

# ENVIRONMENT | PLANNING | DEVELOPMENT SOLUTIONS, INC.

To: Manny Baeza, County of Riverside  
From: Vince Mirabella, EPD Solutions  
Date: July 13, 2021, Revised September 18, 2021  
Re: Health Risk Assessment of the Seaton Avenue/Perry Street Industrial Project Riverside County, CA

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## SECTION 1: PROJECT INFORMATION

### 1.1 - Project Name

Seaton Avenue/Perry Street Industrial Project (Project)

### 1.2 - Project Location

The Project is located within the western portion of Riverside County (County) near the City of Perris, on one parcel north of Perry Street and between Seaton Avenue and Beck Street. Regional access to the Project site is provided by Interstate 215 (I-215) and the Interstate 215 Cajalco Expressway exit or Harley Knox Boulevard Exit. Local access to the site is provided from Harvill Avenue, a major roadway, and Seaton Avenue, a secondary roadway.

The Project site has a General Plan Land Use designation of Light Industrial (LI) and zoning designations of Industrial Park (I-P) and Manufacturing, Service Commercial (M-SC). The western portion of the site is zoned I-P and the eastern portion of the site is zoned M-SC. The General Plan states that the LI land use designation is intended for industrial and related uses, including warehousing/distribution, assembly and light manufacturing, repair facilities, and supporting retail uses at an allowable Floor Area Ratio (FAR) of 0.25-0.60. The Project site is located within a predominately developed area. Single-family residences are located to the north, Beck Street followed by single-family residences to the west, warehouses followed by Perry Street to the south, and Seaton Avenue followed by vacant land to the east. Figure 1 shows the Project location.

### 1.3 - Project Description

The applicant for the Project requests approval from the County to construct two warehouse buildings totaling 98,940 square feet (SF), a parking lot, ornamental landscaping, and associated infrastructure. The proposed buildings would result in a floor-to-area ratio (FAR) of 0.24, below the allowable maximum FAR of 0.60 for the Light Industrial land use designation.

The proposed light industrial warehouse buildings would be single-story and approximately 41 feet tall and include a mezzanine, loading docks, and associated vehicle and truck trailer parking spaces. Each building would be 49,470 SF and provide 46,970 SF of warehouse space and 2,500 SF of first-floor office space. Approximately 20 percent of the buildings would be utilized for cold storage and refrigeration uses.

Truck loading docks and trailer parking would be located along the eastern side of Building 1 and Building 2. Each building would include 16 loading dock doors. Building 1 would include 55 trailer parking stalls and Building 2 would include 76 trailer parking stalls. Access to trailer stalls and loading dock areas would be controlled through the use of swingling and sliding gates. Building 1 would provide 35 car parking stalls with 2 ADA stalls and Building 2 would provide 35 car parking stalls with 2 ADA stalls. The Project would also include a bike rack.

The Project would include a 30-foot dedication along Beck Street and a 50-foot dedication along Seaton Avenue. A 24-foot fire lane would be included. Access to the proposed Project would be provided via two driveways from Seaton Avenue. The northern driveway along Seaton Avenue is proposed to be restricted to passenger and emergency vehicles only. Figure 2 shows the site plan.

## 1.4 - Purpose of the Report

This report evaluates the potential health impacts to sensitive receptors from the operation of the Project. In particular, this health risk assessment (HRA) focuses on the emissions of diesel particulate matter (DPM) from the operation of the heavy-duty diesel vehicles that would serve the Project on a day-to-day basis. DPM has been identified by the California Air Resources Board (ARB) as a carcinogenic substance responsible for nearly 70 percent of the airborne cancer risk in California.<sup>1</sup> The estimated health risk impacts from the Project operation were compared to the health risk significance thresholds recommended by the South Coast Air Quality Management District (SCAQMD) for use in CEQA assessments.

This HRA employed the following tools to estimate the health impacts of the Project:

- The California Air Resources Board (ARB) EMFAC2017 mobile emission source model<sup>2</sup> to calculate exhaust and idling emissions from mobile sources such as diesel trucks
- The U.S. Environmental Protection Agency (EPA) AMS/EPA Regulatory Model (AERMOD Version 21112) air dispersion model<sup>3</sup> to estimate DPM impacts to sensitive receptors)
- The ARB Offroad 2017<sup>4</sup> equipment model to estimate emissions from the operation of transportation refrigeration units (TRUs) used to transport perishable products

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<sup>1</sup> California Air Resources Board 2017. Study Links California Regulations, Dramatic Declines in Cancer Risk from Exposure to Air Toxics. Website: <https://ww2.arb.ca.gov/news/study-links-california-regulations-dramatic-declines-cancer-risk-exposure-air-toxics>

<sup>2</sup> California Air Resources Board 2017. EMFAC2017 User's Guide. Website: [https://ww3.arb.ca.gov/msei/downloads/emfac2017\\_users\\_guide\\_final.pdf](https://ww3.arb.ca.gov/msei/downloads/emfac2017_users_guide_final.pdf)

<sup>3</sup> US Environmental Protection Agency 2021. AERMOD Quick Reference Guide. Website: <https://www.epa.gov/scram/air-quality-dispersion-modeling-preferred-and-recommended-models>

<sup>4</sup> California Air Resources Board 2021. Off-Road Mobile Sources. Website: <https://www.arb.ca.gov/msprog/offroad/offroad.htm>

- Cancer Risk Methodology from the California Office of Environmental Health Hazards Assessment (OEHHA)<sup>5</sup> and the SCAQMD<sup>6</sup>.
- The California Air Pollution Control Officers Association (CAPCOA)<sup>7</sup> CalEEMod land-use emission model (Version 2020.4.0) to estimate DPM emissions from the operation of fire pumps used as part of the fire suppression system.

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<sup>5</sup> California Office of Environmental Health Hazards Assessment 2015. Air Toxics Hot Spots Program. Risk Assessment Guidelines. Guidance Manual for Preparation of Health Risk Assessments. Website: <https://oehha.ca.gov/media/downloads/crn/2015guidancemanual.pdf>

<sup>6</sup> SCAQMD 2017. Risk Assessment Procedures for Rules 1401, 1401.1, 1402, and 212, Version 8.1/

<sup>7</sup> CAPCOA 2021. California Emissions Estimator Model Version 2020.4.0. Website: <http://www.caleemod.com>



Figure 1  
Regional Location Map



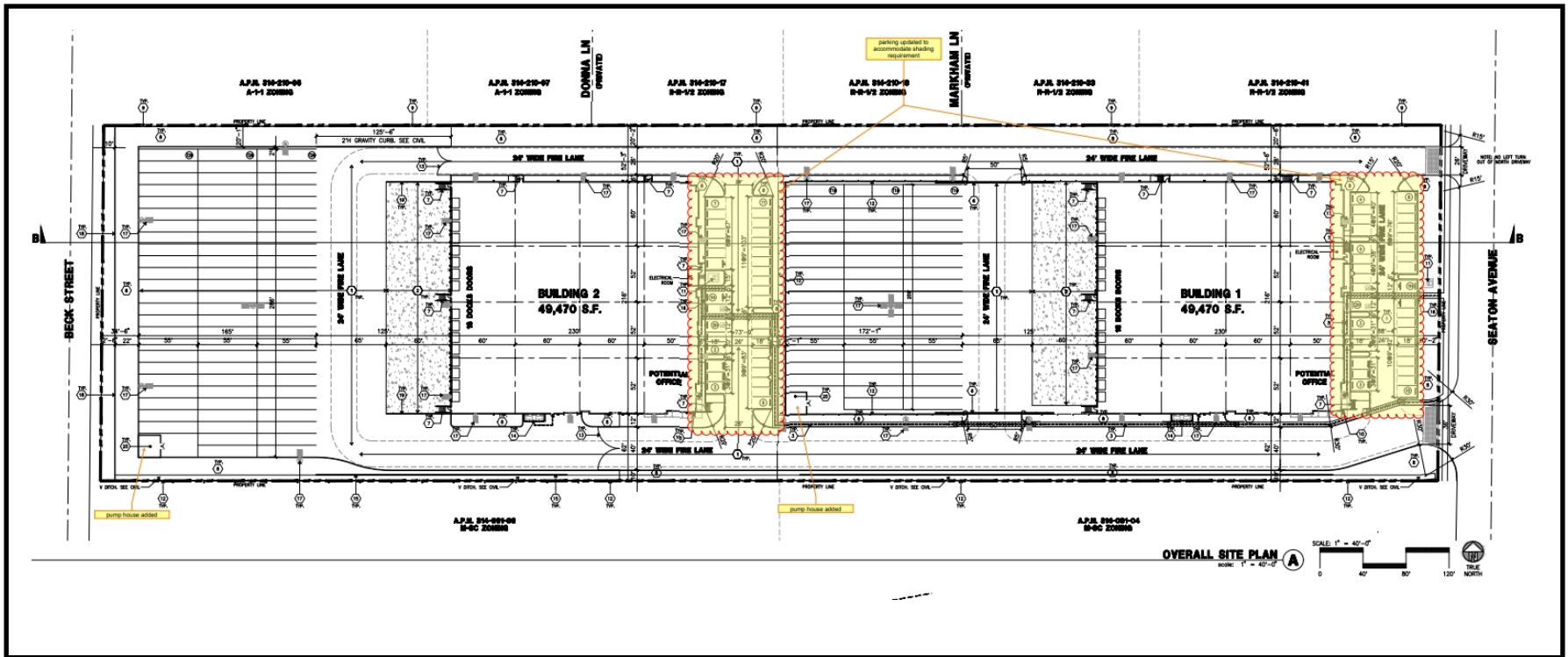


Figure 2  
Project Site Plan

## 1.5 - Conclusion

The Project's operation would generate a lifetime cancer risk at the maximum impacted sensitive receptor as provided below. All cancer risks are less than the SCAQMD risk significance threshold of 10 in one million. Therefore, the operation of the Project would result in a less than significant project-level and cumulative health risk impact.

- Sensitive/residential receptor for the 30-year exposure duration: 7.7 in one million,
- Worker Receptor: 1.0 in one million

## SECTION 2: HEALTH RISK ASSESSMENT

An HRA is a guide that helps determine whether the risks from current or future exposures to a toxic chemical or substance in the environment could affect the health of a population. In general, the quantification of risk from the development of a project depends on the following factors:

- Identification of the toxic air contaminants (TACs) that may be present in the air;
- Estimation of the amount of TACs released from all emission sources using emission models;
- Estimation of the airborne concentrations of TACs in the geographic area of concern using air dispersion models using information about emissions, source locations, weather, and other factors; and
- Estimation of the level of exposure to different concentrations of the TACs at different geographic locations and their consequential health impacts.

Thus, an HRA identifies the TACs that could affect public health, identifies the sources and their quantities of the TAC emissions, estimates where the emissions are transported by prevailing meteorological conditions, and assesses the consequential health impacts due to the identified exposures.

The State of California Office of Environmental Health Hazards Assessment (OEHHA) has developed methods for conducting health risk assessments. As defined under the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (AB 2588 [Chapter 1252, Statutes of 1987, California Health and Safety Code Section 44306]),

"A health risk assessment means a detailed, comprehensive analysis prepared pursuant to Section 44361 to evaluate and predict the dispersion of hazardous substances in the environment and the potential for exposure of human populations and to assess and quantify both the individual and population-wide health risks associated with those levels of exposure."

Estimates of health risk and hazards that could potentially affect nearby sensitive receptors from the emissions of TACs were made using the methodology described below. The methodology included assumptions regarding emission source quantification, configurations and locations, receptor locations, air dispersion modeling, and health risk modeling. As noted above, this HRA focused on DPM emissions that the ARB has identified as the principal airborne carcinogenic substance in California. For purposes of this HRA, DPM was assumed to be comprised of PM<sub>10</sub> exhaust emissions.

### 2.1 - Emission Inventory Development

The first requirement to carry out the HRA involves identifying and quantifying the sources of operational DPM air emissions from the Project, also termed an emission inventory. Each piece of equipment that emits DPM is identified in terms of its location and physical characteristics (release height, release temperature, etc.) and the chemical nature of the emissions. The predominant sources of DPM emissions resulting from the operation of the Project derive from the heavy-duty diesel trucks that travel to and from and within the project site each day. Other potential DPM emission sources include the maintenance and testing of two fire pumps and the operation of TRUs on trucks assigned to carry perishable products. These emission sources are identified below.

### 2.1.1 Estimation of Mobile Source Emissions

Estimates of mobile source emissions are based on an emission factor and an activity level. An emission factor quantifies the amount of air emission for a specific activity, such as a gram of DPM (as PM<sub>10</sub> exhaust) emitted per vehicle mile traveled or per hour of idling, while the activity level is defined as the vehicle trip, number of miles traveled, or the amount of time a vehicle spends idling.

Emissions from motor vehicles can be characterized as follows:

- Combustion emissions (grams/mile or grams/hour for idling) resulting from the combustion of diesel fuel from heavy-duty trucks are the primary source of DPM emissions. The ARB EMFAC2017 mobile source emission model provides emission rates for user-defined heavy-duty truck speeds, fuel type, vehicle class, and model year.

The emissions of DPM from mobile sources are calculated as follows for running exhaust emissions and idling emissions:

$$\text{Running Exhaust Emissions}_{\text{RE}} = \sum_{i=1}^n (\text{VMT}_i \times \text{EF}_i)$$
$$\text{Idling Emissions}_{\text{ID}} = \sum_{i=1}^n (\text{IdNum}_i \times T_i \times \text{EF}_i)$$

Where:

Emissions<sub>RE</sub> = running exhaust emissions summed over all vehicle classes

Emissions<sub>ID</sub> = idling emissions summed over all vehicle classes

EF<sub>i</sub> = running exhaust emission factor for each vehicle type at a specific vehicle speed (g/mi)

EF<sub>idling</sub> = idling emission factor for each vehicle class (g/idle-hour)

VMT<sub>i</sub> = total number of vehicle miles summed over all vehicle classes (miles per day)

IdNum<sub>i</sub> = number of idling vehicles by vehicle class

T<sub>i</sub> = idling hours summed over all vehicle classes (hours per day)

n = number of vehicle classes

<sub>i</sub> = vehicle class

### Mobile Source Activity Levels

The motor vehicle activity levels were estimated using the vehicle trip information provided in the Project Trip Generation Report<sup>8</sup>. Table 1 summarizes the daily motor vehicle trips from the Project based on information derived from the Project Trip Generation Report. The trip estimates shown in Table 1 refer to both gasoline and diesel-fueled vehicles. Table 2 presents the percentage of diesel vehicle trips by heavy-duty vehicle class for Riverside County in 2022, as derived from the EMFAC2017 mobile source emission model. Table 3 presents the number of heavy-duty diesel trips for the Project operation based on the total number of vehicle trips and the diesel vehicle percentages provided in the EMFAC2017 emission model. In calculating the mobile source-related emissions, it was assumed that the onsite vehicle truck trips were split equally between the two buildings.

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<sup>8</sup> EPD Solutions, Inc. June 2021. Seaton Avenue and Perry Street Trip Generation



**Table 1: Project Daily Operational Vehicle Trips**

| Warehouse                           |                     |                       |
|-------------------------------------|---------------------|-----------------------|
| Area                                | Trip Rate           |                       |
| 98,940TSF                           | 4.96 Trips/TSF      |                       |
| Fleet Mix                           | Percentage of Fleet | Vehicle Trips per day |
| Passenger Cars (LDA,LDT1,LDT2, MDV) | 78.6                | 386                   |
| 2-axle trucks (LDTT1, LHDT2)        | 8.00                | 39                    |
| 3-axle trucks (MHDT)                | 3.9                 | 19                    |
| 4+axle trucks (HHDT)                | 9.5                 | 47                    |
| Total                               | 100.0               | 491                   |

LDA = light duty automobile, LDT1 and LDT2 = light duty trucks, MDV = medium duty vehicle, LHDT1 and LHDT2 = light heavy-duty trucks, MHDT = medium heavy-duty truck, HHDT = heavy-heavy duty truck  
 TSF = thousand square feet  
 Source: EPDS June 2021. Seaton Avenue and Perry Street Trip Generation

**Table 2: Diesel Heavy-Duty Truck Vehicle Fleet**

| Type of Vehicle                | Diesel Fuel Vehicles (% of Vehicle Trips) |
|--------------------------------|---|
| Light-heavy duty truck (LHDT1) | 51.5                                      |
| Light-heavy duty truck (LHDT2) | 73.7                                      |
| Medium-heavy duty truck (MHDT) | 93.2                                      |
| Heavy-heavy duty truck (HHDT)  | 100.0                                     |
| Source: see Data Attachment    |   |

**Table 3: Number of Daily Project Diesel Truck Vehicle Trips**

| Type of Vehicle                | Daily Diesel Vehicle Trips (trips/day) |
|--------------------------------|--|
| Light-heavy duty truck (LHDT1) | 16                                     |
| Light-heavy duty truck (LHDT2) | 6                                      |
| Medium-heavy duty truck (MHDT) | 18                                     |
| Heavy-heavy duty truck (HHDT)  | 47                                     |
| Total                          | 86                                     |
| Source: see Data Attachment    |  |

The Project's operational heavy-duty diesel truck emissions were estimated for vehicle travel while on the Project site and offsite as the Project's vehicles travel on the local roadway network. All vehicles were

assumed to travel at 5 miles per hour for travel within the Project site. For travel offsite, all heavy-duty trucks were assumed to travel at 25 miles per hour. Also, all heavy-duty diesel trucks were assumed to idle for 15 minutes per day at the loading docks, following the recommendations from the SCAQMD<sup>9</sup>. The Project was assumed to operate 24 hours per day.

The offsite vehicle trip distribution on the local roadway network considered two alternatives based on whether or not Perry Street would be fully developed prior to the Project’s opening year:

- Alternative 1: 100% of trucks going north from the Project on Seaton Avenue, then 50% using Markham Street to north on Harvill Avenue to Harley Knox Boulevard and finally to Interstate 215 and 50% using Commerce Center Drive to south on Harvill Avenue (this assumes Perry Street will not be developed prior to Project construction) to the Cajalco Expressway to Interstate 215.
- Alternative 2: 50% of trucks going north from the Project on Seaton Avenue then using Markham Street to north on Harvill Avenue to Harley Knox Boulevard to Interstate 215 and the other 50% going south from the Project on Seaton Avenue then using Perry Street to south on Harvill Avenue to the Cajalco Expressway to Interstate 215

### DPM Truck Emission Factors

The DPM emission factors (as PM<sub>10</sub> exhaust) were derived from the ARB EMFAC2017 mobile source emission model in terms of grams per mile (grams/VMT) for the running exhaust emissions and grams per idle-hour (g/idle-hr) for idling emissions. The DPM emission factors were obtained for the County for the Project's opening year of 2022 and were assumed to remain constant for the entire duration of the cancer risk exposure (30 years). The use of 2022 emission factors would overstate potential impacts since this approach assumes that the emissions remain constant at their 2022 levels. However, heavy-duty truck emissions are expected<sup>10</sup> to decrease in future years due to the requirement to comply with existing and future emission regulations requiring vehicle fleet replacement with cleaner technologies.

Table 4 presents the DPM (as PM<sub>10</sub> exhaust) emission factors that were applied in this HRA.

**Table 4: DPM Diesel Truck Emission Factors**

| Type of Vehicle                | Idling Emission Factor (g/idle-hr) | Running Exhaust @ 5 mph (g/mi) | Running Exhaust @ 25 mph (g/mi) |
|--------------------------------|------------------------------------|--------------------------------|---------------------------------|
| Light-heavy duty truck (LHDT1) | 0.467                              | 0.077                          | 0.028                           |
| Light-heavy duty truck (LHDT2) | 0.625                              | 0.068                          | 0.026                           |
| Medium-heavy duty truck (MHDT) | 0.142                              | 0.070                          | 0.036                           |
| Heavy-heavy duty truck (HHDT)  | 0.015                              | 0.043                          | 0.018                           |

EMFAC2017 PM<sub>10</sub> Exhaust Emission factors for Riverside County in 2022  
Source: see Data Attachment

<sup>9</sup> See for Example. SCAQMD 2011. Website: <http://www.aqmd.gov/docs/default-source/ceqa/comment-letters/2011/july/palm-industrial-distribution-center.pdf?sfvrsn=4>

<sup>10</sup> California Air Resources Board 2021. Measures for Reducing Emissions from On-Road Heavy Duty Vehicles. Website: <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2022-air-quality-management-plan/heavy-duty-trucks-presentations-06-03-21.pdf>

### 2.1.2 Transportation Refrigeration Units

Transportation refrigeration units (TRUs) are small diesel-fueled engines placed on trucks or trailers to refrigerate perishable products. It was assumed that up to 20 percent of the industrial floor space for the Project could be devoted to refrigeration uses. Therefore, 20 percent of all heavy-duty diesel trucks were assumed to be equipped with a TRU. DPM emissions from the TRUs were estimated for travel within the Project site, while idling at the loading docks, and traveling beyond the Project site along the adjacent roadway network. Each TRU was assumed to operate for 120 minutes while at the loading docks as a reasonable estimate of the time to unload/load product while at the loading docks. DPM emissions for the TRUs were derived from the ARB OFFROAD2017 emission model for the County in 2022. The details regarding the data and assumptions for estimating the TRU emissions are presented in the Data Attachment. Based on the available data, the TRU DPM emission rate was 0.72 grams/hour of operation. The resulting TRU emissions were subsequently added to the truck running and idle emissions to produce the total mobile DPM source emissions.

### 2.1.3 Support Equipment

The Project's operation will require the use of several pieces of support equipment, including two diesel-fueled fire pumps, one for each building. Based on the information from similar warehouse land-use projects, a 238-horsepower diesel fire pump was assigned to each building<sup>11</sup>. The fire pump was assumed for testing and maintenance purposes to operate for 50 hours per year<sup>12</sup>. The fire pump DPM emissions were estimated using the CalEEMod model. No standby electrical generators are anticipated for Project operation, and all material handling equipment (e.g., forklifts) was assumed to be natural (propane) gas-fueled. A supplemental HRA was prepared that quantified the potential cancer risks from the operation of the forklifts. The cancer risk at the maximum impacted sensitive receptor was 0.004 in one million compared to the maximum cancer risk from DPM emissions of 7.7 in one million. The potential cancer risks associated with the toxic air contaminant emissions from the operation of the propane forklifts are substantially less than the cancer risks associated with the DPM emissions. Therefore, the potential cancer risks from the forklifts are not included in this HRA.

### 2.1.4 Project DPM Emissions

Table 5 presents the Project's operational DPM emissions from the various onsite and offsite operational DPM emission sources. Figure 3 provides the locations of the onsite and offsite DPM emission sources.

**Table 5: DPM Emissions from Project Diesel Emission Sources (2022 Analysis Year)**

| <b>Emission Source – Onsite Truck Idling and TRU Operation</b> | <b>Total Emissions (g/sec)</b> |
|--|--------------------------------|
| Truck Idle and TRU Operations at Loading Docks                 | 1.54E-04                       |
| <b>Emission Source – Onsite Truck Travel and TRU Operation</b> | <b>Total Emissions (g/sec)</b> |
| Truck Travel (Drwy to loading Docks with TRU Operation)        | 1.50E-05                       |

<sup>11</sup> The fire pump model assumed was a Peerless Diesel Engine Driven Fire Pump, peak horsepower of 238 hp.

<sup>12</sup> Maintenance hours limited by SCAQMD Rule 1470

| Emission Source – Offsite Truck Travel and TRU Operation | Total Emissions (g/sec) |
|--|-------------------------|
| Offsite Route – Alternative 1                            | 6.14E-05                |
| Offsite Route – Alternative 2                            | 3.30E-05                |
| Emission Source – Firepumps                              | Total Emissions (g/sec) |
| Firepumps  | 8.26E-05                |
| Total Emissions  | Total Emissions (g/sec) |
| All Sources – Offsite Alternative 1                      | 3.13E-04                |
| All Sources – Offsite Alternative 2                      | 2.84E-04                |
| Source: see Data Attachment                              |                         |

## 2.2 - Atmospheric Dispersion Methodology

Atmospheric dispersion modeling is the mathematical simulation of how air pollutants disperse in the ambient atmosphere. The modeling is performed with computer programs that solve the mathematical equations and algorithms that simulate the movement and dispersion of air pollutants. The air dispersion model uses emissions from various emission sources and meteorological data such as wind speed and direction, air temperature, and atmospheric mixing rates to estimate the air pollutant impacts at various geographic locations (referred to as receptor locations).

Table 6 provides the general assumptions applied in the AERMOD model (Version 21112). Table 7 summarizes the assumptions used to configure the various operational emission sources analyzed in this HRA. The meteorological data were taken from the SCAQMD Perris monitoring station for the time period 2010 and 2011, and 2014 to 2016 and is considered representative of the meteorological conditions at the project site.

