 100.1 |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000850   | 0    | 0.58889E-03 | 384517.6 | 3774989.7 | 99.7  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000851   | 0    | 0.58889E-03 | 384526.6 | 3774990.2 | 99.4  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000852   | 0    | 0.58889E-03 | 384535.6 | 3774990.2 | 99.0  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000853   | 0    | 0.58889E-03 | 384544.6 | 3774990.2 | 98.7  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000854   | 0    | 0.58889E-03 | 384553.6 | 3774990.2 | 98.3  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000855   | 0    | 0.58889E-03 | 384562.6 | 3774990.2 | 97.9  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000856   | 0    | 0.58889E-03 | 384571.6 | 3774990.2 | 97.5  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000857   | 0    | 0.58889E-03 | 384580.6 | 3774990.2 | 97.1  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000858   | 0    | 0.58889E-03 | 384589.6 | 3774990.2 | 96.6  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000859   | 0    | 0.58889E-03 | 384598.6 | 3774990.2 | 96.2  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |

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\*\*MODELOPTs: RegDFAULT CONC ELEV ARM URBAN

SOURCE DATA \*\*\*

\*\*\* VOLUME

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>SZ<br>(METERS) | NUMBER<br>(GRAMS/SEC) | EMISSION<br>RATE<br>X<br>SCALAR VARY<br>(METERS) | EMISSION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |
|-----------------------------------------------|-------------------------|----------------------------------|-----------------------|--------------------------------------------------|-----------------------------------|---------------------------|
| L0000860                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384607.6                                         | 3774990.2                         | 95.8                      |
| L0000861                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384616.6                                         | 3774989.9                         | 95.3                      |
| L0000862                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384625.6                                         | 3774989.4                         | 94.9                      |
| L0000863                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384634.6                                         | 3774988.9                         | 94.4                      |
| L0000864                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384643.5                                         | 3774988.4                         | 94.1                      |
| L0000865                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384652.5                                         | 3774987.9                         | 93.7                      |
| L0000866                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384661.5                                         | 3774987.4                         | 93.3                      |
| L0000867                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384670.5                                         | 3774986.9                         | 93.0                      |
| L0000868                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384679.5                                         | 3774986.3                         | 92.6                      |
| L0000869                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384688.5                                         | 3774985.8                         | 92.3                      |
| L0000870                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384697.5                                         | 3774985.3                         | 91.9                      |
| L0000871                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384706.4                                         | 3774984.6                         | 91.5                      |
| L0000872                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384715.4                                         | 3774983.6                         | 91.4                      |
| L0000873                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384724.3                                         | 3774982.6                         | 91.3                      |
| L0000874                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384733.3                                         | 3774981.5                         | 91.2                      |

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|          |      |      |             |          |           |      |
|----------|------|------|-------------|----------|-----------|------|
| L0000875 | 0.00 | 0.70 | 0.58889E-03 | 384742.2 | 3774980.5 | 91.2 |
| L0000876 | 0.00 | 0.70 | 0.58889E-03 | 384751.2 | 3774979.8 | 91.1 |
| L0000877 | 0.00 | 0.70 | 0.58889E-03 | 384760.2 | 3774979.4 | 91.1 |
| L0000878 | 0.00 | 0.70 | 0.58889E-03 | 384769.1 | 3774979.0 | 91.1 |
| L0000879 | 0.00 | 0.70 | 0.58889E-03 | 384778.1 | 3774978.5 | 91.0 |
| L0000880 | 0.00 | 0.70 | 0.58889E-03 | 384787.1 | 3774978.1 | 91.0 |
| L0000881 | 0.00 | 0.70 | 0.58889E-03 | 384795.6 | 3774980.8 | 91.0 |
| L0000882 | 0.00 | 0.70 | 0.58889E-03 | 384804.1 | 3774983.9 | 91.0 |
| L0000883 | 0.00 | 0.70 | 0.58889E-03 | 384811.5 | 3774988.7 | 91.0 |
| L0000884 | 0.00 | 0.70 | 0.58889E-03 | 384818.3 | 3774994.7 | 91.0 |
| L0000885 | 0.00 | 0.70 | 0.58889E-03 | 384824.5 | 3775001.1 | 91.0 |
| L0000886 | 0.00 | 0.70 | 0.58889E-03 | 384828.8 | 3775008.9 | 91.0 |
| L0000887 | 0.00 | 0.70 | 0.58889E-03 | 384833.2 | 3775016.8 | 91.0 |
| L0000888 | 0.00 | 0.70 | 0.58889E-03 | 384837.6 | 3775024.7 | 91.0 |
| L0000889 | 0.00 | 0.70 | 0.58889E-03 | 384841.9 | 3775032.5 | 91.0 |
| L0000890 | 0.00 | 0.70 | 0.58889E-03 | 384846.3 | 3775040.4 | 91.0 |
| L0000891 | 0.00 | 0.70 | 0.58889E-03 | 384850.9 | 3775048.1 | 91.0 |
| L0000892 | 0.00 | 0.70 | 0.58889E-03 | 384855.6 | 3775055.9 | 91.0 |
| L0000893 | 0.00 | 0.70 | 0.58889E-03 | 384860.2 | 3775063.6 | 91.2 |
| L0000894 | 0.00 | 0.70 | 0.58889E-03 | 384864.8 | 3775071.3 | 91.5 |
| L0000895 | 0.00 | 0.70 | 0.58889E-03 | 384869.4 | 3775079.0 | 91.8 |
| L0000896 | 0.00 | 0.70 | 0.58889E-03 | 384874.0 | 3775086.8 | 92.2 |
| L0000897 | 0.00 | 0.70 | 0.58889E-03 | 384879.1 | 3775094.2 | 92.5 |
| L0000898 | 0.00 | 0.70 | 0.58889E-03 | 384884.5 | 3775101.4 | 92.8 |
| L0000899 | 0.00 | 0.70 | 0.58889E-03 | 384889.8 | 3775108.6 | 93.2 |

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\*\*MODELOPTs: RegDFAULT CONC ELEV ARM URBAN

SOURCE DATA \*\*\*

\*\*\* VOLUME

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>SZ<br>(METERS) | NUMBER<br>(GRAMS/SEC) | EMISSION<br>RATE<br>X<br>SCALAR VARY<br>(METERS) | EMISSION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |
|-----------------------------------------------|-------------------------|----------------------------------|-----------------------|--------------------------------------------------|-----------------------------------|---------------------------|
| L0000900                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384895.3                                         | 3775115.8                         | 93.6                      |
| L0000901                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384901.1                                         | 3775122.7                         | 94.0                      |
| L0000902                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384906.9                                         | 3775129.5                         | 94.4                      |
| L0000903                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384912.7                                         | 3775136.4                         | 94.8                      |
| L0000904                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384918.5                                         | 3775143.3                         | 95.2                      |
| L0000905                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384924.3                                         | 3775150.1                         | 95.6                      |
| L0000906                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384930.9                                         | 3775156.3                         | 96.0                      |
| L0000907                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384937.6                                         | 3775162.4                         | 96.3                      |
| L0000908                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384944.2                                         | 3775168.5                         | 96.7                      |
| L0000909                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384950.8                                         | 3775174.5                         | 97.2                      |
| L0000910                                      | 0.00                    | 0.70                             | 0.58889E-03           | 384957.4                                         | 3775180.6                         | 97.6                      |

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\*\*MODELOPTs: RegDFAULT CONC ELEV ARM URBAN

DEFINING SOURCE GROUPS \*\*\*

\*\*\* SOURCE IDs

| SRCGROUP ID | SOURCE                           |
|-------------|----------------------------------|
| ALL         | L0000820 , L0000821 , L0000822 , |
| L0000823    | L0000824 , L0000825 , L0000826 , |
| L0000827    | , , ,                            |
| L0000831    | L0000828 , L0000829 , L0000830 , |
| L0000835    | L0000832 , L0000833 , L0000834 , |
| L0000839    | L0000836 , L0000837 , L0000838 , |
| L0000843    | L0000840 , L0000841 , L0000842 , |
| L0000847    | L0000844 , L0000845 , L0000846 , |
| L0000851    | L0000848 , L0000849 , L0000850 , |
| L0000855    | L0000852 , L0000853 , L0000854 , |
| L0000859    | L0000856 , L0000857 , L0000858 , |
| L0000863    | L0000860 , L0000861 , L0000862 , |
| L0000867    | L0000864 , L0000865 , L0000866 , |
| L0000871    | L0000868 , L0000869 , L0000870 , |
| L0000875    | L0000872 , L0000873 , L0000874 , |
| L0000879    | L0000876 , L0000877 , L0000878 , |
| L0000883    | L0000880 , L0000881 , L0000882 , |
| L0000884    | L0000883 , L0000884 , L0000885 , |
| L0000886    | , , ,                            |

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L0000887 , L0000888 , L0000889 , L0000890 ,  
L0000891 ,  
  
L0000895 , L0000892 , L0000893 , L0000894 ,  
L0000896 , L0000896 , L0000897 , L0000898 ,  
L0000899 ,  
  
L0000903 , L0000900 , L0000901 , L0000902 ,  
L0000907 , L0000904 , L0000905 , L0000906 ,  
L0000907 ,  
  
L0000908 , L0000909 , L0000910 ,

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\*\*MODELOPTS: RegDFAULT CONC ELEV ARM URBAN

\*\*\* SOURCE IDs DEFINED

| URBAN ID | URBAN POP | SOURCE   |
|----------|-----------|----------|
| IDS      | IDS       | IDS      |
| L0000822 | 9862049.  | L0000820 |
| L0000826 | L0000823  | L0000824 |
| L0000827 |           | L0000825 |
| L0000831 | L0000828  | L0000829 |
| L0000835 | L0000832  | L0000833 |
| L0000839 | L0000836  | L0000837 |
| L0000843 | L0000840  | L0000841 |
| L0000847 | L0000844  | L0000845 |
| L0000851 | L0000848  | L0000849 |
| L0000855 | L0000852  | L0000853 |
| L0000859 | L0000856  | L0000857 |
| L0000863 | L0000860  | L0000861 |
| L0000867 | L0000864  | L0000865 |
| L0000871 | L0000868  | L0000869 |
| L0000875 | L0000872  | L0000873 |
| L0000879 | L0000876  | L0000877 |
| L0000883 | L0000880  | L0000881 |

L0000887 , L0000884 , L0000885 , L0000886 ,  
L0000891 , L0000888 , L0000889 , L0000890 ,  
  
L0000895 , L0000892 , L0000893 , L0000894 ,  
L0000896 , L0000896 , L0000897 , L0000898 ,  
L0000899 ,  
  
L0000903 , L0000900 , L0000901 , L0000902 ,  
L0000907 , L0000904 , L0000905 , L0000906 ,  
L0000907 ,  
  
L0000908 , L0000909 , L0000910 ,

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\*\*MODELOPTS: RegDFAULT CONC ELEV ARM URBAN

CARTESIAN RECEPTORS \*\*\*

ZELEV, ZHILL, ZFLAG)

(METERS)

|                        |       |       |       |
|------------------------|-------|-------|-------|
| ( 384981.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 384927.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384945.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384963.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384981.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384909.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384927.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384945.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384963.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384981.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384837.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384855.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384909.6, 3774976.1, | 91.1, | 91.1, | 0.0); |
| ( 384927.6, 3774976.1, | 91.1, | 91.1, | 0.0); |
| ( 384945.6, 3774976.1, | 91.2, | 91.2, | 0.0); |
| ( 384963.6, 3774976.1, | 91.2, | 91.2, | 0.0); |
| ( 384981.6, 3774976.1, | 91.3, | 91.3, | 0.0); |
| ( 384999.6, 3774976.1, | 91.3, | 91.3, | 0.0); |
| ( 385017.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384837.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384855.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774989.1, | 91.1, | 91.1, | 0.0); |
| ( 384909.6, 3774989.1, | 91.2, | 91.2, | 0.0); |
| ( 384927.6, 3774989.1, | 91.2, | 91.2, | 0.0); |
| ( 384945.6, 3774989.1, | 91.3, | 91.3, | 0.0); |

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**MODELOPTS: RegDFAULT CONC ELEV ARM URBAN

OF METEOROLOGICAL DATA ***

Surface file: ..\cela8.sfc
Met Version: 14134
Profile file: ..\cela8.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air
station no.: 3190
Name: UNKNOWN
Year: 2006

First 24 hours of scalar data
YR MO DY JDY HR H0 U* W* DT/DZ ZICNV ZIMCH M-0 LEN
Z0 BOWEN ALBEDO REF WS WD HT REF TA HT
-----
06 01 01 1 01 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 347. 9.1 286.4 5.5
06 01 01 1 02 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 81. 9.1 286.4 5.5
06 01 01 1 03 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 66. 9.1 286.4 5.5
06 01 01 1 04 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 23. 9.1 285.9 5.5
06 01 01 1 05 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 61. 9.1 285.4 5.5
06 01 01 1 06 -6.5 0.093 -9.000 -9.000 -999. 68. 11.2
0.56 1.00 1.00 1.30 83. 9.1 285.4 5.5
06 01 01 1 07 -11.6 0.210 -9.000 -9.000 -999. 232. 71.6
0.56 1.00 1.00 1.80 64. 9.1 285.4 5.5
06 01 01 1 08 -6.0 0.093 -9.000 -9.000 -999. 77. 12.0
0.56 1.00 0.55 1.30 46. 9.1 285.4 5.5
06 01 01 1 09 26.6 0.340 0.700 0.005 474. 476. -132.1
0.56 1.00 0.32 2.20 87. 9.1 286.4 5.5
06 01 01 1 10 21.0 0.284 0.736 0.005 681. 364. -97.2
0.56 1.00 0.24 1.80 76. 9.1 286.4 5.5
06 01 01 1 11 35.8 0.230 0.921 0.005 780. 266. -30.3
0.56 1.00 0.21 1.30 66. 9.1 287.5 5.5
06 01 01 1 12 14.9 0.331 0.694 0.008 804. 458. -218.6

```

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```

0.56 1.00 0.20 2.20 79. 9.1 287.5 5.5
06 01 01 1 13 26.4 0.460 0.854 0.012 844. 749. -330.2
0.56 1.00 0.20 3.10 76. 9.1 287.5 5.5
06 01 01 1 14 39.0 0.466 0.995 0.015 902. 763. -231.5
0.56 1.00 0.21 3.10 80. 9.1 288.1 5.5
06 01 01 1 15 11.4 0.328 0.664 0.015 917. 466. -277.7
0.56 1.00 0.25 2.20 85. 9.1 287.5 5.5
06 01 01 1 16 0.1 0.445 0.137 0.015 917. 712. -8888.0
0.56 1.00 0.33 3.10 75. 9.1 287.0 5.5
06 01 01 1 17 -21.5 0.423 -9.000 -9.000 -999. 661. 315.0
0.56 1.00 0.60 3.10 82. 9.1 286.4 5.5
06 01 01 1 18 -33.6 0.332 -9.000 -9.000 -999. 464. 97.1
0.56 1.00 1.00 2.70 101. 9.1 286.4 5.5
06 01 01 1 19 -30.9 0.412 -9.000 -9.000 -999. 634. 201.9
0.56 1.00 1.00 3.10 97. 9.1 285.9 5.5
06 01 01 1 20 -34.9 0.630 -9.000 -9.000 -999. 1200. 640.4
0.56 1.00 1.00 4.50 92. 9.1 284.9 5.5
06 01 01 1 21 -47.1 0.624 -9.000 -9.000 -999. 1183. 460.9
0.56 1.00 1.00 4.50 88. 9.1 284.2 5.5
06 01 01 1 22 -62.8 0.616 -9.000 -9.000 -999. 1160. 332.6
0.56 1.00 1.00 4.50 91. 9.1 284.9 5.5
06 01 01 1 23 -61.4 0.816 -9.000 -9.000 -999. 1765. 791.1
0.56 1.00 1.00 5.80 82. 9.1 285.4 5.5
06 01 01 1 24 -45.3 0.820 -9.000 -9.000 -999. 1783. 1090.2
0.56 1.00 1.00 5.80 84. 9.1 285.9 5.5

```

```

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

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

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**MODELOPTS: RegDFAULT CONC ELEV ARM URBAN

*** THE 1ST-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION
VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):
L0000820 , L0000821 , L0000822 , L0000823 ,
L0000824 ,
L0000825 , L0000826 , L0000827 ,
L0000828 , L0000829 , L0000830 , L0000831 ,
L0000832 ,
L0000833 , L0000834 , L0000835 ,
L0000836 , L0000837 , L0000838 , L0000839 ,
L0000840 ,
L0000841 , L0000842 , L0000843 ,
L0000844 , L0000845 , L0000846 ,
L0000847 , . . .

*** DISCRETE

CARTESIAN RECEPTOR POINTS ***

MICROGRAMS/M**3 ** CONC OF NO2 IN

X-COORD (M) Y-COORD (M) CONC
X-COORD (M) Y-COORD (M) CONC
-----
384981.56 3774937.12 23.69570
384999.56 3774937.12 22.06980
385017.56 3774937.12 20.63179
384927.56 3774950.12 31.35524
384945.56 3774950.12 28.68890
384963.56 3774950.12 26.42612
384981.56 3774950.12 24.47586
384999.56 3774950.12 22.77298
385017.56 3774950.12 21.26966
384873.56 3774963.12 45.72985
384891.56 3774963.12 40.28442
384909.56 3774963.12 36.03415
384927.56 3774963.12 32.60697
384945.56 3774963.12 29.77188
384963.56 3774963.12 27.37832
384981.56 3774963.12 25.32264
384999.56 3774963.12 23.53314
385017.56 3774963.12 21.95680

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384837.56 3774976.12 69.14708
384855.56 3774976.12 56.70386
384873.56 3774976.12 48.37643
384891.56 3774976.12 42.33078
384909.56 3774976.12 37.69617
384927.56 3774976.12 34.00324
384945.56 3774976.12 30.97305
384963.56 3774976.12 28.42881
384981.56 3774976.12 26.25388
384999.56 3774976.12 24.36637
385017.56 3774976.12 22.70794
384837.56 3774989.12 77.45281
384855.56 3774989.12 61.23434
384873.56 3774989.12 51.47281
384891.56 3774989.12 44.67171
384909.56 3774989.12 39.57189
384927.56 3774989.12 35.56324
384945.56 3774989.12 32.30392
384963.56 3774989.12 29.58615
384981.56 3774989.12 27.27416
384999.56 3774989.12 25.27478
385017.56 3774989.12 23.52319
384855.56 3775002.12 66.85952
384873.56 3775002.12 55.12480
384891.56 3775002.12 47.36964
384909.56 3775002.12 41.70249
384927.56 3775002.12 37.31725
384945.56 3775002.12 33.78930
384963.56 3775002.12 30.86915
384981.56 3775002.12 28.39763
384999.56 3775002.12 26.27010
385017.56 3775002.12 24.41213
385035.56 3775002.12 22.77146
384855.56 3775015.12 74.09798
384873.56 3775015.12 50.51338
384891.56 3775015.12 44.14559
384909.56 3775015.12 39.30679
384927.56 3775015.12 35.45885
384945.56 3775015.12 32.29994
384963.56 3775015.12 29.64265
384981.56 3775015.12 27.36615
384999.56 3775015.12 25.38624
385017.56 3775015.12 23.64316
384873.56 3775028.12 64.89253
384891.56 3775028.12 54.23519
384909.56 3775028.12 46.98165
384927.56 3775028.12 41.58500
384945.56 3775028.12 37.35187
384963.56 3775028.12 33.90831
384981.56 3775028.12 31.03218
384999.56 3775028.12 28.58127

```

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385017.56 3775028.12 26.45935  
385035.56 3775028.12 24.59840  
384891.56 3775041.12 58.73762  
384909.56 3775041.12 50.32311  
384927.56 3775041.12 44.22795  
384945.56 3775041.12 39.52067  
384963.56 3775041.12 35.73224  
384981.56 3775041.12 32.59352  
384999.56 3775041.12 29.93665  
385017.56 3775041.12 27.64830

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PAGE 12  
\*\*MODELOPTs: RegDFAULT CONC ELEV ARM URBAN  
\*\*\* THE 1ST-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION  
VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S):  
L0000820 , L0000821 , L0000822 , L0000823 ,  
L0000824 , L0000825 , L0000826 , L0000827 ,  
L0000828 , L0000829 , L0000830 , L0000831 ,  
L0000832 , L0000833 , L0000834 , L0000835 ,  
L0000836 , L0000837 , L0000838 , L0000839 ,  
L0000840 , L0000841 , L0000842 , L0000843 ,  
L0000844 , L0000845 , L0000846 ,  
L0000847 , . . . ,

\*\*\* DISCRETE  
CARTESIAN RECEPTOR POINTS \*\*\*  
\*\* CONC OF NO2 IN  
\*\*  
MICROGRAMS/M\*\*3  
X-COORD (M) Y-COORD (M) CONC  
X-COORD (M) Y-COORD (M) CONC  
-----  
385035.56 3775041.12 25.65098  
384927.56 3775054.12 47.33936  
384945.56 3775054.12 42.03528  
384963.56 3775054.12 37.82158  
384981.56 3775054.12 34.36329  
384999.56 3775054.12 31.45868  
385017.56 3775054.12 28.97373  
385035.56 3775054.12 26.81626  
384945.56 3775067.12 45.03661  
384963.56 3775067.12 40.27998  
384981.56 3775067.12 36.42397  
384999.56 3775067.12 33.21565  
385017.56 3775067.12 30.49276  
385035.56 3775067.12 28.14162  
384981.56 3775080.12 38.80974  
384999.56 3775080.12 35.22315  
385017.56 3775080.12 32.21024  
385035.56 3775080.12 29.62770

384999.56 3775093.12 37.53920  
385017.56 3775093.12 34.16757  
385035.56 3775093.12 31.30493  
385035.56 3775106.12 33.21364

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02/21/17  
\*\*\* AERMET - VERSION 14134 \*\*\*  
01:23:39

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\*\*MODELOPTs: RegDFAULT CONC ELEV ARM URBAN  
\*\*\* THE SUMMARY OF MAXIMUM 1ST-HIGHEST  
MAX DAILY 1-HR RESULTS AVERAGED OVER 5 YEARS \*\*\*  
\*\* CONC OF NO2 IN  
\*\*  
MICROGRAMS/M\*\*3  
NETWORK  
GROUP ID AVERAGE CONC  
RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID  
-----  
ALL 1ST HIGHEST VALUE IS 77.45281 AT ( 384837.56,  
3774989.12, 91.00, 91.00, 0.00) DC  
2ND HIGHEST VALUE IS 74.09798 AT ( 384855.56,  
3775015.12, 91.00, 91.00, 0.00) DC  
3RD HIGHEST VALUE IS 69.14708 AT ( 384837.56,  
3774976.12, 91.00, 91.00, 0.00) DC  
4TH HIGHEST VALUE IS 66.85952 AT ( 384855.56,  
3775002.12, 91.00, 91.00, 0.00) DC  
5TH HIGHEST VALUE IS 64.89253 AT ( 384873.56,  
3775028.12, 91.09, 91.09, 0.00) DC  
6TH HIGHEST VALUE IS 61.23434 AT ( 384855.56,  
3774989.12, 91.00, 91.00, 0.00) DC  
7TH HIGHEST VALUE IS 59.50130 AT ( 384873.56,  
3775015.12, 91.07, 91.07, 0.00) DC  
8TH HIGHEST VALUE IS 58.73762 AT ( 384891.56,  
3775041.12, 91.30, 91.30, 0.00) DC  
9TH HIGHEST VALUE IS 56.70386 AT ( 384855.56,  
3774976.12, 91.00, 91.00, 0.00) DC  
10TH HIGHEST VALUE IS 55.12480 AT ( 384873.56,  
3775002.12, 91.05, 91.05, 0.00) DC

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

```

*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
\Dropbox\Pomeroy Environmental Services\AERMOD ***
02/21/17
*** AERMET - VERSION 14134 *** ***
*** 01:23:39

PAGE 14
**MODELOPTs: RegDFAULT CONC      ELEV      ARM      URBAN

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

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

A Total of          0 Fatal Error Message(s)
A Total of          2 Warning Message(s)
A Total of         756 Informational Message(s)

A Total of        43800 Hours Were Processed

A Total of           4 Calm Hours Identified

A Total of         752 Missing Hours Identified ( 1.72
Percent)

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

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

*****
*** AERMOD Finishes Successfully ***
*****

```

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**
*****
** AERMOD Input Produced by:
** AERMOD View Ver. 9.2.0
** Lakes Environmental Software Inc.
** Date: 2/20/2017
** File: C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD\Casitas HRA\CO 1HR\CO 1HR.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD
MODELOPT DEFAULT CONC
AVERTIME 1
URBANOPT 9862049
POLLUTID CO
RUNORNOT RUN
ERRORFIL "CO 1HR.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Glendale Fwy
** PREFIX
** Length of Side = 39.00
** Configuration = Adjacent
** Emission Rate = 6.04
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 8
** 385251.397, 3775445.306, 109.99, 0.00, 18.14
** 384940.062, 3775201.653, 96.19, 0.00, 18.14

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1

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** 384851.110, 3775122.369, 91.17, 0.00, 18.14
** 384808.567, 3775062.423, 91.08, 0.00, 18.14
** 384762.157, 3774973.470, 91.05, 0.00, 18.14
** 384738.952, 3774880.650, 92.94, 0.00, 18.14
** 384731.217, 3774807.167, 94.35, 0.00, 18.14
** 384731.217, 3774569.315, 98.20, 0.00, 18.14
-----
LOCATION L0000365 VOLUME 385236.040 3775433.288 110.00
LOCATION L0000366 VOLUME 385205.328 3775409.252 109.11
LOCATION L0000367 VOLUME 385174.615 3775385.216 108.17
LOCATION L0000368 VOLUME 385143.902 3775361.180 106.85
LOCATION L0000369 VOLUME 385113.190 3775337.144 105.53
LOCATION L0000370 VOLUME 385082.477 3775313.108 104.37
LOCATION L0000371 VOLUME 385051.764 3775289.072 103.22
LOCATION L0000372 VOLUME 385021.052 3775265.036 101.85
LOCATION L0000373 VOLUME 384990.339 3775241.000 100.27
LOCATION L0000374 VOLUME 384959.626 3775216.964 98.73
LOCATION L0000375 VOLUME 384929.494 3775192.233 97.09
LOCATION L0000376 VOLUME 384900.380 3775166.284 95.49
LOCATION L0000377 VOLUME 384871.266 3775140.334 93.88
LOCATION L0000378 VOLUME 384844.165 3775112.583 92.99
LOCATION L0000379 VOLUME 384821.594 3775080.779 91.93
LOCATION L0000380 VOLUME 384800.939 3775047.802 91.00
LOCATION L0000381 VOLUME 384782.899 3775013.225 91.06
LOCATION L0000382 VOLUME 384764.858 3774978.648 91.08
LOCATION L0000383 VOLUME 384754.115 3774941.361 91.36
LOCATION L0000384 VOLUME 384744.656 3774903.465 92.02
LOCATION L0000385 VOLUME 384737.331 3774865.252 92.76
LOCATION L0000386 VOLUME 384733.248 3774826.467 93.51
LOCATION L0000387 VOLUME 384731.217 3774787.573 94.25
LOCATION L0000388 VOLUME 384731.217 3774748.573 94.82
LOCATION L0000389 VOLUME 384731.217 3774709.573 95.37
LOCATION L0000390 VOLUME 384731.217 3774670.573 96.05
LOCATION L0000391 VOLUME 384731.217 3774631.573 96.89
LOCATION L0000392 VOLUME 384731.217 3774592.573 97.73
** End of LINE VOLUME Source ID = SLINE1
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Fletcher Ramp
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 0.232
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 13
** 384495.216, 3774987.675, 99.50, 0.00, 4.19
** 384523.422, 3774990.239, 98.24, 0.00, 4.19

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2

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** 384609.962, 3774990.239, 94.68, 0.00, 4.19
** 384701.631, 3774985.111, 91.27, 0.00, 4.19
** 384747.145, 3774979.982, 91.29, 0.00, 4.19
** 384788.172, 3774978.059, 91.02, 0.00, 4.19
** 384807.403, 3774985.111, 91.05, 0.00, 4.19
** 384823.429, 3774999.214, 91.07, 0.00, 4.19
** 384845.865, 3775039.599, 91.00, 0.00, 4.19
** 384875.448, 3775089.231, 91.12, 0.00, 4.19
** 384893.975, 3775114.243, 91.31, 0.00, 4.19
** 384924.545, 3775150.371, 95.25, 0.00, 4.19
** 384959.747, 3775182.793, 96.84, 0.00, 4.19
-----
LOCATION L0000393 VOLUME 384499.698 3774988.082 100.42
LOCATION L0000394 VOLUME 384508.661 3774988.897 100.08
LOCATION L0000395 VOLUME 384517.624 3774989.712 99.74
LOCATION L0000396 VOLUME 384526.600 3774990.239 99.40
LOCATION L0000397 VOLUME 384535.600 3774990.239 99.05
LOCATION L0000398 VOLUME 384544.600 3774990.239 98.70
LOCATION L0000399 VOLUME 384553.600 3774990.239 98.35
LOCATION L0000400 VOLUME 384562.600 3774990.239 97.94
LOCATION L0000401 VOLUME 384571.600 3774990.239 97.50
LOCATION L0000402 VOLUME 384580.600 3774990.239 97.06
LOCATION L0000403 VOLUME 384589.600 3774990.239 96.62
LOCATION L0000404 VOLUME 384598.600 3774990.239 96.19
LOCATION L0000405 VOLUME 384607.600 3774990.239 95.75
LOCATION L0000406 VOLUME 384616.590 3774989.868 95.31
LOCATION L0000407 VOLUME 384625.576 3774989.366 94.86
LOCATION L0000408 VOLUME 384634.562 3774988.863 94.43
LOCATION L0000409 VOLUME 384643.547 3774988.360 94.07
LOCATION L0000410 VOLUME 384652.533 3774987.857 93.71
LOCATION L0000411 VOLUME 384661.519 3774987.355 93.35
LOCATION L0000412 VOLUME 384670.505 3774986.852 92.99
LOCATION L0000413 VOLUME 384679.491 3774986.349 92.63
LOCATION L0000414 VOLUME 384688.477 3774985.847 92.27
LOCATION L0000415 VOLUME 384697.463 3774985.344 91.91
LOCATION L0000416 VOLUME 384706.426 3774984.841 91.55
LOCATION L0000417 VOLUME 384715.370 3774984.338 91.19
LOCATION L0000418 VOLUME 384724.313 3774983.835 90.83
LOCATION L0000419 VOLUME 384733.257 3774983.332 90.47
LOCATION L0000420 VOLUME 384742.200 3774982.829 90.11
LOCATION L0000421 VOLUME 384751.164 3774982.326 89.75
LOCATION L0000422 VOLUME 384760.154 3774981.823 89.39
LOCATION L0000423 VOLUME 384769.145 3774981.320 89.03
LOCATION L0000424 VOLUME 384778.135 3774980.817 88.67
LOCATION L0000425 VOLUME 384787.125 3774980.314 88.31
LOCATION L0000426 VOLUME 384795.638 3774980.314 88.31
LOCATION L0000427 VOLUME 384804.087 3774980.314 88.31
LOCATION L0000428 VOLUME 384811.508 3774980.314 88.31
LOCATION L0000429 VOLUME 384818.265 3774980.314 88.31
LOCATION L0000430 VOLUME 384824.459 3775001.068 91.00
LOCATION L0000431 VOLUME 384828.830 3775008.935 91.00

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3

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LOCATION L0000432 VOLUME 384833.201 3775016.803 91.00
LOCATION L0000433 VOLUME 384837.571 3775024.670 91.00
LOCATION L0000434 VOLUME 384841.942 3775032.537 91.00
LOCATION L0000435 VOLUME 384846.337 3775040.391 91.00
LOCATION L0000436 VOLUME 384850.945 3775048.122 91.00
LOCATION L0000437 VOLUME 384855.553 3775055.853 91.00
LOCATION L0000438 VOLUME 384860.161 3775063.583 91.25
LOCATION L0000439 VOLUME 384864.769 3775071.314 91.49
LOCATION L0000440 VOLUME 384869.377 3775079.045 91.82
LOCATION L0000441 VOLUME 384873.985 3775086.776 92.16
LOCATION L0000442 VOLUME 384879.104 3775094.167 92.50
LOCATION L0000443 VOLUME 384884.461 3775101.399 92.85
LOCATION L0000444 VOLUME 384889.818 3775108.631 93.22
LOCATION L0000445 VOLUME 384895.277 3775115.782 93.59
LOCATION L0000446 VOLUME 384901.991 3775122.652 93.98
LOCATION L0000447 VOLUME 384906.904 3775129.523 94.37
LOCATION L0000448 VOLUME 384912.710 3775136.393 94.78
LOCATION L0000449 VOLUME 384918.531 3775143.264 95.19
LOCATION L0000450 VOLUME 384924.345 3775150.134 95.60
LOCATION L0000451 VOLUME 384930.937 3775156.258 95.97
LOCATION L0000452 VOLUME 384937.557 3775162.355 96.34
LOCATION L0000453 VOLUME 384944.177 3775168.453 96.73
LOCATION L0000454 VOLUME 384950.797 3775174.550 97.16
LOCATION L0000455 VOLUME 384957.417 3775180.647 97.58
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
SRCPARAM L0000365 0.2157142857 0.00 18.14
0.70
SRCPARAM L0000366 0.2157142857 0.00 18.14
0.70
SRCPARAM L0000367 0.2157142857 0.00 18.14
0.70
SRCPARAM L0000368 0.2157142857 0.00 18.14
0.70
SRCPARAM L0000369 0.2157142857 0.00 18.14
0.70
SRCPARAM L0000370 0.2157142857 0.00 18.14
0.70
SRCPARAM L0000371 0.2157142857 0.00 18.14
0.70
SRCPARAM L0000372 0.2157142857 0.00 18.14
0.70
SRCPARAM L0000373 0.2157142857 0.00 18.14
0.70
SRCPARAM L0000374 0.2157142857 0.00 18.14
0.70
SRCPARAM L0000375 0.2157142857 0.00 18.14
0.70
SRCPARAM L0000376 0.2157142857 0.00 18.14
0.70
SRCPARAM L0000377 0.2157142857 0.00 18.14

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4

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0.70 SRCPARAM L0000378 0.2157142857 0.00 18.14
0.70 SRCPARAM L0000379 0.2157142857 0.00 18.14
0.70 SRCPARAM L0000380 0.2157142857 0.00 18.14
0.70 SRCPARAM L0000381 0.2157142857 0.00 18.14
0.70 SRCPARAM L0000382 0.2157142857 0.00 18.14
0.70 SRCPARAM L0000383 0.2157142857 0.00 18.14
0.70 SRCPARAM L0000384 0.2157142857 0.00 18.14
0.70 SRCPARAM L0000385 0.2157142857 0.00 18.14
0.70 SRCPARAM L0000386 0.2157142857 0.00 18.14
0.70 SRCPARAM L0000387 0.2157142857 0.00 18.14
0.70 SRCPARAM L0000388 0.2157142857 0.00 18.14
0.70 SRCPARAM L0000389 0.2157142857 0.00 18.14
0.70 SRCPARAM L0000390 0.2157142857 0.00 18.14
0.70 SRCPARAM L0000391 0.2157142857 0.00 18.14
0.70 SRCPARAM L0000392 0.2157142857 0.00 18.14
0.70
** -----
** LINE VOLUME Source ID = SLINE2
SRCPARAM L0000393 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000394 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000395 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000396 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000397 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000398 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000399 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000400 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000401 0.0036825397 0.00 4.19
0.70

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5

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SRCPARAM L0000402 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000403 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000404 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000405 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000406 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000407 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000408 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000409 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000410 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000411 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000412 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000413 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000414 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000415 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000416 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000417 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000418 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000419 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000420 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000421 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000422 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000423 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000424 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000425 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000426 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000427 0.0036825397 0.00 4.19
0.70

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SRCPARAM L0000428 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000429 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000430 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000431 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000432 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000433 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000434 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000435 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000436 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000437 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000438 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000439 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000440 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000441 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000442 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000443 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000444 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000445 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000446 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000447 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000448 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000449 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000450 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000451 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000452 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000453 0.0036825397 0.00 4.19
0.70

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SRCPARAM L0000454 0.0036825397 0.00 4.19
0.70 SRCPARAM L0000455 0.0036825397 0.00 4.19
0.70
** -----
URBANSRC ALL
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
RE STARTING
INCLUDED "CO 1HR.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
ME STARTING
SURFFILE ..\cela8.sfc
PROFFILE ..\cela8.PFL
SURFDATA 0 2006
UAIRDATA 3190 2006
SITEDATA 99999 2006
PROFBASE 87.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST "CO 1HR.AD\01H1GALL.PLT" 31
SUMMFILE "CO 1HR.sum"
OU FINISHED
*****
*** SETUP Finishes Successfully ***
*****

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*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
\Dropbox\Pomeroy Environmental Services\AERMOD ***
02/20/17
*** AERMET - VERSION 14134 *** ***
22:37:45

PAGE 1
**MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

**Model Uses URBAN Dispersion Algorithm for the SBL for 91
Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length =
1.000 m

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

**Other Options Specified:
TEMP_Sub - Meteorological data includes TEMP
substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: CO

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

**This Run Includes: 91 Source(s); 1 Source Group(s);
and 102 Receptor(s)

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

```

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and: 91 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 OPENPIT source(s)

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```

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

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by
Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for
Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked
Values (SUMMFILE Keyword)

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =
87.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = ; Emission Rate Unit
GRAMS/SEC
Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

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

**Detailed Error/Message File: CO 1HR.err
**File for Summary of Results: CO 1HR.sum

```

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*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
\Dropbox\Pomeroy Environmental Services\AERMOD ***
02/20/17
*** AERMET - VERSION 14134 *** ***
22:37:45

PAGE 2
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** VOLUME
SOURCE DATA ***

RELEASE INIT. INIT. URBAN EMISSION RATE BASE
SOURCE PART. (GRAMS/SEC) X ELEV.
HEIGHT SY SZ SOURCE SCALAR VARY Y
ID CATS SOURCE (METERS) (METERS)
(METERS) (METERS) (METERS) BY
- - - - -
L0000365 0 0.21571E+00 385236.0 3775433.3 110.0
0.00 18.14 0.70 YES
L0000366 0 0.21571E+00 385205.3 3775409.3 109.1
0.00 18.14 0.70 YES
L0000367 0 0.21571E+00 385174.6 3775385.2 108.2
0.00 18.14 0.70 YES
L0000368 0 0.21571E+00 385143.9 3775361.2 106.8
0.00 18.14 0.70 YES
L0000369 0 0.21571E+00 385113.2 3775337.1 105.5
0.00 18.14 0.70 YES
L0000370 0 0.21571E+00 385082.5 3775313.1 104.4
0.00 18.14 0.70 YES
L0000371 0 0.21571E+00 385051.8 3775289.1 103.2
0.00 18.14 0.70 YES
L0000372 0 0.21571E+00 385021.1 3775265.0 101.8
0.00 18.14 0.70 YES
L0000373 0 0.21571E+00 384990.3 3775241.0 100.3
0.00 18.14 0.70 YES
L0000374 0 0.21571E+00 384959.6 3775217.0 98.7
0.00 18.14 0.70 YES
L0000375 0 0.21571E+00 384929.5 3775192.2 97.1
0.00 18.14 0.70 YES
L0000376 0 0.21571E+00 384900.4 3775166.3 95.5
0.00 18.14 0.70 YES
L0000377 0 0.21571E+00 384871.3 3775140.3 93.9
0.00 18.14 0.70 YES
L0000378 0 0.21571E+00 384844.2 3775112.6 93.0
0.00 18.14 0.70 YES
L0000379 0 0.21571E+00 384821.6 3775080.8 91.9
0.00 18.14 0.70 YES

```

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|            |      |             |          |           |       |
|------------|------|-------------|----------|-----------|-------|
| L0000380   | 0    | 0.21571E+00 | 384800.9 | 3775047.8 | 91.0  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000381   | 0    | 0.21571E+00 | 384782.9 | 3775013.2 | 91.1  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000382   | 0    | 0.21571E+00 | 384764.9 | 3774978.6 | 91.1  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000383   | 0    | 0.21571E+00 | 384754.1 | 3774941.3 | 91.4  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000384   | 0    | 0.21571E+00 | 384744.7 | 3774903.5 | 92.0  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000385   | 0    | 0.21571E+00 | 384737.3 | 3774865.3 | 92.8  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000386   | 0    | 0.21571E+00 | 384733.2 | 3774826.5 | 93.5  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000387   | 0    | 0.21571E+00 | 384731.2 | 3774787.6 | 94.2  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000388   | 0    | 0.21571E+00 | 384731.2 | 3774748.6 | 94.8  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000389   | 0    | 0.21571E+00 | 384731.2 | 3774709.6 | 95.4  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000390   | 0    | 0.21571E+00 | 384731.2 | 3774670.6 | 96.0  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000391   | 0    | 0.21571E+00 | 384731.2 | 3774631.6 | 96.9  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000392   | 0    | 0.21571E+00 | 384731.2 | 3774592.6 | 97.7  |
| 0.00 18.14 | 0.70 | YES         |          |           |       |
| L0000393   | 0    | 0.36825E-02 | 384499.7 | 3774988.1 | 100.4 |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000394   | 0    | 0.36825E-02 | 384508.7 | 3774988.9 | 100.1 |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000395   | 0    | 0.36825E-02 | 384517.6 | 3774989.7 | 99.7  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000396   | 0    | 0.36825E-02 | 384526.6 | 3774990.2 | 99.4  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000397   | 0    | 0.36825E-02 | 384535.6 | 3774990.2 | 99.0  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000398   | 0    | 0.36825E-02 | 384544.6 | 3774990.2 | 98.7  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000399   | 0    | 0.36825E-02 | 384553.6 | 3774990.2 | 98.3  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000400   | 0    | 0.36825E-02 | 384562.6 | 3774990.2 | 97.9  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000401   | 0    | 0.36825E-02 | 384571.6 | 3774990.2 | 97.5  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000402   | 0    | 0.36825E-02 | 384580.6 | 3774990.2 | 97.1  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000403   | 0    | 0.36825E-02 | 384589.6 | 3774990.2 | 96.6  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |
| L0000404   | 0    | 0.36825E-02 | 384598.6 | 3774990.2 | 96.2  |
| 0.00 4.19  | 0.70 | YES         |          |           |       |

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

SOURCE DATA \*\*\* \*\*\* VOLUME

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>SZ<br>(METERS) | NUMBER<br>(GRAMS/SEC) | EMISSION<br>RATE<br>X<br>SCALAR VARY<br>BY | EMISSION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |      |
|-----------------------------------------------|-------------------------|----------------------------------|-----------------------|--------------------------------------------|-----------------------------------|---------------------------|------|
| L0000405                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384607.6                          | 3774990.2                 | 95.8 |
| L0000406                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384616.6                          | 3774989.9                 | 95.3 |
| L0000407                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384625.6                          | 3774989.4                 | 94.9 |
| L0000408                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384634.6                          | 3774988.9                 | 94.4 |
| L0000409                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384643.5                          | 3774988.4                 | 94.1 |
| L0000410                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384652.5                          | 3774987.9                 | 93.7 |
| L0000411                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384661.5                          | 3774987.4                 | 93.3 |
| L0000412                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384670.5                          | 3774986.9                 | 93.0 |
| L0000413                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384679.5                          | 3774986.3                 | 92.6 |
| L0000414                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384688.5                          | 3774985.8                 | 92.3 |
| L0000415                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384697.5                          | 3774985.3                 | 91.9 |
| L0000416                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384706.4                          | 3774984.6                 | 91.5 |
| L0000417                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384715.4                          | 3774983.6                 | 91.4 |
| L0000418                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384724.3                          | 3774982.6                 | 91.3 |
| L0000419                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384733.3                          | 3774981.5                 | 91.2 |

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|          |      |      |      |             |          |           |      |
|----------|------|------|------|-------------|----------|-----------|------|
| L0000420 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384742.2 | 3774980.5 | 91.2 |
| L0000421 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384751.2 | 3774979.8 | 91.1 |
| L0000422 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384760.2 | 3774979.4 | 91.1 |
| L0000423 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384769.1 | 3774979.0 | 91.1 |
| L0000424 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384778.1 | 3774978.5 | 91.0 |
| L0000425 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384787.1 | 3774978.1 | 91.0 |
| L0000426 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384795.6 | 3774980.8 | 91.0 |
| L0000427 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384804.1 | 3774983.9 | 91.0 |
| L0000428 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384811.5 | 3774988.7 | 91.0 |
| L0000429 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384818.3 | 3774994.7 | 91.0 |
| L0000430 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384824.5 | 3775001.1 | 91.0 |
| L0000431 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384828.8 | 3775008.9 | 91.0 |
| L0000432 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384833.2 | 3775016.8 | 91.0 |
| L0000433 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384837.6 | 3775024.7 | 91.0 |
| L0000434 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384841.9 | 3775032.5 | 91.0 |
| L0000435 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384846.3 | 3775040.4 | 91.0 |
| L0000436 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384850.9 | 3775048.1 | 91.0 |
| L0000437 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384855.6 | 3775055.9 | 91.0 |
| L0000438 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384860.2 | 3775063.6 | 91.2 |
| L0000439 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384864.8 | 3775071.3 | 91.5 |
| L0000440 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384869.4 | 3775079.0 | 91.8 |
| L0000441 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384874.0 | 3775086.8 | 92.2 |
| L0000442 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384879.1 | 3775094.2 | 92.5 |
| L0000443 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384884.5 | 3775101.4 | 92.8 |
| L0000444 | 0.00 | 4.19 | 0.00 | 0.36825E-02 | 384889.8 | 3775108.6 | 93.2 |

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

SOURCE DATA \*\*\* \*\*\* VOLUME

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>SZ<br>(METERS) | NUMBER<br>(GRAMS/SEC) | EMISSION<br>RATE<br>X<br>SCALAR VARY<br>BY | EMISSION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |      |
|-----------------------------------------------|-------------------------|----------------------------------|-----------------------|--------------------------------------------|-----------------------------------|---------------------------|------|
| L0000445                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384895.3                          | 3775115.8                 | 93.6 |
| L0000446                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384901.1                          | 3775122.7                 | 94.0 |
| L0000447                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384906.9                          | 3775129.5                 | 94.4 |
| L0000448                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384912.7                          | 3775136.4                 | 94.8 |
| L0000449                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384918.5                          | 3775143.3                 | 95.2 |
| L0000450                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384924.3                          | 3775150.1                 | 95.6 |
| L0000451                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384930.9                          | 3775156.3                 | 96.0 |
| L0000452                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384937.6                          | 3775162.4                 | 96.3 |
| L0000453                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384944.2                          | 3775168.5                 | 96.7 |
| L0000454                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384950.8                          | 3775174.5                 | 97.2 |
| L0000455                                      | 0.00                    | 4.19                             | 0.00                  | 0.36825E-02                                | 384957.4                          | 3775180.6                 | 97.6 |

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

DEFINING SOURCE GROUPS \*\*\* \*\*\* SOURCE IDs

| SRCGROUP ID | SOURCE                           |
|-------------|----------------------------------|
| ALL         |                                  |
| L0000368    | L0000365 , L0000366 , L0000367 , |
| L0000372    | L0000369 , L0000370 , L0000371 , |
| L0000376    | L0000373 , L0000374 , L0000375 , |
| L0000380    | L0000377 , L0000378 , L0000379 , |
| L0000384    | L0000381 , L0000382 , L0000383 , |
| L0000388    | L0000385 , L0000386 , L0000387 , |
| L0000392    | L0000389 , L0000390 , L0000391 , |
| L0000396    | L0000393 , L0000394 , L0000395 , |
| L0000400    | L0000397 , L0000398 , L0000399 , |
| L0000404    | L0000401 , L0000402 , L0000403 , |
| L0000408    | L0000405 , L0000406 , L0000407 , |
| L0000412    | L0000409 , L0000410 , L0000411 , |
| L0000416    | L0000413 , L0000414 , L0000415 , |
| L0000420    | L0000417 , L0000418 , L0000419 , |
| L0000424    | L0000421 , L0000422 , L0000423 , |
| L0000428    | L0000425 , L0000426 , L0000427 , |
| L0000429    | L0000429 , L0000430 , L0000431 , |

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L0000432 , L0000433 , L0000434 , L0000435 ,  
L0000436 ,  
  
L0000440 L0000437 , L0000438 , L0000439 ,  
L0000444 , L0000441 , L0000442 , L0000443 ,  
  
L0000448 L0000445 , L0000446 , L0000447 ,  
L0000452 , L0000449 , L0000450 , L0000451 ,  
  
L0000453 , L0000454 , L0000455 ,

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PAGE 6  
\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* SOURCE IDs DEFINED  
  
AS URBAN SOURCES \*\*\*  
  
URBAN ID URBAN POP SOURCE  
IDS -----  
---

9862049. L0000365 , L0000366 ,  
L0000367 , L0000368 , L0000369 , L0000370 ,  
L0000371 ,  
L0000372 ,  
  
L0000376 L0000373 , L0000374 , L0000375 ,  
L0000380 , L0000377 , L0000378 , L0000379 ,  
  
L0000384 L0000381 , L0000382 , L0000383 ,  
L0000388 , L0000385 , L0000386 , L0000387 ,  
  
L0000392 L0000389 , L0000390 , L0000391 ,  
L0000396 , L0000393 , L0000394 , L0000395 ,  
  
L0000400 L0000397 , L0000398 , L0000399 ,  
L0000404 , L0000401 , L0000402 , L0000403 ,  
  
L0000408 L0000405 , L0000406 , L0000407 ,  
L0000412 , L0000409 , L0000410 , L0000411 ,  
  
L0000416 L0000413 , L0000414 , L0000415 ,  
L0000420 , L0000417 , L0000418 , L0000419 ,  
  
L0000424 L0000421 , L0000422 , L0000423 ,  
L0000428 , L0000425 , L0000426 , L0000427 ,

L0000432 L0000429 , L0000430 , L0000431 ,  
L0000436 , L0000433 , L0000434 , L0000435 ,  
  
L0000440 L0000437 , L0000438 , L0000439 ,  
L0000444 , L0000441 , L0000442 , L0000443 ,  
  
L0000448 L0000445 , L0000446 , L0000447 ,  
L0000452 , L0000449 , L0000450 , L0000451 ,  
  
L0000453 , L0000454 , L0000455 ,

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PAGE 7  
\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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( 384909.6, 3774976.1, 91.0, 91.0, 0.0);  
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( 384945.6, 3774976.1, 91.1, 91.1, 0.0);  
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( 384855.6, 3774989.1, 91.0, 91.0, 0.0);  
( 384873.6, 3774989.1, 91.0, 91.0, 0.0);  
( 384891.6, 3774989.1, 91.1, 91.1, 0.0);  
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( 384927.6, 3774989.1, 91.2, 91.2, 0.0);  
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*** AERMET - VERSION 14134 *** ***
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**MODELOPTS:  RegDFAULT CONC      ELEV      URBAN

*** UP TO THE FIRST 24 HOURS

OF METEOROLOGICAL DATA ***

  Surface file:  ..\cela8.sfc
Met Version: 14134
  Profile file:  ..\cela8.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:      0      Upper air
station no.:      3190
Name: UNKNOWN
Year:      2006

First 24 hours of scalar data
YR MO DY JDY HR      H0      U*      W*      DT/DZ      ZICNV      ZIMCH      M-0      LEN
Z0  Bowen Albedo REF WS      WD      HT      REF TA      HT
-----
06 01 01 1 01 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 347. 9.1 286.4 5.5
06 01 01 1 02 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 81. 9.1 286.4 5.5
06 01 01 1 03 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 66. 9.1 286.4 5.5
06 01 01 1 04 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 23. 9.1 285.9 5.5
06 01 01 1 05 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 61. 9.1 285.4 5.5
06 01 01 1 06 -6.5 0.093 -9.000 -9.000 -999. 68. 11.2
0.56 1.00 1.00 1.30 83. 9.1 285.4 5.5
06 01 01 1 07 -11.6 0.210 -9.000 -9.000 -999. 232. 71.6
0.56 1.00 1.00 1.80 64. 9.1 285.4 5.5
06 01 01 1 08 -6.0 0.093 -9.000 -9.000 -999. 77. 12.0
0.56 1.00 0.55 1.30 46. 9.1 285.4 5.5
06 01 01 1 09 26.6 0.340 0.700 0.005 474. 476. -132.1
0.56 1.00 0.32 2.20 87. 9.1 286.4 5.5
06 01 01 1 10 21.0 0.284 0.736 0.005 681. 364. -97.2
0.56 1.00 0.24 1.80 76. 9.1 286.4 5.5
06 01 01 1 11 35.8 0.230 0.921 0.005 780. 266. -30.3
0.56 1.00 0.21 1.30 66. 9.1 287.5 5.5
06 01 01 1 12 14.9 0.331 0.694 0.008 804. 458. -218.6
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0.56 1.00 0.20 2.20 79. 9.1 287.5 5.5
06 01 01 1 13 26.4 0.460 0.854 0.012 844. 749. -330.2
0.56 1.00 0.20 3.10 76. 9.1 287.5 5.5
06 01 01 1 14 39.0 0.466 0.995 0.015 902. 763. -231.5
0.56 1.00 0.21 3.10 80. 9.1 288.1 5.5
06 01 01 1 15 11.4 0.328 0.664 0.015 917. 466. -277.7
0.56 1.00 0.25 2.20 85. 9.1 287.5 5.5
06 01 01 1 16 0.1 0.445 0.137 0.015 917. 712. -8888.0
0.56 1.00 0.33 3.10 75. 9.1 287.0 5.5
06 01 01 1 17 -21.5 0.423 -9.000 -9.000 -999. 661. 315.0
0.56 1.00 0.60 3.10 82. 9.1 286.4 5.5
06 01 01 1 18 -33.6 0.332 -9.000 -9.000 -999. 464. 97.1
0.56 1.00 1.00 2.70 101. 9.1 286.4 5.5
06 01 01 1 19 -30.9 0.412 -9.000 -9.000 -999. 634. 201.9
0.56 1.00 1.00 3.10 97. 9.1 285.9 5.5
06 01 01 1 20 -34.9 0.630 -9.000 -9.000 -999. 1200. 640.4
0.56 1.00 1.00 4.50 92. 9.1 284.9 5.5
06 01 01 1 21 -47.1 0.624 -9.000 -9.000 -999. 1183. 460.9
0.56 1.00 1.00 4.50 88. 9.1 284.2 5.5
06 01 01 1 22 -62.8 0.616 -9.000 -9.000 -999. 1160. 332.6
0.56 1.00 1.00 4.50 91. 9.1 284.9 5.5
06 01 01 1 23 -61.4 0.816 -9.000 -9.000 -999. 1765. 791.1
0.56 1.00 1.00 5.80 82. 9.1 285.4 5.5
06 01 01 1 24 -45.3 0.820 -9.000 -9.000 -999. 1783. 1090.2
0.56 1.00 1.00 5.80 84. 9.1 285.9 5.5
```

```
First hour of profile data
YR MO DY HR HEIGHT F      WDIR      WSPD      AMB      TMP      sigmaA      sigmaW
sigmaM
06 01 01 01 5.5 0 -999. -99.00 286.5
99.0 -99.00 -99.00
06 01 01 01 9.1 1 347. 0.90 -999.0
99.0 -99.00 -99.00

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

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*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
\Dropbox\Pomeroy Environmental Services\AERMOD ***
02/20/17
*** AERMET - VERSION 14134 *** ***
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PAGE 11
**MODELOPTS:  RegDFAULT CONC      ELEV      URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):
L0000365 , L0000366 , L0000367 , L0000368 ,
L0000369 ,
L0000370 , L0000371 , L0000372 ,
L0000373 , L0000374 , L0000375 , L0000376 ,
L0000377 ,
L0000378 , L0000379 , L0000380 ,
L0000381 , L0000382 , L0000383 , L0000384 ,
L0000385 ,
L0000386 , L0000387 , L0000388 ,
L0000389 , L0000390 , L0000391 ,
L0000392 , . . .

*** DISCRETE

CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) Y-COORD (M) CONC (YYMDDHH)
X-COORD (M) Y-COORD (M) CONC (YYMDDHH)
-----
384981.56 3774937.12 192.51372 (06090401)
384999.56 3774937.12 179.30305 (06090401)
385017.56 3774937.12 167.61915 (06090401)
384927.56 3774950.12 254.74730 (06090401)
384945.56 3774950.12 233.08271 (06090401)
384963.56 3774950.12 214.69717 (06090401)
384981.56 3774950.12 198.85094 (06090401)
384999.56 3774950.12 185.01481 (06090401)
385017.56 3774950.12 172.80018 (06090401)
384873.56 3774963.12 371.54261 (06090401)
384891.56 3774963.12 327.29722 (06090401)
384909.56 3774963.12 292.76267 (06090401)
384927.56 3774963.12 264.91600 (06090401)
384945.56 3774963.12 241.88019 (06090401)
384963.56 3774963.12 222.43199 (06090401)
384981.56 3774963.12 205.72921 (06090401)
384999.56 3774963.12 191.18928 (06090506)
```