**Table 6: General Modeling Assumptions**

| Feature                        | Assumption   |
|--------------------------------|--|
| Terrain processing             | <ul style="list-style-type: none"> <li>Complex terrain; elevations were obtained for the Project site using the EPA AERMAP terrain data pre-processor Version 18081; Data set: NAD 7.5 minutes 9034.75m.dem</li> </ul>   |
| Land Use                       | <ul style="list-style-type: none"> <li>Urban based on land use patterns surrounding the Project site</li> </ul>  |
| Meteorological Data            | <ul style="list-style-type: none"> <li>Perris, CA for the years 2010 and 2011 and 2014 to 2016 from the SCAQMD as representative of meteorological conditions at the Project site</li> </ul>   |
| Receptor locations and heights | <ul style="list-style-type: none"> <li>A network grid was used to include all existing residences and worker locations surrounding the Project site and along the offsite truck routes</li> <li>Additional receptors were located at nearby residences</li> <li>Receptors placed a ground-level</li> </ul> |
| Building                       | <ul style="list-style-type: none"> <li>A building height of 41 feet was assumed as per the Project description</li> </ul>  |
| Population                     | <ul style="list-style-type: none"> <li>Riverside County: 2,189,641</li> </ul>  |

**Table 7: Summary of Operational Emission Source Configurations**

| Emission Source Type          | Geometric Configuration                             | Relevant Assumptions  |
|-------------------------------|---|---|
| Onsite Diesel Vehicle Traffic | Line Area Sources                                   | <ul style="list-style-type: none"> <li>• Line source: height – 3.11 meters (10.2 feet) and plume height 6.2 meters (20.4 feet) (EPA Haul Roads Calculator);</li> <li>• Building access to the two buildings is via south driveway along Seaton Avenue for truck traffic</li> <li>• 50% of the truck traffic assumed to access Building 1 and 50% assumed to access Building 2</li> <li>• Vehicle types: see Table 2</li> <li>• Emission factor: ARB EMFAC 2017; DPM (as PM<sub>10</sub> exhaust) emission factors at 5 mph for 2022 for the County; no credit for future emission factor reductions, see Table 4.</li> <li>• 20 % of all heavy-duty diesel trucks assumed to have a TRU</li> <li>• Operations: 24/7</li> </ul>                    |
| Onsite Diesel Truck Idling    | Point Sources located at loading docks              | <ul style="list-style-type: none"> <li>• Stack release characteristics               <ul style="list-style-type: none"> <li>➢ Stack height: 3.7 meters (12 feet)</li> <li>➢ Stack diameter: 0.1 meter (0.328 feet)</li> <li>➢ Stack velocity: 51.7 meters per second (115 miles per hour)</li> <li>➢ Stack temperature: 366<sup>o</sup>K (200<sup>o</sup>F)</li> </ul> </li> <li>• Idle time: 15 minutes per truck per day</li> <li>• Vehicle type: heavy-duty diesel haul trucks</li> <li>• Emission factor: ARB EMFAC 2017; idle emission factor for 2022 for Riverside County; no credit for future emission factors, see Table 4</li> <li>• 20 % of all heavy-duty diesel trucks assumed to have a TRU</li> <li>• Operations: 24/7</li> </ul> |
| TRU Emissions                 | Point Source for loading/Line source when traveling | <ul style="list-style-type: none"> <li>• 20 % of all heavy-duty diesel trucks assumed to have a TRU</li> <li>• Stack release height: 3.7 meters (12 feet)</li> <li>• Operations 24/7</li> <li>• Emission factors from OFFROAD2017</li> </ul>  |
| Offsite Vehicle Traffic       | Line Area Sources                                   | <ul style="list-style-type: none"> <li>• Stack release height: 3.11 meters (10.2 feet) with plume height of 6.2 meters (20.4 feet) (EPA Haul Roads Calculator)</li> <li>• Emission factor: ARB EMFAC 2017; DPM (as PM<sub>10</sub> exhaust) emission factors at 25 mph for heavy-duty diesel trucks in 2022 for the County; no credit for future emission factors, see Table 4</li> <li>• Vehicle type: see Table 3</li> <li>• Travel to/from the south Driveway on Seaton Avenue; see Figure 3 for offsite vehicle travel route alternatives</li> <li>• Operations: 24/7</li> </ul>  |
| Fire Pumps                    | Point Area Sources                                  | <ul style="list-style-type: none"> <li>• Diesel powered</li> <li>• 238 horsepower</li> <li>• Testing and maintenance: 50 hours/year</li> <li>• Emissions derived from CalEEMod</li> </ul>   |
| Source: see Data Attachment   |   |   |



### 2.2.1 Receptors

The SCAQMD defines a sensitive receptor any residence, including private homes, condominiums, apartments, and living quarters, schools, preschools, daycare centers, and health facilities such as hospitals or retirement and nursing homes. A sensitive receptor includes long-term care hospitals, hospices, prisons, and dormitories, or similar live-in housing. For purposes of this HRA sensitive receptors were placed within the air dispersion model at the location of existing residences and locations along the



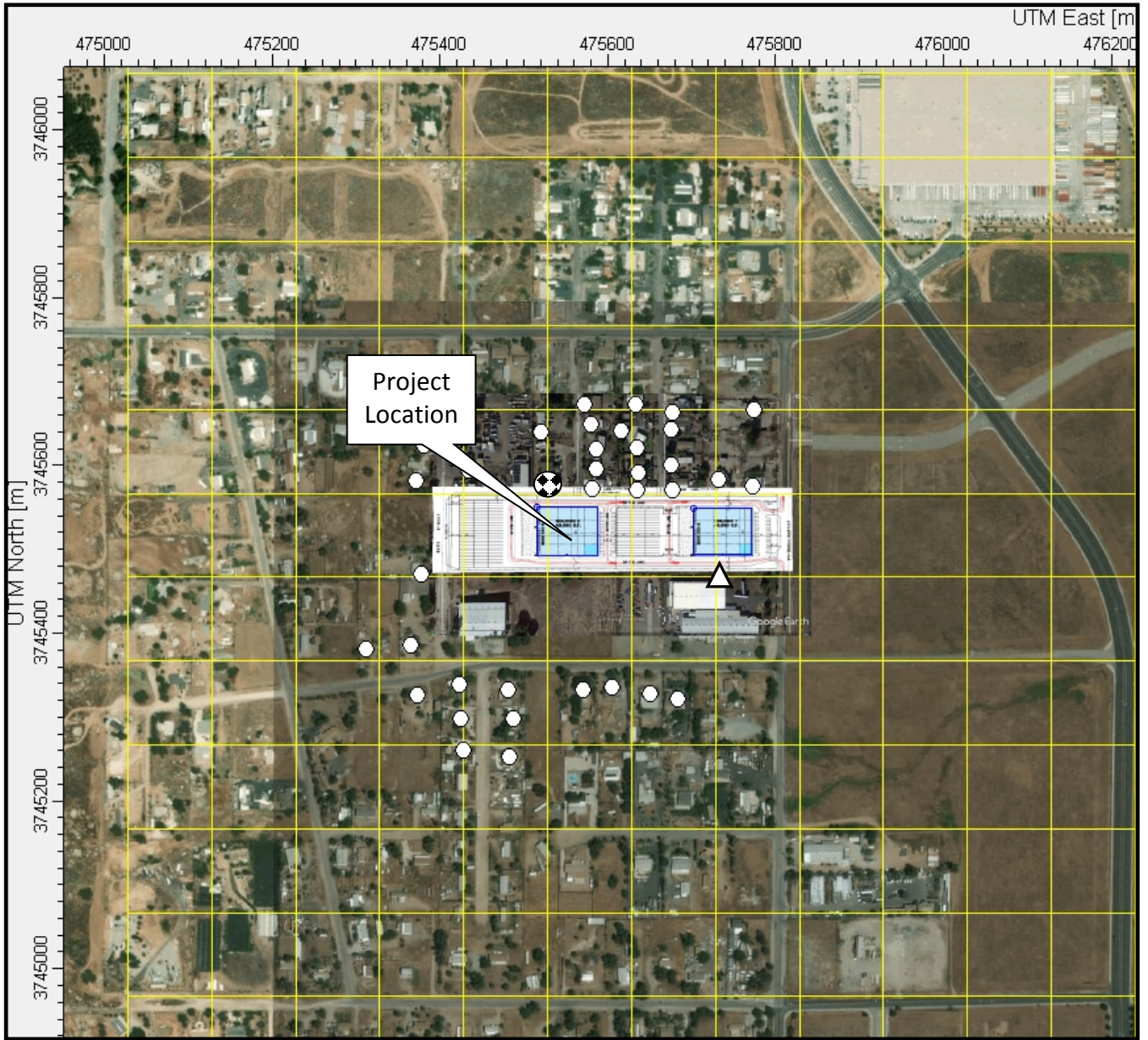
offsite Project vehicle travel routes. In addition, a regular grid network of receptors was placed over the Project site to complete the receptor network. The nearest sensitive receptor was located at an existing residence adjacent to the northern Project property line, while the nearest worker receptor was located at the industrial building adjacent to the south boundary of the Project. Figure 4 shows the receptor locations included in the HRA.



-  Onsite Travel Routes
-  Offsite Alternative 1
-  Offsite Alternative 2
-  Fire Pumps
-  Truck/TRU Idle Areas

**Figure 3**  
**Location of DPM Emission Sources**





- Location of Sensitive/Residential Receptors
- ⊗ Location of Maximum Impacted Sensitive Receptor
- △ Location of Maximum Impacted Worker Receptor
- ▣ Grid of Model Receptors (expanded view)

**Figure 4**  
**Location of Air Dispersion Model Receptors**

## 2.3 - Health Risk Estimation Methodology

### 2.3.1 Significance Thresholds

#### Project-Level

The County has not adopted a numerical significance threshold for cancer risk or non-cancer hazards. Therefore, the significance thresholds recommended by the SCAQMD were adopted for this assessment. The relevant significance thresholds are provided below:

- Cancer Risk: ten (10) persons per million population as the maximum acceptable incremental cancer risk due to exposure to toxic air contaminants (TAC)
- Non-cancer Hazard Index: 1.0

#### Cumulative

The SCAQMD has published a report on addressing cumulative impacts from air pollution: White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution (SCAQMD 2003)<sup>13</sup>. The SCAQMD considers projects that exceed the project-specific significance thresholds to be cumulatively considerable. Therefore, the project-specific (noted above) and cumulative significance thresholds are the same. As a result, projects that do not exceed the project-specific thresholds are not considered to be cumulatively significant.

### 2.3.2 Cancer Risk

Cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer due to exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a probability since there is no level below which some level of impact may occur. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 10 in a million implies a likelihood that up to ten people in a population of one million equally exposed people could contract cancer if exposed continuously (24 hours per day) to the levels of TACs over a specified duration of time. This risk is an excess cancer risk in addition to any environmental cancer risk borne by a person not exposed to these air toxics.

The exposure dose is the amount of a chemical taken into the body at a given time. In particular, the exposure dose through inhalation ( $Dose_{air}$ ) is a function of the breathing rate, the exposure frequency, and the concentration of exposures. Breathing rates change over time for different age groups and are determined for specific age groups. The  $Dose_{air}$  is calculated for each of the following age groups: 3<sup>rd</sup> trimester to birth, 0 to 2, 2 to 16, and 16 to 30 years of age. The OEHHA recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans<sup>14</sup>.

as the key indicator of long-term health risk impacts. The risks for each age group are summed together to provide a total estimate of lifetime cancer risks for sensitive receptors. To estimate the cancer risk, the

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<sup>13</sup> South Coast Air Quality Management District (SCAQMD) 2003. White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution

<sup>14</sup> California Office of Environmental Health Hazards Assessment 2015. Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments. Page 8-6.

Dose<sub>air</sub> is estimated by applying the following equation to the DPM concentration at each receptor as calculated by the air dispersion model:

$$\text{Dose}_{\text{air}} = C_{\text{DPM}} \times \text{DBR}_i \times A \times \text{EF}_i \quad (\text{EQ-1})$$

Where:

Dose<sub>air</sub> = dose through inhalation (mg/kg/day)

C<sub>DPM</sub> = period average concentration of DPM as estimated by the air dispersion model (µg/m<sup>3</sup>)

DBR = daily breathing rate for each age group (liters/kg-day)—see Table 8

A = Inhalation absorption factor (unitless = 1)

EF = exposure frequency (days per year)

i – number of age groups

The dose is multiplied by the cancer potency factor, the age sensitivity factors (ASF), the exposure duration (ED), and the frequency of time spent at home (FAH, for sensitive/residential receptors only) divided by averaging time (AT) to arrive at an estimate of cancer risk:

$$\text{Cancer Risk} = \sum_{i=1}^n \text{Dose}_{\text{air}, i} \times \text{CPF} \times \text{ASF}_i \times \text{ED}_i \times \text{FAH}_i / \text{AT} \quad (\text{EQ-2})$$

Where:

Cancer Risk = Total individual excess inhalation cancer risk, defined as the cancer risk a hypothetical individual faces if exposed to carcinogenic emissions from a particular source for specified exposure durations; this risk is summed over all age groups; cancer risk is expressed in terms of risk per million exposed individuals.

Dose<sub>air,i</sub> = inhalation dose through inhalation (mg/kg-day)

CPF = inhalation cancer potency factor (mg/kg-day)<sup>-1</sup>

ASF<sub>i</sub> = age sensitivity factors (see Table 8)

ED<sub>i</sub> = exposure duration (years)—see Table 8

AT = averaging time of lifetime cancer risk (70 years)

FAH<sub>i</sub> = fraction of time spent at home—see Table 8

n = number of age groups

For purposes of this HRA, the 30-year exposure duration for sensitive/residential receptors, consistent with the OEHHA/SCAQMD guidance, was assumed to span the time period of the third trimester birth in 2022 (the Project's opening year) to the year 2051. The OEHHA recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans. Estimates of cancer risk were also provided for informational purposes for a child exposure (3<sup>rd</sup> trimester pre-birth to 9-years), adult exposures (30-years), and a full lifetime exposure (3<sup>rd</sup> trimester pre-birth to 70 years)

Table 8 provides the values for the various cancer risk parameters shown in Equation 1 and Equation 2 for the receptor types examined in this assessment. For DPM, the value of the CPF is 1.1 milligrams per kilogram per day.



**Table 8: Exposure Assumptions for Cancer Risk – OEHHA/SCAQMD Guidance**

| Age Group  | Exposure Frequency, EF |           | Exposure Duration, ED (years) | Age Sensitivity Factors (ASF) | Time at Home Factor (TAH) | Daily Breathing Rate <sup>(1)</sup> (DBR) (L/kg-day) |
|--|------------------------|-----------|-------------------------------|-------------------------------|---------------------------|--|
|  | Hours/day              | Days/year |                               |                               |                           |  |
| <b>Sensitive/Residential Receptor—Pre-birth to Adult (30-years duration)</b>   |                        |           |                               |                               |                           |  |
| 3 <sup>rd</sup> Trimester to Birth   | 24                     | 350       | 0.25                          | 10                            | 0.85                      | 361  |
| 0 to 2 years   | 24                     | 350       | 2                             | 10                            | 0.85                      | 1,090  |
| 2 to 16 years  | 24                     | 350       | 14                            | 3                             | 0.72                      | 745  |
| 16 to 30 years   | 24                     | 350       | 14                            | 1                             | 0.73                      | 335  |
| <b>Sensitive Receptor/Residential Child (9-years duration)</b>   |                        |           |                               |                               |                           |  |
| 3 <sup>rd</sup> Trimester to Birth   | 24                     | 350       | 0.25                          | 10                            | 0.85                      | 361  |
| 0 to 2 years   | 24                     | 350       | 2                             | 10                            | 0.85                      | 1,090  |
| 2 – 9 years old  | 24                     | 350       | 9                             | 3                             | 0.72                      | 861  |
| <b>Sensitive Receptor/Residential Receptor – Adult (30-years duration)</b>   |                        |           |                               |                               |                           |  |
| 17 years and older   | 24                     | 350       | 30                            | 1                             | 0.73                      | 335  |
| <b>Sensitive Receptor/Residential Receptor - Pre-birth to Adult (70-years duration)</b>  |                        |           |                               |                               |                           |  |
| 3 <sup>rd</sup> Trimester to Birth   | 24                     | 350       | 0.25                          | 10                            | 0.85                      | 361  |
| 0 to 2 years   | 24                     | 350       | 2                             | 10                            | 0.85                      | 1,090  |
| 2 to 16 years  | 24                     | 350       | 14                            | 3                             | 0.72                      | 745  |
| 16 to 70 years   | 24                     | 350       | 54                            | 1                             | 0.73                      | 290  |
| <b>Worker Receptor (25-years duration)</b>   |                        |           |                               |                               |                           |  |
| 17 years and older   | 8                      | 250       | 25                            | 1                             | 1                         | 230  |
| Note:<br><sup>(1)</sup> Daily breathing rates are representative of the 95 <sup>th</sup> percentile for sensitive/residential receptors<br>(L/kg-day) = liters per kilogram body weight per day<br>Source: SCAQMD Rule 1401. |                        |           |                               |                               |                           |  |

### 2.3.3 Chronic Non-cancer Hazard

TACs can also cause chronic (long-term) effects on non-cancer illnesses such as reproductive effects, birth defects, or adverse environmental effects. Non-cancer health risks are conveyed in terms of the hazard index (HI). A ratio of the predicted concentration of the facility's reported TAC emissions to a concentration is considered acceptable to public health professionals. A significant risk is defined as an HI of 1 or greater. A HI of less than 1 indicates that no significant health risks are expected from the facility's TAC emissions. The following equation gives the relationship for the non-cancer hazards for TACs.

$$HI = C_{ann}/REL \tag{EQ-3}$$

Where:

HI = Hazard Index: an expression of the potential for chronic non-cancer health risks

$C_{ann}$  = Annual average TAC concentration ( $\mu\text{g}/\text{m}^3$ )

REL = Reference Exposure Level: the DPM concentration at which no adverse health effects are anticipated

As predicted by the air dispersion model, annual concentrations of DPM are used to estimate chronic non-cancer hazards. The OEHHA has defined a REL for DPM of  $5 \mu\text{g}/\text{m}^3$ .

## 2.4 - Results of the Health Risk Assessment

### 2.4.1 Project-Level Risk Results

Table 9 presents a summary of the cancer risks and chronic non-cancer hazards resulting from the Project's operational DPM emissions along with the SCAQMD health risk significance thresholds. As noted from Table 9, the estimated maximum cancer risk is 7.7 in one million for sensitive/residential receptors, less than the 10 in one million significance threshold. In addition, the estimated non-cancer hazard index is less than the significance threshold as well. Therefore, the operation of the Project would not result in a significant health impact. In addition, as noted in Table 9, there is no difference in health impacts based on the offsite alternative truck route.

**Table 9: Summary of Proposed Project Health Risk Assessment**

| Location <sup>(1)</sup>                             | Cancer Risk (per million)              |                        | Exceeds Significance Threshold? |
|---|--|------------------------|---------------------------------|
|   | Maximum Lifetime Proposed Project Risk | Significance Threshold |                                 |
| Maximum Impacted Sensitive Receptor- Infant - Adult |  |                        |                                 |
| Offsite Alternative 1                               | 7.7                                    | 10                     | No                              |
| Offsite Alternative 2                               | 7.7                                    | 10                     | No                              |
| Maximum Impacted Sensitive Receptor - Child         |  |                        |                                 |
| Offsite Alternative 1                               | 4.2                                    | 10                     | No                              |
| Offsite Alternative 2                               | 4.2                                    | 10                     | No                              |
| Maximum Impacted Sensitive Receptor – Adult         |  |                        |                                 |
| Offsite Alternative 1                               | 1.3                                    | 10                     | No                              |
| Offsite Alternative 2                               | 1.3                                    | 10                     | No                              |
| Maximum Impacted Sensitive Receptor – 70-years      |  |                        |                                 |
| Offsite Alternative 1                               | 9.1                                    | 10                     | No                              |
| Offsite Alternative 2                               | 9.1                                    | 10                     | No                              |
| Maximum Impacted Worker Receptor                    |  |                        |                                 |
| Offsite Alternative 1                               | 1.0                                    | 10                     | No                              |
| Offsite Alternative 2                               | 1.0                                    | 10                     | No                              |
| Location <sup>(1)</sup>                             | Chronic Non-Cancer Hazard Index        |                        | Exceeds Significance Threshold? |
|   | Estimated Hazard Index                 | Significance Threshold |                                 |
| Maximum Impacted Sensitive Receptor- Infant         | <0.001                                 | 1.0                    | No                              |
| Maximum Impacted Sensitive Receptor - Child         | <0.001                                 | 1.0                    | No                              |
| Maximum Impacted Sensitive Receptor – Adult         | <0.001                                 | 1.0                    | No                              |
| Maximum Impacted Sensitive Receptor – 70-years      | <0.001                                 | 1.0                    | No                              |
| Maximum Impacted Worker Receptor                    | <0.001                                 | 1.0                    | No                              |

Note:

<sup>(1)</sup> The maximum impacted sensitive receptor is located at an existing residence along the northern boundary of the Project  
The maximum impacted worker receptor is located along the southern boundary of the Project

Source:See Data Attachment

## 2.4.2 Cumulative Impact Results

The SCAQMD conducted an analysis of the cumulative effects of toxic air contaminants (TACs) within the South Coast Air Basin as part of its *Multiple Air Toxics Exposure Study in the South Coast Air Basin (MATES-V)*, the draft version of this MATES study series<sup>15</sup>. The MATES studies express cumulative TAC impacts in terms of potential increased cancer risks. The MATES-V Study estimates of the cumulative TAC-source cancer risk for the localized area encompassing the Project site ranges from 300 to 400 in one million. DPM-source cancer risks are reflected in the area's ambient cumulative cancer risk along with all other TAC-source risks and accounts for the predominance (68%) of the total risk shown in MATES-V for the Project site area. The cancer risk upper limit of 400 in a million was assumed to comprise the impact from existing TAC emission sources in the region without the impacts from the Project. Because the existing cancer risk levels already exceed the 10 in one million cumulative significance threshold, a cumulatively significant impact already exists at the Project site.

The TAC emission inventory used in the MATES-V study to estimate health impacts was representative of emissions for the year 2018. In addition to the MATES-V cumulative TAC-source cancer risk noted above, other new or proposed potential TAC-generating projects (related projects) in the Project area not included in the MATES V study could contribute to cumulative TAC impacts. The SCAQMD has applied a 1,000-foot distance from a proposed project to identify other development projects that could contribute to cumulative impacts with the proposed project<sup>16</sup>. The 1,000-foot evaluation distance is supported by research-based findings concerning TAC emission dispersion rates from roadways and large sources, showing that emissions diminish substantially between 500 and 1,000 feet from emission sources. The search radius for this Project was extended to 0.25 miles (1,320 feet) to identify potential cumulative sources.

Within a region of approximately 0.25 miles, four potential projects could add to the overall TAC emission burden within the region<sup>17</sup>. These projects are:

- Majestic Freeway Business Center Building 11
- Majestic Freeway Business Center Building 15
- Majestic Freeway Business Center Building 12
- Seaton Commerce Center

Appropriate information is not readily available to perform a health risk assessment for these planned and foreseeable projects. However, the impacts from these related projects would add to the risks quantified in the MATES-V study that already exceed the 10 in one million cancer risk significance threshold.

Project-level TACs would incrementally increase the background cancer risk by a maximum of 7.7 incidents per million population at the maximum-impacted sensitive receptor. The maximum cancer risk is less than

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<sup>15</sup> SCAQMD 2021. *Multiple Air Toxics Exposure Study in the South Coast Air Basin (MATES-V)*. Website: <http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v>

<sup>16</sup> SCAQMD 2019. CEQA Comment Letter, Mitigated Negative Declaration (MND) for the Proposed Alder II Warehouse Project. Website: <http://www.aqmd.gov/docs/default-source/ceqa/comment-letters/2019/january/SBC181221-08.pdf?sfvrsn=8>

<sup>17</sup> EPDS 2021. Scoping Agreement for Traffic Impact Study. Exhibit B. Cumulative Map

the 10 in one million project-level and cumulative significance thresholds. Therefore, the Project's health risk impacts are neither individually significant nor cumulatively considerable.

# Health Risk Assessment Data Attachment

|   |             |
|---|-------------|
| Estimation of Project Operational DPM Emissions | Page<br>A-1 |
| Estimation of Cancer Risk                       | A-11        |
| AERMOD Model Output                             | A-17        |



**Seaton Avenue/Perry Street Industrial Project  
Emission Assumptions**

**2022  
DPM Emissions**

**Final (8/26/2021)**

**1) Vehicle Emissions**

- (a) Truck and Auto Traffic EMFAC2017
- (b) Location Riverside County (SC)
- (c) Truck Mix  
Project Trip Generation Memo  
EMFAC2017 to derive the % of diesel truck vehicles
- (d) Vehicle Travel Speed  
Onsite Travel 5 mph  
Offsite Travel 25 mph
- (e) Truck Idle time: 15 minutes (truck idling)  
for LHDT, MHDT, and HHDT diesel trucks
- (f) Emission factors for DPM emissions
- (g) Emissions calculated for 2022

**2) Refrigerated Land Uses**

Percentage of Buildings used for Refrigeration (applies to DSL MHDT and HHDT)

|            |     |
|------------|-----|
| Building 1 | 20% |
| Building 2 | 20% |

TRU Onsite Operating Time 2 hours

**3) Traffic Allocation**

- 1) Onsite travel emissions generated from vehicles traveling to building loading docks
- 2) Onsite idling emissions generated only for heavy duty diesel trucks
- 3) Offsite travel trips allocated in accordance with the Traffic Impact Memorandum

| 4) Trip Allocation | Building Size | %Total |
|--------------------|---------------|--------|
| Building 1         | 49,470        | 50%    |
| Building 2         | 49,470        | 50%    |
|                    | 98,940        | 100%   |

**4) Emission Source Configuration**

- 1) Vehicle traffic represented by a line source
- 2) Onsite idling represented as a line source

**5) Vehicle Trip Lengths**

**Onsite Travel Links**

|                                      | Travel Distance (m) | Trip Distance (mi) |
|--------------------------------------|---------------------|--------------------|
| Building 1 driveway to Loading Docks | 197                 | 0.122              |
| Building 2 driveway to Loading Docks | 382                 | 0.237              |

**Off site Travel Links**

|  | Travel Distance (m) | Travel Distance (mi) | % of Truck Travel |
|--|---------------------|----------------------|-------------------|
| <b>Alternative 1</b>   |                     |                      |                   |
| Offsite 1: North on Seaton Avenue > Commerce Cntr                                  | 136                 | 0.084                | 100%              |
| Offsite 2 North on Seaton>Markham St >Harley Knox Blvd to 215                      | 1858                | 1.154                | 50%               |
| Offsite 3 East on CommerceCntr >South on Harville St to Cajalco Expressway to I215 | 1813                | 1.126                | 50%               |
| <b>Alternative 2</b>   |                     |                      |                   |
| Offsite 4: Seaton Ave North>Markham St >Harley Knox Blvd >I215                     | 1964                | 1.220                | 50%               |
| Offsite 5: Seaton Ave south >Perry Street>Harville St>Cajalco Expressway >I215     | 1800                | 1.118                | 50%               |

**6) Other Input Parameters**

|  |     |
|--|-----|
| Facility Operations for Warehouses (hr/day): | 24  |
| Annual Operations (days/year)                | 365 |

**Seaton Avenue/Perry Street Industrial Project**  
**Vehicle Trip Allocation to Buildings (proportional to the relative size of buildings)**

2022

| Building   | Building Size<br>Total<br>(sq-ft) |
|------------|-----------------------------------|
| Building 1 | 49,470                            |
| Building 2 | 49,470                            |
| Total      | 98,940                            |

**Trip Generation**

Trip Generation Rate 4.96 trips/TSF as per Traffic Trip Generation Memorandum

| Building   | trips/day (Non-PCE) |
|------------|---------------------|
| Building 1 | 245                 |
| Building 2 | 245                 |
| Total      | 491                 |

| Vehicle Fleet Distribution | % Trips |
|----------------------------|---------|
| Building 1                 | 50%     |
| Building 2                 | 50%     |

**Vehicle Fleet Mix from Trip Generation Memo**

| Vehicle Distribution     | Daily Trips | Building 1 | Building 2 | Building 3 | Building 4 | Building 5 |
|--------------------------|-------------|------------|------------|------------|------------|------------|
| LDA (Passenger Vehicles) | 78.60%      | 386        | 193        | 193        | 0          | 0          |
| LHDT (2 axle truck)      | 8.00%       | 39         | 20         | 20         | 0          | 0          |
| MHDT(3 axle truck)       | 3.90%       | 19         | 10         | 10         | 0          | 0          |
| HHDT (4+ axle truck)     | 9.50%       | 47         | 23         | 23         | 0          | 0          |
|                          | 100.0%      | 491        | 245        | 245        | 0          | 0          |

**Passenger Vehicle Fleet Mix**

| CaIEEMod<br>Default Mix | % Total | Daily Trips | Building 1 | Building 2 | Building 3 | Building 4 | Building 5 |
|-------------------------|---------|-------------|------------|------------|------------|------------|------------|
| LDA                     | 54.50%  | 238         | 119        | 119        | 0          | 0          | 0          |
| LDT1                    | 3.60%   | 16          | 8          | 8          | 0          | 0          | 0          |
| LDT2                    | 18.60%  | 81          | 41         | 41         | 0          | 0          | 0          |
| MDV                     | 11.50%  | 50          | 25         | 25         | 0          | 0          | 0          |
| Total                   | 88.20%  | 386         | 193        | 193        | 0          | 0          | 0          |

**Light Heavy Duty Fleet Mix**

| CaIEEMod<br>Default Mix | % Total | Daily Trips | % Diesel     | Number of<br>Daily Diesel Trips | Number of Diesel Daily Trips<br>Building 1 | Building 2 |
|-------------------------|---------|-------------|--------------|---------------------------------|--|------------|
| LHDT1                   | 1.50%   | 31          | 51.51%       | 16                              | 8  | 8          |
| LHDT2                   | 0.40%   | 8           | 73.67%       | 6                               | 3  | 3          |
| Total                   | 1.90%   | 39          | <b>Total</b> | 22                              | 11   | 11         |

**CaIEEMod Assumption: Passenger Vehicles + Local Trucks: LDA+LDT+MDT+LHDT w/CaIEEMod default trip distances**

| Fleet Mix | Total Trips | %Total | Daily Trip Rate<br>(Trips/TSF) |
|-----------|-------------|--------|--------------------------------|
| LDA       | 238         | 56.1%  |                                |
| LDT1      | 16          | 3.7%   |                                |
| LDT2      | 81          | 19.1%  |                                |
| MDV       | 50          | 11.8%  |                                |
| LHDT1     | 31          | 7.3%   |                                |
| LHDT2     | 8           | 1.9%   |                                |
| Total     | 425         | 100.0% | 4.30                           |

**CaIEEMod Assumption: Haul Trucks: MHDT +HHDT w/ trip distance of 40 miles**

| Fleet Mix    | Total Trips | %Total | Daily Trip Rate<br>(Trips/TSF) | % Diesel     | Number of<br>Daily Diesel Trips | Building 1 | Building 2 | Total |
|--------------|-------------|--------|--------------------------------|--------------|---------------------------------|------------|------------|-------|
| MHDT         | 19          | 29.1%  |                                | 93.20%       | 18                              | 9          | 9          | 18    |
| HHDT         | 47          | 70.9%  |                                | 99.98%       | 47                              | 23         | 23         | 47    |
| <b>Total</b> | 66          | 100.0% | 0.66                           | <b>Total</b> | 64                              | 32         | 32         | 64    |

| Composite Fleet Mix | Number of Daily Trips | % Total |
|---------------------|-----------------------|---------|
| LDA                 | 238                   | 48.6%   |
| LDT1                | 16                    | 3.2%    |
| LDT2                | 81                    | 16.6%   |
| MDV                 | 50                    | 10.2%   |
| LHDT1               | 31                    | 6.3%    |
| LHDT2               | 8                     | 1.7%    |
| MHDT                | 19                    | 3.9%    |
| HHDT                | 47                    | 9.5%    |
| Total               | 491                   | 100.0%  |

## Seaton Avenue/Perry Street Industrial Project

Pollutant: DPM  
 Year: 2022

### Emission Summary

| Onsite Emissions |            | Emissions<br>(g/sec) | Emissions<br>(lbs/day) |
|------------------|------------|----------------------|------------------------|
| ONSITE1          | Building 1 | 5.11E-06             | 9.72E-04               |
| ONSITE2          | Building 2 | 9.90E-06             | 1.88E-03               |
| Total            |            | 1.50E-05             | 2.86E-03               |

| Idling Emissions |            | Emissions<br>(g/sec) | Emissions<br>(lbs/day) | Idling Locations | Emissions<br>per Idling Location<br>(g/sec) |
|------------------|------------|----------------------|------------------------|------------------|---|
| IB1              | Building 1 | 7.69E-05             | 1.46E-02               | 8                | 9.61E-06                                    |
| IB2              | Building 2 | 7.69E-05             | 1.46E-02               | 8                | 9.61E-06                                    |
| Total            |            | 1.54E-04             | 2.93E-02               |                  |   |

| Offsite Emissions<br>Alternative 1 |                      |                       | Offsite Emissions<br>Alternative 2 |                      |                       |
|------------------------------------|----------------------|-----------------------|------------------------------------|----------------------|-----------------------|
|                                    | Emissions<br>(g/sec) | Emissions<br>(lb/day) |                                    | Emissions<br>(g/sec) | Emissions<br>(lb/day) |
| Offsite 1                          | 2.52E-06             | 4.79E-04              | Offsite 4                          | 1.80E-05             | 3.42E-03              |
| Offsite 2                          | 1.55E-05             | 2.95E-03              | Offsite 5                          | 1.50E-05             | 2.85E-03              |
| Offsite 3                          | 1.51E-05             | 2.87E-03              | Total                              | 3.30E-05             | 6.28E-03              |
| Total                              | 6.14E-05             | 1.17E-02              |                                    |                      |                       |

| Fire Pump |            | Emissions<br>(g/sec) | Emissions<br>(lb/day) |
|-----------|------------|----------------------|-----------------------|
|           | Building 1 | 4.13E-05             | 7.86E-03              |
|           | Building 2 | 4.13E-05             | 7.86E-03              |
| Total     |            | 8.26E-05             | 1.57E-02              |

| Total Emissions (Offsite Alternative 1) |                      |                       |
|---|----------------------|-----------------------|
|   | Emissions<br>(g/sec) | Emissions<br>(lb/day) |
| Total                                   | 3.13E-04             | 5.95E-02              |

| Total Emissions (Offsite Alternative 2) |                      |                       |
|---|----------------------|-----------------------|
|   | Emissions<br>(g/sec) | Emissions<br>(lb/day) |
| Total                                   | 2.84E-04             | 5.41E-02              |

Seaton Avenue/Perry Street Industrial Project  
 Emissions from Onsite Delivery and TRU Travel  
 DPM Emissions

Year: 2022

Truck Operations

Assumption: Number of TRUs = % Cold Storage x Number of DSL LHDT1+LHDT2+MHDT + HHDT

| AERMOD ID | On-Site Truck Delivery Emissions               | Trip Length<br>(mi) | Operations | DSL Daily |      |       |       |     |          |          |          |          |          |          |          | DSL Daily |          |       |  |
|-----------|--|---------------------|------------|-----------|------|-------|-------|-----|----------|----------|----------|----------|----------|----------|----------|-----------|----------|-------|--|
|           |  |                     |            | HHDT      | MHDT | LHDT1 | LHDT2 | TRU | HHDT     | MHDT     | LHDT1    | LHDT2    | Trucks   | TRU      | Total    | Total     | Total    | Total |  |
| ONSITE1   | Exhaust Emissions - Truck Travel to Building 1 | 0.122               | 24         | 23        | 9    | 8     | 3     | 8   | 1.24E-01 | 7.66E-02 | 7.49E-02 | 2.54E-02 | 3.01E-01 | 1.40E-01 | 4.41E-01 | 9.72E-04  | 5.11E-06 |       |  |
| ONSITE2   | Exhaust Emissions - Truck Travel to Building 2 | 0.237               | 24         | 23        | 9    | 8     | 3     | 8   | 2.40E-01 | 1.49E-01 | 1.45E-01 | 4.92E-02 | 5.83E-01 | 2.72E-01 | 8.55E-01 | 1.88E-03  | 9.90E-06 |       |  |
|           |  |                     |            | 47        | 18   | 16    | 6     | 16  | 3.64E-01 | 2.25E-01 | 2.20E-01 | 7.46E-02 | 8.84E-01 | 4.13E-01 | 1.30E+00 | 2.86E-03  | 1.50E-05 |       |  |

Operation Days = 365  
 Delivery Truck Hours (hrs/day) = 24  
 Delivery Truck Speed (mph) = 5

Daily Truck Emissions = Emission Factor (g/mi) \* (Truck trips/day) \* (miles/Truck Trip)

Daily TRU Emissions = Emission Rate (g/hr) \* (TRU Trips/day / Speed (m/hr) \* (miles/TRU Trip)

Diesel Truck Emission Factors (EMFAC2017)

2-Axle (LHDT1) = 0.077  
 2-axle (LHDT2) = 0.068  
 3-Axle MHDT (g/mi) = 0.070  
 4-Axle HHD (g/mi) = 0.043

Truck emissions for trucks based on EMFAC 2017 for truck speed of 5 mph Riverside County (SC) 2022  
 Truck emissions (lb/hr) = EF (g/mi) \* Road Length (mi) \* No. Trips / Hours per day \* conversion factors

TRU Emission Factor

TRU Emission Rate (g/hr) = 0.72  
 TRU run time during travel (hr) = Road Length (mi)/Truck Speed (mph)  
 TRU emissions per link (g/day) = TRU Emission Rate (g/hr) x TRU run time during travel (hr) x # TRUs

Notes:

Emission factor derived from CARB EMFAC2017 model as the fleet average for Riverside County (SC) 2022  
 TRU emission factor from OFFROAD2017

Seaton Avenue/Perry Street Industrial Project 2022  
 Onsite Truck Delivery Idling and TRU Operational Emissions  
 DPM Emissions

Truck Onsite Idling and TRU Operations

| AERMOD ID                   | User/ Location              | Average Daily Truck Deliveries |             |              |              |            | Idle Time per Truck (hour/day) | HHDTruck Emissions (g/day) | MHDTruck Emissions (g/day) | LHDTruck1 Emissions (g/day) | LHDTruck2 Emissions (g/day) | Total Truck (g/day) | TRU OP Time (hours/day/TRU) | Total TRU Emissions (g/day) | Total Emissions (g/day) | Emissions Average (lb/day) | Emissions Average (g/sec) |
|-----------------------------|-----------------------------|--------------------------------|-------------|--------------|--------------|------------|--------------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|---------------------|-----------------------------|-----------------------------|-------------------------|----------------------------|---------------------------|
|                             |                             | HHD Trucks                     | MHDT Trucks | LHDT1 Trucks | LHDT2 Trucks | TRU Number |                                |                            |                            |                             |                             |                     |                             |                             |                         |                            |                           |
| <b>Truck Idling Sources</b> |                             |                                |             |              |              |            |                                |                            |                            |                             |                             |                     |                             |                             |                         |                            |                           |
| IB11 to IB18                | Idling Sources - Building 1 | 12                             | 4           | 4            | 2            | 4          | 0.250                          | 4.44E-02                   | 1.58E-01                   | 4.66E-01                    | 2.38E-01                    | 9.07E-01            | 2.000                       | 5.74E+00                    | 6.64E+00                | 1.46E-02                   | 7.69E-05                  |
| IB21 to IB28                | Idling Sources - Building 2 | 12                             | 4           | 4            | 2            | 4          | 0.250                          | 4.44E-02                   | 1.58E-01                   | 4.66E-01                    | 2.38E-01                    | 9.07E-01            | 2.000                       | 5.74E+00                    | 6.64E+00                | 1.46E-02                   | 7.69E-05                  |
| <b>Totals</b>               |                             | <b>23</b>                      | <b>9</b>    | <b>8</b>     | <b>3</b>     | <b>8</b>   |                                | <b>8.88E-02</b>            | <b>3.17E-01</b>            | <b>9.32E-01</b>             | <b>4.76E-01</b>             | <b>1.81E+00</b>     |                             | <b>1.15E+01</b>             | <b>1.33E+01</b>         | <b>2.93E-02</b>            | <b>1.54E-04</b>           |

Daily Operation = 24 per day  
 Operation Days = 365 days/year  
 TRU Emissions  
 TRU Emission Rate = 0.72 g/hr

Daily Truck idle emissions = Idle EF (g/hr) \* idle time (min)/60 / daily hours (hr)/3600 \* No. trucks  
 Daily TRU emissions = TRU Emission Rate (g/hr) \* TRU run time (min)/60 / Daily Hours (hr) \* No. TRUs

**Diesel Diesel Truck Emission Factors\***

LHDT1 Truck Idle Emissions (g/hr) = 0.467 g/hr  
 LHDT2 Truck Idle Emissions (g/hr) = 0.625 g/hr  
 MHDT Truck Idle Emissions (g/hr) = 0.142 g/hr  
 HHD Truck Idle Emissions (g/hr) = 0.015 g/hr

Truck idle time (min) = 15 min

Notes:  
 TRU emission factor from OFFROAD2017

Idling emission factor derived from CARB EMFAC2017 model as the fleet average for Riverside County in 2022

Truck Operations

Off-Site Truck Delivery Emissions - Alternative 1

| AERMOD ID    | Trip Description   | Trip        |                 |                                  |                                  |                                   |                                   | Emissions          |                            |                            |                             | Total Emissions             |                         |                       |                       |                        |
|--------------|--|-------------|-----------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|--------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-------------------------|-----------------------|-----------------------|------------------------|
|              |  | Length (mi) | Operations (hr) | Number of HHDT Trips (trips/day) | Number of MHD1 Trips (trips/day) | Number of LHDT1 Trips (trips/day) | Number of LHDT2 Trips (trips/day) | TRU Trips (number) | HHDT Emissions (grams/day) | MHD1 Emissions (grams/day) | LHDT1 Emissions (grams/day) | LHDT2 Emissions (grams/day) | Truck Emissions (g/day) | TRU Total (grams/day) | Daily Total (lbs/day) | Hourly Ave (grams/sec) |
| OFFSITE1     | Offsite1: North on Seaton Avenue > Commerce Cntr                                   | 0.084       | 24              | 47                               | 18                               | 16                                | 6                                 | 17                 | 7.21E-02                   | 5.38E-02                   | 3.71E-02                    | 1.34E-02                    | 1.76E-01                | 4.12E-02              | 4.79E-04              | 2.52E-06               |
| OFFSITE2     | Offsite 2 North on Seaton>Markham St >Harley Knox Blvd to 215                      | 1.154       | 24              | 23                               | 9                                | 8                                 | 3                                 | 4                  | 4.92E-01                   | 3.68E-01                   | 2.54E-01                    | 9.17E-02                    | 1.21E+00                | 1.32E-01              | 2.95E-03              | 1.55E-05               |
| Offsite 3    | Offsite 3 East on CommerceCntr >South on Harville St to Cajalco Expressway to I215 | 1.126       | 24              | 23                               | 9                                | 8                                 | 3                                 | 4                  | 4.81E-01                   | 3.59E-01                   | 2.47E-01                    | 8.94E-02                    | 1.18E+00                | 1.29E-01              | 2.87E-03              | 1.51E-05               |
| <b>Total</b> |  |             |                 |                                  |                                  |                                   |                                   |                    | <b>2.04E+00</b>            | <b>1.52E+00</b>            | <b>1.05E+00</b>             | <b>3.80E-01</b>             | <b>5.00E+00</b>         | <b>3.03E-01</b>       | <b>1.17E-02</b>       | <b>6.14E-05</b>        |

Operation Days = 365  
 Delivery Truck Hours (hrs/day) = 24  
 Delivery Truck Speed (mph) = 25  
**Diesel Truck Emission Factors (EMFAC2017)**  
 2-axle LHDT1 (g/mi) = 0.028  
 2-axle LHDT2 (g/mi) = 0.026  
 3-Axle MHD1 (g/mi) = 0.036  
 4-Axle HHD (g/mi) = 0.018

Truck emissions for trucks based on EMFAC 2017 for truck speed of 25 mph and Riverside County (SC) 2022

**TRU Emission Factor**  
 TRU Emission Rate\* (g/hr) = 0.72  
 \*TRU run time during travel (hr) = Road Length (mi)/Truck Speed (mph)  
 Notes:  
 TRU emission factor from OFFROAD2017



Truck Operations

Off-Site Truck Delivery Emissions - Alternative 2

| AERMOD ID    | Trip Description  | Trip        |                 | Number of              |                  | Number of         |                   | Number of          |                       | Number of             |                             | Total Emissions             |                         |                       |                       |                        |
|--------------|---|-------------|-----------------|------------------------|------------------|-------------------|-------------------|--------------------|-----------------------|-----------------------|-----------------------------|-----------------------------|-------------------------|-----------------------|-----------------------|------------------------|
|              |   | Length (mi) | Operations (hr) | HHDT Trips (trips/day) | MHDT (trips/day) | LHDT1 (trips/day) | LHDT2 (trips/day) | TRU Trips (number) | Emissions (grams/day) | Emissions (grams/day) | LHDT1 Emissions (grams/day) | LHDT2 Emissions (grams/day) | Truck Emissions (g/day) | TRU Total (grams/day) | Daily Total (lbs/day) | Hourly Ave (grams/sec) |
| OFFSITE4     | Offsite 4: Seaton Ave North>Markham St >Harley Knox Blvd >I215                  | 1.220       | 24              | 23                     | 9                | 8                 | 3                 | 8                  | 5.21E-01              | 3.88E-01              | 2.68E-01                    | 9.69E-02                    | 1.27E+00                | 2.80E-01              | 3.42E-03              | 1.80E-05               |
| OFFSITE5     | Offsite 5: Seaton Ave south >Perry Streets>Harville St>Cajalco Expressway >I215 | 1.118       | 24              | 23                     | 9                | 8                 | 3                 | 4                  | 4.77E-01              | 3.56E-01              | 2.46E-01                    | 8.88E-02                    | 1.17E+00                | 1.28E-01              | 2.85E-03              | 1.50E-05               |
| <b>Total</b> |   |             |                 |                        |                  |                   |                   |                    | <b>2.00E+00</b>       | <b>1.49E+00</b>       | <b>1.03E+00</b>             | <b>3.71E-01</b>             | <b>4.88E+00</b>         | <b>4.08E-01</b>       | <b>1.17E-02</b>       | <b>6.12E-05</b>        |

Operation Days = 365  
 Delivery Truck Hours (hrs/day) = 24  
 Delivery Truck Speed (mph) = 25  
**Diesel Truck Emission Factors (EMFAC2017)**  
 2-axle LHDT1 (g/mi) = 0.028  
 2-axle LHDT2 (g/mi) = 0.026  
 3-Axle MHDT (g/mi) = 0.036  
 4-Axle HHD (g/mi) = 0.018

Truck emissions for trucks based on EMFAC 2017 for truck speed of 25 mph and Riverside County (SC) 2022

**TRU Emission Factor**  
 TRU Emission Rate\* (g/hr) = 0.72  
 TRU run time during travel (hr) = Road Length (mi)/Truck Speed (mph)

Notes:  
 TRU emission factor from OFFROAD2017

# Seaton Avenue/Perry Street Industrial Project

## CalEEMod Estimated DPM Emissions from The Fire Pumps

|                  |               |
|------------------|---------------|
| Number of Pumps  | 2             |
| Pump             | 238 hp        |
| Emission Factor: | 0.15 g/hp-hr  |
| Usage Rate:      | 50 hours/year |
| Load Factor      | 0.73          |

|                                |                      |
|--------------------------------|----------------------|
| Annual Emission from CalEEMod: | 2.87E-03 tons/year   |
|                                | 5.74E+00 pounds/year |
|                                | 6.55E-04 pounds/hour |
| Total                          | 8.26E-05 grams/sec   |
| Building 1                     | 4.13E-05 grams/sec   |
| Building 2                     | 4.13E-05 grams/sec   |

## Manufacture Peerless Pump Model 6AEF14Q

John Deer Model 6068HFC48B

Diesel Fuel

|                    |               |        |
|--------------------|---------------|--------|
| Rated Power:       | 187 hp        |        |
| Peak Pump Power:   | 228 hp        |        |
| Engine Power:      | 238 hp        |        |
| Exhaust Flow:      | 1513 cf/min   |        |
| Exhaust Temp:      | 453 c or      | 847 k  |
| Stack Dia.         | 6 in or       | 0.15 m |
| Stack Height       | 5.50 m        |        |
| Maintenance Hours: | 50 hours/year |        |
| Load Factor        | 0.73          |        |

Source: EN Riverside County (SC)