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385017.56 3774963.12 178.38144 (06090401)
384837.56 3774976.12 561.81066 (06090401)
384855.56 3774976.12 460.70722 (06090401)
384873.56 3774976.12 393.04497 (06090401)
384891.56 3774976.12 343.92268 (06090401)
384909.56 3774976.12 306.26532 (06090401)
384927.56 3774976.12 276.25945 (06090401)
384945.56 3774976.12 251.63856 (06090401)
384963.56 3774976.12 230.96610 (06090401)
384981.56 3774976.12 213.29452 (06090401)
384999.56 3774976.12 197.95840 (06090401)
385017.56 3774976.12 184.48359 (06090401)
384837.56 3774989.12 629.29347 (06090401)
384855.56 3774989.12 497.51614 (06090401)
384873.56 3774989.12 418.20152 (06090401)
384891.56 3774989.12 362.94105 (06090401)
384909.56 3774989.12 321.50386 (06090401)
384927.56 3774989.12 288.93282 (06090401)
384945.56 3774989.12 262.45025 (06090401)
384963.56 3774989.12 240.36798 (06090401)
384981.56 3774989.12 221.58300 (06090401)
384999.56 3774989.12 205.33800 (06090401)
385017.56 3774989.12 191.10648 (06090401)
384855.56 3775002.12 543.21871 (06090401)
384873.56 3775002.12 447.87153 (06090401)
384891.56 3775002.12 384.85935 (06090401)
384909.56 3775002.12 338.81276 (06090401)
384927.56 3775002.12 303.18202 (06090401)
384945.56 3775002.12 274.51699 (06090401)
384963.56 3775002.12 250.79064 (06090401)
384981.56 3775002.12 230.70955 (06090401)
384999.56 3775002.12 213.42357 (06090401)
385017.56 3775002.12 198.32789 (06090401)
385035.56 3775002.12 184.99788 (06090401)
384855.56 3775015.12 602.02756 (06090401)
384873.56 3775015.12 483.42730 (06090401)
384891.56 3775015.12 410.39908 (06090401)
384909.56 3775015.12 358.65999 (06090401)
384927.56 3775015.12 319.34437 (06090401)
384945.56 3775015.12 288.07960 (06090401)
384963.56 3775015.12 262.41357 (06090401)
384981.56 3775015.12 240.82332 (06090401)
384999.56 3775015.12 222.32715 (06090401)
385017.56 3775015.12 206.24094 (06090401)
385035.56 3775015.12 192.07910 (06090401)
384873.56 3775028.12 527.22602 (06090401)
384891.56 3775028.12 440.63447 (06090401)
384909.56 3775028.12 381.69912 (06090401)
384927.56 3775028.12 337.85124 (06090401)
384945.56 3775028.12 303.45730 (06090401)
384963.56 3775028.12 275.47881 (06090401)
384981.56 3775028.12 252.11081 (06090401)
```

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384999.56 3775028.12 232.19788 (06090401)  
385017.56 3775028.12 214.95813 (06090506)  
385035.56 3775028.12 199.83879 (06090401)  
384891.56 3775041.12 477.21050 (06090401)  
384909.56 3775041.12 408.84317 (06090401)  
384927.56 3775041.12 359.32066 (06090401)  
384945.56 3775041.12 321.07480 (06090401)  
384963.56 3775041.12 290.29476 (06090401)  
384981.56 3775041.12 264.79366 (06090401)  
384999.56 3775041.12 243.20784 (06090401)  
385017.56 3775041.12 224.61610 (06090401)

\*\*\* AERMOD - VERSION 15181 \*\*\* \*\* C:\Users\Brett Pomeroy  
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\*\*\* AERMET - VERSION 14134 \*\*\* \*\*  
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PAGE 12  
\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN  
\*\*\* THE 1ST HIGHEST 1-HR AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S):  
L0000365 , L0000366 , L0000367 , L0000368 ,  
L0000369 , L0000370 , L0000371 , L0000372 ,  
L0000373 , L0000374 , L0000375 , L0000376 ,  
L0000377 , L0000378 , L0000379 , L0000380 ,  
L0000381 , L0000382 , L0000383 , L0000384 ,  
L0000385 , L0000386 , L0000387 , L0000388 ,  
L0000389 , L0000390 , L0000391 ,  
L0000392 , . . . ,

\*\*\* DISCRETE  
CARTESIAN RECEPTOR POINTS \*\*\*  
\*\* CONC OF CO IN  
\*\*  
MICROGRAMS/M\*\*3  
X-COORD (M) Y-COORD (M) CONC CONC (YYMMDDHH)  
X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)  
- - - - -  
-  
385035.56 3775041.12 208.38919 (06090401)  
384927.56 3775054.12 384.59476 (06090401)  
384945.56 3775054.12 341.50077 (06090401)  
384963.56 3775054.12 307.26624 (06090401)  
384981.56 3775054.12 279.16929 (06090401)  
384999.56 3775054.12 255.57106 (06090401)  
385017.56 3775054.12 235.38259 (06090401)  
385035.56 3775054.12 217.85486 (06090401)  
384945.56 3775067.12 365.88555 (06090401)  
384963.56 3775067.12 327.24031 (06090401)  
384981.56 3775067.12 295.91264 (06090401)  
384999.56 3775067.12 269.84723 (06090401)  
385017.56 3775067.12 247.72586 (06090401)  
385035.56 3775067.12 228.62447 (06090401)  
384981.56 3775080.12 315.29724 (06090401)  
384999.56 3775080.12 286.15883 (06090401)  
385017.56 3775080.12 261.68143 (06090401)

385035.56 3775080.12 240.69989 (06090401)  
384999.56 3775093.12 304.97716 (06090401)  
385017.56 3775093.12 277.58557 (06090401)  
385035.56 3775093.12 254.32819 (06090401)  
385035.56 3775106.12 269.83994 (06090401)

\*\*\* AERMOD - VERSION 15181 \*\*\* \*\* C:\Users\Brett Pomeroy  
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02/20/17  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*  
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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN  
\*\*\* THE SUMMARY  
OF HIGHEST 1-HR RESULTS \*\*\*  
\*\* CONC OF CO IN  
\*\*  
MICROGRAMS/M\*\*3  
DATE  
NETWORK  
GROUP ID AVERAGE CONC (YYMMDDHH)  
RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID  
- - - - -  
-  
ALL HIGH 1ST HIGH VALUE IS 629.29347 ON 06090401: AT  
( 384837.56, 3774989.12, 91.00, 91.00, 0.00) DC  
\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Users\Brett Pomeroy  
\Dropbox\Pomeroy Environmental Services\AERMOD \*\*\*  
02/20/17  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
22:37:45

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\*\*MODELOPTs: RegDEFAULT CONC ELEV URBAN

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 756 Informational Message(s)

A Total of 43800 Hours Were Processed

A Total of 4 Calm Hours Identified

A Total of 752 Missing Hours Identified ( 1.72  
Percent)

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

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

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

**
*****
** AERMOD Input Produced by:
** AERMOD View Ver. 9.2.0
** Lakes Environmental Software Inc.
** Date: 2/20/2017
** File: C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD\Casitas HRA\CO 8 HR\CO 8 HR.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD
MODELOPT DEFAULT CONC
AVERTIME 8
URBANOPT 9862049
POLLUTID CO
RUNORNOT RUN
ERRORFIL "CO 8 HR.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Glendale Fwy
** PREFIX
** Length of Side = 39.00
** Configuration = Adjacent
** Emission Rate = 1.09
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 8
** 385251.397, 3775445.306, 109.99, 0.00, 18.14
** 384940.062, 3775201.653, 96.19, 0.00, 18.14

```

1

```

** 384851.110, 3775122.369, 91.17, 0.00, 18.14
** 384808.567, 3775062.423, 91.08, 0.00, 18.14
** 384762.157, 3774973.470, 91.05, 0.00, 18.14
** 384738.952, 3774880.650, 92.94, 0.00, 18.14
** 384731.217, 3774807.167, 94.35, 0.00, 18.14
** 384731.217, 3774569.315, 98.20, 0.00, 18.14
-----
LOCATION L0000456 VOLUME 385236.040 3775433.288 110.00
LOCATION L0000457 VOLUME 385205.328 3775409.252 109.11
LOCATION L0000458 VOLUME 385174.615 3775385.216 108.17
LOCATION L0000459 VOLUME 385143.902 3775361.180 106.85
LOCATION L0000460 VOLUME 385113.190 3775337.144 105.53
LOCATION L0000461 VOLUME 385082.477 3775313.108 104.37
LOCATION L0000462 VOLUME 385051.764 3775289.072 103.22
LOCATION L0000463 VOLUME 385021.052 3775265.036 101.85
LOCATION L0000464 VOLUME 384990.339 3775241.000 100.27
LOCATION L0000465 VOLUME 384959.626 3775216.964 98.73
LOCATION L0000466 VOLUME 384929.494 3775192.233 97.09
LOCATION L0000467 VOLUME 384900.380 3775166.284 95.49
LOCATION L0000468 VOLUME 384871.266 3775140.334 93.88
LOCATION L0000469 VOLUME 384844.165 3775112.583 92.99
LOCATION L0000470 VOLUME 384821.594 3775080.779 91.93
LOCATION L0000471 VOLUME 384800.939 3775047.802 91.00
LOCATION L0000472 VOLUME 384782.899 3775013.225 91.06
LOCATION L0000473 VOLUME 384764.858 3774978.648 91.08
LOCATION L0000474 VOLUME 384754.115 3774941.361 91.36
LOCATION L0000475 VOLUME 384744.656 3774903.465 92.02
LOCATION L0000476 VOLUME 384737.331 3774865.252 92.76
LOCATION L0000477 VOLUME 384733.248 3774826.467 93.51
LOCATION L0000478 VOLUME 384731.217 3774787.573 94.25
LOCATION L0000479 VOLUME 384731.217 3774748.573 94.82
LOCATION L0000480 VOLUME 384731.217 3774709.573 95.37
LOCATION L0000481 VOLUME 384731.217 3774670.573 96.05
LOCATION L0000482 VOLUME 384731.217 3774631.573 96.89
LOCATION L0000483 VOLUME 384731.217 3774592.573 97.73
** End of LINE VOLUME Source ID = SLINE1
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Fletcher Ramp
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 0.0468
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 13
** 384495.216, 3774987.675, 99.50, 0.00, 4.19
** 384523.422, 3774990.239, 98.24, 0.00, 4.19

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2

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** 384609.962, 3774990.239, 94.68, 0.00, 4.19
** 384701.631, 3774985.111, 91.27, 0.00, 4.19
** 384747.145, 3774979.982, 91.29, 0.00, 4.19
** 384788.172, 3774978.059, 91.02, 0.00, 4.19
** 384807.403, 3774985.111, 91.05, 0.00, 4.19
** 384823.429, 3774999.214, 91.07, 0.00, 4.19
** 384845.865, 3775039.599, 91.00, 0.00, 4.19
** 384875.448, 3775089.231, 91.12, 0.00, 4.19
** 384893.975, 3775114.243, 91.31, 0.00, 4.19
** 384924.545, 3775150.371, 95.25, 0.00, 4.19
** 384959.747, 3775182.793, 96.84, 0.00, 4.19
**
-----
LOCATION L0000484 VOLUME 384499.698 3774988.082 100.42
LOCATION L0000485 VOLUME 384508.661 3774988.897 100.08
LOCATION L0000486 VOLUME 384517.624 3774989.712 99.74
LOCATION L0000487 VOLUME 384526.600 3774990.239 99.40
LOCATION L0000488 VOLUME 384535.600 3774990.239 99.05
LOCATION L0000489 VOLUME 384544.600 3774990.239 98.70
LOCATION L0000490 VOLUME 384553.600 3774990.239 98.35
LOCATION L0000491 VOLUME 384562.600 3774990.239 97.94
LOCATION L0000492 VOLUME 384571.600 3774990.239 97.50
LOCATION L0000493 VOLUME 384580.600 3774990.239 97.06
LOCATION L0000494 VOLUME 384589.600 3774990.239 96.62
LOCATION L0000495 VOLUME 384598.600 3774990.239 96.19
LOCATION L0000496 VOLUME 384607.600 3774990.239 95.75
LOCATION L0000497 VOLUME 384616.590 3774989.868 95.31
LOCATION L0000498 VOLUME 384625.576 3774989.366 94.86
LOCATION L0000499 VOLUME 384634.562 3774988.863 94.43
LOCATION L0000500 VOLUME 384643.547 3774988.360 94.07
LOCATION L0000501 VOLUME 384652.533 3774987.857 93.71
LOCATION L0000502 VOLUME 384661.519 3774987.355 93.35
LOCATION L0000503 VOLUME 384670.505 3774986.852 92.99
LOCATION L0000504 VOLUME 384679.491 3774986.349 92.63
LOCATION L0000505 VOLUME 384688.477 3774985.847 92.27
LOCATION L0000506 VOLUME 384697.463 3774985.344 91.91
LOCATION L0000507 VOLUME 384706.426 3774984.841 91.55
LOCATION L0000508 VOLUME 384715.370 3774984.338 91.19
LOCATION L0000509 VOLUME 384724.313 3774983.835 90.83
LOCATION L0000510 VOLUME 384733.257 3774983.332 90.47
LOCATION L0000511 VOLUME 384742.200 3774982.829 90.11
LOCATION L0000512 VOLUME 384751.164 3774982.326 89.75
LOCATION L0000513 VOLUME 384760.154 3774981.823 89.39
LOCATION L0000514 VOLUME 384769.145 3774981.320 89.03
LOCATION L0000515 VOLUME 384778.135 3774980.817 88.67
LOCATION L0000516 VOLUME 384787.125 3774980.314 88.31
LOCATION L0000517 VOLUME 384796.115 3774980.811 87.95
LOCATION L0000518 VOLUME 384805.105 3774980.308 87.59
LOCATION L0000519 VOLUME 384814.095 3774980.805 87.23
LOCATION L0000520 VOLUME 384823.085 3774980.302 86.87
LOCATION L0000521 VOLUME 384832.075 3774980.799 86.51
LOCATION L0000522 VOLUME 384841.065 3774980.296 86.15

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3

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LOCATION L0000523 VOLUME 384833.201 3775016.803 91.00
LOCATION L0000524 VOLUME 384837.571 3775024.670 91.00
LOCATION L0000525 VOLUME 384841.942 3775032.537 91.00
LOCATION L0000526 VOLUME 384846.313 3775040.391 91.00
LOCATION L0000527 VOLUME 384850.684 3775048.245 91.00
LOCATION L0000528 VOLUME 384855.055 3775056.099 91.00
LOCATION L0000529 VOLUME 384860.426 3775063.953 91.00
LOCATION L0000530 VOLUME 384864.797 3775071.807 91.00
LOCATION L0000531 VOLUME 384869.168 3775079.661 91.00
LOCATION L0000532 VOLUME 384873.539 3775087.515 91.00
LOCATION L0000533 VOLUME 384877.910 3775095.369 91.00
LOCATION L0000534 VOLUME 384882.281 3775103.223 91.00
LOCATION L0000535 VOLUME 384886.652 3775111.077 91.00
LOCATION L0000536 VOLUME 384891.023 3775118.931 91.00
LOCATION L0000537 VOLUME 384895.394 3775126.785 91.00
LOCATION L0000538 VOLUME 384900.765 3775134.639 91.00
LOCATION L0000539 VOLUME 384905.136 3775142.493 91.00
LOCATION L0000540 VOLUME 384910.507 3775150.347 91.00
LOCATION L0000541 VOLUME 384915.878 3775158.201 91.00
LOCATION L0000542 VOLUME 384920.249 3775166.055 91.00
LOCATION L0000543 VOLUME 384925.620 3775173.909 91.00
LOCATION L0000544 VOLUME 384930.991 3775181.763 91.00
LOCATION L0000545 VOLUME 384935.362 3775189.617 91.00
LOCATION L0000546 VOLUME 384940.733 3775197.471 91.00
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
SRCPARAM L0000456 0.0389285714 0.00 18.14
0.70
SRCPARAM L0000457 0.0389285714 0.00 18.14
0.70
SRCPARAM L0000458 0.0389285714 0.00 18.14
0.70
SRCPARAM L0000459 0.0389285714 0.00 18.14
0.70
SRCPARAM L0000460 0.0389285714 0.00 18.14
0.70
SRCPARAM L0000461 0.0389285714 0.00 18.14
0.70
SRCPARAM L0000462 0.0389285714 0.00 18.14
0.70
SRCPARAM L0000463 0.0389285714 0.00 18.14
0.70
SRCPARAM L0000464 0.0389285714 0.00 18.14
0.70
SRCPARAM L0000465 0.0389285714 0.00 18.14
0.70
SRCPARAM L0000466 0.0389285714 0.00 18.14
0.70
SRCPARAM L0000467 0.0389285714 0.00 18.14
0.70
SRCPARAM L0000468 0.0389285714 0.00 18.14

```

4

|      |                                |              |      |       |
|------|--------------------------------|--------------|------|-------|
| 0.70 |                                |              |      |       |
| 0.70 | SRCPARAM L0000469              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000470              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000471              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000472              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000473              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000474              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000475              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000476              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000477              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000478              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000479              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000480              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000481              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000482              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000483              | 0.0389285714 | 0.00 | 18.14 |
| 0.70 |                                |              |      |       |
| **   | -----                          |              |      |       |
| **   | LINE VOLUME Source ID = SLINE2 |              |      |       |
| 0.70 | SRCPARAM L0000484              | 0.0007428571 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000485              | 0.0007428571 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000486              | 0.0007428571 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000487              | 0.0007428571 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000488              | 0.0007428571 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000489              | 0.0007428571 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000490              | 0.0007428571 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000491              | 0.0007428571 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000492              | 0.0007428571 | 0.00 | 4.19  |
| 0.70 |                                |              |      |       |

5

|      |                   |              |      |      |
|------|-------------------|--------------|------|------|
|      | SRCPARAM L0000493 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000494 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000495 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000496 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000497 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000498 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000499 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000500 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000501 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000502 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000503 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000504 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000505 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000506 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000507 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000508 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000509 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000510 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000511 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000512 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000513 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000514 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000515 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000516 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000517 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000518 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 |                   |              |      |      |

6

|      |                   |              |      |      |
|------|-------------------|--------------|------|------|
|      | SRCPARAM L0000519 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000520 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000521 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000522 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000523 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000524 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000525 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000526 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000527 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000528 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000529 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000530 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000531 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000532 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000533 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000534 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000535 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000536 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000537 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000538 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000539 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000540 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000541 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000542 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000543 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000544 | 0.0007428571 | 0.00 | 4.19 |
| 0.70 |                   |              |      |      |

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|      |                                                  |              |      |      |
|------|--------------------------------------------------|--------------|------|------|
|      | SRCPARAM L0000545                                | 0.0007428571 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000546                                | 0.0007428571 | 0.00 | 4.19 |
| 0.70 |                                                  |              |      |      |
| **   | -----                                            |              |      |      |
|      | URBANSRC ALL                                     |              |      |      |
|      | SRCGROUP ALL                                     |              |      |      |
| SO   | FINISHED                                         |              |      |      |
| **   |                                                  |              |      |      |
|      | *****                                            |              |      |      |
| **   | AERMOD Receptor Pathway                          |              |      |      |
|      | *****                                            |              |      |      |
| **   |                                                  |              |      |      |
|      | RE STARTING                                      |              |      |      |
|      | INCLUDED "CO 8 HR.rou"                           |              |      |      |
| RE   | FINISHED                                         |              |      |      |
| **   |                                                  |              |      |      |
|      | *****                                            |              |      |      |
| **   | AERMOD Meteorology Pathway                       |              |      |      |
|      | *****                                            |              |      |      |
| **   |                                                  |              |      |      |
|      | ME STARTING                                      |              |      |      |
|      | SURFFILE ..\cela8.sfc                            |              |      |      |
|      | PROFFILE ..\cela8.PFL                            |              |      |      |
|      | SURFDATA 0 2006                                  |              |      |      |
|      | UAIRDATA 3190 2006                               |              |      |      |
|      | SITEDATA 99999 2006                              |              |      |      |
|      | PROFBASE 87.0 METERS                             |              |      |      |
| ME   | FINISHED                                         |              |      |      |
| **   |                                                  |              |      |      |
|      | *****                                            |              |      |      |
| **   | AERMOD Output Pathway                            |              |      |      |
|      | *****                                            |              |      |      |
| **   |                                                  |              |      |      |
|      | OU STARTING                                      |              |      |      |
|      | RECTABLE ALLAVE 1ST                              |              |      |      |
|      | RECTABLE 8 1ST                                   |              |      |      |
| **   | Auto-Generated Plotfiles                         |              |      |      |
|      | PLOTFILE 8 ALL 1ST "CO 8 HR.ADV\08H1GALL.PLT" 31 |              |      |      |
|      | SUMMFILE "CO 8 HR.sum"                           |              |      |      |
| OU   | FINISHED                                         |              |      |      |
|      |                                                  |              |      |      |
|      | *****                                            |              |      |      |
|      | *** SETUP Finishes Successfully ***              |              |      |      |
|      | *****                                            |              |      |      |