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

| Region      | Calendar Y | Vehicle Cal | Model Yea | Speed     | Fuel        | VMT      | DSL-VMT | GAS-VMT  | %DSL-VMT |          |          |
|-------------|------------|-------------|-----------|-----------|-------------|----------|---------|----------|----------|----------|----------|
| Riverside ( | 2022       | LDA         | Aggregate | Aggregate | Diesel      | 239612.1 | LDA     | 239612.1 | 23700815 | 0.010009 |          |
| Riverside ( | 2022       | LDT1        | Aggregate | Aggregate | Diesel      | 601.668  | LDT1    | 601.668  | 2261930  | 0.000266 |          |
| Riverside ( | 2022       | LDT2        | Aggregate | Aggregate | Diesel      | 48028.56 | LDT2    | 48028.56 | 7165411  | 0.006658 |          |
| Riverside ( | 2022       | LHDT1       | Aggregate | Aggregate | Diesel      | 530194.9 | LHDT1   | 530194.9 | 499086.1 | 0.515112 |          |
| Riverside ( | 2022       | LHDT2       | Aggregate | Aggregate | Diesel      | 205588.3 | LHDT2   | 205588.3 | 73474.64 | 0.736709 |          |
| Riverside ( | 2022       | MDV         | Aggregate | Aggregate | Diesel      | 137165.9 | MDV     | 137165.9 | 5597390  | 0.023919 |          |
| Riverside ( | 2022       | T6-MHDT     | Aggregate | Aggregate | Diesel      | 740259.9 | T6-MHDT | 740259.9 | 54049.91 | 0.931954 |          |
| Riverside ( | 2022       | T7-HHDT     | Aggregate | Aggregate | Diesel      | 1943054  | T7-HHDT | 1943054  | 469.2901 | 0.999759 |          |
| Riverside ( | 2022       | LDA         | Aggregate | Aggregate | Electricity | 374200.2 |         |          |          |          |          |
| Riverside ( | 2022       | LDT1        | Aggregate | Aggregate | Electricity | 14552.99 | Total   | 3844505  | 39352626 | 43197131 |          |
| Riverside ( | 2022       | LDT2        | Aggregate | Aggregate | Electricity | 52184.74 |         |          |          |          |          |
| Riverside ( | 2022       | MDV         | Aggregate | Aggregate | Electricity | 29245.37 |         |          |          |          |          |
| Riverside ( | 2022       | LDA         | Aggregate | Aggregate | Gasoline    | 23700815 | LHDT1   | 530194.9 | 499086.1 | 1029281  | 0.786705 |
| Riverside ( | 2022       | LDT1        | Aggregate | Aggregate | Gasoline    | 2261930  | LHDT2   | 205588.3 | 73474.64 | 279062.9 | 0.213295 |
| Riverside ( | 2022       | LDT2        | Aggregate | Aggregate | Gasoline    | 7165411  |         | 735783.2 | 572560.7 | 1308344  |          |
| Riverside ( | 2022       | LHDT1       | Aggregate | Aggregate | Gasoline    | 499086.1 |         |          |          |          |          |
| Riverside ( | 2022       | LHDT2       | Aggregate | Aggregate | Gasoline    | 73474.64 |         |          |          |          |          |
| Riverside ( | 2022       | MDV         | Aggregate | Aggregate | Gasoline    | 5597390  |         |          |          |          |          |
| Riverside ( | 2022       | T6-MHDT     | Aggregate | Aggregate | Gasoline    | 54049.91 |         |          |          |          |          |
| Riverside ( | 2022       | T7-HHDT     | Aggregate | Aggregate | Gasoline    | 469.2901 |         |          |          |          |          |

Source: EMFAC2017 (v1.0.3) Emission Rates

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC2007 Categories

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

| Region      | Calendar Y | Vehicle Cal | Model Yea | Speed | Fuel      | VMT      | NOx_RUNI | PM2.5_RU | PM10_RUI | CO2_RUNI | CH4_RUNE | N2O_RUNI | ROG_RUNI | TOG_RUNI | CO_RUNE  | SOx_RUNEX |
|-------------|------------|-------------|-----------|-------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Riverside ( | 2022       | LHDT1       | Aggregate |       | 5 Diesel  | 913.1152 | 2.061171 | 0.073399 | 0.076718 | 1231.332 | 0.035676 | 0.193548 | 0.768091 | 0.87442  | 3.179126 | 0.011641  |
| Riverside ( | 2022       | LHDT2       | Aggregate |       | 5 Diesel  | 354.0694 | 1.760751 | 0.065215 | 0.068164 | 1301.353 | 0.035329 | 0.204555 | 0.760614 | 0.865908 | 3.230212 | 0.012302  |
| Riverside ( | 2022       | T6-MHDT     | Aggregate |       | 5 Diesel  | 1658.394 | 7.838315 | 0.067185 | 0.070223 | 2376.486 | 0.030909 | 0.373551 | 0.665454 | 0.757569 | 1.635134 | 0.022452  |
| Riverside ( | 2022       | T7-HHDT     | Aggregate |       | 5 Diesel  | 3508.63  | 14.9926  | 0.041514 | 0.043391 | 3689.988 | 0.023241 | 0.580015 | 0.500369 | 0.569631 | 2.674518 | 0.034861  |
| Riverside ( | 2022       | LHDT1       | Aggregate |       | 25 Diesel | 9481.661 | 2.200071 | 0.026325 | 0.027515 | 511.0423 | 0.006156 | 0.080329 | 0.132534 | 0.150882 | 0.614222 | 0.004831  |
| Riverside ( | 2022       | LHDT2       | Aggregate |       | 25 Diesel | 3676.607 | 1.769049 | 0.024954 | 0.026082 | 585.1806 | 0.005454 | 0.091982 | 0.117413 | 0.133666 | 0.54821  | 0.005532  |
| Riverside ( | 2022       | T6-MHDT     | Aggregate |       | 25 Diesel | 14987.53 | 2.966699 | 0.034159 | 0.035704 | 1181.216 | 0.004869 | 0.185671 | 0.104827 | 0.119338 | 0.367141 | 0.011116  |
| Riverside ( | 2022       | T7-HHDT     | Aggregate |       | 25 Diesel | 35994.02 | 5.2185   | 0.017516 | 0.018308 | 1749.633 | 0.005358 | 0.275018 | 0.115349 | 0.131316 | 0.588739 | 0.01653   |

Idling Emission Factors

|             |             |       |       |      |          |
|-------------|-------------|-------|-------|------|----------|
| 2022 Annual | Riverside ( | HHDT  | IDLEX | PM10 | 0.015241 |
| 2022 Annual | Riverside ( | LHDT1 | IDLEX | PM10 | 0.466914 |
| 2022 Annual | Riverside ( | LHDT2 | IDLEX | PM10 | 0.625075 |
| 2022 Annual | Riverside ( | MHDT  | IDLEX | PM10 | 0.142127 |

**TRU Emissions**

**Estimate of TRU Emission Rates**

| Region       | Calendar Y | Vehicle Ca  | Model Year | Horsepower Bin | Fuel   | PM10_tpd  | Total_Activity_hpy | Horsepower_Hours_hhpy |
|--------------|------------|-------------|------------|----------------|--------|-----------|--------------------|-----------------------|
| Riverside (  | 2022       | TRU - Insta | Aggregate  | 25             | Diesel | 0.0013244 | 328809.3343        | 4636211.613           |
| Riverside (  | 2022       | TRU - Insta | Aggregate  | 25             | Diesel | 3.066E-05 | 11925.72715        | 107331.5443           |
| Riverside (: | 2022       | TRU - Insta | Aggregate  | 50             | Diesel | 6.76E-05  | 158729.8584        | 4999990.54            |
| Riverside (  | 2022       | TRU - Insta | Aggregate  | 50             | Diesel | 0.0032278 | 1221903.942        | 41544734.02           |
| Riverside (  | 2022       | TRU - Out-  | Aggregate  | 50             | Diesel | 4.248E-05 | 100020.0049        | 3150630.154           |
| Riverside (: | 2022       | TRU - Out-  | Aggregate  | 50             | Diesel | 0.0008995 | 763295.1766        | 25952036              |
| Riverside (  | 2022       | TRU - Railc | Aggregate  | 50             | Diesel | 9.311E-05 | 79010.88373        | 2686370.047           |

**PM10 Emissions**

| Pollutant | Vehicle Category               | Horsepower | Emissions (t/d) | Emissions (t/yr) | Emissions (grams/year) | Usage (hp-hr/yr)  | Emission factor (grams/hp-hr) | Activity (hrs/year) | Horsepower (HP)      | Emission Rate (grams/hr) |
|-----------|--------------------------------|------------|-----------------|------------------|------------------------|-------------------|-------------------------------|---------------------|----------------------|--------------------------|
| PM10      | TRU - Instate Truck TRU        | 25         | 0.001324        | 0.483394         | 438921.7834            | 4636211.613       | 0.094672509                   | 328809.3            | 14.1                 | 1.33488237               |
|           | TRU - Instate Van TRU          | 25         | 3.07E-05        | 0.0111909        | 10161.34664            | 107331.5443       | 0.094672509                   | 11925.73            | 9                    | 0.852052584              |
|           | TRU - Instate Genset TRU       | 50         | 6.76E-05        | 0.0246725        | 22402.66696            | 4999990.54        | 0.004480542                   | 158729.9            | 31.5                 | 0.141137069              |
|           | TRU - Instate Trailer TRU      | 50         | 0.003228        | 1.1781473        | 1069757.73             | 41544734.02       | 0.025749539                   | 1221904             | 34                   | 0.87548431               |
|           | TRU - Out-of-State Genset TRU  | 50         | 4.25E-05        | 0.0155049        | 14078.45312            | 3150630.154       | 0.004468456                   | 100020              | 31.5                 | 0.140756373              |
|           | TRU - Out-of-State Trailer TRU | 50         | 0.0009          | 0.3283191        | 298113.7543            | 25952036          | 0.011487105                   | 763295.2            | 34                   | 0.390561559              |
|           |                                |            |                 |                  |                        | Weighted by Usage | 0.023055283                   |                     | Weighted by Activity | 0.717084063              |

Cancer Risk Calculation - Location of Max Risk

| SCAQMD Guidance  | Residential | 30-year Exposure    |                    |                    |            |           |            |         |     | Total Cancer risk               |
|--|-------------|---------------------|--------------------|--------------------|------------|-----------|------------|---------|-----|---------------------------------|
| Annual DPM Concentration at Max Impacted Sensiive Receptor |             |                     | 0.01131 ug/m3      |                    |            |           |            |         |     | 7.71                            |
| Year   | Year        | Maximum DPM (ug/m3) | CPF (mg/kg-day)^-1 | 95% DBR (l/kg-day) | ED (years) | EF (days) | AT (years) | TAH (%) | ASF | Operational Risk (risk/million) |
| 3rd Trimester  | 2022        | 0.01131             | 1.1                | 361                | 0.25       | 350       | 25550      | 0.85    | 10  | 0.13                            |
| 1  | 2022        | 0.01131             | 1.1                | 1090               | 1          | 350       | 25550      | 0.85    | 10  | 1.58                            |
| 2  | 2023        | 0.01131             | 1.1                | 1090               | 1          | 350       | 25550      | 0.85    | 10  | 1.58                            |
| 3  | 2024        | 0.01131             | 1.1                | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 4  | 2025        | 0.01131             | 1.1                | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 5  | 2026        | 0.01131             | 1.1                | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 6  | 2027        | 0.01131             | 1.1                | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 7  | 2028        | 0.01131             | 1.1                | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 8  | 2029        | 0.01131             | 1.1                | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 9  | 2030        | 0.01131             | 1.1                | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 10   | 2031        | 0.01131             | 1.1                | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 11   | 2032        | 0.01131             | 1.1                | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 12   | 2033        | 0.01131             | 1.1                | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 13   | 2034        | 0.01131             | 1.1                | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 14   | 2035        | 0.01131             | 1.1                | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 15   | 2036        | 0.01131             | 1.1                | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 16   | 2037        | 0.01131             | 1.1                | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 17   | 2038        | 0.01131             | 1.1                | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 18   | 2039        | 0.01131             | 1.1                | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 19   | 2040        | 0.01131             | 1.1                | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 20   | 2041        | 0.01131             | 1.1                | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 21   | 2042        | 0.01131             | 1.1                | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 22   | 2043        | 0.01131             | 1.1                | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 23   | 2044        | 0.01131             | 1.1                | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 24   | 2045        | 0.01131             | 1.1                | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 25   | 2046        | 0.01131             | 1.1                | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 26   | 2047        | 0.01131             | 1.1                | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 27   | 2048        | 0.01131             | 1.1                | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 28   | 2049        | 0.01131             | 1.1                | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 29   | 2050        | 0.01131             | 1.1                | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 30   | 2051        | 0.01131             | 1.1                | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |

## Seaton Avenue/Perry Street Industrial Project - Offsite Alternative 1 and Alternative 2

### Cancer Risk Calculation - Location of Max Risk

| SCAQMD Guidance  |      | Residential               | Child (9 years)       |                          |               |              |               |            |     | Total<br>Cancer risk                  |
|--|------|---------------------------|-----------------------|--------------------------|---------------|--------------|---------------|------------|-----|---------------------------------------|
| Annuak DPM Concentration at Max Impacted Sensiive Receptor |      |                           |                       | 0.01131 ug/m3            |               |              |               |            |     | 4.16                                  |
| Year   | Year | Maximum<br>DPM<br>(ug/m3) | CPF<br>(mg/kg-day)^-1 | 95%<br>DBR<br>(l/kg-day) | ED<br>(years) | EF<br>(days) | AT<br>(years) | TAH<br>(%) | ASF | Operational<br>Risk<br>(risk/million) |
| 2  | 2022 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.85       | 3   | 0.32                                  |
| 3  | 2023 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.72       | 3   | 0.27                                  |
| 4  | 2024 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.72       | 3   | 0.27                                  |
| 5  | 2025 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.72       | 3   | 0.27                                  |
| 6  | 2026 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.72       | 3   | 0.27                                  |
| 7  | 2027 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.72       | 3   | 0.27                                  |
| 8  | 2028 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.72       | 3   | 0.27                                  |
| 9  | 2029 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.72       | 3   | 0.27                                  |
| 10   | 2030 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.72       | 3   | 0.27                                  |
| 11   | 2031 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.72       | 3   | 0.27                                  |
| 12   | 2032 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.72       | 3   | 0.27                                  |
| 13   | 2033 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.72       | 3   | 0.27                                  |
| 14   | 2034 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.72       | 3   | 0.27                                  |
| 15   | 2035 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.72       | 3   | 0.27                                  |
| 16   | 2036 | 0.01131                   | 1.1                   | 745                      | 1             | 350          | 25550         | 0.72       | 3   | 0.27                                  |



## Seaton Avenue/Perry Street Industrial Project - Offsite Alternative 1 and Alternative 2

### Cancer Risk Calculation - Location of Max Risk

| SCAQMD Guidance   | Residential | 30-year Exposure                 | Adult                         |                    |            |           |            |         |     | Total Cancer risk               |
|---|-------------|----------------------------------|-------------------------------|--------------------|------------|-----------|------------|---------|-----|---------------------------------|
| Annual DPM Concentration at Max Impacted Sensitive Receptor |             |                                  | 0.01131 ug/m <sup>3</sup>     |                    |            |           |            |         |     | 1.25                            |
| Year  | Year        | Maximum DPM (ug/m <sup>3</sup> ) | CPF (mg/kg-day) <sup>-1</sup> | 95% DBR (l/kg-day) | ED (years) | EF (days) | AT (years) | TAH (%) | ASF | Operational Risk (risk/million) |
| 1   | 2022        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 2   | 2023        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 3   | 2024        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 4   | 2025        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 5   | 2026        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 6   | 2027        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 7   | 2028        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 8   | 2029        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 9   | 2030        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 10  | 2031        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 11  | 2032        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 12  | 2033        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 13  | 2034        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 14  | 2035        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 15  | 2036        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 16  | 2037        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 17  | 2038        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 18  | 2039        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 19  | 2040        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 20  | 2041        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 21  | 2042        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 22  | 2043        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 23  | 2044        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 24  | 2045        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 25  | 2046        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 26  | 2047        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 27  | 2048        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 28  | 2049        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 29  | 2050        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 30  | 2051        | 0.01131                          | 1.1                           | 335                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |

**Seaton Avenue/Perry Street Industrial Project - Offsite Alternative 1 and Alternative 2**

**Cancer Risk Calculation - Location of Max Risk**

SCAQMD Guidance Residential 70-year Exposure Total  
Cancer risk  
9.08  
 Annual DPM Concentration at Max Impacted Sensitive Receptor 0.01131 ug/m3

| Year          | Year | Maximum DPM (ug/m3) | CPF (mg/kg-day) <sup>-1</sup> | 95% DBR (l/kg-day) | ED (years) | EF (days) | AT (years) | TAH (%) | ASF | Operational Risk (risk/million) |
|---------------|------|---------------------|-------------------------------|--------------------|------------|-----------|------------|---------|-----|---------------------------------|
| 3rd Trimester | 2022 | 0.01131             | 1.1                           | 361                | 0.25       | 350       | 25550      | 0.85    | 10  | 0.13                            |
| 1             | 2022 | 0.01131             | 1.1                           | 1090               | 1          | 350       | 25550      | 0.85    | 10  | 1.58                            |
| 2             | 2023 | 0.01131             | 1.1                           | 1090               | 1          | 350       | 25550      | 0.85    | 10  | 1.58                            |
| 3             | 2024 | 0.01131             | 1.1                           | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 4             | 2025 | 0.01131             | 1.1                           | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 5             | 2026 | 0.01131             | 1.1                           | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 6             | 2027 | 0.01131             | 1.1                           | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 7             | 2028 | 0.01131             | 1.1                           | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 8             | 2029 | 0.01131             | 1.1                           | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 9             | 2030 | 0.01131             | 1.1                           | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 10            | 2031 | 0.01131             | 1.1                           | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 11            | 2032 | 0.01131             | 1.1                           | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 12            | 2033 | 0.01131             | 1.1                           | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 13            | 2034 | 0.01131             | 1.1                           | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 14            | 2035 | 0.01131             | 1.1                           | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 15            | 2036 | 0.01131             | 1.1                           | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 16            | 2037 | 0.01131             | 1.1                           | 745                | 1          | 350       | 25550      | 0.72    | 3   | 0.27                            |
| 17            | 2038 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 18            | 2039 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 19            | 2040 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 20            | 2041 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 21            | 2042 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 22            | 2043 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 23            | 2044 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 24            | 2045 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 25            | 2046 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 26            | 2047 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 27            | 2048 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 28            | 2049 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 29            | 2050 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 30            | 2051 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 31            | 2052 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 32            | 2053 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 33            | 2054 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 34            | 2055 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 35            | 2056 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 36            | 2057 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 37            | 2058 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 38            | 2059 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 39            | 2060 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 40            | 2061 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 41            | 2062 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 42            | 2063 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 43            | 2064 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 44            | 2065 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 45            | 2066 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 46            | 2067 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 47            | 2068 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 48            | 2069 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 49            | 2070 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 50            | 2071 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 51            | 2072 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 52            | 2073 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 53            | 2074 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 54            | 2075 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 55            | 2076 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 56            | 2077 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 57            | 2078 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 58            | 2079 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 59            | 2080 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 60            | 2081 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 61            | 2082 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 62            | 2083 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 63            | 2084 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 64            | 2085 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 65            | 2086 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 66            | 2087 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 67            | 2088 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 68            | 2089 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 69            | 2090 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |
| 70            | 2091 | 0.01131             | 1.1                           | 290                | 1          | 350       | 25550      | 0.73    | 1   | 0.04                            |

## Seaton Avenue/Perry Street Industrial Project - Offsite Alternative 1 and Alternative 2

### Cancer Risk Calculation - Location of Max Risk

| SCAQMD Guidance  | Worker | 25-year Exposure          |                       |                   |               |              |               |            |     |                                       | Total<br>Cancer risk |
|--|--------|---------------------------|-----------------------|-------------------|---------------|--------------|---------------|------------|-----|---------------------------------------|----------------------|
| Annual DPM Concentration at Max Impacted Sensiive Receptor |        |                           |                       | 0.01613 ug/m3     |               |              |               |            |     |                                       | 1.00                 |
| Year   | Year   | Maximum<br>DPM<br>(ug/m3) | CPF<br>(mg/kg-day)^-1 | DBR<br>(l/kg-day) | ED<br>(years) | EF<br>(days) | AT<br>(years) | TAH<br>(%) | ASF | Operational<br>Risk<br>(risk/million) |                      |
| 1  | 2022   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 2  | 2023   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 3  | 2024   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 4  | 2025   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 5  | 2026   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 6  | 2027   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 7  | 2028   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 8  | 2029   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 9  | 2030   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 10   | 2031   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 11   | 2032   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 12   | 2033   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 13   | 2034   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 14   | 2035   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 15   | 2036   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 16   | 2037   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 17   | 2038   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 18   | 2039   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 19   | 2040   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 20   | 2041   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 21   | 2042   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 22   | 2043   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 23   | 2044   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 24   | 2045   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |
| 25   | 2046   | 0.01613                   | 1.1                   | 230               | 1             | 250          | 25550         | 1          | 1   | 0.04                                  |                      |



\*

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 1

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

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

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

\*\*Model Uses NO DRY DEPLETION. DRYDPLT = F

\*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 57 Source(s),  
for Total of 1 Urban Area(s):

Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m

\*\*Model Uses Regulatory DEFAULT Options:

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

\*\*Other Options Specified:

ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET  
CCVR\_Sub - Meteorological data includes CCVR substitutions  
TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: DPM

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

\*\*This Run Includes: 57 Source(s); 1 Source Group(s); and 505 Receptor(s)

with: 18 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 0 VOLUME source(s)  
and: 39 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

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

DPM\_R!\_LINEAREA.ADO

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

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

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

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 450.00 ; 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 = 3.7 MB of RAM.

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

\*\*Detailed Error/Message File: DPM\_R!\_LINEAREA.err  
 \*\*File for Summary of Results: DPM\_R!\_LINEAREA.sum

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
 09/19/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 2

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* POINT SOURCE DATA \*\*\*

| URBAN   | CAP/  | NUMBER | EMISSION | RATE        | BASE     | STACK    | STACK    | STACK    | STACK   | STACK   | BLDG     |          |        |
|---------|-------|--------|----------|-------------|----------|----------|----------|----------|---------|---------|----------|----------|--------|
| SOURCE  | PART. | SOURCE | PART.    | (GRAMS/SEC) | X        | Y        | ELEV.    | HEIGHT   | TEMP.   | EXIT    | VEL.     | DIAMETER | EXISTS |
| SOURCE  | HOR   | SCALAR |          |             |          |          | (METERS) | (METERS) | (DEG.K) | (M/SEC) | (METERS) |          |        |
| ID      | CATS. |        |          | (METERS)    | (METERS) | (METERS) | (METERS) | (METERS) | (DEG.K) | (M/SEC) | (METERS) |          |        |
| VARY BY |       |        |          |             |          |          |          |          |         |         |          |          |        |

|      |   |             |          |           |       |      |        |       |      |     |     |    |
|------|---|-------------|----------|-----------|-------|------|--------|-------|------|-----|-----|----|
| IB22 | 0 | 0.96100E-05 | 475510.2 | 3745540.5 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB23 | 0 | 0.96100E-05 | 475510.1 | 3745534.4 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB24 | 0 | 0.96100E-05 | 475510.3 | 3745523.4 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB25 | 0 | 0.96100E-05 | 475510.2 | 3745517.2 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB26 | 0 | 0.96100E-05 | 475510.4 | 3745511.4 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB27 | 0 | 0.96100E-05 | 475510.3 | 3745505.3 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB28 | 0 | 0.96100E-05 | 475510.1 | 3745500.1 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |



DPM\_RI\_LINEAREA.ADO

|      |   |             |          |           |       |      |        |       |      |     |     |    |
|------|---|-------------|----------|-----------|-------|------|--------|-------|------|-----|-----|----|
| IB21 | 0 | 0.96100E-05 | 475510.2 | 3745546.1 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB11 | 0 | 0.96100E-05 | 475696.4 | 3745545.5 | 469.8 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB12 | 0 | 0.96100E-05 | 475696.4 | 3745540.0 | 469.8 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB13 | 0 | 0.96100E-05 | 475696.3 | 3745533.9 | 469.8 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB14 | 0 | 0.96100E-05 | 475696.5 | 3745522.8 | 469.8 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB15 | 0 | 0.96100E-05 | 475696.4 | 3745516.7 | 469.8 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB16 | 0 | 0.96100E-05 | 475696.6 | 3745510.9 | 469.6 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB17 | 0 | 0.96100E-05 | 475696.5 | 3745504.8 | 469.5 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB18 | 0 | 0.96100E-05 | 475696.3 | 3745499.6 | 469.4 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| FP2  | 0 | 0.41300E-04 | 475424.0 | 3745479.0 | 478.9 | 5.50 | 847.00 | 40.41 | 0.15 | NO  | YES | NO |
| FP1  | 0 | 0.41300E-04 | 475606.7 | 3745492.2 | 471.8 | 5.50 | 847.00 | 40.41 | 0.15 | YES | YES | NO |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
 09/19/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 3

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* AREA SOURCE DATA \*\*\*

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

|          |   |             |          |           |       |      |       |      |         |      |     |
|----------|---|-------------|----------|-----------|-------|------|-------|------|---------|------|-----|
| A0000001 | 0 | 0.26186E-08 | 475797.6 | 3745491.4 | 468.8 | 3.11 | 13.44 | 9.90 | -173.99 | 2.89 | YES |
| A0000002 | 0 | 0.26186E-08 | 475783.7 | 3745492.8 | 468.8 | 3.11 | 57.00 | 9.90 | 179.29  | 2.89 | YES |
| A0000003 | 0 | 0.26186E-08 | 475726.7 | 3745492.1 | 469.0 | 3.11 | 57.00 | 9.90 | 179.29  | 2.89 | YES |
| A0000004 | 0 | 0.26186E-08 | 475674.7 | 3745486.4 | 469.5 | 3.11 | 69.66 | 9.90 | -90.00  | 2.89 | YES |
| A0000005 | 0 | 0.26711E-08 | 475794.3 | 3745488.5 | 468.9 | 3.11 | 76.70 | 9.70 | 179.87  | 2.89 | YES |
| A0000006 | 0 | 0.26711E-08 | 475717.6 | 3745488.3 | 469.0 | 3.11 | 76.70 | 9.70 | 179.87  | 2.89 | YES |
| A0000007 | 0 | 0.26711E-08 | 475640.9 | 3745488.1 | 470.7 | 3.11 | 76.70 | 9.70 | 179.87  | 2.89 | YES |
| A0000008 | 0 | 0.26711E-08 | 475564.2 | 3745488.0 | 473.2 | 3.11 | 76.70 | 9.70 | 179.87  | 2.89 | YES |
| A0000009 | 0 | 0.26711E-08 | 475492.3 | 3745483.0 | 475.7 | 3.11 | 75.30 | 9.70 | -90.53  | 2.89 | YES |