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*** AERMET - VERSION 14134 *** ***
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PAGE 1
**MODELOPTs: RegDFAULT CONC      ELEV      URBAN

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

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

**Model Uses URBAN Dispersion Algorithm for the SBL for 91
Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length =
1.000 m

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

**Other Options Specified:
TEMP_Sub - Meteorological data includes TEMP
substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: CO

**Model Calculates 1 Short Term Average(s) of: 8-HR

**This Run Includes: 91 Source(s); 1 Source Group(s);
and 102 Receptor(s)

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

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and: 91 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 OPENPIT source(s)

```

```

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

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by
Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for
Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked
Values (SUMMFILE Keyword)

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

m for Missing Hours

b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =
87.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = ; Emission Rate Unit
GRAMS/SEC
Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

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

**Detailed Error/Message File: CO 8 HR.err
**File for Summary of Results: CO 8 HR.sum

```

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PAGE 2
**MODELOPTs: RegDFAULT CONC      ELEV      URBAN

*** VOLUME
SOURCE DATA ***

RELEASE INIT. INIT. URBAN EMISSION RATE BASE
SOURCE PART. (GRAMS/SEC) X ELEV.
HEIGHT SY SZ SOURCE SCALAR VARY Y
ID CATS SOURCE (METERS) (METERS) (METERS)
(METERS) (METERS) (METERS) BY
-----
L0000456 0 0.38929E-01 385236.0 3775433.3 110.0
0.00 18.14 0.70 YES
L0000457 0 0.38929E-01 385205.3 3775409.3 109.1
0.00 18.14 0.70 YES
L0000458 0 0.38929E-01 385174.6 3775385.2 108.2
0.00 18.14 0.70 YES
L0000459 0 0.38929E-01 385143.9 3775361.2 106.8
0.00 18.14 0.70 YES
L0000460 0 0.38929E-01 385113.2 3775337.1 105.5
0.00 18.14 0.70 YES
L0000461 0 0.38929E-01 385082.5 3775313.1 104.4
0.00 18.14 0.70 YES
L0000462 0 0.38929E-01 385051.8 3775289.1 103.2
0.00 18.14 0.70 YES
L0000463 0 0.38929E-01 385021.1 3775265.0 101.8
0.00 18.14 0.70 YES
L0000464 0 0.38929E-01 384990.3 3775241.0 100.3
0.00 18.14 0.70 YES
L0000465 0 0.38929E-01 384959.6 3775217.0 98.7
0.00 18.14 0.70 YES
L0000466 0 0.38929E-01 384929.5 3775192.2 97.1
0.00 18.14 0.70 YES
L0000467 0 0.38929E-01 384900.4 3775166.3 95.5
0.00 18.14 0.70 YES
L0000468 0 0.38929E-01 384871.3 3775140.3 93.9
0.00 18.14 0.70 YES
L0000469 0 0.38929E-01 384844.2 3775112.6 93.0
0.00 18.14 0.70 YES
L0000470 0 0.38929E-01 384821.6 3775080.8 91.9
0.00 18.14 0.70 YES

```

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```

L0000471 0 0.38929E-01 384800.9 3775047.8 91.0
0.00 18.14 0.70 YES
L0000472 0 0.38929E-01 384782.9 3775013.2 91.1
0.00 18.14 0.70 YES
L0000473 0 0.38929E-01 384764.9 3774978.6 91.1
0.00 18.14 0.70 YES
L0000474 0 0.38929E-01 384754.1 3774941.3 91.4
0.00 18.14 0.70 YES
L0000475 0 0.38929E-01 384744.7 3774903.5 92.0
0.00 18.14 0.70 YES
L0000476 0 0.38929E-01 384737.3 3774865.3 92.8
0.00 18.14 0.70 YES
L0000477 0 0.38929E-01 384733.2 3774826.5 93.5
0.00 18.14 0.70 YES
L0000478 0 0.38929E-01 384731.2 3774787.6 94.2
0.00 18.14 0.70 YES
L0000479 0 0.38929E-01 384731.2 3774748.6 94.8
0.00 18.14 0.70 YES
L0000480 0 0.38929E-01 384731.2 3774709.6 95.4
0.00 18.14 0.70 YES
L0000481 0 0.38929E-01 384731.2 3774670.6 96.0
0.00 18.14 0.70 YES
L0000482 0 0.38929E-01 384731.2 3774631.6 96.9
0.00 18.14 0.70 YES
L0000483 0 0.38929E-01 384731.2 3774592.6 97.7
0.00 18.14 0.70 YES
L0000484 0 0.74286E-03 384499.7 3774988.1 100.4
0.00 4.19 0.70 YES
L0000485 0 0.74286E-03 384508.7 3774988.9 100.1
0.00 4.19 0.70 YES
L0000486 0 0.74286E-03 384517.6 3774989.7 99.7
0.00 4.19 0.70 YES
L0000487 0 0.74286E-03 384526.6 3774990.2 99.4
0.00 4.19 0.70 YES
L0000488 0 0.74286E-03 384535.6 3774990.2 99.0
0.00 4.19 0.70 YES
L0000489 0 0.74286E-03 384544.6 3774990.2 98.7
0.00 4.19 0.70 YES
L0000490 0 0.74286E-03 384553.6 3774990.2 98.3
0.00 4.19 0.70 YES
L0000491 0 0.74286E-03 384562.6 3774990.2 97.9
0.00 4.19 0.70 YES
L0000492 0 0.74286E-03 384571.6 3774990.2 97.5
0.00 4.19 0.70 YES
L0000493 0 0.74286E-03 384580.6 3774990.2 97.1
0.00 4.19 0.70 YES
L0000494 0 0.74286E-03 384589.6 3774990.2 96.6
0.00 4.19 0.70 YES
L0000495 0 0.74286E-03 384598.6 3774990.2 96.2
0.00 4.19 0.70 YES

```

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

SOURCE DATA \*\*\* \*\*\* VOLUME

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>SZ<br>(METERS) | NUMBER<br>(GRAMS/SEC) | EMISSION<br>RATE<br>X<br>SCALAR VARY<br>BY | EMISSION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |      |
|-----------------------------------------------|-------------------------|----------------------------------|-----------------------|--------------------------------------------|-----------------------------------|---------------------------|------|
| L0000496                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384607.6                          | 3774990.2                 | 95.8 |
| L0000497                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384616.6                          | 3774989.9                 | 95.3 |
| L0000498                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384625.6                          | 3774989.4                 | 94.9 |
| L0000499                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384634.6                          | 3774988.9                 | 94.4 |
| L0000500                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384643.5                          | 3774988.4                 | 94.1 |
| L0000501                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384652.5                          | 3774987.9                 | 93.7 |
| L0000502                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384661.5                          | 3774987.4                 | 93.3 |
| L0000503                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384670.5                          | 3774986.9                 | 93.0 |
| L0000504                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384679.5                          | 3774986.3                 | 92.6 |
| L0000505                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384688.5                          | 3774985.8                 | 92.3 |
| L0000506                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384697.5                          | 3774985.3                 | 91.9 |
| L0000507                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384706.4                          | 3774984.6                 | 91.5 |
| L0000508                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384715.4                          | 3774983.6                 | 91.4 |
| L0000509                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384724.3                          | 3774982.6                 | 91.3 |
| L0000510                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384733.3                          | 3774981.5                 | 91.2 |

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|          |      |      |      |             |          |           |      |
|----------|------|------|------|-------------|----------|-----------|------|
| L0000511 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384742.2 | 3774980.5 | 91.2 |
| L0000512 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384751.2 | 3774979.8 | 91.1 |
| L0000513 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384760.2 | 3774979.4 | 91.1 |
| L0000514 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384769.1 | 3774979.0 | 91.1 |
| L0000515 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384778.1 | 3774978.5 | 91.0 |
| L0000516 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384787.1 | 3774978.1 | 91.0 |
| L0000517 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384795.6 | 3774980.8 | 91.0 |
| L0000518 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384804.1 | 3774983.9 | 91.0 |
| L0000519 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384811.5 | 3774988.7 | 91.0 |
| L0000520 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384818.3 | 3774994.7 | 91.0 |
| L0000521 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384824.5 | 3775001.1 | 91.0 |
| L0000522 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384828.8 | 3775008.9 | 91.0 |
| L0000523 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384833.2 | 3775016.8 | 91.0 |
| L0000524 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384837.6 | 3775024.7 | 91.0 |
| L0000525 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384841.9 | 3775032.5 | 91.0 |
| L0000526 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384846.3 | 3775040.4 | 91.0 |
| L0000527 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384850.9 | 3775048.1 | 91.0 |
| L0000528 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384855.6 | 3775055.9 | 91.0 |
| L0000529 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384860.2 | 3775063.6 | 91.2 |
| L0000530 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384864.8 | 3775071.3 | 91.5 |
| L0000531 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384869.4 | 3775079.0 | 91.8 |
| L0000532 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384874.0 | 3775086.8 | 92.2 |
| L0000533 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384879.1 | 3775094.2 | 92.5 |
| L0000534 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384884.5 | 3775101.4 | 92.8 |
| L0000535 | 0.00 | 4.19 | 0.70 | 0.74286E-03 | 384889.8 | 3775108.6 | 93.2 |

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

SOURCE DATA \*\*\* \*\*\* VOLUME

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>SZ<br>(METERS) | NUMBER<br>(GRAMS/SEC) | EMISSION<br>RATE<br>X<br>SCALAR VARY<br>BY | EMISSION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |      |
|-----------------------------------------------|-------------------------|----------------------------------|-----------------------|--------------------------------------------|-----------------------------------|---------------------------|------|
| L0000536                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384895.3                          | 3775115.8                 | 93.6 |
| L0000537                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384901.1                          | 3775122.7                 | 94.0 |
| L0000538                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384906.9                          | 3775129.5                 | 94.4 |
| L0000539                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384912.7                          | 3775136.4                 | 94.8 |
| L0000540                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384918.5                          | 3775143.3                 | 95.2 |
| L0000541                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384924.3                          | 3775150.1                 | 95.6 |
| L0000542                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384930.9                          | 3775156.3                 | 96.0 |
| L0000543                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384937.6                          | 3775162.4                 | 96.3 |
| L0000544                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384944.2                          | 3775168.5                 | 96.7 |
| L0000545                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384950.8                          | 3775174.5                 | 97.2 |
| L0000546                                      | 0.00                    | 4.19                             | 0.70                  | 0.74286E-03                                | 384957.4                          | 3775180.6                 | 97.6 |

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

DEFINING SOURCE GROUPS \*\*\* \*\*\* SOURCE IDs

| SRCGROUP ID | SOURCE                           |
|-------------|----------------------------------|
| ALL         | L0000456 , L0000457 , L0000458 , |
| L0000459    | L0000460 , L0000461 , L0000462 , |
| L0000463    | L0000464 , L0000465 , L0000466 , |
| L0000467    | L0000468 , L0000469 , L0000470 , |
| L0000471    | L0000472 , L0000473 , L0000474 , |
| L0000475    | L0000476 , L0000477 , L0000478 , |
| L0000479    | L0000480 , L0000481 , L0000482 , |
| L0000483    | L0000484 , L0000485 , L0000486 , |
| L0000487    | L0000488 , L0000489 , L0000490 , |
| L0000491    | L0000492 , L0000493 , L0000494 , |
| L0000495    | L0000496 , L0000497 , L0000498 , |
| L0000499    | L0000500 , L0000501 , L0000502 , |
| L0000503    | L0000504 , L0000505 , L0000506 , |
| L0000507    | L0000508 , L0000509 , L0000510 , |
| L0000511    | L0000512 , L0000513 , L0000514 , |
| L0000515    | L0000516 , L0000517 , L0000518 , |
| L0000519    | L0000520 , L0000521 , L0000522 , |

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L0000523 , L0000524 , L0000525 , L0000526 ,  
L0000527 ,  
  
L0000531 , L0000528 , L0000529 , L0000530 ,  
L0000535 , L0000532 , L0000533 , L0000534 ,  
,  
  
L0000539 , L0000536 , L0000537 , L0000538 ,  
L0000543 , L0000540 , L0000541 , L0000542 ,  
,  
  
L0000544 , L0000545 , L0000546 , ,

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

\*\*\* SOURCE IDs DEFINED

| URBAN ID<br>IDS                  | URBAN POP                        | SOURCE                           |
|----------------------------------|----------------------------------|----------------------------------|
| ---                              | ---                              | ---                              |
| L0000458<br>L0000462<br>L0000463 | 9862049.<br>L0000459<br>L0000460 | L0000457<br>L0000461<br>L0000462 |
| L0000467<br>L0000471             | L0000464<br>L0000468<br>L0000469 | L0000466<br>L0000470<br>L0000471 |
| L0000475<br>L0000479             | L0000472<br>L0000476<br>L0000477 | L0000474<br>L0000478<br>L0000479 |
| L0000483<br>L0000487             | L0000480<br>L0000484<br>L0000485 | L0000482<br>L0000486<br>L0000487 |
| L0000491<br>L0000495             | L0000488<br>L0000492<br>L0000493 | L0000490<br>L0000494<br>L0000495 |
| L0000499<br>L0000503             | L0000496<br>L0000500<br>L0000501 | L0000498<br>L0000502<br>L0000503 |
| L0000507<br>L0000511             | L0000504<br>L0000508<br>L0000509 | L0000506<br>L0000510<br>L0000511 |
| L0000515<br>L0000519             | L0000512<br>L0000516<br>L0000517 | L0000514<br>L0000518<br>L0000519 |

L0000523 , L0000520 , L0000521 , L0000522 ,  
L0000527 , L0000524 , L0000525 , L0000526 ,  
,  
  
L0000531 , L0000528 , L0000529 , L0000530 ,  
L0000535 , L0000532 , L0000533 , L0000534 ,  
,  
  
L0000539 , L0000536 , L0000537 , L0000538 ,  
L0000543 , L0000540 , L0000541 , L0000542 ,  
,  
  
L0000544 , L0000545 , L0000546 , ,

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

\*\*\* DISCRETE

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

(METERS)

|                        |       |       |       |
|------------------------|-------|-------|-------|
| ( 384981.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 384927.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384945.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384963.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384981.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384909.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384927.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384945.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384963.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384981.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384837.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384855.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384909.6, 3774976.1, | 91.1, | 91.1, | 0.0); |
| ( 384927.6, 3774976.1, | 91.1, | 91.1, | 0.0); |
| ( 384945.6, 3774976.1, | 91.2, | 91.2, | 0.0); |
| ( 384963.6, 3774976.1, | 91.2, | 91.2, | 0.0); |
| ( 384981.6, 3774976.1, | 91.3, | 91.3, | 0.0); |
| ( 384999.6, 3774976.1, | 91.3, | 91.3, | 0.0); |
| ( 385017.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384837.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384855.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774989.1, | 91.1, | 91.1, | 0.0); |
| ( 384909.6, 3774989.1, | 91.2, | 91.2, | 0.0); |
| ( 384927.6, 3774989.1, | 91.2, | 91.2, | 0.0); |
| ( 384945.6, 3774989.1, | 91.3, | 91.3, | 0.0); |



```
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**MODELOPTS:  RegDFAULT CONC      ELEV      URBAN

*** UP TO THE FIRST 24 HOURS

OF METEOROLOGICAL DATA ***

  Surface file:  ..\cela8.sfc
Met Version: 14134
  Profile file:  ..\cela8.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:      0      Upper air
station no.:      3190
Name: UNKNOWN
Year:      2006

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
- - - - -
06 01 01 1 01 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 347. 9.1 286.4 5.5
06 01 01 1 02 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 81. 9.1 286.4 5.5
06 01 01 1 03 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 66. 9.1 286.4 5.5
06 01 01 1 04 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 23. 9.1 285.9 5.5
06 01 01 1 05 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 61. 9.1 285.4 5.5
06 01 01 1 06 -6.5 0.093 -9.000 -9.000 -999. 68. 11.2
0.56 1.00 1.00 1.30 83. 9.1 285.4 5.5
06 01 01 1 07 -11.6 0.210 -9.000 -9.000 -999. 232. 71.6
0.56 1.00 1.00 1.80 64. 9.1 285.4 5.5
06 01 01 1 08 -6.0 0.093 -9.000 -9.000 -999. 77. 12.0
0.56 1.00 1.00 0.55 1.30 46. 9.1 285.4 5.5
06 01 01 1 09 26.6 0.340 0.706 0.005 474. 476. -132.1
0.56 1.00 0.32 2.20 87. 9.1 286.4 5.5
06 01 01 1 10 21.0 0.284 0.736 0.005 681. 364. -97.2
0.56 1.00 0.24 1.80 76. 9.1 286.4 5.5
06 01 01 1 11 35.8 0.230 0.921 0.005 780. 266. -30.3
0.56 1.00 0.21 1.30 66. 9.1 287.5 5.5
06 01 01 1 12 14.9 0.331 0.694 0.008 804. 458. -218.6
```

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```
0.56 1.00 0.20 2.20 79. 9.1 287.5 5.5
06 01 01 1 13 26.4 0.460 0.854 0.012 844. 749. -330.2
0.56 1.00 0.20 3.10 76. 9.1 287.5 5.5
06 01 01 1 14 39.0 0.466 0.995 0.015 902. 763. -231.5
0.56 1.00 0.21 3.10 80. 9.1 288.1 5.5
06 01 01 1 15 11.4 0.328 0.664 0.015 917. 466. -277.7
0.56 1.00 0.25 2.20 85. 9.1 287.5 5.5
06 01 01 1 16 0.1 0.445 0.137 0.015 917. 712. -8888.0
0.56 1.00 0.33 3.10 75. 9.1 287.0 5.5
06 01 01 1 17 -21.5 0.423 -9.000 -9.000 -999. 661. 315.0
0.56 1.00 0.60 3.10 82. 9.1 286.4 5.5
06 01 01 1 18 33.6 0.332 -9.000 -9.000 -999. 464. 97.1
0.56 1.00 1.00 2.70 101. 9.1 286.4 5.5
06 01 01 1 19 -30.9 0.412 -9.000 -9.000 -999. 634. 201.9
0.56 1.00 1.00 3.10 97. 9.1 285.9 5.5
06 01 01 1 20 -34.9 0.630 -9.000 -9.000 -999. 1200. 640.4
0.56 1.00 1.00 4.50 92. 9.1 284.9 5.5
06 01 01 1 21 -47.1 0.624 -9.000 -9.000 -999. 1183. 460.9
0.56 1.00 1.00 4.50 88. 9.1 284.2 5.5
06 01 01 1 22 -62.8 0.616 -9.000 -9.000 -999. 1160. 332.6
0.56 1.00 1.00 4.50 91. 9.1 284.9 5.5
06 01 01 1 23 -61.4 0.816 -9.000 -9.000 -999. 1765. 791.1
0.56 1.00 1.00 5.80 82. 9.1 285.4 5.5
06 01 01 1 24 -45.3 0.820 -9.000 -9.000 -999. 1783. 1090.2
0.56 1.00 1.00 5.80 84. 9.1 285.9 5.5
```

```
First hour of profile data
YR MO DY HR HEIGHT F      WDIR      WSPD      AMB      TMP      sigmaA      sigmaW
sigmaM
06 01 01 01 5.5 0 -999. -99.00 286.5
99.0 -99.00 -99.00
06 01 01 01 9.1 1 347. 0.90 -999.0
99.0 -99.00 -99.00

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

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```
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**MODELOPTS:  RegDFAULT CONC      ELEV      URBAN

*** THE 1ST HIGHEST 8-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):
L0000456 , L0000457 , L0000458 , L0000459 ,
L0000460 ,
L0000461 , L0000462 , L0000463 ,
L0000464 , L0000465 , L0000466 , L0000467 ,
L0000468 ,
L0000469 , L0000470 , L0000471 ,
L0000472 , L0000473 , L0000474 , L0000475 ,
L0000476 ,
L0000477 , L0000478 , L0000479 ,
L0000480 , L0000481 , L0000482 ,
L0000483 , . . .

*** DISCRETE

CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) Y-COORD (M)      CONC      (YYMDDHH)
X-COORD (M) Y-COORD (M)      CONC      (YYMDDHH)
- - - - -
384981.56 3774937.12 29.09531 (07013108)
384999.56 3774937.12 27.09381 (07013108)
385017.56 3774937.12 25.32394 (07013108)
384927.56 3774950.12 38.53671 (07013108)
384945.56 3774950.12 35.24983 (07013108)
384963.56 3774950.12 32.46123 (07013108)
384981.56 3774950.12 30.05843 (07013108)
384999.56 3774950.12 27.96096 (07013108)
385017.56 3774950.12 26.10979 (07013108)
384873.56 3774963.12 56.30477 (07013108)
384891.56 3774963.12 49.57094 (07013108)
384909.56 3774963.12 44.31974 (07013108)
384927.56 3774963.12 40.08844 (07013108)
384945.56 3774963.12 36.59009 (07013108)
384963.56 3774963.12 33.63791 (07013108)
384981.56 3774963.12 31.10353 (07013108)
384999.56 3774963.12 28.89811 (07013108)
```

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```
385017.56 3774963.12 26.95608 (07013108)
384837.56 3774976.12 85.50065 (07013108)
384855.56 3774976.12 69.96532 (07013108)
384873.56 3774976.12 59.61460 (07013108)
384891.56 3774976.12 52.11985 (07013108)
384909.56 3774976.12 46.38395 (07013108)
384927.56 3774976.12 41.81867 (07013108)
384945.56 3774976.12 38.07581 (07013108)
384963.56 3774976.12 34.93527 (07013108)
384981.56 3774976.12 32.25204 (07013108)
384999.56 3774976.12 29.92452 (07013108)
385017.56 3774976.12 27.88037 (07013108)
384837.56 3774989.12 96.15491 (07013108)
384855.56 3774989.12 75.68068 (07013108)
384873.56 3774989.12 63.48969 (07013108)
384891.56 3774989.12 55.93593 (07013108)
384909.56 3774989.12 48.71317 (07013108)
384927.56 3774989.12 43.75132 (07013108)
384945.56 3774989.12 39.72154 (07013108)
384963.56 3774989.12 36.36414 (07013108)
384981.56 3774989.12 33.50995 (07013108)
384999.56 3774989.12 31.04314 (07013108)
385017.56 3774989.12 28.88321 (07013108)
384855.56 3775002.12 82.79685 (07013108)
384873.56 3775002.12 68.06311 (07013108)
384891.56 3775002.12 58.39680 (07013108)
384909.56 3775002.12 51.35845 (07013108)
384927.56 3775002.12 45.92378 (07013108)
384945.56 3775002.12 41.55775 (07013108)
384963.56 3775002.12 37.94761 (07013108)
384981.56 3775002.12 34.89463 (07013108)
384999.56 3775002.12 32.26836 (07013108)
385017.56 3775002.12 29.97629 (07013108)
385035.56 3775002.12 27.95343 (07013108)
384855.56 3775015.12 91.99336 (07013108)
384873.56 3775015.12 73.54951 (07013108)
384891.56 3775015.12 62.31369 (07013108)
384909.56 3775015.12 54.39132 (07013108)
384927.56 3775015.12 48.38732 (07013108)
384945.56 3775015.12 43.62102 (07013108)
384963.56 3775015.12 39.71294 (07013108)
384981.56 3775015.12 36.42859 (07013108)
384999.56 3775015.12 33.61709 (07013108)
385017.56 3775015.12 31.17362 (07013108)
385035.56 3775015.12 29.02384 (07013108)
384873.56 3775028.12 80.32279 (07013108)
384891.56 3775028.12 66.95341 (07013108)
384909.56 3775028.12 57.91210 (07013108)
384927.56 3775028.12 51.20792 (07013108)
384945.56 3775028.12 45.95991 (07013108)
384963.56 3775028.12 41.69600 (07013108)
384981.56 3775028.12 38.13999 (07013108)
```

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384999.56 3775028.12 35.11176 (07013108)  
385017.56 3775028.12 32.49211 (07013108)  
385035.56 3775028.12 30.19633 (07013108)  
384891.56 3775041.12 72.57306 (07013108)  
384909.56 3775041.12 62.06171 (07013108)  
384927.56 3775041.12 54.48008 (07013108)  
384945.56 3775041.12 48.63916 (07013108)  
384963.56 3775041.12 43.94601 (07013108)  
384981.56 3775041.12 40.06244 (07013108)  
384999.56 3775041.12 36.77835 (07013108)  
385017.56 3775041.12 33.95232 (07013108)

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PAGE 12  
\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN  
\*\*\* THE 1ST HIGHEST 8-HR AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: ALL  
INCLUDING SOURCE(S):  
L0000456 , L0000457 , L0000458 , L0000459 ,  
L0000460 , L0000461 , L0000462 , L0000463 ,  
L0000464 , L0000465 , L0000466 , L0000467 ,  
L0000468 , L0000469 , L0000470 , L0000471 ,  
L0000472 , L0000473 , L0000474 , L0000475 ,  
L0000476 , L0000477 , L0000478 , L0000479 ,  
L0000480 , L0000481 , L0000482 ,  
L0000483 , . . . ,

\*\*\* DISCRETE  
CARTESIAN RECEPTOR POINTS \*\*\*  
\*\* CONC OF CO IN  
\*\*  
MICROGRAMS/M\*\*3  
X-COORD (M) Y-COORD (M) CONC CONC (YYMMDDHH)  
X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)  
- - - - -  
-  
385035.56 3775041.12 31.48773 (07013108)  
384927.56 3775054.12 58.33326 (07013108)  
384945.56 3775054.12 51.74570 (07013108)  
384963.56 3775054.12 46.52214 (07013108)  
384981.56 3775054.12 42.24095 (07013108)  
384999.56 3775054.12 38.64920 (07013108)  
385017.56 3775054.12 35.57948 (07013108)  
385035.56 3775054.12 32.91678 (07013108)  
384945.56 3775067.12 55.45170 (07013108)  
384963.56 3775067.12 49.55096 (07013108)  
384981.56 3775067.12 44.77490 (07013108)  
384999.56 3775067.12 40.80613 (07013108)  
385017.56 3775067.12 37.44169 (07013108)  
385035.56 3775067.12 34.53981 (07013108)  
384981.56 3775080.12 47.70799 (07013108)  
384999.56 3775080.12 43.26973 (07013108)  
385017.56 3775080.12 39.54621 (07013108)

385035.56 3775080.12 36.35877 (07013108)  
384999.56 3775093.12 46.11092 (07013108)  
385017.56 3775093.12 41.94350 (07013108)  
385035.56 3775093.12 38.41066 (07013108)  
385035.56 3775106.12 40.74276 (07013108)

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\*\*\* AERMET - VERSION 14134 \*\*\* \*\*  
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PAGE 13  
\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN  
\*\*\* THE SUMMARY  
OF HIGHEST 8-HR RESULTS \*\*\*  
\*\* CONC OF CO IN  
\*\*  
MICROGRAMS/M\*\*3  
DATE  
NETWORK  
GROUP ID AVERAGE CONC (YYMMDDHH)  
RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID  
- - - - -  
-  
ALL HIGH 1ST HIGH VALUE IS 96.15491 ON 07013108: AT  
( 384837.56, 3774989.12, 91.00, 91.00, 0.00) DC  
\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Users\Brett Pomeroy  
\\Dropbox\Pomeroy Environmental Services\AERMOD \*\*\*  
02/20/17  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
22:51:47

PAGE 14

\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 756 Informational Message(s)

A Total of 43800 Hours Were Processed

A Total of 4 Calm Hours Identified

A Total of 752 Missing Hours Identified ( 1.72  
Percent)

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

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

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

**
*****
** AERMOD Input Produced by:
** AERMOD View Ver. 9.2.0
** Lakes Environmental Software Inc.
** Date: 2/20/2017
** File: C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD\Casitas HRA\PM10\PM10.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD
  MODELOPT DEFAULT CONC
  AVERTIME 24 ANNUAL
  URBANOPT 9862049
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL PM10.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Glendale Fwy
** PREFIX
** Length of Side = 39.00
** Configuration = Adjacent
** Emission Rate = 0.0656
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 8
** 385251.397, 3775445.306, 109.99, 0.00, 18.14
** 384940.062, 3775201.653, 96.19, 0.00, 18.14

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1

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** 384851.110, 3775122.369, 91.17, 0.00, 18.14
** 384808.567, 3775062.423, 91.08, 0.00, 18.14
** 384762.157, 3774973.470, 91.05, 0.00, 18.14
** 384738.952, 3774880.650, 92.94, 0.00, 18.14
** 384731.217, 3774807.167, 94.35, 0.00, 18.14
** 384731.217, 3774569.315, 98.20, 0.00, 18.14
-----
LOCATION L0000547 VOLUME 385236.040 3775433.288 110.00
LOCATION L0000548 VOLUME 385205.328 3775409.252 109.11
LOCATION L0000549 VOLUME 385174.615 3775385.216 108.17
LOCATION L0000550 VOLUME 385143.902 3775361.180 106.85
LOCATION L0000551 VOLUME 385113.190 3775337.144 105.53
LOCATION L0000552 VOLUME 385082.477 3775313.108 104.37
LOCATION L0000553 VOLUME 385051.764 3775289.072 103.22
LOCATION L0000554 VOLUME 385021.052 3775265.036 101.85
LOCATION L0000555 VOLUME 384990.339 3775241.000 100.27
LOCATION L0000556 VOLUME 384959.626 3775216.964 98.73
LOCATION L0000557 VOLUME 384929.494 3775192.233 97.09
LOCATION L0000558 VOLUME 384900.380 3775166.284 95.49
LOCATION L0000559 VOLUME 384871.266 3775140.334 93.88
LOCATION L0000560 VOLUME 384844.165 3775112.583 92.99
LOCATION L0000561 VOLUME 384821.594 3775080.779 91.93
LOCATION L0000562 VOLUME 384800.939 3775047.802 91.00
LOCATION L0000563 VOLUME 384782.899 3775013.225 91.06
LOCATION L0000564 VOLUME 384764.858 3774978.648 91.08
LOCATION L0000565 VOLUME 384754.115 3774941.361 91.36
LOCATION L0000566 VOLUME 384744.656 3774903.465 92.02
LOCATION L0000567 VOLUME 384737.331 3774865.252 92.76
LOCATION L0000568 VOLUME 384733.248 3774826.467 93.51
LOCATION L0000569 VOLUME 384731.217 3774787.573 94.25
LOCATION L0000570 VOLUME 384731.217 3774748.573 94.82
LOCATION L0000571 VOLUME 384731.217 3774709.573 95.37
LOCATION L0000572 VOLUME 384731.217 3774670.573 96.05
LOCATION L0000573 VOLUME 384731.217 3774631.573 96.89
LOCATION L0000574 VOLUME 384731.217 3774592.573 97.73
** End of LINE VOLUME Source ID = SLINE1
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Fletcher Ramp
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 0.00229
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 13
** 384495.216, 3774987.675, 99.50, 0.00, 4.19
** 384523.422, 3774990.239, 98.24, 0.00, 4.19

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2

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** 384609.962, 3774990.239, 94.68, 0.00, 4.19
** 384701.631, 3774985.111, 91.27, 0.00, 4.19
** 384747.145, 3774979.982, 91.29, 0.00, 4.19
** 384788.172, 3774978.059, 91.02, 0.00, 4.19
** 384807.403, 3774985.111, 91.05, 0.00, 4.19
** 384823.429, 3774999.214, 91.07, 0.00, 4.19
** 384845.865, 3775039.599, 91.00, 0.00, 4.19
** 384875.448, 3775089.231, 91.12, 0.00, 4.19
** 384893.975, 3775114.243, 91.31, 0.00, 4.19
** 384924.545, 3775150.371, 95.25, 0.00, 4.19
** 384959.747, 3775182.793, 96.84, 0.00, 4.19
-----
LOCATION L0000575 VOLUME 384499.698 3774988.082 100.42
LOCATION L0000576 VOLUME 384508.661 3774988.897 100.08
LOCATION L0000577 VOLUME 384517.624 3774989.712 99.74
LOCATION L0000578 VOLUME 384526.600 3774990.239 99.40
LOCATION L0000579 VOLUME 384535.600 3774990.239 99.05
LOCATION L0000580 VOLUME 384544.600 3774990.239 98.70
LOCATION L0000581 VOLUME 384553.600 3774990.239 98.35
LOCATION L0000582 VOLUME 384562.600 3774990.239 97.94
LOCATION L0000583 VOLUME 384571.600 3774990.239 97.50
LOCATION L0000584 VOLUME 384580.600 3774990.239 97.06
LOCATION L0000585 VOLUME 384589.600 3774990.239 96.62
LOCATION L0000586 VOLUME 384598.600 3774990.239 96.19
LOCATION L0000587 VOLUME 384607.600 3774990.239 95.75
LOCATION L0000588 VOLUME 384616.590 3774989.868 95.31
LOCATION L0000589 VOLUME 384625.576 3774989.366 94.86
LOCATION L0000590 VOLUME 384634.562 3774988.863 94.43
LOCATION L0000591 VOLUME 384643.547 3774988.360 94.07
LOCATION L0000592 VOLUME 384652.533 3774987.857 93.71
LOCATION L0000593 VOLUME 384661.519 3774987.355 93.35
LOCATION L0000594 VOLUME 384670.505 3774986.852 92.99
LOCATION L0000595 VOLUME 384679.491 3774986.349 92.63
LOCATION L0000596 VOLUME 384688.477 3774985.847 92.27
LOCATION L0000597 VOLUME 384697.463 3774985.344 91.91
LOCATION L0000598 VOLUME 384706.426 3774984.841 91.55
LOCATION L0000599 VOLUME 384715.370 3774984.338 91.19
LOCATION L0000600 VOLUME 384724.313 3774983.835 90.83
LOCATION L0000601 VOLUME 384733.257 3774983.332 90.47
LOCATION L0000602 VOLUME 384742.200 3774982.829 90.11
LOCATION L0000603 VOLUME 384751.164 3774982.326 89.75
LOCATION L0000604 VOLUME 384760.154 3774981.823 89.39
LOCATION L0000605 VOLUME 384769.145 3774981.320 89.03
LOCATION L0000606 VOLUME 384778.135 3774980.817 88.67
LOCATION L0000607 VOLUME 384787.125 3774980.314 88.31
LOCATION L0000608 VOLUME 384795.638 3774979.811 87.95
LOCATION L0000609 VOLUME 384804.087 3774979.308 87.59
LOCATION L0000610 VOLUME 384811.508 3774988.723 91.00
LOCATION L0000611 VOLUME 384818.265 3774994.669 91.00
LOCATION L0000612 VOLUME 384824.459 3775001.068 91.00
LOCATION L0000613 VOLUME 384828.830 3775008.935 91.00

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3

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LOCATION L0000614 VOLUME 384833.201 3775016.803 91.00
LOCATION L0000615 VOLUME 384837.571 3775024.670 91.00
LOCATION L0000616 VOLUME 384841.942 3775032.537 91.00
LOCATION L0000617 VOLUME 384846.337 3775040.391 91.00
LOCATION L0000618 VOLUME 384850.945 3775048.122 91.00
LOCATION L0000619 VOLUME 384855.553 3775055.853 91.00
LOCATION L0000620 VOLUME 384860.161 3775063.583 91.25
LOCATION L0000621 VOLUME 384864.769 3775071.314 91.49
LOCATION L0000622 VOLUME 384869.377 3775079.045 91.82
LOCATION L0000623 VOLUME 384873.985 3775086.776 92.16
LOCATION L0000624 VOLUME 384879.104 3775094.167 92.50
LOCATION L0000625 VOLUME 384884.461 3775101.399 92.85
LOCATION L0000626 VOLUME 384889.818 3775108.631 93.22
LOCATION L0000627 VOLUME 384895.277 3775115.782 93.59
LOCATION L0000628 VOLUME 384901.091 3775122.652 93.98
LOCATION L0000629 VOLUME 384906.904 3775129.523 94.37
LOCATION L0000630 VOLUME 384912.710 3775136.393 94.78
LOCATION L0000631 VOLUME 384918.531 3775143.264 95.19
LOCATION L0000632 VOLUME 384924.345 3775150.134 95.60
LOCATION L0000633 VOLUME 384930.937 3775156.258 95.97
LOCATION L0000634 VOLUME 384937.557 3775162.355 96.34
LOCATION L0000635 VOLUME 384944.177 3775168.453 96.73
LOCATION L0000636 VOLUME 384950.797 3775174.550 97.16
LOCATION L0000637 VOLUME 384957.417 3775180.647 97.58
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
SRCPARAM L0000547 0.0023428571 0.00 18.14
0.70
SRCPARAM L0000548 0.0023428571 0.00 18.14
0.70
SRCPARAM L0000549 0.0023428571 0.00 18.14
0.70
SRCPARAM L0000550 0.0023428571 0.00 18.14
0.70
SRCPARAM L0000551 0.0023428571 0.00 18.14
0.70
SRCPARAM L0000552 0.0023428571 0.00 18.14
0.70
SRCPARAM L0000553 0.0023428571 0.00 18.14
0.70
SRCPARAM L0000554 0.0023428571 0.00 18.14
0.70
SRCPARAM L0000555 0.0023428571 0.00 18.14
0.70
SRCPARAM L0000556 0.0023428571 0.00 18.14
0.70
SRCPARAM L0000557 0.0023428571 0.00 18.14
0.70
SRCPARAM L0000558 0.0023428571 0.00 18.14
0.70
SRCPARAM L0000559 0.0023428571 0.00 18.14

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4

|      |                                |              |      |       |
|------|--------------------------------|--------------|------|-------|
| 0.70 |                                |              |      |       |
| 0.70 | SRCPARAM L0000560              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000561              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000562              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000563              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000564              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000565              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000566              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000567              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000568              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000569              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000570              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000571              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000572              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000573              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 | SRCPARAM L0000574              | 0.0023428571 | 0.00 | 18.14 |
| 0.70 |                                |              |      |       |
| **   | -----                          |              |      |       |
| **   | LINE VOLUME Source ID = SLINE2 |              |      |       |
| 0.70 | SRCPARAM L0000575              | 0.0000363492 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000576              | 0.0000363492 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000577              | 0.0000363492 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000578              | 0.0000363492 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000579              | 0.0000363492 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000580              | 0.0000363492 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000581              | 0.0000363492 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000582              | 0.0000363492 | 0.00 | 4.19  |
| 0.70 | SRCPARAM L0000583              | 0.0000363492 | 0.00 | 4.19  |
| 0.70 |                                |              |      |       |

5

|      |                   |              |      |      |
|------|-------------------|--------------|------|------|
|      | SRCPARAM L0000584 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000585 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000586 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000587 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000588 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000589 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000590 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000591 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000592 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000593 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000594 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000595 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000596 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000597 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000598 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000599 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000600 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000601 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000602 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000603 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000604 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000605 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000606 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000607 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000608 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000609 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 |                   |              |      |      |

6

|      |                   |              |      |      |
|------|-------------------|--------------|------|------|
|      | SRCPARAM L0000610 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000611 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000612 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000613 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000614 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000615 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000616 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000617 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000618 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000619 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000620 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000621 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000622 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000623 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000624 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000625 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000626 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000627 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000628 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000629 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000630 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000631 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000632 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000633 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000634 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000635 | 0.0000363492 | 0.00 | 4.19 |
| 0.70 |                   |              |      |      |

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|      |                                             |              |      |      |
|------|---------------------------------------------|--------------|------|------|
|      | SRCPARAM L0000636                           | 0.0000363492 | 0.00 | 4.19 |
| 0.70 | SRCPARAM L0000637                           | 0.0000363492 | 0.00 | 4.19 |
| 0.70 |                                             |              |      |      |
| **   | -----                                       |              |      |      |
|      | URBANSRC ALL                                |              |      |      |
|      | SRCGROUP ALL                                |              |      |      |
| SO   | FINISHED                                    |              |      |      |
| **   |                                             |              |      |      |
|      | *****                                       |              |      |      |
| **   | AERMOD Receptor Pathway                     |              |      |      |
|      | *****                                       |              |      |      |
| **   |                                             |              |      |      |
|      | RE STARTING                                 |              |      |      |
|      | INCLUDED PM10.rou                           |              |      |      |
| RE   | FINISHED                                    |              |      |      |
| **   |                                             |              |      |      |
|      | *****                                       |              |      |      |
| **   | AERMOD Meteorology Pathway                  |              |      |      |
|      | *****                                       |              |      |      |
| **   |                                             |              |      |      |
|      | ME STARTING                                 |              |      |      |
|      | SURFFILE ..\cela8.sfc                       |              |      |      |
|      | PROFFILE ..\cela8.PFL                       |              |      |      |
|      | SURFDATA 0 2006                             |              |      |      |
|      | UAIRDATA 3190 2006                          |              |      |      |
|      | SITEDATA 99999 2006                         |              |      |      |
|      | PROFBASE 87.0 METERS                        |              |      |      |
| ME   | FINISHED                                    |              |      |      |
| **   |                                             |              |      |      |
|      | *****                                       |              |      |      |
| **   | AERMOD Output Pathway                       |              |      |      |
|      | *****                                       |              |      |      |
| **   |                                             |              |      |      |
|      | OU STARTING                                 |              |      |      |
|      | RECTABLE ALLAVE 1ST                         |              |      |      |
|      | RECTABLE 24 1ST                             |              |      |      |
| **   | Auto-Generated Plotfiles                    |              |      |      |
|      | PLOTFILE 24 ALL 1ST PM10.AD\24H16ALL.PLT 31 |              |      |      |
|      | PLOTFILE ANNUAL ALL PM10.AD\AN006ALL.PLT 32 |              |      |      |
|      | SUMMFILE PM10.sum                           |              |      |      |
| OU   | FINISHED                                    |              |      |      |
|      |                                             |              |      |      |
|      | *****                                       |              |      |      |
| **   | SETUP Finishes Successfully ***             |              |      |      |
|      | *****                                       |              |      |      |

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*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
\Dropbox\Pomeroy Environmental Services\AERMOD ***
02/20/17
*** AERMET - VERSION 14134 *** ***
23:06:33

PAGE 1
**MODELOPTs: RegDFAULT CONC      ELEV      URBAN

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

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

**Model Uses URBAN Dispersion Algorithm for the SBL for 91
Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length =
1.000 m

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

**Other Options Specified:
TEMP_Sub - Meteorological data includes TEMP
substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: PM_10

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

**This Run Includes: 91 Source(s); 1 Source Group(s);
and 102 Receptor(s)

with: 0 POINT(s), including

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0 POINTCAP(s) and 0 POINTHOR(s)
and: 91 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 OPENPIT source(s)

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

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs Tables of Highest Short Term Values by
Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for
Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked
Values (SUMMFILE Keyword)

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =
87.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = ; Emission Rate Unit
GRAMS/SEC
Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

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

**Detailed Error/Message File: PM10.err
**File for Summary of Results: PM10.sum

```

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```

*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
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*** AERMET - VERSION 14134 *** ***
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PAGE 2
**MODELOPTs: RegDFAULT CONC      ELEV      URBAN

*** VOLUME
SOURCE DATA ***

RELEASE INIT. INIT. URBAN EMISSION RATE BASE
SOURCE PART. (GRAMS/SEC) X ELEV.
HEIGHT SY SZ SOURCE SCALAR VARY Y
ID CATS SOURCE (METERS) (METERS)
(METERS) (METERS) (METERS) BY
-----
L0000547 0 0.23429E-02 385236.0 3775433.3 110.0
0.00 18.14 0.70 YES
L0000548 0 0.23429E-02 385205.3 3775409.3 109.1
0.00 18.14 0.70 YES
L0000549 0 0.23429E-02 385174.6 3775385.2 108.2
0.00 18.14 0.70 YES
L0000550 0 0.23429E-02 385143.9 3775361.2 106.8
0.00 18.14 0.70 YES
L0000551 0 0.23429E-02 385113.2 3775337.1 105.5
0.00 18.14 0.70 YES
L0000552 0 0.23429E-02 385082.5 3775313.1 104.4
0.00 18.14 0.70 YES
L0000553 0 0.23429E-02 385051.8 3775289.1 103.2
0.00 18.14 0.70 YES
L0000554 0 0.23429E-02 385021.1 3775265.0 101.8
0.00 18.14 0.70 YES
L0000555 0 0.23429E-02 384990.3 3775241.0 100.3
0.00 18.14 0.70 YES
L0000556 0 0.23429E-02 384959.6 3775217.0 98.7
0.00 18.14 0.70 YES
L0000557 0 0.23429E-02 384929.5 3775192.2 97.1
0.00 18.14 0.70 YES
L0000558 0 0.23429E-02 384900.4 3775166.3 95.5
0.00 18.14 0.70 YES
L0000559 0 0.23429E-02 384871.3 3775140.3 93.9
0.00 18.14 0.70 YES
L0000560 0 0.23429E-02 384844.2 3775112.6 93.0
0.00 18.14 0.70 YES
L0000561 0 0.23429E-02 384821.6 3775080.8 91.9
0.00 18.14 0.70 YES

```

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```

L0000562 0 0.23429E-02 384800.9 3775047.8 91.0
0.00 18.14 0.70 YES
L0000563 0 0.23429E-02 384782.9 3775013.2 91.1
0.00 18.14 0.70 YES
L0000564 0 0.23429E-02 384764.9 3774978.6 91.1
0.00 18.14 0.70 YES
L0000565 0 0.23429E-02 384754.1 3774941.3 91.4
0.00 18.14 0.70 YES
L0000566 0 0.23429E-02 384744.7 3774903.5 92.0
0.00 18.14 0.70 YES
L0000567 0 0.23429E-02 384737.3 3774865.3 92.8
0.00 18.14 0.70 YES
L0000568 0 0.23429E-02 384733.2 3774826.5 93.5
0.00 18.14 0.70 YES
L0000569 0 0.23429E-02 384731.2 3774787.6 94.2
0.00 18.14 0.70 YES
L0000570 0 0.23429E-02 384731.2 3774748.6 94.8
0.00 18.14 0.70 YES
L0000571 0 0.23429E-02 384731.2 3774709.6 95.4
0.00 18.14 0.70 YES
L0000572 0 0.23429E-02 384731.2 3774670.6 96.0
0.00 18.14 0.70 YES
L0000573 0 0.23429E-02 384731.2 3774631.6 96.9
0.00 18.14 0.70 YES
L0000574 0 0.23429E-02 384731.2 3774592.6 97.7
0.00 18.14 0.70 YES
L0000575 0 0.36349E-04 384499.7 3774988.1 100.4
0.00 4.19 0.70 YES
L0000576 0 0.36349E-04 384508.7 3774988.9 100.1
0.00 4.19 0.70 YES
L0000577 0 0.36349E-04 384517.6 3774989.7 99.7
0.00 4.19 0.70 YES
L0000578 0 0.36349E-04 384526.6 3774990.2 99.4
0.00 4.19 0.70 YES
L0000579 0 0.36349E-04 384535.6 3774990.2 99.0
0.00 4.19 0.70 YES
L0000580 0 0.36349E-04 384544.6 3774990.2 98.7
0.00 4.19 0.70 YES
L0000581 0 0.36349E-04 384553.6 3774990.2 98.3
0.00 4.19 0.70 YES
L0000582 0 0.36349E-04 384562.6 3774990.2 97.9
0.00 4.19 0.70 YES
L0000583 0 0.36349E-04 384571.6 3774990.2 97.5
0.00 4.19 0.70 YES
L0000584 0 0.36349E-04 384580.6 3774990.2 97.1
0.00 4.19 0.70 YES
L0000585 0 0.36349E-04 384589.6 3774990.2 96.6
0.00 4.19 0.70 YES
L0000586 0 0.36349E-04 384598.6 3774990.2 96.2
0.00 4.19 0.70 YES

```

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\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Users\Brett Pomeroy  
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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

SOURCE DATA \*\*\*

\*\*\* VOLUME

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>SZ<br>(METERS) | NUMBER<br>(GRAMS/SEC) | EMISSION<br>RATE<br>X<br>SCALAR VARY<br>BY | EMISSION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |      |
|-----------------------------------------------|-------------------------|----------------------------------|-----------------------|--------------------------------------------|-----------------------------------|---------------------------|------|
| L0000587                                      | 0.00                    | 4.19                             | 0.00                  | 0.36349E-04                                | 384607.6                          | 3774990.2                 | 95.8 |
| L0000588                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384616.6                          | 3774989.9                 | 95.3 |
| L0000589                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384625.6                          | 3774989.4                 | 94.9 |
| L0000590                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384634.6                          | 3774988.9                 | 94.4 |
| L0000591                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384643.5                          | 3774988.4                 | 94.1 |
| L0000592                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384652.5                          | 3774987.9                 | 93.7 |
| L0000593                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384661.5                          | 3774987.4                 | 93.3 |
| L0000594                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384670.5                          | 3774986.9                 | 93.0 |
| L0000595                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384679.5                          | 3774986.3                 | 92.6 |
| L0000596                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384688.5                          | 3774985.8                 | 92.3 |
| L0000597                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384697.5                          | 3774985.3                 | 91.9 |
| L0000598                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384706.4                          | 3774984.6                 | 91.5 |
| L0000599                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384715.4                          | 3774983.6                 | 91.4 |
| L0000600                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384724.3                          | 3774982.6                 | 91.3 |
| L0000601                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384733.3                          | 3774981.5                 | 91.2 |

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|          |      |      |      |     |          |           |      |
|----------|------|------|------|-----|----------|-----------|------|
| L0000602 | 0.00 | 4.19 | 0.70 | YES | 384742.2 | 3774980.5 | 91.2 |
| L0000603 | 0.00 | 4.19 | 0.70 | YES | 384751.2 | 3774979.8 | 91.1 |
| L0000604 | 0.00 | 4.19 | 0.70 | YES | 384760.2 | 3774979.4 | 91.1 |
| L0000605 | 0.00 | 4.19 | 0.70 | YES | 384769.1 | 3774979.0 | 91.1 |
| L0000606 | 0.00 | 4.19 | 0.70 | YES | 384778.1 | 3774978.5 | 91.0 |
| L0000607 | 0.00 | 4.19 | 0.70 | YES | 384787.1 | 3774978.1 | 91.0 |
| L0000608 | 0.00 | 4.19 | 0.70 | YES | 384795.6 | 3774980.8 | 91.0 |
| L0000609 | 0.00 | 4.19 | 0.70 | YES | 384804.1 | 3774983.9 | 91.0 |
| L0000610 | 0.00 | 4.19 | 0.70 | YES | 384811.5 | 3774988.7 | 91.0 |
| L0000611 | 0.00 | 4.19 | 0.70 | YES | 384818.3 | 3774994.7 | 91.0 |
| L0000612 | 0.00 | 4.19 | 0.70 | YES | 384824.5 | 3775001.1 | 91.0 |
| L0000613 | 0.00 | 4.19 | 0.70 | YES | 384828.8 | 3775008.9 | 91.0 |
| L0000614 | 0.00 | 4.19 | 0.70 | YES | 384833.2 | 3775016.8 | 91.0 |
| L0000615 | 0.00 | 4.19 | 0.70 | YES | 384837.6 | 3775024.7 | 91.0 |
| L0000616 | 0.00 | 4.19 | 0.70 | YES | 384841.9 | 3775032.5 | 91.0 |
| L0000617 | 0.00 | 4.19 | 0.70 | YES | 384846.3 | 3775040.4 | 91.0 |
| L0000618 | 0.00 | 4.19 | 0.70 | YES | 384850.9 | 3775048.1 | 91.0 |
| L0000619 | 0.00 | 4.19 | 0.70 | YES | 384855.6 | 3775055.9 | 91.0 |
| L0000620 | 0.00 | 4.19 | 0.70 | YES | 384860.2 | 3775063.6 | 91.2 |
| L0000621 | 0.00 | 4.19 | 0.70 | YES | 384864.8 | 3775071.3 | 91.5 |
| L0000622 | 0.00 | 4.19 | 0.70 | YES | 384869.4 | 3775079.0 | 91.8 |
| L0000623 | 0.00 | 4.19 | 0.70 | YES | 384874.0 | 3775086.8 | 92.2 |
| L0000624 | 0.00 | 4.19 | 0.70 | YES | 384879.1 | 3775094.2 | 92.5 |
| L0000625 | 0.00 | 4.19 | 0.70 | YES | 384884.5 | 3775101.4 | 92.8 |
| L0000626 | 0.00 | 4.19 | 0.70 | YES | 384889.8 | 3775108.6 | 93.2 |