DPM\_R!\_LINEAREA.ADO

|          |   |             |          |           |       |      |        |       |         |      |     |
|----------|---|-------------|----------|-----------|-------|------|--------|-------|---------|------|-----|
| A0000010 | 0 | 0.12339E-08 | 475806.2 | 3745621.8 | 467.1 | 3.11 | 136.15 | 15.00 | 89.68   | 2.89 | YES |
| A0000011 | 0 | 0.55669E-09 | 475822.3 | 3745621.5 | 466.6 | 3.11 | 134.86 | 15.00 | -90.61  | 2.89 | YES |
| A0000012 | 0 | 0.55669E-09 | 475815.1 | 3745749.0 | 466.8 | 3.11 | 80.88  | 15.00 | -13.25  | 2.89 | YES |
| A0000013 | 0 | 0.55669E-09 | 475896.4 | 3745768.7 | 465.1 | 3.11 | 73.54  | 15.00 | -35.22  | 2.89 | YES |
| A0000014 | 0 | 0.55669E-09 | 475958.5 | 3745821.3 | 464.0 | 3.11 | 117.81 | 15.00 | -122.34 | 2.89 | YES |
| A0000015 | 0 | 0.55669E-09 | 475895.5 | 3745920.8 | 465.1 | 3.11 | 117.81 | 15.00 | -122.34 | 2.89 | YES |
| A0000016 | 0 | 0.55669E-09 | 475833.6 | 3746016.4 | 466.0 | 3.11 | 138.46 | 15.00 | -90.56  | 2.89 | YES |
| A0000017 | 0 | 0.55669E-09 | 475832.3 | 3746154.9 | 466.1 | 3.11 | 138.46 | 15.00 | -90.56  | 2.89 | YES |
| A0000018 | 0 | 0.55669E-09 | 475830.9 | 3746293.3 | 466.4 | 3.11 | 138.46 | 15.00 | -90.56  | 2.89 | YES |
| A0000019 | 0 | 0.55669E-09 | 475829.6 | 3746431.8 | 465.7 | 3.11 | 138.46 | 15.00 | -90.56  | 2.89 | YES |
| A0000020 | 0 | 0.55669E-09 | 475827.6 | 3746573.0 | 465.4 | 3.11 | 107.36 | 15.00 | -112.69 | 2.89 | YES |
| A0000021 | 0 | 0.55669E-09 | 475784.9 | 3746674.2 | 465.3 | 3.11 | 86.00  | 15.00 | -132.15 | 2.89 | YES |
| A0000033 | 0 | 0.55669E-09 | 475727.2 | 3746738.0 | 466.6 | 3.11 | 86.00  | 15.00 | -132.15 | 2.89 | YES |
| A0000035 | 0 | 0.55669E-09 | 475671.2 | 3746798.5 | 467.6 | 3.11 | 92.40  | 15.00 | -103.42 | 2.89 | YES |
| A0000036 | 0 | 0.55669E-09 | 475649.9 | 3746886.6 | 467.1 | 3.11 | 60.74  | 15.00 | -90.00  | 2.89 | YES |
| A0000037 | 0 | 0.55669E-09 | 475642.5 | 3746939.8 | 466.0 | 3.11 | 114.98 | 15.00 | -0.19   | 2.89 | YES |
| A0000038 | 0 | 0.55669E-09 | 475757.4 | 3746940.2 | 463.5 | 3.11 | 114.98 | 15.00 | -0.19   | 2.89 | YES |
| A0000039 | 0 | 0.55669E-09 | 475872.4 | 3746940.6 | 462.5 | 3.11 | 114.98 | 15.00 | -0.19   | 2.89 | YES |
| A0000022 | 0 | 0.27770E-09 | 475833.1 | 3745612.2 | 466.2 | 3.11 | 161.65 | 30.00 | -1.62   | 2.89 | YES |
| A0000023 | 0 | 0.27770E-09 | 476000.0 | 3745617.9 | 464.0 | 3.11 | 74.89  | 30.00 | -22.38  | 2.89 | YES |
| A0000024 | 0 | 0.27770E-09 | 476051.2 | 3745651.7 | 463.5 | 3.11 | 229.14 | 30.00 | 55.04   | 2.89 | YES |
| A0000025 | 0 | 0.27770E-09 | 476180.2 | 3745469.2 | 462.7 | 3.11 | 77.56  | 30.00 | 77.20   | 2.89 | YES |
| A0000026 | 0 | 0.27770E-09 | 476197.0 | 3745396.7 | 462.1 | 3.11 | 204.38 | 30.00 | 89.36   | 2.89 | YES |
| A0000027 | 0 | 0.27770E-09 | 476199.3 | 3745192.3 | 463.0 | 3.11 | 204.38 | 30.00 | 89.36   | 2.89 | YES |
| A0000028 | 0 | 0.27770E-09 | 476201.6 | 3744988.0 | 464.0 | 3.11 | 204.38 | 30.00 | 89.36   | 2.89 | YES |
| A0000029 | 0 | 0.27770E-09 | 476204.6 | 3744779.0 | 464.0 | 3.11 | 85.89  | 30.00 | 71.32   | 2.89 | YES |
| A0000030 | 0 | 0.27770E-09 | 476236.4 | 3744691.2 | 464.0 | 3.11 | 129.05 | 30.00 | 41.76   | 2.89 | YES |
| A0000031 | 0 | 0.27770E-09 | 476352.8 | 3744605.5 | 463.0 | 3.11 | 175.15 | 30.00 | -42.88  | 2.89 | YES |

DPM\_R!\_LINEAREA.ADO

A0000032 0 0.27770E-09 476478.0 3744722.4 460.4 3.11 99.97 30.00 -28.03 2.89 YES  
 A0000034 0 0.27770E-09 476564.4 3744768.5 458.9 3.11 166.05 30.00 -20.19 2.89 YES

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
 09/19/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 4

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

SRCGROUP ID

SOURCE IDs

-----

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ALL IB22 , IB23 , IB24 , IB25 , IB26 , IB27 , IB28 , IB21 ,  
 IB11 , IB12 , IB13 , IB14 , IB15 , IB16 , IB17 , IB18 ,  
 FP2 , FP1 , A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 ,  
 A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,  
 A0000014 ,  
 A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,  
 A0000033 ,  
 A0000035 , A0000036 , A0000037 , A0000038 , A0000039 , A0000022 , A0000023 ,  
 A0000024 ,  
 A0000025 , A0000026 , A0000027 , A0000028 , A0000029 , A0000030 , A0000031 ,  
 A0000032 ,  
 A0000034 ,

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
 09/19/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 5

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

URBAN ID URBAN POP

SOURCE IDs

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2189641. IB22 , IB23 , IB24 , IB25 , IB26 , IB27 , IB28 ,  
 IB21 ,  
 IB11 , IB12 , IB13 , IB14 , IB15 , IB16 , IB17 , IB18 ,  
 FP2 , FP1 , A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 ,

DPM\_R!\_LINEAREA.ADO

A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,  
A0000014 ,

A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,  
A0000033 ,

A0000035 , A0000036 , A0000037 , A0000038 , A0000039 , A0000022 , A0000023 ,  
A0000024 ,

A0000025 , A0000026 , A0000027 , A0000028 , A0000029 , A0000030 , A0000031 ,  
A0000032 ,

A0000034 ,

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 6

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IB22

| IFV | BH   | BW   | BL   | XADJ  | YADJ  | IFV | BH   | BW   | BL   | XADJ  | YADJ  |
|-----|------|------|------|-------|-------|-----|------|------|------|-------|-------|
| 1   | 12.5 | 79.9 | 68.4 | -46.0 | -44.0 | 2   | 12.5 | 86.3 | 77.8 | -42.9 | -45.4 |
| 3   | 12.5 | 90.1 | 84.9 | -38.5 | -45.4 | 4   | 12.5 | 91.1 | 89.3 | -32.9 | -44.0 |
| 5   | 12.5 | 89.3 | 91.1 | -26.3 | -41.3 | 6   | 12.5 | 84.9 | 90.1 | -18.9 | -37.3 |
| 7   | 12.5 | 77.8 | 86.3 | -10.9 | -32.2 | 8   | 12.5 | 68.4 | 79.9 | -2.6  | -26.1 |
| 9   | 12.5 | 56.9 | 71.1 | 5.7   | -19.3 | 10  | 12.5 | 68.4 | 79.9 | 4.0   | -11.8 |
| 11  | 12.5 | 77.8 | 86.3 | 2.2   | -4.0  | 12  | 12.5 | 84.9 | 90.1 | 0.4   | 4.0   |
| 13  | 12.5 | 89.3 | 91.1 | -1.5  | 11.8  | 14  | 12.5 | 91.1 | 89.3 | -3.4  | 19.2  |
| 15  | 12.5 | 90.1 | 84.9 | -5.1  | 26.1  | 16  | 12.5 | 86.3 | 77.8 | -6.7  | 32.2  |
| 17  | 12.5 | 79.9 | 68.4 | -8.1  | 37.3  | 18  | 12.5 | 71.1 | 56.9 | -9.2  | 41.3  |
| 19  | 12.5 | 79.9 | 68.4 | -22.4 | 44.0  | 20  | 12.5 | 86.3 | 77.8 | -34.9 | 45.4  |
| 21  | 12.5 | 90.1 | 84.9 | -46.4 | 45.4  | 22  | 12.5 | 91.1 | 89.3 | -56.4 | 44.0  |
| 23  | 12.5 | 89.3 | 91.1 | -64.8 | 41.3  | 24  | 12.5 | 84.9 | 90.1 | -71.2 | 37.3  |
| 25  | 12.5 | 77.8 | 86.3 | -75.4 | 32.2  | 26  | 12.5 | 68.4 | 79.9 | -77.3 | 26.1  |
| 27  | 12.5 | 56.9 | 71.1 | -76.8 | 19.3  | 28  | 12.5 | 68.4 | 79.9 | -84.0 | 11.8  |
| 29  | 12.5 | 77.8 | 86.3 | -88.5 | 4.0   | 30  | 12.5 | 84.9 | 90.1 | -90.4 | -4.0  |
| 31  | 12.5 | 89.3 | 91.1 | -89.6 | -11.8 | 32  | 12.5 | 91.1 | 89.3 | -86.0 | -19.2 |
| 33  | 12.5 | 90.1 | 84.9 | -79.8 | -26.1 | 34  | 12.5 | 86.3 | 77.8 | -71.1 | -32.2 |
| 35  | 12.5 | 79.9 | 68.4 | -60.4 | -37.3 | 36  | 12.5 | 71.1 | 56.9 | -47.7 | -41.3 |

SOURCE ID: IB23

| IFV | BH   | BW   | BL   | XADJ  | YADJ  | IFV | BH   | BW   | BL   | XADJ  | YADJ  |
|-----|------|------|------|-------|-------|-----|------|------|------|-------|-------|
| 1   | 12.5 | 79.9 | 68.4 | -39.9 | -43.0 | 2   | 12.5 | 86.3 | 77.8 | -37.0 | -43.4 |
| 3   | 12.5 | 90.1 | 84.9 | -33.1 | -42.4 | 4   | 12.5 | 91.1 | 89.3 | -28.1 | -40.1 |
| 5   | 12.5 | 89.3 | 91.1 | -22.2 | -36.6 | 6   | 12.5 | 84.9 | 90.1 | -15.7 | -32.0 |
| 7   | 12.5 | 77.8 | 86.3 | -8.7  | -26.5 | 8   | 12.5 | 68.4 | 79.9 | -1.5  | -20.1 |
| 9   | 12.5 | 56.9 | 71.1 | 5.8   | -13.1 | 10  | 12.5 | 68.4 | 79.9 | 3.1   | -5.7  |
| 11  | 12.5 | 77.8 | 86.3 | 0.2   | 1.9   | 12  | 12.5 | 84.9 | 90.1 | -2.6  | 9.4   |
| 13  | 12.5 | 89.3 | 91.1 | -5.4  | 16.6  | 14  | 12.5 | 91.1 | 89.3 | -8.0  | 23.3  |
| 15  | 12.5 | 90.1 | 84.9 | -10.4 | 29.3  | 16  | 12.5 | 86.3 | 77.8 | -12.5 | 34.4  |
| 17  | 12.5 | 79.9 | 68.4 | -14.1 | 38.5  | 18  | 12.5 | 71.1 | 56.9 | -15.4 | 41.4  |

Page 6

DPM\_RI\_LINEAREA.ADO

|    |       |       |       |        |        |    |       |       |       |        |        |
|----|-------|-------|-------|--------|--------|----|-------|-------|-------|--------|--------|
| 19 | 12.5, | 79.9, | 68.4, | -28.5, | 43.0,  | 20 | 12.5, | 86.3, | 77.8, | -40.8, | 43.4,  |
| 21 | 12.5, | 90.1, | 84.9, | -51.8, | 42.4,  | 22 | 12.5, | 91.1, | 89.3, | -61.3, | 40.1,  |
| 23 | 12.5, | 89.3, | 91.1, | -68.8, | 36.6,  | 24 | 12.5, | 84.9, | 90.1, | -74.3, | 32.0,  |
| 25 | 12.5, | 77.8, | 86.3, | -77.6, | 26.5,  | 26 | 12.5, | 68.4, | 79.9, | -78.5, | 20.1,  |
| 27 | 12.5, | 56.9, | 71.1, | -77.0, | 13.1,  | 28 | 12.5, | 68.4, | 79.9, | -83.0, | 5.7,   |
| 29 | 12.5, | 77.8, | 86.3, | -86.5, | -1.9,  | 30 | 12.5, | 84.9, | 90.1, | -87.4, | -9.4,  |
| 31 | 12.5, | 89.3, | 91.1, | -85.7, | -16.6, | 32 | 12.5, | 91.1, | 89.3, | -81.3, | -23.3, |
| 33 | 12.5, | 90.1, | 84.9, | -74.5, | -29.3, | 34 | 12.5, | 86.3, | 77.8, | -65.4, | -34.4, |
| 35 | 12.5, | 79.9, | 68.4, | -54.3, | -38.5, | 36 | 12.5, | 71.1, | 56.9, | -41.6, | -41.4, |

SOURCE ID: IB24

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 79.9, | 68.4, | -29.1, | -40.9, | 2   | 12.5, | 86.3, | 77.8, | -26.8, | -39.4, |
| 3   | 12.5, | 90.1, | 84.9, | -23.6, | -36.7, | 4   | 12.5, | 91.1, | 89.3, | -19.8, | -32.9, |
| 5   | 12.5, | 89.3, | 91.1, | -15.3, | -28.1, | 6   | 12.5, | 84.9, | 90.1, | -10.4, | -22.4, |
| 7   | 12.5, | 77.8, | 86.3, | -5.2,  | -16.0, | 8   | 12.5, | 68.4, | 79.9, | 0.2,   | -9.2,  |
| 9   | 12.5, | 56.9, | 71.1, | 5.6,   | -2.1,  | 10  | 12.5, | 68.4, | 79.9, | 1.0,   | 5.1,   |
| 11  | 12.5, | 77.8, | 86.3, | -3.8,  | 12.1,  | 12  | 12.5, | 84.9, | 90.1, | -8.3,  | 18.8,  |
| 13  | 12.5, | 89.3, | 91.1, | -12.7, | 24.9,  | 14  | 12.5, | 91.1, | 89.3, | -16.6, | 30.2,  |
| 15  | 12.5, | 90.1, | 84.9, | -20.1, | 34.6,  | 16  | 12.5, | 86.3, | 77.8, | -22.9, | 38.0,  |
| 17  | 12.5, | 79.9, | 68.4, | -25.0, | 40.2,  | 18  | 12.5, | 71.1, | 56.9, | -26.4, | 41.2,  |
| 19  | 12.5, | 79.9, | 68.4, | -39.3, | 40.9,  | 20  | 12.5, | 86.3, | 77.8, | -51.1, | 39.4,  |
| 21  | 12.5, | 90.1, | 84.9, | -61.2, | 36.7,  | 22  | 12.5, | 91.1, | 89.3, | -69.6, | 32.9,  |
| 23  | 12.5, | 89.3, | 91.1, | -75.8, | 28.1,  | 24  | 12.5, | 84.9, | 90.1, | -79.7, | 22.4,  |
| 25  | 12.5, | 77.8, | 86.3, | -81.1, | 16.0,  | 26  | 12.5, | 68.4, | 79.9, | -80.2, | 9.2,   |
| 27  | 12.5, | 56.9, | 71.1, | -76.7, | 2.1,   | 28  | 12.5, | 68.4, | 79.9, | -80.9, | -5.1,  |
| 29  | 12.5, | 77.8, | 86.3, | -82.6, | -12.1, | 30  | 12.5, | 84.9, | 90.1, | -81.7, | -18.8, |
| 31  | 12.5, | 89.3, | 91.1, | -78.4, | -24.9, | 32  | 12.5, | 91.1, | 89.3, | -72.7, | -30.2, |
| 33  | 12.5, | 90.1, | 84.9, | -64.8, | -34.6, | 34  | 12.5, | 86.3, | 77.8, | -54.9, | -38.0, |
| 35  | 12.5, | 79.9, | 68.4, | -43.4, | -40.2, | 36  | 12.5, | 71.1, | 56.9, | -30.5, | -41.2, |

SOURCE ID: IB25

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 79.9, | 68.4, | -23.0, | -39.9, | 2   | 12.5, | 86.3, | 77.8, | -20.9, | -37.4, |
| 3   | 12.5, | 90.1, | 84.9, | -18.2, | -33.7, | 4   | 12.5, | 91.1, | 89.3, | -15.0, | -29.0, |
| 5   | 12.5, | 89.3, | 91.1, | -11.3, | -23.4, | 6   | 12.5, | 84.9, | 90.1, | -7.2,  | -17.1, |
| 7   | 12.5, | 77.8, | 86.3, | -2.9,  | -10.3, | 8   | 12.5, | 68.4, | 79.9, | 1.4,   | -3.1,  |
| 9   | 12.5, | 56.9, | 71.1, | 5.7,   | 4.1,   | 10  | 12.5, | 68.4, | 79.9, | -0.0,  | 11.2,  |
| 11  | 12.5, | 77.8, | 86.3, | -5.8,  | 18.0,  | 12  | 12.5, | 84.9, | 90.1, | -11.3, | 24.2,  |
| 13  | 12.5, | 89.3, | 91.1, | -16.6, | 29.7,  | 14  | 12.5, | 91.1, | 89.3, | -21.3, | 34.3,  |
| 15  | 12.5, | 90.1, | 84.9, | -25.4, | 37.8,  | 16  | 12.5, | 86.3, | 77.8, | -28.7, | 40.2,  |
| 17  | 12.5, | 79.9, | 68.4, | -31.1, | 41.4,  | 18  | 12.5, | 71.1, | 56.9, | -32.6, | 41.3,  |
| 19  | 12.5, | 79.9, | 68.4, | -45.4, | 39.9,  | 20  | 12.5, | 86.3, | 77.8, | -56.9, | 37.4,  |
| 21  | 12.5, | 90.1, | 84.9, | -66.6, | 33.7,  | 22  | 12.5, | 91.1, | 89.3, | -74.4, | 29.0,  |
| 23  | 12.5, | 89.3, | 91.1, | -79.8, | 23.4,  | 24  | 12.5, | 84.9, | 90.1, | -82.8, | 17.1,  |
| 25  | 12.5, | 77.8, | 86.3, | -83.4, | 10.3,  | 26  | 12.5, | 68.4, | 79.9, | -81.3, | 3.1,   |
| 27  | 12.5, | 56.9, | 71.1, | -76.8, | -4.1,  | 28  | 12.5, | 68.4, | 79.9, | -79.9, | -11.2, |
| 29  | 12.5, | 77.8, | 86.3, | -80.5, | -18.0, | 30  | 12.5, | 84.9, | 90.1, | -78.7, | -24.2, |
| 31  | 12.5, | 89.3, | 91.1, | -74.5, | -29.7, | 32  | 12.5, | 91.1, | 89.3, | -68.1, | -34.3, |
| 33  | 12.5, | 90.1, | 84.9, | -59.5, | -37.8, | 34  | 12.5, | 86.3, | 77.8, | -49.2, | -40.2, |
| 35  | 12.5, | 79.9, | 68.4, | -37.3, | -41.4, | 36  | 12.5, | 71.1, | 56.9, | -24.4, | -41.3, |

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IB26

| IFV | BH   | BW   | BL   | XADJ  | YADJ  | IFV | BH   | BW   | BL   | XADJ  | YADJ  |
|-----|------|------|------|-------|-------|-----|------|------|------|-------|-------|
| 1   | 12.5 | 79.9 | 68.4 | -17.4 | -38.7 | 2   | 12.5 | 86.3 | 77.8 | -15.6 | -35.2 |
| 3   | 12.5 | 90.1 | 84.9 | -13.4 | -30.7 | 4   | 12.5 | 91.1 | 89.3 | -10.7 | -25.1 |
| 5   | 12.5 | 89.3 | 91.1 | -7.8  | -18.9 | 6   | 12.5 | 84.9 | 90.1 | -4.5  | -12.0 |
| 7   | 12.5 | 77.8 | 86.3 | -1.2  | -4.8  | 8   | 12.5 | 68.4 | 79.9 | 2.2   | 2.6   |
| 9   | 12.5 | 56.9 | 71.1 | 5.5   | 9.9   | 10  | 12.5 | 68.4 | 79.9 | -1.2  | 16.8  |
| 11  | 12.5 | 77.8 | 86.3 | -7.9  | 23.3  | 12  | 12.5 | 84.9 | 90.1 | -14.4 | 29.1  |
| 13  | 12.5 | 89.3 | 91.1 | -20.4 | 33.9  | 14  | 12.5 | 91.1 | 89.3 | -25.8 | 37.8  |
| 15  | 12.5 | 90.1 | 84.9 | -30.4 | 40.5  | 16  | 12.5 | 86.3 | 77.8 | -34.1 | 42.0  |
| 17  | 12.5 | 79.9 | 68.4 | -36.8 | 42.2  | 18  | 12.5 | 71.1 | 56.9 | -38.3 | 41.1  |
| 19  | 12.5 | 79.9 | 68.4 | -51.0 | 38.7  | 20  | 12.5 | 86.3 | 77.8 | -62.2 | 35.2  |
| 21  | 12.5 | 90.1 | 84.9 | -71.5 | 30.7  | 22  | 12.5 | 91.1 | 89.3 | -78.6 | 25.1  |
| 23  | 12.5 | 89.3 | 91.1 | -83.3 | 18.9  | 24  | 12.5 | 84.9 | 90.1 | -85.5 | 12.0  |
| 25  | 12.5 | 77.8 | 86.3 | -85.1 | 4.8   | 26  | 12.5 | 68.4 | 79.9 | -82.1 | -2.6  |
| 27  | 12.5 | 56.9 | 71.1 | -76.6 | -9.9  | 28  | 12.5 | 68.4 | 79.9 | -78.7 | -16.8 |
| 29  | 12.5 | 77.8 | 86.3 | -78.4 | -23.3 | 30  | 12.5 | 84.9 | 90.1 | -75.7 | -29.1 |
| 31  | 12.5 | 89.3 | 91.1 | -70.7 | -33.9 | 32  | 12.5 | 91.1 | 89.3 | -63.5 | -37.8 |
| 33  | 12.5 | 90.1 | 84.9 | -54.4 | -40.5 | 34  | 12.5 | 86.3 | 77.8 | -43.7 | -42.0 |
| 35  | 12.5 | 79.9 | 68.4 | -31.7 | -42.2 | 36  | 12.5 | 71.1 | 56.9 | -18.6 | -41.1 |