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\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Users\Brett Pomeroy  
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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

SOURCE DATA \*\*\*

\*\*\* VOLUME

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>SZ<br>(METERS) | NUMBER<br>(GRAMS/SEC) | EMISSION<br>RATE<br>X<br>SCALAR VARY<br>BY | EMISSION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |      |
|-----------------------------------------------|-------------------------|----------------------------------|-----------------------|--------------------------------------------|-----------------------------------|---------------------------|------|
| L0000627                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384895.3                          | 3775115.8                 | 93.6 |
| L0000628                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384901.1                          | 3775122.7                 | 94.0 |
| L0000629                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384906.9                          | 3775129.5                 | 94.4 |
| L0000630                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384912.7                          | 3775136.4                 | 94.8 |
| L0000631                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384918.5                          | 3775143.3                 | 95.2 |
| L0000632                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384924.3                          | 3775150.1                 | 95.6 |
| L0000633                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384930.9                          | 3775156.3                 | 96.0 |
| L0000634                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384937.6                          | 3775162.4                 | 96.3 |
| L0000635                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384944.2                          | 3775168.5                 | 96.7 |
| L0000636                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384950.8                          | 3775174.5                 | 97.2 |
| L0000637                                      | 0.00                    | 4.19                             | 0.70                  | YES                                        | 384957.4                          | 3775180.6                 | 97.6 |

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

DEFINING SOURCE GROUPS \*\*\*

\*\*\* SOURCE IDs

| SRCGROUP ID | SOURCE                           |
|-------------|----------------------------------|
| ALL         | L0000547 , L0000548 , L0000549 , |
| L0000550    | L0000551 , L0000552 , L0000553 , |
| L0000554    | L0000555 , L0000556 , L0000557 , |
| L0000558    | L0000559 , L0000560 , L0000561 , |
| L0000562    | L0000563 , L0000564 , L0000565 , |
| L0000566    | L0000567 , L0000568 , L0000569 , |
| L0000570    | L0000571 , L0000572 , L0000573 , |
| L0000574    | L0000575 , L0000576 , L0000577 , |
| L0000578    | L0000579 , L0000580 , L0000581 , |
| L0000582    | L0000583 , L0000584 , L0000585 , |
| L0000586    | L0000587 , L0000588 , L0000589 , |
| L0000590    | L0000591 , L0000592 , L0000593 , |
| L0000594    | L0000595 , L0000596 , L0000597 , |
| L0000598    | L0000599 , L0000600 , L0000601 , |
| L0000606    | L0000603 , L0000604 , L0000605 , |
| L0000610    | L0000607 , L0000608 , L0000609 , |
| L0000611    | L0000612 , L0000613 ,            |

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L0000614 , L0000615 , L0000616 , L0000617 ,  
L0000618 ,  
  
L0000622 , L0000619 , L0000620 , L0000621 ,  
L0000626 , L0000623 , L0000624 , L0000625 ,  
  
L0000630 , L0000627 , L0000628 , L0000629 ,  
L0000634 , L0000631 , L0000632 , L0000633 ,  
  
L0000635 , L0000636 , L0000637 ,

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

\*\*\* SOURCE IDs DEFINED  
  
AS URBAN SOURCES \*\*\*  
  
URBAN ID URBAN POP SOURCE  
IDS -----  
---

9862049. L0000547 , L0000548 ,  
L0000549 , L0000550 , L0000551 , L0000552 ,  
L0000553 ,  
L0000554 ,  
  
L0000555 , L0000556 , L0000557 ,  
L0000558 , L0000559 , L0000560 , L0000561 ,  
L0000562 ,  
  
L0000563 , L0000564 , L0000565 ,  
L0000566 , L0000567 , L0000568 , L0000569 ,  
L0000570 ,  
  
L0000571 , L0000572 , L0000573 ,  
L0000574 , L0000575 , L0000576 , L0000577 ,  
L0000578 ,  
  
L0000579 , L0000580 , L0000581 ,  
L0000582 , L0000583 , L0000584 , L0000585 ,  
L0000586 ,  
  
L0000587 , L0000588 , L0000589 ,  
L0000590 , L0000591 , L0000592 , L0000593 ,  
L0000594 ,  
  
L0000595 , L0000596 , L0000597 ,  
L0000598 , L0000599 , L0000600 , L0000601 ,  
L0000602 ,  
  
L0000603 , L0000604 , L0000605 ,  
L0000606 , L0000607 , L0000608 , L0000609 ,  
L0000610 ,

L0000614 , L0000611 , L0000612 , L0000613 ,  
L0000618 , L0000615 , L0000616 , L0000617 ,  
  
L0000622 , L0000619 , L0000620 , L0000621 ,  
L0000626 , L0000623 , L0000624 , L0000625 ,  
  
L0000630 , L0000627 , L0000628 , L0000629 ,  
L0000634 , L0000631 , L0000632 , L0000633 ,  
  
L0000635 , L0000636 , L0000637 ,

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

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

( 384981.6, 3774937.1, 91.0, 91.0, 0.0);  
( 384999.6, 3774937.1, 91.0, 91.0, 0.0);  
( 385017.6, 3774937.1, 91.0, 91.0, 0.0);  
( 384927.6, 3774950.1, 91.0, 91.0, 0.0);  
( 384945.6, 3774950.1, 91.0, 91.0, 0.0);  
( 384963.6, 3774950.1, 91.0, 91.0, 0.0);  
( 384981.6, 3774950.1, 91.0, 91.0, 0.0);  
( 384999.6, 3774950.1, 91.0, 91.0, 0.0);  
( 385017.6, 3774950.1, 91.0, 91.0, 0.0);  
( 384873.6, 3774963.1, 91.0, 91.0, 0.0);  
( 384891.6, 3774963.1, 91.0, 91.0, 0.0);  
( 384909.6, 3774963.1, 91.0, 91.0, 0.0);  
( 384927.6, 3774963.1, 91.0, 91.0, 0.0);  
( 384945.6, 3774963.1, 91.0, 91.0, 0.0);  
( 384963.6, 3774963.1, 91.0, 91.0, 0.0);  
( 384981.6, 3774963.1, 91.0, 91.0, 0.0);  
( 384999.6, 3774963.1, 91.0, 91.0, 0.0);  
( 385017.6, 3774963.1, 91.0, 91.0, 0.0);  
( 384837.6, 3774976.1, 91.0, 91.0, 0.0);  
( 384855.6, 3774976.1, 91.0, 91.0, 0.0);  
( 384873.6, 3774976.1, 91.0, 91.0, 0.0);  
( 384891.6, 3774976.1, 91.0, 91.0, 0.0);  
( 384909.6, 3774976.1, 91.0, 91.0, 0.0);  
( 384927.6, 3774976.1, 91.1, 91.1, 0.0);  
( 384945.6, 3774976.1, 91.1, 91.1, 0.0);  
( 384963.6, 3774976.1, 91.2, 91.2, 0.0);  
( 384981.6, 3774976.1, 91.2, 91.2, 0.0);  
( 384999.6, 3774976.1, 91.3, 91.3, 0.0);  
( 385017.6, 3774976.1, 91.3, 91.3, 0.0);  
( 384837.6, 3774989.1, 91.0, 91.0, 0.0);  
( 384855.6, 3774989.1, 91.0, 91.0, 0.0);  
( 384873.6, 3774989.1, 91.0, 91.0, 0.0);  
( 384891.6, 3774989.1, 91.1, 91.1, 0.0);  
( 384909.6, 3774989.1, 91.2, 91.2, 0.0);  
( 384927.6, 3774989.1, 91.2, 91.2, 0.0);  
( 384945.6, 3774989.1, 91.3, 91.3, 0.0);

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1.54. 3.09.

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**MODELOPTS: RegDFAULT CONC ELEV URBAN

*** UP TO THE FIRST 24 HOURS

OF METEOROLOGICAL DATA ***

Surface file: ..\cela8.sfc
Met Version: 14134
Profile file: ..\cela8.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air
station no.: 3190
Name: UNKNOWN
Year: 2006

First 24 hours of scalar data
YR MO DY JDY HR H0 U* W* DT/DZ ZICNV ZIMCH M-0 LEN
Z0 BOWEN ALBEDO REF WS WD HT REF TA HT
-----
06 01 01 1 01 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 347. 9.1 286.4 5.5
06 01 01 1 02 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 81. 9.1 286.4 5.5
06 01 01 1 03 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 66. 9.1 286.4 5.5
06 01 01 1 04 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 23. 9.1 285.9 5.5
06 01 01 1 05 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 61. 9.1 285.4 5.5
06 01 01 1 06 -6.5 0.093 -9.000 -9.000 -999. 68. 11.2
0.56 1.00 1.00 1.30 83. 9.1 285.4 5.5
06 01 01 1 07 -11.6 0.210 -9.000 -9.000 -999. 232. 71.6
0.56 1.00 1.00 1.80 64. 9.1 285.4 5.5
06 01 01 1 08 -6.0 0.093 -9.000 -9.000 -999. 77. 12.0
0.56 1.00 0.55 1.30 46. 9.1 285.4 5.5
06 01 01 1 09 26.6 0.340 0.700 0.005 474. 476. -132.1
0.56 1.00 0.32 2.20 87. 9.1 286.4 5.5
06 01 01 1 10 21.0 0.284 0.736 0.005 681. 364. -97.2
0.56 1.00 0.24 1.80 76. 9.1 286.4 5.5
06 01 01 1 11 35.8 0.230 0.921 0.005 780. 266. -30.3
0.56 1.00 0.21 1.30 66. 9.1 287.5 5.5
06 01 01 1 12 14.9 0.331 0.694 0.008 804. 458. -218.6

```

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```

0.56 1.00 0.20 2.20 79. 9.1 287.5 5.5
06 01 01 1 13 26.4 0.460 0.854 0.012 844. 749. -330.2
0.56 1.00 0.20 3.10 76. 9.1 287.5 5.5
06 01 01 1 14 39.0 0.466 0.995 0.015 902. 763. -231.5
0.56 1.00 0.21 3.10 80. 9.1 288.1 5.5
06 01 01 1 15 11.4 0.328 0.664 0.015 917. 466. -277.7
0.56 1.00 0.25 2.20 85. 9.1 287.5 5.5
06 01 01 1 16 0.1 0.445 0.137 0.015 917. 712. -8888.0
0.56 1.00 0.33 3.10 75. 9.1 287.0 5.5
06 01 01 1 17 -21.5 0.423 -9.000 -9.000 -999. 661. 315.0
0.56 1.00 0.60 3.10 82. 9.1 286.4 5.5
06 01 01 1 18 -33.6 0.332 -9.000 -9.000 -999. 464. 97.1
0.56 1.00 1.00 2.70 101. 9.1 286.4 5.5
06 01 01 1 19 -30.9 0.412 -9.000 -9.000 -999. 634. 201.9
0.56 1.00 1.00 3.10 97. 9.1 285.9 5.5
06 01 01 1 20 -34.9 0.630 -9.000 -9.000 -999. 1200. 640.4
0.56 1.00 1.00 4.50 92. 9.1 284.9 5.5
06 01 01 1 21 -47.1 0.624 -9.000 -9.000 -999. 1183. 460.9
0.56 1.00 1.00 4.50 88. 9.1 284.2 5.5
06 01 01 1 22 -62.8 0.616 -9.000 -9.000 -999. 1160. 332.6
0.56 1.00 1.00 4.50 91. 9.1 284.9 5.5
06 01 01 1 23 -61.4 0.816 -9.000 -9.000 -999. 1765. 791.1
0.56 1.00 1.00 5.80 82. 9.1 285.4 5.5
06 01 01 1 24 -45.3 0.820 -9.000 -9.000 -999. 1783. 1090.2
0.56 1.00 1.00 5.80 84. 9.1 285.9 5.5

```

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First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW
sigmaM
06 01 01 01 5.5 0 -999. -99.00 286.5
99.0 -99.00 -99.00
06 01 01 01 9.1 1 347. 0.90 -999.0
99.0 -99.00 -99.00

```

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

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PAGE 11
**MODELOPTS: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):
L0000547 , L0000548 , L0000549 , L0000550 ,
L0000551 ,
L0000552 , L0000553 , L0000554 ,
L0000555 , L0000556 , L0000557 , L0000558 ,
L0000559 ,
L0000560 , L0000561 , L0000562 ,
L0000563 , L0000564 , L0000565 , L0000566 ,
L0000567 ,
L0000568 , L0000569 , L0000570 ,
L0000571 , L0000572 , L0000573 ,
L0000574 , . . .

*** DISCRETE

CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) Y-COORD (M) CONC
X-COORD (M) Y-COORD (M) CONC
-----
384981.56 3774937.12 0.75531
384999.56 3774937.12 0.70104
385017.56 3774937.12 0.65325
384927.56 3774950.12 1.01263
384945.56 3774950.12 0.92257
384963.56 3774950.12 0.84637
384981.56 3774950.12 0.78092
384999.56 3774950.12 0.72400
385017.56 3774950.12 0.67398
384873.56 3774963.12 1.50032
384891.56 3774963.12 1.31503
384909.56 3774963.12 1.17065
384927.56 3774963.12 1.05448
384945.56 3774963.12 0.95861
384963.56 3774963.12 0.87791
384981.56 3774963.12 0.80882
384999.56 3774963.12 0.74893
385017.56 3774963.12 0.69640

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384837.56 3774976.12 2.30510
384855.56 3774976.12 1.87515
384873.56 3774976.12 1.59027
384891.56 3774976.12 1.38431
384909.56 3774976.12 1.22674
384927.56 3774976.12 1.10145
384945.56 3774976.12 0.99888
384963.56 3774976.12 0.91299
384981.56 3774976.12 0.83981
384999.56 3774976.12 0.77655
385017.56 3774976.12 0.72120
384837.56 3774989.12 2.59298
384855.56 3774989.12 2.03089
384873.56 3774989.12 1.69585
384891.56 3774989.12 1.46376
384909.56 3774989.12 1.29021
384927.56 3774989.12 1.15407
384945.56 3774989.12 1.04361
384963.56 3774989.12 0.95175
384981.56 3774989.12 0.87387
384999.56 3774989.12 0.80676
385017.56 3774989.12 0.74821
384855.56 3775002.12 2.22510
384873.56 3775002.12 1.82077
384891.56 3775002.12 1.55557
384909.56 3775002.12 1.36246
384927.56 3775002.12 1.21336
384945.56 3775002.12 1.09366
384963.56 3775002.12 0.99486
384981.56 3775002.12 0.91154
384999.56 3775002.12 0.84005
385017.56 3775002.12 0.77785
385035.56 3775002.12 0.72319
384855.56 3775015.12 2.47592
384873.56 3775015.12 1.97105
384891.56 3775015.12 1.66286
384909.56 3775015.12 1.44548
384927.56 3775015.12 1.28077
384945.56 3775015.12 1.15019
384963.56 3775015.12 1.04336
384981.56 3775015.12 0.95361
384999.56 3775015.12 0.87700
385017.56 3775015.12 0.81060
385035.56 3775015.12 0.75239
384873.56 3775028.12 2.15687
384891.56 3775028.12 1.79025
384909.56 3775028.12 1.54212
384927.56 3775028.12 1.35827
384945.56 3775028.12 1.21482
384963.56 3775028.12 1.09819
384981.56 3775028.12 1.00091
384999.56 3775028.12 0.91820

```

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|           |            |            |         |
|-----------|------------|------------|---------|
|           | 385017.56  | 3775028.12 | 0.84684 |
| 385035.56 | 3775028.12 | 0.78452    |         |
|           | 384891.56  | 3775041.12 | 1.94485 |
| 384909.56 | 3775041.12 | 1.65628    |         |
|           | 384927.56  | 3775041.12 | 1.44894 |
| 384945.56 | 3775041.12 | 1.28914    |         |
|           | 384963.56  | 3775041.12 | 1.16060 |
| 384981.56 | 3775041.12 | 1.05417    |         |
|           | 384999.56  | 3775041.12 | 0.96430 |
| 385017.56 | 3775041.12 | 0.88716    |         |

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PAGE 12  
\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES  
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL  
INCLUDING SOURCE(S):

|          |            |            |            |   |
|----------|------------|------------|------------|---|
| L0000547 | , L0000548 | , L0000549 | , L0000550 | , |
| L0000551 | ,          |            |            |   |
|          | L0000552   | , L0000553 | , L0000554 | , |
| L0000555 | , L0000556 | , L0000557 | , L0000558 | , |
| L0000559 | ,          |            |            |   |
|          | L0000560   | , L0000561 | , L0000562 | , |
| L0000563 | , L0000564 | , L0000565 | , L0000566 | , |
| L0000567 | ,          |            |            |   |
|          | L0000568   | , L0000569 | , L0000570 | , |
| L0000571 | , L0000572 | , L0000573 |            |   |
| L0000574 | , . . .    | ,          |            |   |

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN

| X-COORD (M) | Y-COORD (M) | CONC    | CONC |
|-------------|-------------|---------|------|
| 385035.56   | 3775041.12  | 0.82011 |      |
| 384927.56   | 3775054.12  | 1.55585 |      |
| 384945.56   | 3775054.12  | 1.37544 |      |
| 384963.56   | 3775054.12  | 1.23217 |      |
| 384981.56   | 3775054.12  | 1.11466 |      |
| 384999.56   | 3775054.12  | 1.01623 |      |
| 385017.56   | 3775054.12  | 0.93226 |      |
| 385035.56   | 3775054.12  | 0.85963 |      |
| 384945.56   | 3775067.12  | 1.48128 |      |
| 384963.56   | 3775067.12  | 1.31881 |      |
| 384981.56   | 3775067.12  | 1.18718 |      |
| 384999.56   | 3775067.12  | 1.07783 |      |
| 385017.56   | 3775067.12  | 0.98529 |      |
| 385035.56   | 3775067.12  | 0.90561 |      |
| 384981.56   | 3775080.12  | 1.27120 |      |
| 384999.56   | 3775080.12  | 1.14826 |      |
| 385017.56   | 3775080.12  | 1.04523 |      |
| 385035.56   | 3775080.12  | 0.95713 |      |

|           |            |            |         |
|-----------|------------|------------|---------|
|           | 384999.56  | 3775093.12 | 1.22956 |
| 385017.56 | 3775093.12 | 1.11362    |         |
| 385035.56 | 3775093.12 | 1.01544    |         |
| 385035.56 | 3775106.12 | 1.08193    |         |

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PAGE 13  
\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: ALL  
INCLUDING SOURCE(S):

|          |            |            |            |   |
|----------|------------|------------|------------|---|
| L0000547 | , L0000548 | , L0000549 | , L0000550 | , |
| L0000551 | ,          |            |            |   |
|          | L0000552   | , L0000553 | , L0000554 | , |
| L0000555 | , L0000556 | , L0000557 | , L0000558 | , |
| L0000559 | ,          |            |            |   |
|          | L0000560   | , L0000561 | , L0000562 | , |
| L0000563 | , L0000564 | , L0000565 | , L0000566 | , |
| L0000567 | ,          |            |            |   |
|          | L0000568   | , L0000569 | , L0000570 | , |
| L0000571 | , L0000572 | , L0000573 |            |   |
| L0000574 | , . . .    | ,          |            |   |

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN

| X-COORD (M) | Y-COORD (M) | CONC    | CONC (YYMMDDHH) |
|-------------|-------------|---------|-----------------|
| 384981.56   | 3774937.12  | 1.12183 | (07020924)      |
| 384999.56   | 3774937.12  | 1.04290 | (07020924)      |
| 385017.56   | 3774937.12  | 0.97323 | (07020924)      |
| 384927.56   | 3774950.12  | 1.49522 | (07020924)      |
| 384945.56   | 3774950.12  | 1.36475 | (07020924)      |
| 384963.56   | 3774950.12  | 1.25433 | (07020924)      |
| 384981.56   | 3774950.12  | 1.15939 | (07020924)      |
| 384999.56   | 3774950.12  | 1.07671 | (07020924)      |
| 385017.56   | 3774950.12  | 1.00388 | (07020924)      |
| 384873.56   | 3774963.12  | 2.21171 | (07020124)      |
| 384891.56   | 3774963.12  | 1.93290 | (07020924)      |
| 384909.56   | 3774963.12  | 1.72398 | (07020924)      |
| 384927.56   | 3774963.12  | 1.55599 | (07020924)      |
| 384945.56   | 3774963.12  | 1.41719 | (07020924)      |
| 384963.56   | 3774963.12  | 1.30035 | (07020924)      |
| 384981.56   | 3774963.12  | 1.20024 | (07020924)      |
| 384999.56   | 3774963.12  | 1.11331 | (07020924)      |

385017.56 3774963.12 1.03692 (07020924)  
384837.56 3774976.12 3.43340 (07020124)  
384855.56 3774976.12 2.78067 (07020124)  
384873.56 3774976.12 2.34571 (07020124)  
384891.56 3774976.12 2.03299 (07020924)  
384909.56 3774976.12 1.80492 (07020924)  
384927.56 3774976.12 1.62387 (07020924)  
384945.56 3774976.12 1.47552 (07020924)  
384963.56 3774976.12 1.35125 (07020924)  
384981.56 3774976.12 1.24528 (07020924)  
384999.56 3774976.12 1.15355 (07020924)  
385017.56 3774976.12 1.07314 (07020924)  
384837.56 3774989.12 3.85563 (07020124)  
384855.56 3774989.12 3.01226 (07020124)  
384873.56 3774989.12 2.50285 (07020124)  
384891.56 3774989.12 2.15102 (07020124)  
384909.56 3774989.12 1.89643 (07020924)  
384927.56 3774989.12 1.69985 (07020924)  
384945.56 3774989.12 1.54027 (07020924)  
384963.56 3774989.12 1.40742 (07020924)  
384981.56 3774989.12 1.29472 (07020924)  
384999.56 3774989.12 1.19748 (07020924)  
385017.56 3774989.12 1.11252 (07020924)  
384855.56 3775002.12 3.30004 (07020124)  
384873.56 3775002.12 2.68897 (07020124)  
384891.56 3775002.12 2.28766 (07020124)  
384909.56 3775002.12 2.00056 (07020924)  
384927.56 3775002.12 1.70539 (07020924)  
384945.56 3775002.12 1.61263 (07020924)  
384963.56 3775002.12 1.46984 (07020924)  
384981.56 3775002.12 1.34932 (07020924)  
384999.56 3775002.12 1.24580 (07020924)  
385017.56 3775002.12 1.15558 (07020924)  
385035.56 3775002.12 1.07611 (07020924)  
384855.56 3775015.12 3.67124 (07020124)  
384873.56 3775015.12 2.91368 (07020124)  
384891.56 3775015.12 2.44741 (07020124)  
384909.56 3775015.12 2.12067 (07020924)  
384927.56 3775015.12 1.88259 (07020924)  
384945.56 3775015.12 1.69416 (07020924)  
384963.56 3775015.12 1.53983 (07020924)  
384981.56 3775015.12 1.41005 (07020924)  
384999.56 3775015.12 1.29917 (07020924)  
385017.56 3775015.12 1.20288 (07020924)  
385035.56 3775015.12 1.11835 (07020924)  
384873.56 3775028.12 3.19124 (07020124)  
384891.56 3775028.12 2.63742 (07020124)  
384909.56 3775028.12 2.26365 (07020124)  
384927.56 3775028.12 1.99420 (07020924)  
384945.56 3775028.12 1.78701 (07020924)  
384963.56 3775028.12 1.61862 (07020924)  
384981.56 3775028.12 1.47809 (07020924)

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384999.56 3775028.12 1.35843 (07020924)  
385017.56 3775028.12 1.25509 (07020924)  
385035.56 3775028.12 1.16473 (07020924)  
384891.56 3775041.12 2.86884 (07020124)  
384909.56 3775041.12 2.43371 (07020124)  
384927.56 3775041.12 2.12472 (07020924)  
384945.56 3775041.12 1.89364 (07020924)  
384963.56 3775041.12 1.70820 (07020924)  
384981.56 3775041.12 1.55468 (07020924)  
384999.56 3775041.12 1.42472 (07020924)  
385017.56 3775041.12 1.31312 (07020924)

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\*\*\* 23:06:33

PAGE 14  
\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S):  
L0000547 , L0000548 , L0000549 , L0000550 ,  
L0000551 ,  
L0000552 , L0000553 , L0000554 ,  
L0000555 , L0000556 , L0000557 , L0000558 ,  
L0000559 ,  
L0000560 , L0000561 , L0000562 ,  
L0000563 , L0000564 , L0000565 , L0000566 ,  
L0000567 ,  
L0000568 , L0000569 , L0000570 ,  
L0000571 , L0000572 , L0000573 ,  
L0000574 , . . . ,

\*\*\* DISCRETE  
CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN

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

385035.56 3775041.12 1.21598 (07020924)  
384927.56 3775054.12 2.27893 (07020924)  
384945.56 3775054.12 2.01753 (07020924)  
384963.56 3775054.12 1.81099 (07020924)  
384981.56 3775054.12 1.64145 (07020924)  
384999.56 3775054.12 1.49942 (07020924)  
385017.56 3775054.12 1.37803 (07020924)  
385035.56 3775054.12 1.27286 (07020924)  
384945.56 3775067.12 2.16759 (07020924)  
384963.56 3775067.12 1.93359 (07020924)  
384981.56 3775067.12 1.74394 (07020924)  
384999.56 3775067.12 1.58655 (07020924)  
385017.56 3775067.12 1.45311 (07020924)  
385035.56 3775067.12 1.33812 (07020924)  
384981.56 3775080.12 1.86303 (07020924)  
384999.56 3775080.12 1.68651 (07020924)  
385017.56 3775080.12 1.53823 (07020924)

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385035.56 3775080.12 1.41163 (07020924)  
384999.56 3775093.12 1.80180 (07020924)  
385017.56 3775093.12 1.63558 (07020924)  
385035.56 3775093.12 1.49483 (07020924)  
385035.56 3775106.12 1.58939 (07020924)

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*** 23:06:33

PAGE 15
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE SUMMARY OF MAXIMUM
ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

** CONC OF PM10 IN
MICROGRAMS/M**3

NETWORK
GROUP ID AVERAGE CONC
RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
- - - - -
ALL 1ST HIGHEST VALUE IS 2.59298 AT ( 384837.56,
3774989.12, 91.00, 91.00, 0.00) DC
2ND HIGHEST VALUE IS 2.47592 AT ( 384855.56,
3775015.12, 91.00, 91.00, 0.00) DC
3RD HIGHEST VALUE IS 2.30510 AT ( 384837.56,
3774976.12, 91.00, 91.00, 0.00) DC
4TH HIGHEST VALUE IS 2.22510 AT ( 384855.56,
3775002.12, 91.00, 91.00, 0.00) DC
5TH HIGHEST VALUE IS 2.15687 AT ( 384873.56,
3775028.12, 91.09, 91.09, 0.00) DC
6TH HIGHEST VALUE IS 2.03089 AT ( 384855.56,
3774989.12, 91.00, 91.00, 0.00) DC
7TH HIGHEST VALUE IS 1.97105 AT ( 384873.56,
3775015.12, 91.07, 91.07, 0.00) DC
8TH HIGHEST VALUE IS 1.94485 AT ( 384891.56,
3775041.12, 91.30, 91.30, 0.00) DC
9TH HIGHEST VALUE IS 1.87515 AT ( 384855.56,
3774976.12, 91.00, 91.00, 0.00) DC
10TH HIGHEST VALUE IS 1.82077 AT ( 384873.56,
3775002.12, 91.05, 91.05, 0.00) DC

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

```

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*** AERMET - VERSION 14134 *** ***
*** 23:06:33

PAGE 16
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE SUMMARY
OF HIGHEST 24-HR RESULTS ***

** CONC OF PM10 IN
MICROGRAMS/M**3

NETWORK
GROUP ID AVERAGE CONC DATE
RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID (YYMMDDHH)
- - - - -
ALL HIGH 1ST HIGH VALUE IS 3.85563 ON 07020124: AT
( 384837.56, 3774989.12, 91.00, 91.00, 0.00) DC

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

```

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```

*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
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*** AERMET - VERSION 14134 *** ***
*** 23:06:33

PAGE 17
**MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 756 Informational Message(s)

A Total of 43800 Hours Were Processed

A Total of 4 Calm Hours Identified

A Total of 752 Missing Hours Identified ( 1.72
Percent)

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

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

*****
*** AERMOD Finishes Successfully ***
*****

```

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**
*****
** AERMOD Input Produced by:
** AERMOD View Ver. 9.2.0
** Lakes Environmental Software Inc.
** Date: 2/20/2017
** File: C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD\Casitas HRA\PM25\PM25.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Brett Pomeroy\Dropbox\Pomeroy Environmental
Services\AERMOD
  MODELOPT DEFAULT CONC
  AVERTIME 24 ANNUAL
  URBANOPT 9862049
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL PM25.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Glendale Fwy
** PREFIX
** Length of Side = 39.00
** Configuration = Adjacent
** Emission Rate = 0.0275
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 8
** 385251.397, 3775445.306, 109.99, 0.00, 18.14
** 384940.062, 3775201.653, 96.19, 0.00, 18.14

```

1

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** 384851.110, 3775122.369, 91.17, 0.00, 18.14
** 384808.567, 3775062.423, 91.08, 0.00, 18.14
** 384762.157, 3774973.470, 91.05, 0.00, 18.14
** 384738.952, 3774880.650, 92.94, 0.00, 18.14
** 384731.217, 3774807.167, 94.35, 0.00, 18.14
** 384731.217, 3774569.315, 98.20, 0.00, 18.14
-----
LOCATION L0000638 VOLUME 385236.040 3775433.288 110.00
LOCATION L0000639 VOLUME 385205.328 3775409.252 109.11
LOCATION L0000640 VOLUME 385174.615 3775385.216 108.17
LOCATION L0000641 VOLUME 385143.902 3775361.180 106.85
LOCATION L0000642 VOLUME 385113.190 3775337.144 105.53
LOCATION L0000643 VOLUME 385082.477 3775313.108 104.37
LOCATION L0000644 VOLUME 385051.764 3775289.072 103.22
LOCATION L0000645 VOLUME 385021.052 3775265.036 101.85
LOCATION L0000646 VOLUME 384990.339 3775241.000 100.27
LOCATION L0000647 VOLUME 384959.626 3775216.964 98.73
LOCATION L0000648 VOLUME 384929.494 3775192.233 97.09
LOCATION L0000649 VOLUME 384900.380 3775166.284 95.49
LOCATION L0000650 VOLUME 384871.266 3775140.334 93.88
LOCATION L0000651 VOLUME 384844.165 3775112.583 92.99
LOCATION L0000652 VOLUME 384821.594 3775080.779 91.93
LOCATION L0000653 VOLUME 384800.939 3775047.802 91.00
LOCATION L0000654 VOLUME 384782.899 3775013.225 91.06
LOCATION L0000655 VOLUME 384764.858 3774978.648 91.08
LOCATION L0000656 VOLUME 384754.115 3774941.361 91.36
LOCATION L0000657 VOLUME 384744.656 3774903.465 92.02
LOCATION L0000658 VOLUME 384737.331 3774865.252 92.76
LOCATION L0000659 VOLUME 384733.248 3774826.467 93.51
LOCATION L0000660 VOLUME 384731.217 3774787.573 94.25
LOCATION L0000661 VOLUME 384731.217 3774748.573 94.82
LOCATION L0000662 VOLUME 384731.217 3774709.573 95.37
LOCATION L0000663 VOLUME 384731.217 3774670.573 96.05
LOCATION L0000664 VOLUME 384731.217 3774631.573 96.89
LOCATION L0000665 VOLUME 384731.217 3774592.573 97.73
** End of LINE VOLUME Source ID = SLINE1
**
-----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Fletcher Ramp
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 0.00097
** Elevated
** Vertical Dimension = 3.00
** SZINIT = 0.70
** Nodes = 13
** 384495.216, 3774987.675, 99.50, 0.00, 4.19
** 384523.422, 3774990.239, 98.24, 0.00, 4.19

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2

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** 384609.962, 3774990.239, 94.68, 0.00, 4.19
** 384701.631, 3774985.111, 91.27, 0.00, 4.19
** 384747.145, 3774979.982, 91.29, 0.00, 4.19
** 384788.172, 3774978.059, 91.02, 0.00, 4.19
** 384807.403, 3774985.111, 91.05, 0.00, 4.19
** 384823.429, 3774999.214, 91.07, 0.00, 4.19
** 384845.865, 3775039.599, 91.00, 0.00, 4.19
** 384875.448, 3775089.231, 91.12, 0.00, 4.19
** 384893.975, 3775114.243, 91.31, 0.00, 4.19
** 384924.545, 3775150.371, 95.25, 0.00, 4.19
** 384959.747, 3775182.793, 96.84, 0.00, 4.19
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LOCATION L0000666 VOLUME 384499.698 3774988.082 100.42
LOCATION L0000667 VOLUME 384508.661 3774988.897 100.08
LOCATION L0000668 VOLUME 384517.624 3774989.712 99.74
LOCATION L0000669 VOLUME 384526.600 3774990.239 99.40
LOCATION L0000670 VOLUME 384535.600 3774990.239 99.05
LOCATION L0000671 VOLUME 384544.600 3774990.239 98.70
LOCATION L0000672 VOLUME 384553.600 3774990.239 98.35
LOCATION L0000673 VOLUME 384562.600 3774990.239 97.94
LOCATION L0000674 VOLUME 384571.600 3774990.239 97.50
LOCATION L0000675 VOLUME 384580.600 3774990.239 97.06
LOCATION L0000676 VOLUME 384589.600 3774990.239 96.62
LOCATION L0000677 VOLUME 384598.600 3774990.239 96.19
LOCATION L0000678 VOLUME 384607.600 3774990.239 95.75
LOCATION L0000679 VOLUME 384616.590 3774989.868 95.31
LOCATION L0000680 VOLUME 384625.576 3774989.366 94.86
LOCATION L0000681 VOLUME 384634.562 3774988.863 94.43
LOCATION L0000682 VOLUME 384643.547 3774988.360 94.07
LOCATION L0000683 VOLUME 384652.533 3774987.857 93.71
LOCATION L0000684 VOLUME 384661.519 3774987.355 93.35
LOCATION L0000685 VOLUME 384670.505 3774986.852 92.99
LOCATION L0000686 VOLUME 384679.491 3774986.349 92.63
LOCATION L0000687 VOLUME 384688.477 3774985.847 92.27
LOCATION L0000688 VOLUME 384697.463 3774985.344 91.91
LOCATION L0000689 VOLUME 384706.426 3774984.841 91.55
LOCATION L0000690 VOLUME 384715.370 3774984.338 91.19
LOCATION L0000691 VOLUME 384724.313 3774983.835 90.83
LOCATION L0000692 VOLUME 384733.257 3774983.332 90.47
LOCATION L0000693 VOLUME 384742.200 3774982.829 90.11
LOCATION L0000694 VOLUME 384751.164 3774982.326 89.75
LOCATION L0000695 VOLUME 384760.154 3774981.823 89.39
LOCATION L0000696 VOLUME 384769.145 3774981.320 89.03
LOCATION L0000697 VOLUME 384778.135 3774980.817 88.67
LOCATION L0000698 VOLUME 384787.125 3774980.314 88.31
LOCATION L0000699 VOLUME 384795.638 3774979.811 87.95
LOCATION L0000700 VOLUME 384804.087 3774979.308 87.59
LOCATION L0000701 VOLUME 384811.508 3774988.723 91.00
LOCATION L0000702 VOLUME 384818.265 3774994.669 91.00
LOCATION L0000703 VOLUME 384824.459 3775001.068 91.00
LOCATION L0000704 VOLUME 384828.830 3775008.935 91.00

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3

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LOCATION L0000705 VOLUME 384833.201 3775016.803 91.00
LOCATION L0000706 VOLUME 384837.571 3775024.670 91.00
LOCATION L0000707 VOLUME 384841.942 3775032.537 91.00
LOCATION L0000708 VOLUME 384846.337 3775040.391 91.00
LOCATION L0000709 VOLUME 384850.945 3775048.122 91.00
LOCATION L0000710 VOLUME 384855.553 3775055.853 91.00
LOCATION L0000711 VOLUME 384860.161 3775063.583 91.25
LOCATION L0000712 VOLUME 384864.769 3775071.314 91.49
LOCATION L0000713 VOLUME 384869.377 3775079.045 91.82
LOCATION L0000714 VOLUME 384873.985 3775086.776 92.16
LOCATION L0000715 VOLUME 384879.104 3775094.167 92.50
LOCATION L0000716 VOLUME 384884.461 3775101.399 92.85
LOCATION L0000717 VOLUME 384889.818 3775108.631 93.22
LOCATION L0000718 VOLUME 384895.277 3775115.782 93.59
LOCATION L0000719 VOLUME 384901.091 3775122.652 93.98
LOCATION L0000720 VOLUME 384906.904 3775129.523 94.37
LOCATION L0000721 VOLUME 384912.710 3775136.393 94.78
LOCATION L0000722 VOLUME 384918.531 3775143.264 95.19
LOCATION L0000723 VOLUME 384924.345 3775150.134 95.60
LOCATION L0000724 VOLUME 384930.937 3775156.258 95.97
LOCATION L0000725 VOLUME 384937.557 3775162.355 96.34
LOCATION L0000726 VOLUME 384944.177 3775168.453 96.73
LOCATION L0000727 VOLUME 384950.797 3775174.550 97.16
LOCATION L0000728 VOLUME 384957.417 3775180.647 97.58
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
SRCPARAM L0000638 0.0009821429 0.00 18.14
0.70
SRCPARAM L0000639 0.0009821429 0.00 18.14
0.70
SRCPARAM L0000640 0.0009821429 0.00 18.14
0.70
SRCPARAM L0000641 0.0009821429 0.00 18.14
0.70
SRCPARAM L0000642 0.0009821429 0.00 18.14
0.70
SRCPARAM L0000643 0.0009821429 0.00 18.14
0.70
SRCPARAM L0000644 0.0009821429 0.00 18.14
0.70
SRCPARAM L0000645 0.0009821429 0.00 18.14
0.70
SRCPARAM L0000646 0.0009821429 0.00 18.14
0.70
SRCPARAM L0000647 0.0009821429 0.00 18.14
0.70
SRCPARAM L0000648 0.0009821429 0.00 18.14
0.70
SRCPARAM L0000649 0.0009821429 0.00 18.14
0.70
SRCPARAM L0000650 0.0009821429 0.00 18.14

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4

0.70  
SRCPARAM L0000651 0.0009821429 0.00 18.14  
0.70  
SRCPARAM L0000652 0.0009821429 0.00 18.14  
0.70  
SRCPARAM L0000653 0.0009821429 0.00 18.14  
0.70  
SRCPARAM L0000654 0.0009821429 0.00 18.14  
0.70  
SRCPARAM L0000655 0.0009821429 0.00 18.14  
0.70  
SRCPARAM L0000656 0.0009821429 0.00 18.14  
0.70  
SRCPARAM L0000657 0.0009821429 0.00 18.14  
0.70  
SRCPARAM L0000658 0.0009821429 0.00 18.14  
0.70  
SRCPARAM L0000659 0.0009821429 0.00 18.14  
0.70  
SRCPARAM L0000660 0.0009821429 0.00 18.14  
0.70  
SRCPARAM L0000661 0.0009821429 0.00 18.14  
0.70  
SRCPARAM L0000662 0.0009821429 0.00 18.14  
0.70  
SRCPARAM L0000663 0.0009821429 0.00 18.14  
0.70  
SRCPARAM L0000664 0.0009821429 0.00 18.14  
0.70  
SRCPARAM L0000665 0.0009821429 0.00 18.14  
0.70

\*\* -----  
\*\* LINE VOLUME Source ID = SLINE2  
SRCPARAM L0000666 0.0000153968 0.00 4.19  
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SRCPARAM L0000667 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000668 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000669 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000670 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000671 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000672 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000673 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000674 0.0000153968 0.00 4.19  
0.70

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SRCPARAM L0000675 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000676 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000677 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000678 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000679 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000680 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000681 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000682 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000683 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000684 0.0000153968 0.00 4.19  
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SRCPARAM L0000685 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000686 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000687 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000688 0.0000153968 0.00 4.19  
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SRCPARAM L0000689 0.0000153968 0.00 4.19  
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SRCPARAM L0000690 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000691 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000692 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000693 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000694 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000695 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000696 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000697 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000698 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000699 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000700 0.0000153968 0.00 4.19  
0.70

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SRCPARAM L0000701 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000702 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000703 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000704 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000705 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000706 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000707 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000708 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000709 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000710 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000711 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000712 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000713 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000714 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000715 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000716 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000717 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000718 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000719 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000720 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000721 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000722 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000723 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000724 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000725 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000726 0.0000153968 0.00 4.19  
0.70

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SRCPARAM L0000727 0.0000153968 0.00 4.19  
0.70  
SRCPARAM L0000728 0.0000153968 0.00 4.19  
0.70  
\*\* -----  
URBANSRC ALL  
SRCGROUP ALL  
SO FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Receptor Pathway  
\*\*\*\*\*  
\*\*  
RE STARTING  
INCLUDED PM25.rou  
RE FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*  
ME STARTING  
SURFFILE ..\cela8.sfc  
PROFFILE ..\cela8.PFL  
SURFDATA 0 2006  
UAIRDATA 3190 2006  
SITEDATA 99999 2006  
PROFBASE 87.0 METERS  
ME FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*  
OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST PM25.AD\24H16ALL.PLT 31  
PLOTFILE ANNUAL ALL PM25.AD\AN006ALL.PLT 32  
SUMMFILE PM25.sum  
OU FINISHED  
\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

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*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
\Dropbox\Pomeroy Environmental Services\AERMOD ***
02/20/17
*** AERMET - VERSION 14134 *** ***
23:20:18

PAGE 1
**MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

**Model Uses URBAN Dispersion Algorithm for the SBL for 91
Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9862049.0 ; Urban Roughness Length =
1.000 m

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

**Other Options Specified:
TEMP_Sub - Meteorological data includes TEMP
substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: PM_2.5

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

**This Run Includes: 91 Source(s); 1 Source Group(s);
and 102 Receptor(s)

with: 0 POINT(s), including

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0 POINTCAP(s) and 0 POINTHOR(s)
and: 91 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 OPENPIT source(s)

```

```

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

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs Tables of Highest Short Term Values by
Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for
Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked
Values (SUMMFILE Keyword)

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =
87.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = ; Emission Rate Unit
GRAMS/SEC
Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

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

**Detailed Error/Message File: PM25.err
**File for Summary of Results: PM25.sum

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*** AERMOD - VERSION 15181 *** *** C:\Users\Brett Pomeroy
\Dropbox\Pomeroy Environmental Services\AERMOD ***
02/20/17
*** AERMET - VERSION 14134 *** ***
23:20:18

PAGE 2
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** VOLUME
SOURCE DATA ***
-----
RELEASE INIT. INIT. URBAN EMISSION RATE BASE
SOURCE PART. (GRAMS/SEC) X ELEV.
HEIGHT SY SZ SOURCE SCALAR VARY Y
ID CATS SOURCE (METERS) (METERS)
(METERS) (METERS) (METERS) BY
-----
L0000638 0 0.98214E-03 385236.0 3775433.3 110.0
0.00 18.14 0.70 YES
L0000639 0 0.98214E-03 385205.3 3775409.3 109.1
0.00 18.14 0.70 YES
L0000640 0 0.98214E-03 385174.6 3775385.2 108.2
0.00 18.14 0.70 YES
L0000641 0 0.98214E-03 385143.9 3775361.2 106.8
0.00 18.14 0.70 YES
L0000642 0 0.98214E-03 385113.2 3775337.1 105.5
0.00 18.14 0.70 YES
L0000643 0 0.98214E-03 385082.5 3775313.1 104.4
0.00 18.14 0.70 YES
L0000644 0 0.98214E-03 385051.8 3775289.1 103.2
0.00 18.14 0.70 YES
L0000645 0 0.98214E-03 385021.1 3775265.0 101.8
0.00 18.14 0.70 YES
L0000646 0 0.98214E-03 384990.3 3775241.0 100.3
0.00 18.14 0.70 YES
L0000647 0 0.98214E-03 384959.6 3775217.0 98.7
0.00 18.14 0.70 YES
L0000648 0 0.98214E-03 384929.5 3775192.2 97.1
0.00 18.14 0.70 YES
L0000649 0 0.98214E-03 384900.4 3775166.3 95.5
0.00 18.14 0.70 YES
L0000650 0 0.98214E-03 384871.3 3775140.3 93.9
0.00 18.14 0.70 YES
L0000651 0 0.98214E-03 384844.2 3775112.6 93.0
0.00 18.14 0.70 YES
L0000652 0 0.98214E-03 384821.6 3775080.8 91.9
0.00 18.14 0.70 YES