SOURCE ID: IB27

| IFV | BH   | BW   | BL   | XADJ  | YADJ  | IFV | BH   | BW   | BL   | XADJ  | YADJ  |
|-----|------|------|------|-------|-------|-----|------|------|------|-------|-------|
| 1   | 12.5 | 79.9 | 68.4 | -11.3 | -37.8 | 2   | 12.5 | 86.3 | 77.8 | -9.8  | -33.2 |
| 3   | 12.5 | 90.1 | 84.9 | -8.0  | -27.7 | 4   | 12.5 | 91.1 | 89.3 | -5.9  | -21.2 |
| 5   | 12.5 | 89.3 | 91.1 | -3.7  | -14.2 | 6   | 12.5 | 84.9 | 90.1 | -1.4  | -6.7  |
| 7   | 12.5 | 77.8 | 86.3 | 1.0   | 1.0   | 8   | 12.5 | 68.4 | 79.9 | 3.4   | 8.6   |
| 9   | 12.5 | 56.9 | 71.1 | 5.6   | 16.0  | 10  | 12.5 | 68.4 | 79.9 | -2.2  | 22.9  |
| 11  | 12.5 | 77.8 | 86.3 | -9.9  | 29.1  | 12  | 12.5 | 84.9 | 90.1 | -17.4 | 34.5  |
| 13  | 12.5 | 89.3 | 91.1 | -24.3 | 38.8  | 14  | 12.5 | 91.1 | 89.3 | -30.5 | 41.8  |
| 15  | 12.5 | 90.1 | 84.9 | -35.7 | 43.7  | 16  | 12.5 | 86.3 | 77.8 | -39.9 | 44.2  |
| 17  | 12.5 | 79.9 | 68.4 | -42.8 | 43.3  | 18  | 12.5 | 71.1 | 56.9 | -44.5 | 41.2  |
| 19  | 12.5 | 79.9 | 68.4 | -57.1 | 37.8  | 20  | 12.5 | 86.3 | 77.8 | -68.1 | 33.2  |
| 21  | 12.5 | 90.1 | 84.9 | -76.9 | 27.7  | 22  | 12.5 | 91.1 | 89.3 | -83.4 | 21.2  |
| 23  | 12.5 | 89.3 | 91.1 | -87.4 | 14.2  | 24  | 12.5 | 84.9 | 90.1 | -88.7 | 6.7   |
| 25  | 12.5 | 77.8 | 86.3 | -87.3 | -1.0  | 26  | 12.5 | 68.4 | 79.9 | -83.3 | -8.6  |
| 27  | 12.5 | 56.9 | 71.1 | -76.7 | -16.0 | 28  | 12.5 | 68.4 | 79.9 | -77.7 | -22.9 |
| 29  | 12.5 | 77.8 | 86.3 | -76.4 | -29.1 | 30  | 12.5 | 84.9 | 90.1 | -72.7 | -34.5 |
| 31  | 12.5 | 89.3 | 91.1 | -66.8 | -38.8 | 32  | 12.5 | 91.1 | 89.3 | -58.9 | -41.8 |
| 33  | 12.5 | 90.1 | 84.9 | -49.1 | -43.7 | 34  | 12.5 | 86.3 | 77.8 | -37.9 | -44.2 |
| 35  | 12.5 | 79.9 | 68.4 | -25.6 | -43.3 | 36  | 12.5 | 71.1 | 56.9 | -12.5 | -41.2 |

SOURCE ID: IB28

| IFV | BH   | BW   | BL   | XADJ | YADJ  | IFV | BH   | BW   | BL   | XADJ | YADJ  |
|-----|------|------|------|------|-------|-----|------|------|------|------|-------|
| 1   | 12.5 | 79.9 | 68.4 | -6.1 | -37.1 | 2   | 12.5 | 86.3 | 77.8 | -4.8 | -31.7 |
| 3   | 12.5 | 90.1 | 84.9 | -3.4 | -25.3 | 4   | 12.5 | 91.1 | 89.3 | -1.8 | -18.1 |
| 5   | 12.5 | 89.3 | 91.1 | -0.2 | -10.4 | 6   | 12.5 | 84.9 | 90.1 | 1.4  | -2.3  |

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|    |       |       |       |        |        |    |       |       |       |        |        |
|----|-------|-------|-------|--------|--------|----|-------|-------|-------|--------|--------|
| 7  | 12.5, | 77.8, | 86.3, | 3.0,   | 5.8,   | 8  | 12.5, | 68.4, | 79.9, | 4.5,   | 13.7,  |
| 9  | 12.5, | 56.9, | 71.1, | 5.8,   | 21.2,  | 10 | 12.5, | 68.4, | 79.9, | -2.9,  | 28.1,  |
| 11 | 12.5, | 77.8, | 86.3, | -11.5, | 34.1,  | 12 | 12.5, | 84.9, | 90.1, | -19.8, | 39.1,  |
| 13 | 12.5, | 89.3, | 91.1, | -27.4, | 42.8,  | 14 | 12.5, | 91.1, | 89.3, | -34.3, | 45.3,  |
| 15 | 12.5, | 90.1, | 84.9, | -40.1, | 46.5,  | 16 | 12.5, | 86.3, | 77.8, | -44.7, | 46.2,  |
| 17 | 12.5, | 79.9, | 68.4, | -47.9, | 44.5,  | 18 | 12.5, | 71.1, | 56.9, | -49.7, | 41.4,  |
| 19 | 12.5, | 79.9, | 68.4, | -62.3, | 37.1,  | 20 | 12.5, | 86.3, | 77.8, | -73.0, | 31.7,  |
| 21 | 12.5, | 90.1, | 84.9, | -81.5, | 25.3,  | 22 | 12.5, | 91.1, | 89.3, | -87.5, | 18.1,  |
| 23 | 12.5, | 89.3, | 91.1, | -90.9, | 10.4,  | 24 | 12.5, | 84.9, | 90.1, | -91.5, | 2.3,   |
| 25 | 12.5, | 77.8, | 86.3, | -89.3, | -5.8,  | 26 | 12.5, | 68.4, | 79.9, | -84.4, | -13.7, |
| 27 | 12.5, | 56.9, | 71.1, | -77.0, | -21.2, | 28 | 12.5, | 68.4, | 79.9, | -77.1, | -28.1, |
| 29 | 12.5, | 77.8, | 86.3, | -74.8, | -34.1, | 30 | 12.5, | 84.9, | 90.1, | -70.3, | -39.1, |
| 31 | 12.5, | 89.3, | 91.1, | -63.6, | -42.8, | 32 | 12.5, | 91.1, | 89.3, | -55.0, | -45.3, |
| 33 | 12.5, | 90.1, | 84.9, | -44.8, | -46.5, | 34 | 12.5, | 86.3, | 77.8, | -33.2, | -46.2, |
| 35 | 12.5, | 79.9, | 68.4, | -20.5, | -44.5, | 36 | 12.5, | 71.1, | 56.9, | -7.3,  | -41.4, |

SOURCE ID: IB21

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 79.9, | 68.4, | -51.4, | -45.0, | 2   | 12.5, | 86.3, | 77.8, | -48.1, | -47.3, |
| 3   | 12.5, | 90.1, | 84.9, | -43.2, | -48.1, | 4   | 12.5, | 91.1, | 89.3, | -37.1, | -47.5, |
| 5   | 12.5, | 89.3, | 91.1, | -29.8, | -45.5, | 6   | 12.5, | 84.9, | 90.1, | -21.7, | -42.1, |
| 7   | 12.5, | 77.8, | 86.3, | -12.8, | -37.4, | 8   | 12.5, | 68.4, | 79.9, | -3.6,  | -31.6, |
| 9   | 12.5, | 56.9, | 71.1, | 5.7,   | -24.8, | 10  | 12.5, | 68.4, | 79.9, | 5.0,   | -17.2, |
| 11  | 12.5, | 77.8, | 86.3, | 4.1,   | -9.2,  | 12  | 12.5, | 84.9, | 90.1, | 3.1,   | -0.8,  |
| 13  | 12.5, | 89.3, | 91.1, | 2.0,   | 7.6,   | 14  | 12.5, | 91.1, | 89.3, | 0.8,   | 15.7,  |
| 15  | 12.5, | 90.1, | 84.9, | -0.4,  | 23.4,  | 16  | 12.5, | 86.3, | 77.8, | -1.5,  | 30.3,  |
| 17  | 12.5, | 79.9, | 68.4, | -2.7,  | 36.4,  | 18  | 12.5, | 71.1, | 56.9, | -3.7,  | 41.3,  |
| 19  | 12.5, | 79.9, | 68.4, | -17.0, | 45.0,  | 20  | 12.5, | 86.3, | 77.8, | -29.8, | 47.3,  |
| 21  | 12.5, | 90.1, | 84.9, | -41.6, | 48.1,  | 22  | 12.5, | 91.1, | 89.3, | -52.2, | 47.5,  |
| 23  | 12.5, | 89.3, | 91.1, | -61.3, | 45.5,  | 24  | 12.5, | 84.9, | 90.1, | -68.4, | 42.1,  |
| 25  | 12.5, | 77.8, | 86.3, | -73.5, | 37.4,  | 26  | 12.5, | 68.4, | 79.9, | -76.3, | 31.6,  |
| 27  | 12.5, | 56.9, | 71.1, | -76.8, | 24.8,  | 28  | 12.5, | 68.4, | 79.9, | -84.9, | 17.2,  |
| 29  | 12.5, | 77.8, | 86.3, | -90.4, | 9.2,   | 30  | 12.5, | 84.9, | 90.1, | -93.2, | 0.8,   |
| 31  | 12.5, | 89.3, | 91.1, | -93.1, | -7.6,  | 32  | 12.5, | 91.1, | 89.3, | -90.2, | -15.7, |
| 33  | 12.5, | 90.1, | 84.9, | -84.5, | -23.4, | 34  | 12.5, | 86.3, | 77.8, | -76.3, | -30.3, |
| 35  | 12.5, | 79.9, | 68.4, | -65.8, | -36.4, | 36  | 12.5, | 71.1, | 56.9, | -53.2, | -41.3, |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - LIne Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 8

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IB11

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 78.2, | 66.7, | -49.9, | -43.7, | 2   | 12.5, | 84.4, | 75.9, | -46.6, | -45.9, |
| 3   | 12.5, | 88.1, | 82.9, | -42.0, | -46.7, | 4   | 12.5, | 89.0, | 87.3, | -36.1, | -46.1, |
| 5   | 12.5, | 87.3, | 89.0, | -29.1, | -44.1, | 6   | 12.5, | 82.9, | 88.1, | -21.2, | -40.7, |
| 7   | 12.5, | 75.9, | 84.4, | -12.7, | -36.1, | 8   | 12.5, | 66.7, | 78.2, | -3.7,  | -30.5, |
| 9   | 12.5, | 55.5, | 69.7, | 5.3,   | -23.9, | 10  | 12.5, | 66.7, | 78.2, | 4.6,   | -16.5, |
| 11  | 12.5, | 75.9, | 84.4, | 3.7,   | -8.7,  | 12  | 12.5, | 82.9, | 88.1, | 2.7,   | -0.6,  |
| 13  | 12.5, | 87.3, | 89.0, | 1.6,   | 7.5,   | 14  | 12.5, | 89.0, | 87.3, | 0.4,   | 15.4,  |

Page 9

DPM\_RI\_LINEAREA.ADO

|    |       |       |       |        |        |    |       |       |       |        |        |
|----|-------|-------|-------|--------|--------|----|-------|-------|-------|--------|--------|
| 15 | 12.5, | 88.1, | 82.9, | -0.7,  | 22.8,  | 16 | 12.5, | 84.4, | 75.9, | -1.8,  | 29.6,  |
| 17 | 12.5, | 78.2, | 66.7, | -2.9,  | 35.4,  | 18 | 12.5, | 69.7, | 55.5, | -3.9,  | 40.1,  |
| 19 | 12.5, | 78.2, | 66.7, | -16.8, | 43.7,  | 20 | 12.5, | 84.4, | 75.9, | -29.3, | 45.9,  |
| 21 | 12.5, | 88.1, | 82.9, | -40.8, | 46.7,  | 22 | 12.5, | 89.0, | 87.3, | -51.2, | 46.1,  |
| 23 | 12.5, | 87.3, | 89.0, | -59.9, | 44.1,  | 24 | 12.5, | 82.9, | 88.1, | -66.9, | 40.7,  |
| 25 | 12.5, | 75.9, | 84.4, | -71.8, | 36.1,  | 26 | 12.5, | 66.7, | 78.2, | -74.5, | 30.5,  |
| 27 | 12.5, | 55.5, | 69.7, | -75.0, | 23.9,  | 28 | 12.5, | 66.7, | 78.2, | -82.8, | 16.5,  |
| 29 | 12.5, | 75.9, | 84.4, | -88.1, | 8.7,   | 30 | 12.5, | 82.9, | 88.1, | -90.7, | 0.6,   |
| 31 | 12.5, | 87.3, | 89.0, | -90.6, | -7.5,  | 32 | 12.5, | 89.0, | 87.3, | -87.7, | -15.4, |
| 33 | 12.5, | 88.1, | 82.9, | -82.2, | -22.8, | 34 | 12.5, | 84.4, | 75.9, | -74.1, | -29.6, |
| 35 | 12.5, | 78.2, | 66.7, | -63.8, | -35.4, | 36 | 12.5, | 69.7, | 55.5, | -51.6, | -40.1, |

SOURCE ID: IB12

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 78.2, | 66.7, | -44.4, | -42.7, | 2   | 12.5, | 84.4, | 75.9, | -41.5, | -44.0, |
| 3   | 12.5, | 88.1, | 82.9, | -37.2, | -43.9, | 4   | 12.5, | 89.0, | 87.3, | -31.9, | -42.5, |
| 5   | 12.5, | 87.3, | 89.0, | -25.6, | -39.8, | 6   | 12.5, | 82.9, | 88.1, | -18.4, | -35.9, |
| 7   | 12.5, | 75.9, | 84.4, | -10.8, | -31.0, | 8   | 12.5, | 66.7, | 78.2, | -2.8,  | -25.0, |
| 9   | 12.5, | 55.5, | 69.7, | 5.3,   | -18.3, | 10  | 12.5, | 66.7, | 78.2, | 3.6,   | -11.1, |
| 11  | 12.5, | 75.9, | 84.4, | 1.8,   | -3.5,  | 12  | 12.5, | 82.9, | 88.1, | -0.1,  | 4.2,   |
| 13  | 12.5, | 87.3, | 89.0, | -2.0,  | 11.8,  | 14  | 12.5, | 89.0, | 87.3, | -3.8,  | 19.0,  |
| 15  | 12.5, | 88.1, | 82.9, | -5.5,  | 25.6,  | 16  | 12.5, | 84.4, | 75.9, | -7.0,  | 31.4,  |
| 17  | 12.5, | 78.2, | 66.7, | -8.3,  | 36.3,  | 18  | 12.5, | 69.7, | 55.5, | -9.4,  | 40.1,  |
| 19  | 12.5, | 78.2, | 66.7, | -22.3, | 42.7,  | 20  | 12.5, | 84.4, | 75.9, | -34.5, | 44.0,  |
| 21  | 12.5, | 88.1, | 82.9, | -45.6, | 43.9,  | 22  | 12.5, | 89.0, | 87.3, | -55.4, | 42.5,  |
| 23  | 12.5, | 87.3, | 89.0, | -63.5, | 39.8,  | 24  | 12.5, | 82.9, | 88.1, | -69.6, | 35.9,  |
| 25  | 12.5, | 75.9, | 84.4, | -73.7, | 31.0,  | 26  | 12.5, | 66.7, | 78.2, | -75.5, | 25.0,  |
| 27  | 12.5, | 55.5, | 69.7, | -75.0, | 18.3,  | 28  | 12.5, | 66.7, | 78.2, | -81.8, | 11.1,  |
| 29  | 12.5, | 75.9, | 84.4, | -86.2, | 3.5,   | 30  | 12.5, | 82.9, | 88.1, | -88.0, | -4.2,  |
| 31  | 12.5, | 87.3, | 89.0, | -87.0, | -11.8, | 32  | 12.5, | 89.0, | 87.3, | -83.5, | -19.0, |
| 33  | 12.5, | 88.1, | 82.9, | -77.4, | -25.6, | 34  | 12.5, | 84.4, | 75.9, | -68.9, | -31.4, |
| 35  | 12.5, | 78.2, | 66.7, | -58.4, | -36.3, | 36  | 12.5, | 69.7, | 55.5, | -46.1, | -40.1, |

SOURCE ID: IB13

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 78.2, | 66.7, | -38.3, | -41.8, | 2   | 12.5, | 84.4, | 75.9, | -35.6, | -42.0, |
| 3   | 12.5, | 88.1, | 82.9, | -31.8, | -40.9, | 4   | 12.5, | 89.0, | 87.3, | -27.1, | -38.6, |
| 5   | 12.5, | 87.3, | 89.0, | -21.5, | -35.2, | 6   | 12.5, | 82.9, | 88.1, | -15.2, | -30.7, |
| 7   | 12.5, | 75.9, | 84.4, | -8.6,  | -25.2, | 8   | 12.5, | 66.7, | 78.2, | -1.6,  | -19.0, |
| 9   | 12.5, | 55.5, | 69.7, | 5.4,   | -12.2, | 10  | 12.5, | 66.7, | 78.2, | 2.6,   | -5.0,  |
| 11  | 12.5, | 75.9, | 84.4, | -0.2,  | 2.3,   | 12  | 12.5, | 82.9, | 88.1, | -3.1,  | 9.6,   |
| 13  | 12.5, | 87.3, | 89.0, | -5.9,  | 16.6,  | 14  | 12.5, | 89.0, | 87.3, | -8.4,  | 23.0,  |
| 15  | 12.5, | 88.1, | 82.9, | -10.8, | 28.8,  | 16  | 12.5, | 84.4, | 75.9, | -12.8, | 33.7,  |
| 17  | 12.5, | 78.2, | 66.7, | -14.4, | 37.5,  | 18  | 12.5, | 69.7, | 55.5, | -15.6, | 40.3,  |
| 19  | 12.5, | 78.2, | 66.7, | -28.4, | 41.8,  | 20  | 12.5, | 84.4, | 75.9, | -40.3, | 42.0,  |
| 21  | 12.5, | 88.1, | 82.9, | -51.0, | 40.9,  | 22  | 12.5, | 89.0, | 87.3, | -60.2, | 38.6,  |
| 23  | 12.5, | 87.3, | 89.0, | -67.5, | 35.2,  | 24  | 12.5, | 82.9, | 88.1, | -72.8, | 30.7,  |
| 25  | 12.5, | 75.9, | 84.4, | -75.9, | 25.2,  | 26  | 12.5, | 66.7, | 78.2, | -76.6, | 19.0,  |
| 27  | 12.5, | 55.5, | 69.7, | -75.1, | 12.2,  | 28  | 12.5, | 66.7, | 78.2, | -80.9, | 5.0,   |
| 29  | 12.5, | 75.9, | 84.4, | -84.2, | -2.3,  | 30  | 12.5, | 82.9, | 88.1, | -85.0, | -9.6,  |
| 31  | 12.5, | 87.3, | 89.0, | -83.2, | -16.6, | 32  | 12.5, | 89.0, | 87.3, | -78.8, | -23.0, |
| 33  | 12.5, | 88.1, | 82.9, | -72.1, | -28.8, | 34  | 12.5, | 84.4, | 75.9, | -63.2, | -33.7, |
| 35  | 12.5, | 78.2, | 66.7, | -52.3, | -37.5, | 36  | 12.5, | 69.7, | 55.5, | -39.9, | -40.3, |



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SOURCE ID: IB14

| IFV | BH   | BW   | BL   | XADJ  | YADJ  | IFV | BH   | BW   | BL   | XADJ  | YADJ  |
|-----|------|------|------|-------|-------|-----|------|------|------|-------|-------|
| 1   | 12.5 | 78.2 | 66.7 | -27.5 | -39.6 | 2   | 12.5 | 84.4 | 75.9 | -25.4 | -38.0 |
| 3   | 12.5 | 88.1 | 82.9 | -22.4 | -35.2 | 4   | 12.5 | 89.0 | 87.3 | -18.8 | -31.4 |
| 5   | 12.5 | 87.3 | 89.0 | -14.6 | -26.6 | 6   | 12.5 | 82.9 | 88.1 | -9.9  | -21.0 |
| 7   | 12.5 | 75.9 | 84.4 | -5.0  | -14.8 | 8   | 12.5 | 66.7 | 78.2 | 0.1   | -8.1  |
| 9   | 12.5 | 55.5 | 69.7 | 5.2   | -1.2  | 10  | 12.5 | 66.7 | 78.2 | 0.5   | 5.8   |
| 11  | 12.5 | 75.9 | 84.4 | -4.2  | 12.6  | 12  | 12.5 | 82.9 | 88.1 | -8.8  | 19.0  |
| 13  | 12.5 | 87.3 | 89.0 | -13.1 | 24.9  | 14  | 12.5 | 89.0 | 87.3 | -17.0 | 29.9  |
| 15  | 12.5 | 88.1 | 82.9 | -20.4 | 34.1  | 16  | 12.5 | 84.4 | 75.9 | -23.2 | 37.2  |
| 17  | 12.5 | 78.2 | 66.7 | -25.3 | 39.2  | 18  | 12.5 | 69.7 | 55.5 | -26.6 | 40.0  |
| 19  | 12.5 | 78.2 | 66.7 | -39.2 | 39.6  | 20  | 12.5 | 84.4 | 75.9 | -50.6 | 38.0  |
| 21  | 12.5 | 88.1 | 82.9 | -60.4 | 35.2  | 22  | 12.5 | 89.0 | 87.3 | -68.5 | 31.4  |
| 23  | 12.5 | 87.3 | 89.0 | -74.4 | 26.6  | 24  | 12.5 | 82.9 | 88.1 | -78.1 | 21.0  |
| 25  | 12.5 | 75.9 | 84.4 | -79.5 | 14.8  | 26  | 12.5 | 66.7 | 78.2 | -78.3 | 8.1   |
| 27  | 12.5 | 55.5 | 69.7 | -74.9 | 1.2   | 28  | 12.5 | 66.7 | 78.2 | -78.8 | -5.8  |
| 29  | 12.5 | 75.9 | 84.4 | -80.2 | -12.6 | 30  | 12.5 | 82.9 | 88.1 | -79.3 | -19.0 |
| 31  | 12.5 | 87.3 | 89.0 | -75.9 | -24.9 | 32  | 12.5 | 89.0 | 87.3 | -70.2 | -29.9 |
| 33  | 12.5 | 88.1 | 82.9 | -62.4 | -34.1 | 34  | 12.5 | 84.4 | 75.9 | -52.8 | -37.2 |
| 35  | 12.5 | 78.2 | 66.7 | -41.4 | -39.2 | 36  | 12.5 | 69.7 | 55.5 | -28.9 | -40.0 |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - LIne Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 9

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IB15

| IFV | BH   | BW   | BL   | XADJ  | YADJ  | IFV | BH   | BW   | BL   | XADJ  | YADJ  |
|-----|------|------|------|-------|-------|-----|------|------|------|-------|-------|
| 1   | 12.5 | 78.2 | 66.7 | -21.4 | -38.7 | 2   | 12.5 | 84.4 | 75.9 | -19.5 | -36.0 |
| 3   | 12.5 | 88.1 | 82.9 | -17.0 | -32.2 | 4   | 12.5 | 89.0 | 87.3 | -14.0 | -27.5 |
| 5   | 12.5 | 87.3 | 89.0 | -10.5 | -21.9 | 6   | 12.5 | 82.9 | 88.1 | -6.8  | -15.7 |
| 7   | 12.5 | 75.9 | 84.4 | -2.8  | -9.0  | 8   | 12.5 | 66.7 | 78.2 | 1.3   | -2.0  |
| 9   | 12.5 | 55.5 | 69.7 | 5.3   | 5.0   | 10  | 12.5 | 66.7 | 78.2 | -0.5  | 11.9  |
| 11  | 12.5 | 75.9 | 84.4 | -6.2  | 18.5  | 12  | 12.5 | 82.9 | 88.1 | -11.8 | 24.4  |
| 13  | 12.5 | 87.3 | 89.0 | -17.0 | 29.7  | 14  | 12.5 | 89.0 | 87.3 | -21.7 | 34.0  |
| 15  | 12.5 | 88.1 | 82.9 | -25.7 | 37.3  | 16  | 12.5 | 84.4 | 75.9 | -29.0 | 39.4  |
| 17  | 12.5 | 78.2 | 66.7 | -31.3 | 40.4  | 18  | 12.5 | 69.7 | 55.5 | -32.8 | 40.1  |
| 19  | 12.5 | 78.2 | 66.7 | -45.3 | 38.7  | 20  | 12.5 | 84.4 | 75.9 | -56.4 | 36.0  |
| 21  | 12.5 | 88.1 | 82.9 | -65.9 | 32.2  | 22  | 12.5 | 89.0 | 87.3 | -73.3 | 27.5  |
| 23  | 12.5 | 87.3 | 89.0 | -78.5 | 21.9  | 24  | 12.5 | 82.9 | 88.1 | -81.3 | 15.7  |
| 25  | 12.5 | 75.9 | 84.4 | -81.7 | 9.0   | 26  | 12.5 | 66.7 | 78.2 | -79.5 | 2.0   |
| 27  | 12.5 | 55.5 | 69.7 | -75.0 | -5.0  | 28  | 12.5 | 66.7 | 78.2 | -77.8 | -11.9 |
| 29  | 12.5 | 75.9 | 84.4 | -78.2 | -18.5 | 30  | 12.5 | 82.9 | 88.1 | -76.3 | -24.4 |
| 31  | 12.5 | 87.3 | 89.0 | -72.0 | -29.7 | 32  | 12.5 | 89.0 | 87.3 | -65.6 | -34.0 |
| 33  | 12.5 | 88.1 | 82.9 | -57.1 | -37.3 | 34  | 12.5 | 84.4 | 75.9 | -47.0 | -39.4 |
| 35  | 12.5 | 78.2 | 66.7 | -35.4 | -40.4 | 36  | 12.5 | 69.7 | 55.5 | -22.7 | -40.1 |

SOURCE ID: IB16

| IFV | BH   | BW   | BL   | XADJ  | YADJ  | IFV | BH   | BW   | BL   | XADJ  | YADJ  |
|-----|------|------|------|-------|-------|-----|------|------|------|-------|-------|
| 1   | 12.5 | 78.2 | 66.7 | -15.8 | -37.4 | 2   | 12.5 | 84.4 | 75.9 | -14.2 | -33.8 |

Page 11

DPM\_RI\_LINEAREA.ADO

|    |       |       |       |        |        |    |       |       |       |        |        |
|----|-------|-------|-------|--------|--------|----|-------|-------|-------|--------|--------|
| 3  | 12.5, | 88.1, | 82.9, | -12.2, | -29.2, | 4  | 12.5, | 89.0, | 87.3, | -9.7,  | -23.7, |
| 5  | 12.5, | 87.3, | 89.0, | -7.0,  | -17.4, | 6  | 12.5, | 82.9, | 88.1, | -4.1,  | -10.6, |
| 7  | 12.5, | 75.9, | 84.4, | -1.0,  | -3.5,  | 8  | 12.5, | 66.7, | 78.2, | 2.1,   | 3.7,   |
| 9  | 12.5, | 55.5, | 69.7, | 5.1,   | 10.8,  | 10 | 12.5, | 66.7, | 78.2, | -1.7,  | 17.5,  |
| 11 | 12.5, | 75.9, | 84.4, | -8.4,  | 23.8,  | 12 | 12.5, | 82.9, | 88.1, | -14.9, | 29.3,  |
| 13 | 12.5, | 87.3, | 89.0, | -20.9, | 33.9,  | 14 | 12.5, | 89.0, | 87.3, | -26.2, | 37.5,  |
| 15 | 12.5, | 88.1, | 82.9, | -30.8, | 39.9,  | 16 | 12.5, | 84.4, | 75.9, | -34.4, | 41.2,  |
| 17 | 12.5, | 78.2, | 66.7, | -37.0, | 41.2,  | 18 | 12.5, | 69.7, | 55.5, | -38.5, | 39.9,  |
| 19 | 12.5, | 78.2, | 66.7, | -50.9, | 37.4,  | 20 | 12.5, | 84.4, | 75.9, | -61.7, | 33.8,  |
| 21 | 12.5, | 88.1, | 82.9, | -70.7, | 29.2,  | 22 | 12.5, | 89.0, | 87.3, | -77.5, | 23.7,  |
| 23 | 12.5, | 87.3, | 89.0, | -82.0, | 17.4,  | 24 | 12.5, | 82.9, | 88.1, | -84.0, | 10.6,  |
| 25 | 12.5, | 75.9, | 84.4, | -83.4, | 3.5,   | 26 | 12.5, | 66.7, | 78.2, | -80.3, | -3.7,  |
| 27 | 12.5, | 55.5, | 69.7, | -74.8, | -10.8, | 28 | 12.5, | 66.7, | 78.2, | -76.6, | -17.5, |
| 29 | 12.5, | 75.9, | 84.4, | -76.0, | -23.8, | 30 | 12.5, | 82.9, | 88.1, | -73.2, | -29.3, |
| 31 | 12.5, | 87.3, | 89.0, | -68.2, | -33.9, | 32 | 12.5, | 89.0, | 87.3, | -61.0, | -37.5, |
| 33 | 12.5, | 88.1, | 82.9, | -52.1, | -39.9, | 34 | 12.5, | 84.4, | 75.9, | -41.5, | -41.2, |
| 35 | 12.5, | 78.2, | 66.7, | -29.7, | -41.2, | 36 | 12.5, | 69.7, | 55.5, | -17.0, | -39.9, |

SOURCE ID: IB17

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 78.2, | 66.7, | -9.7,  | -36.5, | 2   | 12.5, | 84.4, | 75.9, | -8.4,  | -31.8, |
| 3   | 12.5, | 88.1, | 82.9, | -6.7,  | -26.2, | 4   | 12.5, | 89.0, | 87.3, | -4.9,  | -19.8, |
| 5   | 12.5, | 87.3, | 89.0, | -2.9,  | -12.8, | 6   | 12.5, | 82.9, | 88.1, | -0.9,  | -5.3,  |
| 7   | 12.5, | 75.9, | 84.4, | 1.2,   | 2.2,   | 8   | 12.5, | 66.7, | 78.2, | 3.2,   | 9.7,   |
| 9   | 12.5, | 55.5, | 69.7, | 5.2,   | 16.9,  | 10  | 12.5, | 66.7, | 78.2, | -2.6,  | 23.6,  |
| 11  | 12.5, | 75.9, | 84.4, | -10.4, | 29.6,  | 12  | 12.5, | 82.9, | 88.1, | -17.8, | 34.7,  |
| 13  | 12.5, | 87.3, | 89.0, | -24.7, | 38.7,  | 14  | 12.5, | 89.0, | 87.3, | -30.9, | 41.6,  |
| 15  | 12.5, | 88.1, | 82.9, | -36.1, | 43.1,  | 16  | 12.5, | 84.4, | 75.9, | -40.2, | 43.4,  |
| 17  | 12.5, | 78.2, | 66.7, | -43.1, | 42.4,  | 18  | 12.5, | 69.7, | 55.5, | -44.7, | 40.0,  |
| 19  | 12.5, | 78.2, | 66.7, | -57.0, | 36.5,  | 20  | 12.5, | 84.4, | 75.9, | -67.6, | 31.8,  |
| 21  | 12.5, | 88.1, | 82.9, | -76.1, | 26.2,  | 22  | 12.5, | 89.0, | 87.3, | -82.3, | 19.8,  |
| 23  | 12.5, | 87.3, | 89.0, | -86.1, | 12.8,  | 24  | 12.5, | 82.9, | 88.1, | -87.2, | 5.3,   |
| 25  | 12.5, | 75.9, | 84.4, | -85.6, | -2.2,  | 26  | 12.5, | 66.7, | 78.2, | -81.5, | -9.7,  |
| 27  | 12.5, | 55.5, | 69.7, | -74.9, | -16.9, | 28  | 12.5, | 66.7, | 78.2, | -75.6, | -23.6, |
| 29  | 12.5, | 75.9, | 84.4, | -74.0, | -29.6, | 30  | 12.5, | 82.9, | 88.1, | -70.2, | -34.7, |
| 31  | 12.5, | 87.3, | 89.0, | -64.3, | -38.7, | 32  | 12.5, | 89.0, | 87.3, | -56.4, | -41.6, |
| 33  | 12.5, | 88.1, | 82.9, | -46.8, | -43.1, | 34  | 12.5, | 84.4, | 75.9, | -35.8, | -43.4, |
| 35  | 12.5, | 78.2, | 66.7, | -23.6, | -42.4, | 36  | 12.5, | 69.7, | 55.5, | -10.8, | -40.0, |

SOURCE ID: IB18

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 78.2, | 66.7, | -4.6,  | -35.8, | 2   | 12.5, | 84.4, | 75.9, | -3.4,  | -30.3, |
| 3   | 12.5, | 88.1, | 82.9, | -2.2,  | -23.8, | 4   | 12.5, | 89.0, | 87.3, | -0.8,  | -16.6, |
| 5   | 12.5, | 87.3, | 89.0, | 0.5,   | -8.9,  | 6   | 12.5, | 82.9, | 88.1, | 1.9,   | -1.0,  |
| 7   | 12.5, | 75.9, | 84.4, | 3.2,   | 7.0,   | 8   | 12.5, | 66.7, | 78.2, | 4.4,   | 14.8,  |
| 9   | 12.5, | 55.5, | 69.7, | 5.4,   | 22.1,  | 10  | 12.5, | 66.7, | 78.2, | -3.3,  | 28.8,  |
| 11  | 12.5, | 75.9, | 84.4, | -12.0, | 34.5,  | 12  | 12.5, | 82.9, | 88.1, | -20.2, | 39.3,  |
| 13  | 12.5, | 87.3, | 89.0, | -27.9, | 42.8,  | 14  | 12.5, | 89.0, | 87.3, | -34.7, | 45.0,  |
| 15  | 12.5, | 88.1, | 82.9, | -40.4, | 45.9,  | 16  | 12.5, | 84.4, | 75.9, | -45.0, | 45.4,  |
| 17  | 12.5, | 78.2, | 66.7, | -48.1, | 43.5,  | 18  | 12.5, | 69.7, | 55.5, | -49.8, | 40.2,  |
| 19  | 12.5, | 78.2, | 66.7, | -62.1, | 35.8,  | 20  | 12.5, | 84.4, | 75.9, | -72.5, | 30.3,  |
| 21  | 12.5, | 88.1, | 82.9, | -80.7, | 23.8,  | 22  | 12.5, | 89.0, | 87.3, | -86.5, | 16.6,  |
| 23  | 12.5, | 87.3, | 89.0, | -89.6, | 8.9,   | 24  | 12.5, | 82.9, | 88.1, | -90.0, | 1.0,   |
| 25  | 12.5, | 75.9, | 84.4, | -87.6, | -7.0,  | 26  | 12.5, | 66.7, | 78.2, | -82.6, | -14.8, |

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|    |       |       |       |        |        |    |       |       |       |        |        |
|----|-------|-------|-------|--------|--------|----|-------|-------|-------|--------|--------|
| 27 | 12.5, | 55.5, | 69.7, | -75.1, | -22.1, | 28 | 12.5, | 66.7, | 78.2, | -74.9, | -28.8, |
| 29 | 12.5, | 75.9, | 84.4, | -72.5, | -34.5, | 30 | 12.5, | 82.9, | 88.1, | -67.8, | -39.3, |
| 31 | 12.5, | 87.3, | 89.0, | -61.1, | -42.8, | 32 | 12.5, | 89.0, | 87.3, | -52.6, | -45.0, |
| 33 | 12.5, | 88.1, | 82.9, | -42.4, | -45.9, | 34 | 12.5, | 84.4, | 75.9, | -31.0, | -45.4, |
| 35 | 12.5, | 78.2, | 66.7, | -18.6, | -43.5, | 36 | 12.5, | 69.7, | 55.5, | -5.6,  | -40.2, |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*

09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 10

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: FP1

| IFV | BH    | BW    | BL    | XADJ    | YADJ   | IFV | BH    | BW    | BL    | XADJ    | YADJ   |
|-----|-------|-------|-------|---------|--------|-----|-------|-------|-------|---------|--------|
| 1   | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 2   | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |
| 3   | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 4   | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |
| 5   | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 6   | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |
| 7   | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 8   | 12.5, | 68.4, | 79.9, | -89.3,  | 38.2,  |
| 9   | 12.5, | 56.9, | 71.1, | -90.8,  | 29.1,  | 10  | 12.5, | 68.4, | 79.9, | -99.4,  | 19.0,  |
| 11  | 12.5, | 77.8, | 86.3, | -105.0, | 8.4,   | 12  | 12.5, | 84.9, | 90.1, | -107.4, | -2.5,  |
| 13  | 12.5, | 89.3, | 91.1, | -106.5, | -13.3, | 14  | 12.5, | 91.1, | 89.3, | -102.4, | -23.7, |
| 15  | 12.5, | 90.1, | 84.9, | -95.2,  | -33.3, | 16  | 12.5, | 86.3, | 77.8, | -85.1,  | -42.0, |
| 17  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 18  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |
| 19  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 20  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |
| 21  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 22  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |
| 23  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 24  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |
| 25  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 26  | 12.5, | 68.4, | 79.9, | 9.4,    | -38.2, |
| 27  | 12.5, | 56.9, | 71.1, | 19.7,   | -29.1, | 28  | 12.5, | 68.4, | 79.9, | 19.5,   | -19.0, |
| 29  | 12.5, | 77.8, | 86.3, | 18.7,   | -8.4,  | 30  | 12.5, | 84.9, | 90.1, | 17.3,   | 2.5,   |
| 31  | 12.5, | 89.3, | 91.1, | 15.5,   | 13.3,  | 32  | 12.5, | 91.1, | 89.3, | 13.1,   | 23.7,  |
| 33  | 12.5, | 90.1, | 84.9, | 10.4,   | 33.3,  | 34  | 12.5, | 86.3, | 77.8, | 7.3,    | 42.0,  |
| 35  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 36  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*

09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 11

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* GRIDDED RECEPTOR NETWORK SUMMARY \*\*\*

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

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

475028.3, 475128.3, 475228.3, 475328.3, 475428.3, 475528.3, 475628.3, 475728.3, 475828.3,  
475928.3,  
476028.3, 476128.3, 476228.3, 476328.3, 476428.3, 476528.3, 476628.3, 476728.3,

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

DPM\_RI\_LINEAREA.ADO

3744566.8, 3744666.8, 3744766.8, 3744866.8, 3744966.8, 3745066.8, 3745166.8, 3745266.8, 3745366.8, 3745466.8,

3745566.8, 3745666.8, 3745766.8, 3745866.8, 3745966.8, 3746066.8, 3746166.8, 3746266.8, 3746366.8, 3746466.8,

3746566.8, 3746666.8, 3746766.8, 3746866.8, 3746966.8, 3747066.8,

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - LIne Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

\* ELEVATION HEIGHTS IN METERS \*

| Y-COORD             | X-COORD (METERS) |           |           |           |           |           |           |  |
|---------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| (METERS)            | 475028.31        | 475128.31 | 475228.31 | 475328.31 | 475428.31 | 475528.31 | 475628.31 |  |
| 475728.31 475828.31 |                  |           |           |           |           |           |           |  |

|            |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3747066.80 | 484.10 | 480.40 | 475.00 | 472.00 | 469.80 | 468.10 | 466.30 | 464.70 |
| 463.00     |        |        |        |        |        |        |        |        |
| 3746966.80 | 485.10 | 480.60 | 475.40 | 474.00 | 471.70 | 469.00 | 466.40 | 464.10 |
| 463.00     |        |        |        |        |        |        |        |        |
| 3746866.80 | 485.20 | 480.70 | 477.40 | 475.00 | 472.20 | 469.60 | 468.00 | 466.00 |
| 464.00     |        |        |        |        |        |        |        |        |
| 3746766.80 | 486.00 | 481.70 | 477.20 | 473.10 | 473.00 | 471.40 | 468.30 | 466.70 |
| 463.40     |        |        |        |        |        |        |        |        |
| 3746666.80 | 486.00 | 481.50 | 478.00 | 475.00 | 472.80 | 471.10 | 469.00 | 466.90 |
| 464.40     |        |        |        |        |        |        |        |        |
| 3746566.80 | 487.00 | 482.70 | 478.40 | 475.00 | 473.00 | 470.40 | 469.00 | 467.00 |
| 465.40     |        |        |        |        |        |        |        |        |
| 3746466.80 | 486.80 | 482.70 | 479.40 | 476.00 | 474.20 | 472.40 | 470.00 | 467.70 |
| 465.40     |        |        |        |        |        |        |        |        |
| 3746366.80 | 486.70 | 483.70 | 480.40 | 476.40 | 475.50 | 472.60 | 470.10 | 467.90 |
| 466.00     |        |        |        |        |        |        |        |        |
| 3746266.80 | 488.00 | 484.40 | 480.40 | 477.00 | 474.70 | 472.40 | 470.10 | 468.00 |
| 467.00     |        |        |        |        |        |        |        |        |
| 3746166.80 | 487.00 | 485.30 | 481.10 | 478.00 | 474.50 | 471.60 | 469.00 | 467.70 |
| 466.30     |        |        |        |        |        |        |        |        |
| 3746066.80 | 487.00 | 484.50 | 481.10 | 478.00 | 475.70 | 472.40 | 470.10 | 467.70 |
| 466.00     |        |        |        |        |        |        |        |        |
| 3745966.80 | 490.10 | 485.40 | 481.00 | 479.00 | 475.70 | 472.40 | 469.00 | 468.00 |
| 466.00     |        |        |        |        |        |        |        |        |
| 3745866.80 | 492.70 | 486.80 | 483.30 | 481.00 | 476.70 | 473.50 | 471.00 | 469.00 |
| 466.40     |        |        |        |        |        |        |        |        |
| 3745766.80 | 494.10 | 489.70 | 485.40 | 481.40 | 476.70 | 474.00 | 471.40 | 468.70 |
| 466.40     |        |        |        |        |        |        |        |        |
| 3745666.80 | 496.10 | 490.70 | 485.80 | 481.10 | 477.40 | 473.40 | 471.10 | 468.70 |
| 467.00     |        |        |        |        |        |        |        |        |
| 3745566.80 | 498.10 | 491.80 | 486.40 | 482.00 | 477.90 | 474.40 | 472.00 | 469.00 |
| 466.60     |        |        |        |        |        |        |        |        |
| 3745466.80 | 497.80 | 491.00 | 486.90 | 482.70 | 478.70 | 474.60 | 471.70 | 469.60 |
| 468.80     |        |        |        |        |        |        |        |        |
| 3745366.80 | 497.10 | 490.70 | 487.40 | 483.10 | 479.40 | 475.40 | 472.10 | 470.00 |
| 469.00     |        |        |        |        |        |        |        |        |

| DPM_R!_LINEAREA.ADO |        |        |        |        |        |        |        |        |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3745266.80          | 500.10 | 492.50 | 487.80 | 483.10 | 478.70 | 475.40 | 473.00 | 470.70 |
| 468.40              |        |        |        |        |        |        |        |        |
| 3745166.80          | 500.40 | 493.60 | 488.20 | 483.10 | 478.70 | 475.00 | 473.00 | 470.70 |
| 468.40              |        |        |        |        |        |        |        |        |
| 3745066.80          | 503.00 | 494.40 | 488.80 | 484.00 | 479.40 | 475.40 | 473.10 | 471.00 |
| 469.00              |        |        |        |        |        |        |        |        |
| 3744966.80          | 501.50 | 494.90 | 489.50 | 484.10 | 479.70 | 476.70 | 474.10 | 472.20 |
| 470.40              |        |        |        |        |        |        |        |        |
| 3744866.80          | 500.20 | 495.40 | 489.80 | 485.10 | 481.40 | 478.00 | 475.10 | 472.70 |
| 470.40              |        |        |        |        |        |        |        |        |
| 3744766.80          | 501.20 | 495.40 | 489.20 | 487.00 | 482.70 | 478.80 | 476.00 | 473.00 |
| 471.00              |        |        |        |        |        |        |        |        |
| 3744666.80          | 504.20 | 495.50 | 491.40 | 488.00 | 483.20 | 479.00 | 475.30 | 473.70 |
| 471.40              |        |        |        |        |        |        |        |        |
| 3744566.80          | 504.70 | 495.90 | 492.00 | 488.00 | 483.40 | 479.00 | 475.40 | 473.00 |
| 471.40              |        |        |        |        |        |        |        |        |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - LIne Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 13

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

\* ELEVATION HEIGHTS IN METERS \*

| Y-COORD   | X-COORD (METERS) |           |           |           |           |           |           |           |
|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| (METERS)  | 475928.31        | 476028.31 | 476128.31 | 476228.31 | 476328.31 | 476428.31 | 476528.31 | 476628.31 |
| 476628.31 | 476728.31        |           |           |           |           |           |           |           |

|            |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3747066.80 | 461.10 | 459.70 | 458.10 | 457.00 | 456.70 | 456.00 | 455.00 | 454.70 |
| 454.00     |        |        |        |        |        |        |        |        |
| 3746966.80 | 462.00 | 460.00 | 458.20 | 457.00 | 456.70 | 456.00 | 455.10 | 455.00 |
| 454.00     |        |        |        |        |        |        |        |        |
| 3746866.80 | 462.00 | 460.70 | 459.00 | 458.00 | 457.00 | 456.40 | 456.00 | 455.00 |
| 453.40     |        |        |        |        |        |        |        |        |
| 3746766.80 | 462.10 | 461.00 | 460.00 | 458.30 | 457.70 | 457.00 | 456.00 | 455.00 |
| 453.60     |        |        |        |        |        |        |        |        |
| 3746666.80 | 463.00 | 461.70 | 460.20 | 459.00 | 458.00 | 457.00 | 456.00 | 455.00 |
| 454.00     |        |        |        |        |        |        |        |        |
| 3746566.80 | 463.10 | 462.00 | 461.00 | 460.00 | 458.70 | 457.00 | 456.10 | 455.00 |
| 454.40     |        |        |        |        |        |        |        |        |
| 3746466.80 | 464.00 | 462.70 | 461.10 | 460.00 | 458.80 | 457.60 | 457.00 | 455.80 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3746366.80 | 464.70 | 463.00 | 461.80 | 460.10 | 459.00 | 458.00 | 457.10 | 456.00 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3746266.80 | 465.00 | 463.70 | 462.00 | 461.00 | 459.70 | 458.40 | 457.10 | 456.00 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3746166.80 | 465.00 | 463.00 | 462.00 | 461.00 | 460.00 | 459.00 | 458.00 | 456.00 |
| 454.60     |        |        |        |        |        |        |        |        |
| 3746066.80 | 464.40 | 463.00 | 462.00 | 461.10 | 460.50 | 459.00 | 458.00 | 456.50 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3745966.80 | 464.10 | 463.00 | 461.40 | 460.10 | 461.00 | 459.40 | 458.00 | 456.00 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3745866.80 | 465.00 | 463.00 | 461.40 | 460.10 | 460.00 | 460.00 | 458.00 | 456.00 |

Page 15

DPM\_R!\_LINEAREA.ADO

|            |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 454.40     |        |        |        |        |        |        |        |        |
| 3745766.80 | 465.00 | 463.00 | 462.00 | 460.70 | 459.90 | 459.10 | 458.00 | 456.70 |
| 455.40     |        |        |        |        |        |        |        |        |
| 3745666.80 | 465.00 | 463.00 | 462.40 | 461.00 | 460.00 | 459.00 | 458.00 | 457.00 |
| 455.40     |        |        |        |        |        |        |        |        |
| 3745566.80 | 465.30 | 464.00 | 463.00 | 461.10 | 460.00 | 459.00 | 458.00 | 457.00 |
| 455.40     |        |        |        |        |        |        |        |        |
| 3745466.80 | 466.70 | 464.70 | 463.10 | 462.00 | 460.90 | 459.80 | 458.10 | 457.00 |
| 456.00     |        |        |        |        |        |        |        |        |
| 3745366.80 | 467.00 | 464.70 | 463.00 | 462.00 | 461.00 | 460.00 | 458.10 | 457.00 |
| 456.00     |        |        |        |        |        |        |        |        |
| 3745266.80 | 467.00 | 465.00 | 463.60 | 462.30 | 461.00 | 460.00 | 458.30 | 457.00 |
| 456.00     |        |        |        |        |        |        |        |        |
| 3745166.80 | 467.00 | 465.90 | 464.40 | 463.00 | 461.00 | 460.00 | 459.00 | 457.70 |
| 456.40     |        |        |        |        |        |        |        |        |
| 3745066.80 | 468.00 | 467.00 | 465.40 | 464.00 | 461.70 | 460.00 | 459.00 | 458.00 |
| 457.00     |        |        |        |        |        |        |        |        |
| 3744966.80 | 469.10 | 467.00 | 465.40 | 464.00 | 462.00 | 460.40 | 459.10 | 458.00 |
| 457.10     |        |        |        |        |        |        |        |        |
| 3744866.80 | 469.00 | 467.00 | 465.40 | 464.00 | 462.00 | 460.40 | 459.00 | 457.70 |
| 457.00     |        |        |        |        |        |        |        |        |
| 3744766.80 | 469.00 | 467.00 | 465.40 | 464.00 | 462.70 | 461.00 | 460.00 | 458.00 |
| 456.40     |        |        |        |        |        |        |        |        |
| 3744666.80 | 469.10 | 467.70 | 466.00 | 464.30 | 463.00 | 461.40 | 460.00 | 458.70 |
| 457.00     |        |        |        |        |        |        |        |        |
| 3744566.80 | 469.00 | 467.70 | 466.00 | 465.00 | 463.00 | 462.00 | 461.00 | 459.50 |
| 457.60     |        |        |        |        |        |        |        |        |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 14