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L0000653 0 0.98214E-03 384800.9 3775047.8 91.0
0.00 18.14 0.70 YES
L0000654 0 0.98214E-03 384782.9 3775013.2 91.1
0.00 18.14 0.70 YES
L0000655 0 0.98214E-03 384764.9 3774978.6 91.1
0.00 18.14 0.70 YES
L0000656 0 0.98214E-03 384754.1 3774941.3 91.4
0.00 18.14 0.70 YES
L0000657 0 0.98214E-03 384744.7 3774903.5 92.0
0.00 18.14 0.70 YES
L0000658 0 0.98214E-03 384737.3 3774865.3 92.8
0.00 18.14 0.70 YES
L0000659 0 0.98214E-03 384733.2 3774826.5 93.5
0.00 18.14 0.70 YES
L0000660 0 0.98214E-03 384731.2 3774787.6 94.2
0.00 18.14 0.70 YES
L0000661 0 0.98214E-03 384731.2 3774748.6 94.8
0.00 18.14 0.70 YES
L0000662 0 0.98214E-03 384731.2 3774709.6 95.4
0.00 18.14 0.70 YES
L0000663 0 0.98214E-03 384731.2 3774670.6 96.0
0.00 18.14 0.70 YES
L0000664 0 0.98214E-03 384731.2 3774631.6 96.9
0.00 18.14 0.70 YES
L0000665 0 0.98214E-03 384731.2 3774592.6 97.7
0.00 18.14 0.70 YES
L0000666 0 0.15397E-04 384499.7 3774988.1 100.4
0.00 4.19 0.70 YES
L0000667 0 0.15397E-04 384508.7 3774988.9 100.1
0.00 4.19 0.70 YES
L0000668 0 0.15397E-04 384517.6 3774989.7 99.7
0.00 4.19 0.70 YES
L0000669 0 0.15397E-04 384526.6 3774990.2 99.4
0.00 4.19 0.70 YES
L0000670 0 0.15397E-04 384535.6 3774990.2 99.0
0.00 4.19 0.70 YES
L0000671 0 0.15397E-04 384544.6 3774990.2 98.7
0.00 4.19 0.70 YES
L0000672 0 0.15397E-04 384553.6 3774990.2 98.3
0.00 4.19 0.70 YES
L0000673 0 0.15397E-04 384562.6 3774990.2 97.9
0.00 4.19 0.70 YES
L0000674 0 0.15397E-04 384571.6 3774990.2 97.5
0.00 4.19 0.70 YES
L0000675 0 0.15397E-04 384580.6 3774990.2 97.1
0.00 4.19 0.70 YES
L0000676 0 0.15397E-04 384589.6 3774990.2 96.6
0.00 4.19 0.70 YES
L0000677 0 0.15397E-04 384598.6 3774990.2 96.2
0.00 4.19 0.70 YES

```

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\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Users\Brett Pomeroy  
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\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
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PAGE 3  
\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

SOURCE DATA \*\*\*

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>CATS.<br>(METERS) | NUMBER<br>EMISION<br>RATE<br>(GRAMS/SEC)<br>SZ<br>(METERS) | URBAN<br>EMISION<br>RATE<br>X<br>SCALAR VARY<br>(METERS)<br>BY | EMISION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |      |
|-----------------------------------------------|-------------------------|-------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|----------------------------------|---------------------------|------|
| L0000678                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384607.6                         | 3774990.2                 | 95.8 |
| L0000679                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384616.6                         | 3774989.9                 | 95.3 |
| L0000680                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384625.6                         | 3774989.4                 | 94.9 |
| L0000681                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384634.6                         | 3774988.9                 | 94.4 |
| L0000682                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384643.5                         | 3774988.4                 | 94.1 |
| L0000683                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384652.5                         | 3774987.9                 | 93.7 |
| L0000684                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384661.5                         | 3774987.4                 | 93.3 |
| L0000685                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384670.5                         | 3774986.9                 | 93.0 |
| L0000686                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384679.5                         | 3774986.3                 | 92.6 |
| L0000687                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384688.5                         | 3774985.8                 | 92.3 |
| L0000688                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384697.5                         | 3774985.3                 | 91.9 |
| L0000689                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384706.4                         | 3774984.6                 | 91.5 |
| L0000690                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384715.4                         | 3774983.6                 | 91.4 |
| L0000691                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384724.3                         | 3774982.6                 | 91.3 |
| L0000692                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384733.3                         | 3774981.5                 | 91.2 |

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|          |      |      |     |             |          |           |      |
|----------|------|------|-----|-------------|----------|-----------|------|
| L0000693 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384742.2 | 3774980.5 | 91.2 |
| L0000694 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384751.2 | 3774979.8 | 91.1 |
| L0000695 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384760.2 | 3774979.4 | 91.1 |
| L0000696 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384769.1 | 3774979.0 | 91.1 |
| L0000697 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384778.1 | 3774978.5 | 91.0 |
| L0000698 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384787.1 | 3774978.1 | 91.0 |
| L0000699 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384795.6 | 3774980.8 | 91.0 |
| L0000700 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384804.1 | 3774983.9 | 91.0 |
| L0000701 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384811.5 | 3774988.7 | 91.0 |
| L0000702 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384818.3 | 3774994.7 | 91.0 |
| L0000703 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384824.5 | 3775001.1 | 91.0 |
| L0000704 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384828.8 | 3775008.9 | 91.0 |
| L0000705 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384833.2 | 3775016.8 | 91.0 |
| L0000706 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384837.6 | 3775024.7 | 91.0 |
| L0000707 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384841.9 | 3775032.5 | 91.0 |
| L0000708 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384846.3 | 3775040.4 | 91.0 |
| L0000709 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384850.9 | 3775048.1 | 91.0 |
| L0000710 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384855.6 | 3775055.9 | 91.0 |
| L0000711 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384860.2 | 3775063.6 | 91.2 |
| L0000712 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384864.8 | 3775071.3 | 91.5 |
| L0000713 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384869.4 | 3775079.0 | 91.8 |
| L0000714 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384874.0 | 3775086.8 | 92.2 |
| L0000715 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384879.1 | 3775094.2 | 92.5 |
| L0000716 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384884.5 | 3775101.4 | 92.8 |
| L0000717 | 0.00 | 4.19 | 0.0 | 0.15397E-04 | 384889.8 | 3775108.6 | 93.2 |

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

SOURCE DATA \*\*\*

| RELEASE<br>SOURCE<br>HEIGHT<br>ID<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>PART.<br>CATS.<br>(METERS) | NUMBER<br>EMISION<br>RATE<br>(GRAMS/SEC)<br>SZ<br>(METERS) | URBAN<br>EMISION<br>RATE<br>X<br>SCALAR VARY<br>(METERS)<br>BY | EMISION<br>RATE<br>Y<br>(METERS) | BASE<br>ELEV.<br>(METERS) |      |
|-----------------------------------------------|-------------------------|-------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|----------------------------------|---------------------------|------|
| L0000718                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384895.3                         | 3775115.8                 | 93.6 |
| L0000719                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384901.1                         | 3775122.7                 | 94.0 |
| L0000720                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384906.9                         | 3775129.5                 | 94.4 |
| L0000721                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384912.7                         | 3775136.4                 | 94.8 |
| L0000722                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384918.5                         | 3775143.3                 | 95.2 |
| L0000723                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384924.3                         | 3775150.1                 | 95.6 |
| L0000724                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384930.9                         | 3775156.3                 | 96.0 |
| L0000725                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384937.6                         | 3775162.4                 | 96.3 |
| L0000726                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384944.2                         | 3775168.5                 | 96.7 |
| L0000727                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384950.8                         | 3775174.5                 | 97.2 |
| L0000728                                      | 0.00                    | 4.19                                | 0.0                                                        | 0.15397E-04                                                    | 384957.4                         | 3775180.6                 | 97.6 |

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

DEFINING SOURCE GROUPS \*\*\*

| SRCGROUP ID<br>IDS | SOURCE                           |
|--------------------|----------------------------------|
| ALL                | L0000638 , L0000639 , L0000640 , |
| L0000641           | L0000642 , L0000643 , L0000644 , |
| L0000645           | L0000646 , L0000647 , L0000648 , |
| L0000649           | L0000650 , L0000651 , L0000652 , |
| L0000653           | L0000654 , L0000655 , L0000656 , |
| L0000657           | L0000658 , L0000659 , L0000660 , |
| L0000661           | L0000662 , L0000663 , L0000664 , |
| L0000665           | L0000666 , L0000667 , L0000668 , |
| L0000669           | L0000670 , L0000671 , L0000672 , |
| L0000673           | L0000674 , L0000675 , L0000676 , |
| L0000677           | L0000678 , L0000679 , L0000680 , |
| L0000681           | L0000682 , L0000683 , L0000684 , |
| L0000685           | L0000686 , L0000687 , L0000688 , |
| L0000689           | L0000690 , L0000691 , L0000692 , |
| L0000693           | L0000694 , L0000695 , L0000696 , |
| L0000697           | L0000698 , L0000699 , L0000700 , |
| L0000701           | L0000702 , L0000703 , L0000704 , |

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L0000705 , L0000706 , L0000707 , L0000708 ,  
L0000709 ,  
L0000710 , L0000711 , L0000712 ,  
L0000713 , L0000714 , L0000715 , L0000716 ,  
L0000717 ,  
L0000718 , L0000719 , L0000720 ,  
L0000721 , L0000722 , L0000723 , L0000724 ,  
L0000725 ,  
L0000726 , L0000727 , L0000728 ,

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* SOURCE IDs DEFINED

| URBAN ID<br>IDS                  | URBAN POP                                    | SOURCE                                       |
|----------------------------------|----------------------------------------------|----------------------------------------------|
| L0000640<br>L0000644<br>L0000645 | 9862049.<br>L0000641<br>L0000642<br>L0000643 | L0000638<br>L0000642<br>L0000643<br>L0000639 |
| L0000649<br>L0000653             | L0000646<br>L0000650<br>L0000651<br>L0000647 | L0000648<br>L0000652<br>L0000651<br>L0000648 |
| L0000657<br>L0000661             | L0000654<br>L0000658<br>L0000655<br>L0000659 | L0000656<br>L0000660<br>L0000655<br>L0000659 |
| L0000665<br>L0000669             | L0000662<br>L0000666<br>L0000663<br>L0000667 | L0000664<br>L0000668<br>L0000663<br>L0000667 |
| L0000673<br>L0000677             | L0000670<br>L0000674<br>L0000671<br>L0000675 | L0000672<br>L0000676<br>L0000671<br>L0000675 |
| L0000681<br>L0000685             | L0000678<br>L0000682<br>L0000679<br>L0000683 | L0000680<br>L0000684<br>L0000679<br>L0000683 |
| L0000689<br>L0000693             | L0000686<br>L0000690<br>L0000687<br>L0000691 | L0000688<br>L0000692<br>L0000687<br>L0000691 |
| L0000697<br>L0000701             | L0000694<br>L0000698<br>L0000695<br>L0000699 | L0000696<br>L0000700<br>L0000695<br>L0000699 |

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L0000705 , L0000702 , L0000703 , L0000704 ,  
L0000709 , L0000706 , L0000707 , L0000708 ,  
L0000710 , L0000711 , L0000712 ,  
L0000713 , L0000714 , L0000715 , L0000716 ,  
L0000717 ,  
L0000718 , L0000719 , L0000720 ,  
L0000721 , L0000722 , L0000723 , L0000724 ,  
L0000725 ,  
L0000726 , L0000727 , L0000728 ,

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* DISCRETE

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

(METERS)

|                        |       |       |       |
|------------------------|-------|-------|-------|
| ( 384981.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774937.1, | 91.0, | 91.0, | 0.0); |
| ( 384927.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384945.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384963.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384981.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774950.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384909.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384927.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384945.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384963.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384981.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384999.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 385017.6, 3774963.1, | 91.0, | 91.0, | 0.0); |
| ( 384837.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384855.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384909.6, 3774976.1, | 91.1, | 91.1, | 0.0); |
| ( 384927.6, 3774976.1, | 91.1, | 91.1, | 0.0); |
| ( 384945.6, 3774976.1, | 91.2, | 91.2, | 0.0); |
| ( 384963.6, 3774976.1, | 91.2, | 91.2, | 0.0); |
| ( 384981.6, 3774976.1, | 91.3, | 91.3, | 0.0); |
| ( 384999.6, 3774976.1, | 91.3, | 91.3, | 0.0); |
| ( 385017.6, 3774976.1, | 91.0, | 91.0, | 0.0); |
| ( 384837.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384855.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384873.6, 3774989.1, | 91.0, | 91.0, | 0.0); |
| ( 384891.6, 3774989.1, | 91.1, | 91.1, | 0.0); |
| ( 384909.6, 3774989.1, | 91.2, | 91.2, | 0.0); |
| ( 384927.6, 3774989.1, | 91.2, | 91.2, | 0.0); |
| ( 384945.6, 3774989.1, | 91.3, | 91.3, | 0.0); |

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```
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**MODELOPTs:  RegDEFAULT CONC      ELEV      URBAN

*** UP TO THE FIRST 24 HOURS

OF METEOROLOGICAL DATA ***

  Surface file:  ..\cela8.sfc
Met Version: 14134
  Profile file:  ..\cela8.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:      0      Upper air
station no.: 3190
Name: UNKNOWN
Year: 2006

First 24 hours of scalar data
YR MO DY JDY HR H0 U* W* DT/DZ ZICNV ZIMCH M-0 LEN
Z0 BOWEN ALBEDO REF WS WD HT REF TA HT
-----
06 01 01 1 01 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 347. 9.1 286.4 5.5
06 01 01 1 02 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 81. 9.1 286.4 5.5
06 01 01 1 03 -2.3 0.065 -9.000 -9.000 -999. 39. 10.5
0.56 1.00 1.00 0.90 66. 9.1 286.4 5.5
06 01 01 1 04 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 23. 9.1 285.9 5.5
06 01 01 1 05 -5.6 0.093 -9.000 -9.000 -999. 68. 13.0
0.56 1.00 1.00 1.30 61. 9.1 285.4 5.5
06 01 01 1 06 -6.5 0.093 -9.000 -9.000 -999. 68. 11.2
0.56 1.00 1.00 1.30 83. 9.1 285.4 5.5
06 01 01 1 07 -11.6 0.210 -9.000 -9.000 -999. 232. 71.6
0.56 1.00 1.00 1.80 64. 9.1 285.4 5.5
06 01 01 1 08 -6.0 0.093 -9.000 -9.000 -999. 77. 12.0
0.56 1.00 0.55 1.30 46. 9.1 285.4 5.5
06 01 01 1 09 26.6 0.340 0.700 0.005 474. 476. -132.1
0.56 1.00 0.32 2.20 87. 9.1 286.4 5.5
06 01 01 1 10 21.0 0.284 0.736 0.005 681. 364. -97.2
0.56 1.00 0.24 1.80 76. 9.1 286.4 5.5
06 01 01 1 11 35.8 0.230 0.921 0.005 780. 266. -30.3
0.56 1.00 0.21 1.30 66. 9.1 287.5 5.5
06 01 01 1 12 14.9 0.331 0.694 0.008 804. 458. -218.6
```

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```
0.56 1.00 0.20 2.20 79. 9.1 287.5 5.5
06 01 01 1 13 26.4 0.460 0.854 0.012 844. 749. -330.2
0.56 1.00 0.20 3.10 76. 9.1 287.5 5.5
06 01 01 1 14 39.0 0.466 0.995 0.015 902. 763. -231.5
0.56 1.00 0.21 3.10 80. 9.1 288.1 5.5
06 01 01 1 15 11.4 0.328 0.664 0.015 917. 466. -277.7
0.56 1.00 0.25 2.20 85. 9.1 287.5 5.5
06 01 01 1 16 0.1 0.445 0.137 0.015 917. 712. -8888.0
0.56 1.00 0.33 3.10 75. 9.1 287.0 5.5
06 01 01 1 17 -21.5 0.423 -9.000 -9.000 -999. 661. 315.0
0.56 1.00 0.60 3.10 82. 9.1 286.4 5.5
06 01 01 1 18 -33.6 0.332 -9.000 -9.000 -999. 464. 97.1
0.56 1.00 1.00 2.70 101. 9.1 286.4 5.5
06 01 01 1 19 -30.9 0.412 -9.000 -9.000 -999. 634. 201.9
0.56 1.00 1.00 3.10 97. 9.1 285.9 5.5
06 01 01 1 20 -34.9 0.630 -9.000 -9.000 -999. 1200. 640.4
0.56 1.00 1.00 4.50 92. 9.1 284.9 5.5
06 01 01 1 21 -47.1 0.624 -9.000 -9.000 -999. 1183. 460.9
0.56 1.00 1.00 4.50 88. 9.1 284.2 5.5
06 01 01 1 22 -62.8 0.616 -9.000 -9.000 -999. 1160. 332.6
0.56 1.00 1.00 4.50 91. 9.1 284.9 5.5
06 01 01 1 23 -61.4 0.816 -9.000 -9.000 -999. 1765. 791.1
0.56 1.00 1.00 5.80 82. 9.1 285.4 5.5
06 01 01 1 24 -45.3 0.820 -9.000 -9.000 -999. 1783. 1090.2
0.56 1.00 1.00 5.80 84. 9.1 285.9 5.5
```

```
First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW
sigmaM
06 01 01 01 5.5 0 -999. -99.00 286.5
99.0 -99.00 -99.00
06 01 01 01 9.1 1 347. 0.90 -999.0
99.0 -99.00 -99.00
```

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

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*** AERMET - VERSION 14134 *** ***
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**MODELOPTs:  RegDEFAULT CONC      ELEV      URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):
L0000638 , L0000639 , L0000640 , L0000641 ,
L0000642 ,
L0000643 , L0000644 , L0000645 ,
L0000646 , L0000647 , L0000648 , L0000649 ,
L0000650 ,
L0000651 , L0000652 , L0000653 ,
L0000654 , L0000655 , L0000656 , L0000657 ,
L0000658 ,
L0000659 , L0000660 , L0000661 ,
L0000662 , L0000663 , L0000664 ,
L0000665 , . . .

*** DISCRETE

CARTESIAN RECEPTOR POINTS ***

MICROGRAMS/M**3      ** CONC OF PM2.5 IN
**

X-COORD (M) Y-COORD (M) CONC
X-COORD (M) Y-COORD (M) CONC
-----
384981.56 3774937.12 0.29402 0.31679
384999.56 3774937.12 0.29402 0.27397
384927.56 3774950.12 0.42475 0.38696
384963.56 3774950.12 0.35499 0.32753
384999.56 3774950.12 0.30366 0.28267
384873.56 3774963.12 0.62941 0.55165
384909.56 3774963.12 0.49106 0.44232
384945.56 3774963.12 0.40209 0.36823
384981.56 3774963.12 0.33924 0.31412
384999.56 3774963.12 0.29208
```

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```
384837.56 3774976.12 0.96741
384855.56 3774976.12 0.78681
384873.56 3774976.12 0.66720
384891.56 3774976.12 0.58074
384909.56 3774976.12 0.51461
384927.56 3774976.12 0.46203
384945.56 3774976.12 0.41899
384963.56 3774976.12 0.38295
384981.56 3774976.12 0.35225
384999.56 3774976.12 0.32570
385017.56 3774976.12 0.30248
384837.56 3774989.12 1.08862
384855.56 3774989.12 0.85229
384873.56 3774989.12 0.71156
384891.56 3774989.12 0.61411
384909.56 3774989.12 0.54126
384927.56 3774989.12 0.48412
384945.56 3774989.12 0.43776
384963.56 3774989.12 0.39922
384981.56 3774989.12 0.36654
384999.56 3774989.12 0.33838
385017.56 3774989.12 0.31381
384855.56 3775002.12 0.93396
384873.56 3775002.12 0.76404
384891.56 3775002.12 0.65267
384909.56 3775002.12 0.57159
384927.56 3775002.12 0.50901
384945.56 3775002.12 0.45877
384963.56 3775002.12 0.41731
384981.56 3775002.12 0.38234
384999.56 3775002.12 0.35235
385017.56 3775002.12 0.32624
385035.56 3775002.12 0.30331
384855.56 3775015.12 1.03948
384873.56 3775015.12 0.82719
384891.56 3775015.12 0.69772
384909.56 3775015.12 0.60645
384927.56 3775015.12 0.53730
384945.56 3775015.12 0.48249
384963.56 3775015.12 0.43766
384981.56 3775015.12 0.39999
384999.56 3775015.12 0.36784
385017.56 3775015.12 0.33998
385035.56 3775015.12 0.31556
384873.56 3775028.12 0.90528
384891.56 3775028.12 0.75122
384909.56 3775028.12 0.64702
384927.56 3775028.12 0.56983
384945.56 3775028.12 0.50961
384963.56 3775028.12 0.46066
384981.56 3775028.12 0.41984
384999.56 3775028.12 0.38513
```

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|           |            |            |         |
|-----------|------------|------------|---------|
|           | 385017.56  | 3775028.12 | 0.35519 |
| 385035.56 | 3775028.12 | 0.32904    |         |
|           | 384891.56  | 3775041.12 | 0.81615 |
| 384909.56 | 3775041.12 | 0.69494    |         |
|           | 384927.56  | 3775041.12 | 0.60788 |
| 384945.56 | 3775041.12 | 0.54080    |         |
|           | 384963.56  | 3775041.12 | 0.48685 |
| 384981.56 | 3775041.12 | 0.44218    |         |
|           | 384999.56  | 3775041.12 | 0.40447 |
| 385017.56 | 3775041.12 | 0.37210    |         |

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES  
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL  
INCLUDING SOURCE(S):

|          |            |            |            |   |
|----------|------------|------------|------------|---|
| L0000638 | , L0000639 | , L0000640 | , L0000641 | , |
| L0000642 | ,          |            |            |   |
|          | L0000643   | , L0000644 | , L0000645 | , |
| L0000646 | , L0000647 | , L0000648 | , L0000649 | , |
| L0000650 | ,          |            |            |   |
|          | L0000651   | , L0000652 | , L0000653 | , |
| L0000654 | , L0000655 | , L0000656 | , L0000657 | , |
| L0000658 | ,          |            |            |   |
|          | L0000659   | , L0000660 | , L0000661 | , |
| L0000662 | , L0000663 | , L0000664 |            |   |
| L0000665 | , . . .    | ,          |            |   |

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_2.5 IN

| X-COORD (M) | Y-COORD (M) | CONC    | CONC |
|-------------|-------------|---------|------|
| -           | -           | -       | -    |
| 385035.56   | 3775041.12  | 0.34396 |      |
| 384927.56   | 3775054.12  | 0.65275 |      |
| 384945.56   | 3775054.12  | 0.57702 |      |
| 384963.56   | 3775054.12  | 0.51688 |      |
| 384981.56   | 3775054.12  | 0.46756 |      |
| 384999.56   | 3775054.12  | 0.42625 |      |
| 385017.56   | 3775054.12  | 0.39101 |      |
| 385035.56   | 3775054.12  | 0.36054 |      |
| 384945.56   | 3775067.12  | 0.62143 |      |
| 384963.56   | 3775067.12  | 0.55323 |      |
| 384981.56   | 3775067.12  | 0.49798 |      |
| 384999.56   | 3775067.12  | 0.45209 |      |
| 385017.56   | 3775067.12  | 0.41325 |      |
| 385035.56   | 3775067.12  | 0.37982 |      |
| 384981.56   | 3775080.12  | 0.53323 |      |
| 384999.56   | 3775080.12  | 0.48163 |      |
| 385017.56   | 3775080.12  | 0.43839 |      |
| 385035.56   | 3775080.12  | 0.40143 |      |

|           |            |            |         |
|-----------|------------|------------|---------|
|           | 384999.56  | 3775093.12 | 0.51573 |
| 385017.56 | 3775093.12 | 0.46707    |         |
| 385035.56 | 3775093.12 | 0.42588    |         |
| 385035.56 | 3775106.12 | 0.45376    |         |

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: ALL  
INCLUDING SOURCE(S):

|          |            |            |            |   |
|----------|------------|------------|------------|---|
| L0000638 | , L0000639 | , L0000640 | , L0000641 | , |
| L0000642 | ,          |            |            |   |
|          | L0000643   | , L0000644 | , L0000645 | , |
| L0000646 | , L0000647 | , L0000648 | , L0000649 | , |
| L0000650 | ,          |            |            |   |
|          | L0000651   | , L0000652 | , L0000653 | , |
| L0000654 | , L0000655 | , L0000656 | , L0000657 | , |
| L0000658 | ,          |            |            |   |
|          | L0000659   | , L0000660 | , L0000661 | , |
| L0000662 | , L0000663 | , L0000664 |            |   |
| L0000665 | , . . .    | ,          |            |   |

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_2.5 IN

| X-COORD (M) | Y-COORD (M) | CONC    | CONC (YYMMDDHH) |
|-------------|-------------|---------|-----------------|
| -           | -           | -       | -               |
| 384981.56   | 3774937.12  | 0.47051 | (07020924)      |
| 384999.56   | 3774937.12  | 0.43740 | (07020924)      |
| 385017.56   | 3774937.12  | 0.40818 | (07020924)      |
| 384927.56   | 3774950.12  | 0.62717 | (07020924)      |
| 384945.56   | 3774950.12  | 0.57243 | (07020924)      |
| 384963.56   | 3774950.12  | 0.52611 | (07020924)      |
| 384981.56   | 3774950.12  | 0.48628 | (07020924)      |
| 384999.56   | 3774950.12  | 0.45159 | (07020924)      |
| 385017.56   | 3774950.12  | 0.42103 | (07020924)      |
| 384873.56   | 3774963.12  | 0.92785 | (07020124)      |
| 384891.56   | 3774963.12  | 0.81084 | (07020924)      |
| 384909.56   | 3774963.12  | 0.72317 | (07020924)      |
| 384927.56   | 3774963.12  | 0.65268 | (07020924)      |
| 384945.56   | 3774963.12  | 0.59444 | (07020924)      |
| 384963.56   | 3774963.12  | 0.54542 | (07020924)      |
| 384981.56   | 3774963.12  | 0.50341 | (07020924)      |
| 384999.56   | 3774963.12  | 0.46694 | (07020924)      |

385017.56 3774963.12 0.43489 (07020924)  
384837.56 3774976.12 1.44089 (07020124)  
384855.56 3774976.12 1.16675 (07020124)  
384873.56 3774976.12 0.98414 (07020124)  
384891.56 3774976.12 0.85287 (07020924)  
384909.56 3774976.12 0.75715 (07020924)  
384927.56 3774976.12 0.68117 (07020924)  
384945.56 3774976.12 0.61892 (07020924)  
384963.56 3774976.12 0.56677 (07020924)  
384981.56 3774976.12 0.52231 (07020924)  
384999.56 3774976.12 0.48382 (07020924)  
385017.56 3774976.12 0.45009 (07020924)  
384837.56 3774989.12 1.61865 (07020124)  
384855.56 3774989.12 1.26410 (07020124)  
384873.56 3774989.12 1.05015 (07020124)  
384891.56 3774989.12 0.90244 (07020124)  
384909.56 3774989.12 0.79557 (07020924)  
384927.56 3774989.12 0.71306 (07020924)  
384945.56 3774989.12 0.64609 (07020924)  
384963.56 3774989.12 0.59035 (07020924)  
384981.56 3774989.12 0.54306 (07020924)  
384999.56 3774989.12 0.50226 (07020924)  
385017.56 3774989.12 0.46661 (07020924)  
384855.56 3775002.12 1.38511 (07020124)  
384873.56 3775002.12 1.12834 (07020124)  
384891.56 3775002.12 0.95981 (07020124)  
384909.56 3775002.12 0.83929 (07020924)  
384927.56 3775002.12 0.74897 (07020924)  
384945.56 3775002.12 0.67646 (07020924)  
384963.56 3775002.12 0.61654 (07020924)  
384981.56 3775002.12 0.56596 (07020924)  
384999.56 3775002.12 0.52253 (07020924)  
385017.56 3775002.12 0.48467 (07020924)  
385035.56 3775002.12 0.45133 (07020924)  
384855.56 3775015.12 1.54126 (07020124)  
384873.56 3775015.12 1.22275 (07020124)  
384891.56 3775015.12 1.02690 (07020124)  
384909.56 3775015.12 0.88971 (07020924)  
384927.56 3775015.12 0.78976 (07020924)  
384945.56 3775015.12 0.71067 (07020924)  
384963.56 3775015.12 0.64590 (07020924)  
384981.56 3775015.12 0.59144 (07020924)  
384999.56 3775015.12 0.54491 (07020924)  
385017.56 3775015.12 0.50451 (07020924)  
385035.56 3775015.12 0.46904 (07020924)  
384873.56 3775028.12 1.33939 (07020124)  
384891.56 3775028.12 1.10669 (07020124)  
384909.56 3775028.12 0.94973 (07020124)  
384927.56 3775028.12 0.83661 (07020924)  
384945.56 3775028.12 0.74963 (07020924)  
384963.56 3775028.12 0.67896 (07020924)  
384981.56 3775028.12 0.61999 (07020924)

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384999.56 3775028.12 0.56977 (07020924)  
385017.56 3775028.12 0.52641 (07020924)  
385035.56 3775028.12 0.48850 (07020924)  
384891.56 3775041.12 1.20388 (07020124)  
384909.56 3775041.12 1.02112 (07020124)  
384927.56 3775041.12 0.89139 (07020924)  
384945.56 3775041.12 0.79438 (07020924)  
384963.56 3775041.12 0.71655 (07020924)  
384981.56 3775041.12 0.65212 (07020924)  
384999.56 3775041.12 0.59758 (07020924)  
385017.56 3775041.12 0.55075 (07020924)

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\*\*MODELOPTS: RegDFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S):  
L0000638 , L0000639 , L0000640 , L0000641 ,  
L0000642 ,  
L0000643 , L0000644 , L0000645 ,  
L0000646 , L0000647 , L0000648 , L0000649 ,  
L0000650 ,  
L0000651 , L0000652 , L0000653 ,  
L0000654 , L0000655 , L0000656 , L0000657 ,  
L0000658 ,  
L0000659 , L0000660 , L0000661 ,  
L0000662 , L0000663 , L0000664 ,  
L0000665 , . . .

\*\*\* DISCRETE  
CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_2.5 IN

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

385035.56 3775041.12 0.50999 (07020924)  
384927.56 3775054.12 0.95611 (07020924)  
384945.56 3775054.12 0.84637 (07020924)  
384963.56 3775054.12 0.75967 (07020924)  
384981.56 3775054.12 0.68851 (07020924)  
384999.56 3775054.12 0.62891 (07020924)  
385017.56 3775054.12 0.57797 (07020924)  
385035.56 3775054.12 0.53384 (07020924)  
384945.56 3775067.12 0.90934 (07020924)  
384963.56 3775067.12 0.81111 (07020924)  
384981.56 3775067.12 0.73151 (07020924)  
384999.56 3775067.12 0.66546 (07020924)  
385017.56 3775067.12 0.60946 (07020924)  
385035.56 3775067.12 0.56121 (07020924)  
384981.56 3775080.12 0.78146 (07020924)  
384999.56 3775080.12 0.70738 (07020924)  
385017.56 3775080.12 0.64516 (07020924)

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385035.56 3775080.12 0.59204 (07020924)  
384999.56 3775093.12 0.75573 (07020924)  
385017.56 3775093.12 0.68598 (07020924)  
385035.56 3775093.12 0.62692 (07020924)  
385035.56 3775106.12 0.66657 (07020924)

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

ANNUAL RESULTS AVERAGED OVER 5 YEARS \*\*\* THE SUMMARY OF MAXIMUM

MICROGRAMS/M\*\*3

\*\* CONC OF PM\_2.5 IN

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

ALL 1ST HIGHEST VALUE IS 1.08862 AT ( 384837.56,  
3774989.12, 91.00, 91.00, 0.00) DC  
2ND HIGHEST VALUE IS 1.03948 AT ( 384855.56,  
3775015.12, 91.00, 91.00, 0.00) DC  
3RD HIGHEST VALUE IS 0.96741 AT ( 384837.56,  
3774976.12, 91.00, 91.00, 0.00) DC  
4TH HIGHEST VALUE IS 0.93396 AT ( 384855.56,  
3775002.12, 91.00, 91.00, 0.00) DC  
5TH HIGHEST VALUE IS 0.90528 AT ( 384873.56,  
3775028.12, 91.09, 91.09, 0.00) DC  
6TH HIGHEST VALUE IS 0.85229 AT ( 384855.56,  
3774989.12, 91.00, 91.00, 0.00) DC  
7TH HIGHEST VALUE IS 0.82719 AT ( 384873.56,  
3775015.12, 91.07, 91.07, 0.00) DC  
8TH HIGHEST VALUE IS 0.81615 AT ( 384891.56,  
3775041.12, 91.30, 91.30, 0.00) DC  
9TH HIGHEST VALUE IS 0.78681 AT ( 384855.56,  
3774976.12, 91.00, 91.00, 0.00) DC  
10TH HIGHEST VALUE IS 0.76404 AT ( 384873.56,  
3775002.12, 91.05, 91.05, 0.00) DC

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

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

OF HIGHEST 24-HR RESULTS \*\*\* THE SUMMARY

MICROGRAMS/M\*\*3

\*\* CONC OF PM\_2.5 IN

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

ALL HIGH 1ST HIGH VALUE IS 1.61865 ON 07020124: AT  
( 384837.56, 3774989.12, 91.00, 91.00, 0.00) DC

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

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 756 Informational Message(s)

A Total of 43800 Hours Were Processed

A Total of 4 Calm Hours Identified

A Total of 752 Missing Hours Identified ( 1.72  
Percent)

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

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

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

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