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

\* HILL HEIGHT SCALES IN METERS \*

| Y-COORD   | X-COORD (METERS) |           |           |           |           |           |           |
|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| (METERS)  | 475028.31        | 475128.31 | 475228.31 | 475328.31 | 475428.31 | 475528.31 | 475628.31 |
| 475728.31 | 475828.31        |           |           |           |           |           |           |

|            |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3747066.80 | 525.00 | 480.40 | 475.00 | 472.00 | 469.80 | 468.10 | 466.30 | 464.70 |
| 463.00     |        |        |        |        |        |        |        |        |
| 3746966.80 | 525.00 | 480.60 | 475.40 | 474.00 | 471.70 | 469.00 | 466.40 | 464.10 |
| 463.00     |        |        |        |        |        |        |        |        |
| 3746866.80 | 525.00 | 480.70 | 477.40 | 475.00 | 472.20 | 469.60 | 468.00 | 466.00 |
| 464.00     |        |        |        |        |        |        |        |        |
| 3746766.80 | 486.00 | 481.70 | 477.20 | 473.10 | 473.00 | 471.40 | 468.30 | 466.70 |
| 463.40     |        |        |        |        |        |        |        |        |
| 3746666.80 | 486.00 | 481.50 | 478.00 | 475.00 | 472.80 | 471.10 | 469.00 | 466.90 |
| 464.40     |        |        |        |        |        |        |        |        |
| 3746566.80 | 487.00 | 482.70 | 478.40 | 475.00 | 473.00 | 470.40 | 469.00 | 467.00 |
| 465.40     |        |        |        |        |        |        |        |        |
| 3746466.80 | 486.80 | 482.70 | 479.40 | 476.00 | 474.20 | 472.40 | 470.00 | 467.70 |
| 465.40     |        |        |        |        |        |        |        |        |

| DPM_R!_LINEAREA.ADO |        |        |        |        |        |        |        |        |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3746366.80          | 486.70 | 483.70 | 480.40 | 476.40 | 475.50 | 472.60 | 470.10 | 467.90 |
| 466.00              |        |        |        |        |        |        |        |        |
| 3746266.80          | 488.00 | 484.40 | 480.40 | 477.00 | 474.70 | 472.40 | 470.10 | 468.00 |
| 467.00              |        |        |        |        |        |        |        |        |
| 3746166.80          | 487.00 | 485.30 | 481.10 | 478.00 | 474.50 | 471.60 | 469.00 | 467.70 |
| 466.30              |        |        |        |        |        |        |        |        |
| 3746066.80          | 487.00 | 484.50 | 481.10 | 478.00 | 475.70 | 472.40 | 470.10 | 467.70 |
| 466.00              |        |        |        |        |        |        |        |        |
| 3745966.80          | 490.10 | 485.40 | 481.00 | 479.00 | 475.70 | 472.40 | 469.00 | 468.00 |
| 466.00              |        |        |        |        |        |        |        |        |
| 3745866.80          | 492.70 | 486.80 | 483.30 | 481.00 | 476.70 | 473.50 | 471.00 | 469.00 |
| 466.40              |        |        |        |        |        |        |        |        |
| 3745766.80          | 494.10 | 489.70 | 485.40 | 481.40 | 476.70 | 474.00 | 471.40 | 468.70 |
| 466.40              |        |        |        |        |        |        |        |        |
| 3745666.80          | 496.10 | 490.70 | 485.80 | 481.10 | 477.40 | 473.40 | 471.10 | 468.70 |
| 467.00              |        |        |        |        |        |        |        |        |
| 3745566.80          | 506.00 | 491.80 | 486.40 | 482.00 | 477.90 | 474.40 | 472.00 | 469.00 |
| 466.60              |        |        |        |        |        |        |        |        |
| 3745466.80          | 513.00 | 491.00 | 486.90 | 482.70 | 478.70 | 474.60 | 471.70 | 469.60 |
| 468.80              |        |        |        |        |        |        |        |        |
| 3745366.80          | 497.10 | 490.70 | 487.40 | 483.10 | 479.40 | 475.40 | 472.10 | 470.00 |
| 469.00              |        |        |        |        |        |        |        |        |
| 3745266.80          | 500.10 | 492.50 | 487.80 | 483.10 | 478.70 | 475.40 | 473.00 | 470.70 |
| 468.40              |        |        |        |        |        |        |        |        |
| 3745166.80          | 504.00 | 493.60 | 488.20 | 483.10 | 478.70 | 475.00 | 473.00 | 470.70 |
| 468.40              |        |        |        |        |        |        |        |        |
| 3745066.80          | 503.00 | 494.40 | 488.80 | 484.00 | 479.40 | 475.40 | 473.10 | 471.00 |
| 469.00              |        |        |        |        |        |        |        |        |
| 3744966.80          | 511.00 | 494.90 | 489.50 | 484.10 | 479.70 | 476.70 | 474.10 | 472.20 |
| 470.40              |        |        |        |        |        |        |        |        |
| 3744866.80          | 520.00 | 495.40 | 489.80 | 485.10 | 481.40 | 478.00 | 475.10 | 472.70 |
| 470.40              |        |        |        |        |        |        |        |        |
| 3744766.80          | 520.00 | 495.40 | 489.20 | 487.00 | 482.70 | 478.80 | 476.00 | 473.00 |
| 471.00              |        |        |        |        |        |        |        |        |
| 3744666.80          | 504.20 | 495.50 | 491.40 | 488.00 | 483.20 | 479.00 | 475.30 | 473.70 |
| 471.40              |        |        |        |        |        |        |        |        |
| 3744566.80          | 512.00 | 512.00 | 492.00 | 488.00 | 483.40 | 479.00 | 475.40 | 473.00 |
| 471.40              |        |        |        |        |        |        |        |        |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 15

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

\* HILL HEIGHT SCALES IN METERS \*

| Y-COORD   | X-COORD (METERS) |           |           |           |           |           |           |           |
|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| (METERS)  | 475928.31        | 476028.31 | 476128.31 | 476228.31 | 476328.31 | 476428.31 | 476528.31 | 476628.31 |
| 476628.31 | 476728.31        |           |           |           |           |           |           |           |

|            |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3747066.80 | 461.10 | 459.70 | 458.10 | 457.00 | 456.70 | 456.00 | 455.00 | 454.70 |
| 454.00     |        |        |        |        |        |        |        |        |
| 3746966.80 | 462.00 | 460.00 | 458.20 | 457.00 | 456.70 | 456.00 | 455.10 | 455.00 |

Page 17

DPM\_R!\_LINEAREA.ADO

|            |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 454.00     |        |        |        |        |        |        |        |        |
| 3746866.80 | 462.00 | 460.70 | 459.00 | 458.00 | 457.00 | 456.40 | 456.00 | 455.00 |
| 453.40     |        |        |        |        |        |        |        |        |
| 3746766.80 | 462.10 | 461.00 | 460.00 | 458.30 | 457.70 | 457.00 | 456.00 | 455.00 |
| 453.60     |        |        |        |        |        |        |        |        |
| 3746666.80 | 463.00 | 461.70 | 460.20 | 459.00 | 458.00 | 457.00 | 456.00 | 455.00 |
| 454.00     |        |        |        |        |        |        |        |        |
| 3746566.80 | 463.10 | 462.00 | 461.00 | 460.00 | 458.70 | 457.00 | 456.10 | 455.00 |
| 454.40     |        |        |        |        |        |        |        |        |
| 3746466.80 | 464.00 | 462.70 | 461.10 | 460.00 | 458.80 | 457.60 | 457.00 | 455.80 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3746366.80 | 464.70 | 463.00 | 461.80 | 460.10 | 459.00 | 458.00 | 457.10 | 456.00 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3746266.80 | 465.00 | 463.70 | 462.00 | 461.00 | 459.70 | 458.40 | 457.10 | 456.00 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3746166.80 | 465.00 | 463.00 | 462.00 | 461.00 | 460.00 | 459.00 | 458.00 | 456.00 |
| 454.60     |        |        |        |        |        |        |        |        |
| 3746066.80 | 464.40 | 463.00 | 462.00 | 461.10 | 460.50 | 459.00 | 458.00 | 456.50 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3745966.80 | 464.10 | 463.00 | 461.40 | 460.10 | 461.00 | 459.40 | 458.00 | 456.00 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3745866.80 | 465.00 | 463.00 | 461.40 | 460.10 | 460.00 | 460.00 | 458.00 | 456.00 |
| 454.40     |        |        |        |        |        |        |        |        |
| 3745766.80 | 465.00 | 463.00 | 462.00 | 460.70 | 459.90 | 459.10 | 458.00 | 456.70 |
| 455.40     |        |        |        |        |        |        |        |        |
| 3745666.80 | 465.00 | 463.00 | 462.40 | 461.00 | 460.00 | 459.00 | 458.00 | 457.00 |
| 455.40     |        |        |        |        |        |        |        |        |
| 3745566.80 | 465.30 | 464.00 | 463.00 | 461.10 | 460.00 | 459.00 | 458.00 | 457.00 |
| 455.40     |        |        |        |        |        |        |        |        |
| 3745466.80 | 466.70 | 464.70 | 463.10 | 462.00 | 460.90 | 459.80 | 458.10 | 457.00 |
| 456.00     |        |        |        |        |        |        |        |        |
| 3745366.80 | 467.00 | 464.70 | 463.00 | 462.00 | 461.00 | 460.00 | 458.10 | 457.00 |
| 456.00     |        |        |        |        |        |        |        |        |
| 3745266.80 | 467.00 | 465.00 | 463.60 | 462.30 | 461.00 | 460.00 | 458.30 | 457.00 |
| 456.00     |        |        |        |        |        |        |        |        |
| 3745166.80 | 467.00 | 465.90 | 464.40 | 463.00 | 461.00 | 460.00 | 459.00 | 457.70 |
| 456.40     |        |        |        |        |        |        |        |        |
| 3745066.80 | 468.00 | 467.00 | 465.40 | 464.00 | 461.70 | 460.00 | 459.00 | 458.00 |
| 457.00     |        |        |        |        |        |        |        |        |
| 3744966.80 | 469.10 | 467.00 | 465.40 | 464.00 | 462.00 | 460.40 | 459.10 | 458.00 |
| 457.10     |        |        |        |        |        |        |        |        |
| 3744866.80 | 469.00 | 467.00 | 465.40 | 464.00 | 462.00 | 460.40 | 459.00 | 457.70 |
| 457.00     |        |        |        |        |        |        |        |        |
| 3744766.80 | 469.00 | 467.00 | 465.40 | 464.00 | 462.70 | 461.00 | 460.00 | 458.00 |
| 456.40     |        |        |        |        |        |        |        |        |
| 3744666.80 | 469.10 | 467.70 | 466.00 | 464.30 | 463.00 | 461.40 | 460.00 | 458.70 |
| 457.00     |        |        |        |        |        |        |        |        |
| 3744566.80 | 469.00 | 467.70 | 466.00 | 465.00 | 463.00 | 462.00 | 461.00 | 459.50 |
| 457.60     |        |        |        |        |        |        |        |        |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 16

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*





DPM\_RI\_LINEAREA.ADO

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - LIne Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 18

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

Surface file: ..\..\PerrisADJU\PERI\_V9\_ADJU\PERI\_v9.SFC Met Version: 16216

Profile file: ..\..\PerrisADJU\PERI\_V9\_ADJU\PERI\_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name: UNKNOWN

Year: 2010

Year: 2010

First 24 hours of scalar data

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

|    |    |    |   |    |      |       |        |        |       |      |       |      |      |      |      |      |     |       |     |
|----|----|----|---|----|------|-------|--------|--------|-------|------|-------|------|------|------|------|------|-----|-------|-----|
| 10 | 01 | 01 | 1 | 01 | -7.9 | 0.125 | -9.000 | -9.000 | -999. | 106. | 21.2  | 0.19 | 0.61 | 1.00 | 1.30 | 335. | 9.1 | 282.5 | 5.5 |
| 10 | 01 | 01 | 1 | 02 | -3.9 | 0.088 | -9.000 | -9.000 | -999. | 62.  | 15.1  | 0.19 | 0.61 | 1.00 | 0.90 | 142. | 9.1 | 280.9 | 5.5 |
| 10 | 01 | 01 | 1 | 03 | -3.9 | 0.088 | -9.000 | -9.000 | -999. | 62.  | 15.1  | 0.19 | 0.61 | 1.00 | 0.90 | 324. | 9.1 | 280.4 | 5.5 |
| 10 | 01 | 01 | 1 | 04 | -1.3 | 0.064 | -9.000 | -9.000 | -999. | 39.  | 18.3  | 0.19 | 0.61 | 1.00 | 0.40 | 294. | 9.1 | 278.8 | 5.5 |
| 10 | 01 | 01 | 1 | 05 | -3.9 | 0.088 | -9.000 | -9.000 | -999. | 62.  | 15.0  | 0.19 | 0.61 | 1.00 | 0.90 | 205. | 9.1 | 278.1 | 5.5 |
| 10 | 01 | 01 | 1 | 06 | -1.3 | 0.065 | -9.000 | -9.000 | -999. | 39.  | 18.3  | 0.19 | 0.61 | 1.00 | 0.40 | 3.   | 9.1 | 277.0 | 5.5 |
| 10 | 01 | 01 | 1 | 07 | -8.0 | 0.125 | -9.000 | -9.000 | -999. | 106. | 21.0  | 0.19 | 0.61 | 1.00 | 1.30 | 99.  | 9.1 | 277.0 | 5.5 |
| 10 | 01 | 01 | 1 | 08 | -3.3 | 0.086 | -9.000 | -9.000 | -999. | 61.  | 16.8  | 0.19 | 0.61 | 0.54 | 0.90 | 319. | 9.1 | 278.8 | 5.5 |
| 10 | 01 | 01 | 1 | 09 | 20.1 | 0.128 | 0.307  | 0.010  | 49.   | 110. | -9.0  | 0.19 | 0.61 | 0.33 | 0.90 | 239. | 9.1 | 284.2 | 5.5 |
| 10 | 01 | 01 | 1 | 10 | 56.7 | 0.087 | 0.560  | 0.010  | 107.  | 62.  | -1.0  | 0.19 | 0.61 | 0.26 | 0.40 | 188. | 9.1 | 289.2 | 5.5 |
| 10 | 01 | 01 | 1 | 11 | 81.5 | 0.323 | 0.867  | 0.008  | 277.  | 441. | -35.9 | 0.19 | 0.61 | 0.23 | 2.70 | 310. | 9.1 | 290.9 | 5.5 |
| 10 | 01 | 01 | 1 | 12 | 97.1 | 0.281 | 1.058  | 0.008  | 421.  | 357. | -19.7 | 0.19 | 0.61 | 0.22 | 2.20 | 357. | 9.1 | 293.1 | 5.5 |
| 10 | 01 | 01 | 1 | 13 | 92.2 | 0.279 | 1.117  | 0.008  | 523.  | 354. | -20.4 | 0.19 | 0.61 | 0.22 | 2.20 | 356. | 9.1 | 293.8 | 5.5 |
| 10 | 01 | 01 | 1 | 14 | 77.6 | 0.275 | 1.102  | 0.008  | 595.  | 347. | -23.2 | 0.19 | 0.61 | 0.23 | 2.20 | 50.  | 9.1 | 294.2 | 5.5 |
| 10 | 01 | 01 | 1 | 15 | 54.9 | 0.230 | 1.006  | 0.008  | 640.  | 266. | -19.2 | 0.19 | 0.61 | 0.27 | 1.80 | 53.  | 9.1 | 293.8 | 5.5 |
| 10 | 01 | 01 | 1 | 16 | 12.3 | 0.206 | 0.613  | 0.008  | 648.  | 225. | -61.5 | 0.19 | 0.61 | 0.36 | 1.80 | 11.  | 9.1 | 292.5 | 5.5 |
| 10 | 01 | 01 | 1 | 17 | -3.6 | 0.087 | -9.000 | -9.000 | -999. | 71.  | 15.6  | 0.19 | 0.61 | 0.64 | 0.90 | 351. | 9.1 | 290.4 | 5.5 |
| 10 | 01 | 01 | 1 | 18 | -3.8 | 0.087 | -9.000 | -9.000 | -999. | 62.  | 15.2  | 0.19 | 0.61 | 1.00 | 0.90 | 186. | 9.1 | 287.5 | 5.5 |
| 10 | 01 | 01 | 1 | 19 | -3.8 | 0.087 | -9.000 | -9.000 | -999. | 62.  | 15.2  | 0.19 | 0.61 | 1.00 | 0.90 | 275. | 9.1 | 285.9 | 5.5 |
| 10 | 01 | 01 | 1 | 20 | -1.2 | 0.064 | -9.000 | -9.000 | -999. | 39.  | 18.1  | 0.19 | 0.61 | 1.00 | 0.40 | 181. | 9.1 | 285.4 | 5.5 |
| 10 | 01 | 01 | 1 | 21 | -7.8 | 0.125 | -9.000 | -9.000 | -999. | 106. | 21.3  | 0.19 | 0.61 | 1.00 | 1.30 | 318. | 9.1 | 284.9 | 5.5 |
| 10 | 01 | 01 | 1 | 22 | -3.8 | 0.088 | -9.000 | -9.000 | -999. | 62.  | 15.1  | 0.19 | 0.61 | 1.00 | 0.90 | 196. | 9.1 | 283.1 | 5.5 |
| 10 | 01 | 01 | 1 | 23 | -3.8 | 0.088 | -9.000 | -9.000 | -999. | 62.  | 15.1  | 0.19 | 0.61 | 1.00 | 0.90 | 330. | 9.1 | 281.4 | 5.5 |
| 10 | 01 | 01 | 1 | 24 | -7.9 | 0.125 | -9.000 | -9.000 | -999. | 106. | 21.2  | 0.19 | 0.61 | 1.00 | 1.30 | 332. | 9.1 | 280.9 | 5.5 |

DPM\_R!\_LINEAREA.ADO

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB\_TMP sigmaA sigmaW sigmaV  
 10 01 01 01 5.5 0 -999. -99.00 282.6 99.0 -99.00 -99.00  
 10 01 01 01 9.1 1 335. 1.30 -999.0 99.0 -99.00 -99.00

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

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*

09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 19

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: ALL

INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
 IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
 IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,  
 A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

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

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

| Y-COORD   | X-COORD (METERS) |           |           |           |           |           |           |  |
|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| (METERS)  | 475028.31        | 475128.31 | 475228.31 | 475328.31 | 475428.31 | 475528.31 | 475628.31 |  |
| 475728.31 | 475828.31        |           |           |           |           |           |           |  |

|            |         |         |         |         |         |         |         |         |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 3747066.80 | 0.00028 | 0.00030 | 0.00031 | 0.00032 | 0.00034 | 0.00040 | 0.00051 | 0.00053 |
| 0.00050    |         |         |         |         |         |         |         |         |
| 3746966.80 | 0.00031 | 0.00032 | 0.00033 | 0.00035 | 0.00037 | 0.00045 | 0.00103 | 0.00126 |
| 0.00124    |         |         |         |         |         |         |         |         |
| 3746866.80 | 0.00033 | 0.00035 | 0.00037 | 0.00038 | 0.00040 | 0.00046 | 0.00124 | 0.00080 |
| 0.00065    |         |         |         |         |         |         |         |         |
| 3746766.80 | 0.00035 | 0.00038 | 0.00040 | 0.00042 | 0.00044 | 0.00049 | 0.00071 | 0.00124 |
| 0.00065    |         |         |         |         |         |         |         |         |
| 3746666.80 | 0.00038 | 0.00042 | 0.00045 | 0.00047 | 0.00050 | 0.00053 | 0.00061 | 0.00099 |
| 0.00091    |         |         |         |         |         |         |         |         |
| 3746566.80 | 0.00041 | 0.00047 | 0.00052 | 0.00055 | 0.00057 | 0.00059 | 0.00064 | 0.00080 |
| 0.00224    |         |         |         |         |         |         |         |         |
| 3746466.80 | 0.00045 | 0.00053 | 0.00060 | 0.00065 | 0.00069 | 0.00071 | 0.00074 | 0.00085 |
| 0.00249    |         |         |         |         |         |         |         |         |
| 3746366.80 | 0.00050 | 0.00060 | 0.00072 | 0.00080 | 0.00085 | 0.00088 | 0.00090 | 0.00099 |
| 0.00270    |         |         |         |         |         |         |         |         |
| 3746266.80 | 0.00054 | 0.00069 | 0.00086 | 0.00101 | 0.00109 | 0.00113 | 0.00115 | 0.00122 |
| 0.00303    |         |         |         |         |         |         |         |         |
| 3746166.80 | 0.00059 | 0.00078 | 0.00103 | 0.00129 | 0.00144 | 0.00150 | 0.00151 | 0.00155 |
| 0.00339    |         |         |         |         |         |         |         |         |
| 3746066.80 | 0.00062 | 0.00087 | 0.00121 | 0.00161 | 0.00190 | 0.00202 | 0.00207 | 0.00201 |
| 0.00384    |         |         |         |         |         |         |         |         |
| 3745966.80 | 0.00061 | 0.00091 | 0.00136 | 0.00194 | 0.00249 | 0.00270 | 0.00280 | 0.00266 |
| 0.00288    |         |         |         |         |         |         |         |         |
| 3745866.80 | 0.00059 | 0.00089 | 0.00139 | 0.00216 | 0.00313 | 0.00359 | 0.00386 | 0.00359 |
| 0.00315    |         |         |         |         |         |         |         |         |
| 3745766.80 | 0.00056 | 0.00082 | 0.00130 | 0.00221 | 0.00373 | 0.00476 | 0.00519 | 0.00475 |

DPM\_R!\_LINEAREA.ADO

|            |         |         |         |         |         |         |         |         |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0.00519    |         |         |         |         |         |         |         |         |
| 3745666.80 | 0.00053 | 0.00076 | 0.00117 | 0.00202 | 0.00414 | 0.00676 | 0.00682 | 0.00681 |
| 0.00574    |         |         |         |         |         |         |         |         |
| 3745566.80 | 0.00048 | 0.00071 | 0.00108 | 0.00177 | 0.00385 | 0.01033 | 0.00797 | 0.01098 |
| 0.00643    |         |         |         |         |         |         |         |         |
| 3745466.80 | 0.00047 | 0.00069 | 0.00103 | 0.00172 | 0.00330 | 0.01467 | 0.00988 | 0.01614 |
| 0.00615    |         |         |         |         |         |         |         |         |
| 3745366.80 | 0.00046 | 0.00067 | 0.00098 | 0.00153 | 0.00271 | 0.00564 | 0.00712 | 0.00742 |
| 0.00605    |         |         |         |         |         |         |         |         |
| 3745266.80 | 0.00042 | 0.00061 | 0.00088 | 0.00129 | 0.00206 | 0.00348 | 0.00481 | 0.00513 |
| 0.00478    |         |         |         |         |         |         |         |         |
| 3745166.80 | 0.00039 | 0.00054 | 0.00076 | 0.00108 | 0.00162 | 0.00245 | 0.00329 | 0.00381 |
| 0.00365    |         |         |         |         |         |         |         |         |
| 3745066.80 | 0.00034 | 0.00047 | 0.00064 | 0.00088 | 0.00126 | 0.00178 | 0.00230 | 0.00274 |
| 0.00275    |         |         |         |         |         |         |         |         |
| 3744966.80 | 0.00031 | 0.00041 | 0.00054 | 0.00073 | 0.00098 | 0.00131 | 0.00165 | 0.00195 |
| 0.00204    |         |         |         |         |         |         |         |         |
| 3744866.80 | 0.00028 | 0.00035 | 0.00045 | 0.00059 | 0.00076 | 0.00098 | 0.00120 | 0.00139 |
| 0.00148    |         |         |         |         |         |         |         |         |
| 3744766.80 | 0.00024 | 0.00030 | 0.00039 | 0.00048 | 0.00060 | 0.00076 | 0.00090 | 0.00102 |
| 0.00109    |         |         |         |         |         |         |         |         |
| 3744666.80 | 0.00021 | 0.00027 | 0.00032 | 0.00040 | 0.00049 | 0.00060 | 0.00069 | 0.00077 |
| 0.00083    |         |         |         |         |         |         |         |         |
| 3744566.80 | 0.00019 | 0.00024 | 0.00028 | 0.00034 | 0.00041 | 0.00049 | 0.00055 | 0.00061 |
| 0.00064    |         |         |         |         |         |         |         |         |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 20

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,  
A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

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

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

| Y-COORD   | X-COORD (METERS) |           |           |           |           |           |           |  |
|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| (METERS)  | 475928.31        | 476028.31 | 476128.31 | 476228.31 | 476328.31 | 476428.31 | 476528.31 |  |
| 476628.31 | 476728.31        |           |           |           |           |           |           |  |

|            |         |         |         |         |         |         |         |         |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 3747066.80 | 0.00042 | 0.00031 | 0.00025 | 0.00022 | 0.00020 | 0.00018 | 0.00017 | 0.00016 |
| 0.00014    |         |         |         |         |         |         |         |         |
| 3746966.80 | 0.00116 | 0.00035 | 0.00027 | 0.00024 | 0.00021 | 0.00020 | 0.00018 | 0.00016 |
| 0.00015    |         |         |         |         |         |         |         |         |
| 3746866.80 | 0.00055 | 0.00040 | 0.00030 | 0.00026 | 0.00023 | 0.00021 | 0.00019 | 0.00017 |
| 0.00016    |         |         |         |         |         |         |         |         |
| 3746766.80 | 0.00050 | 0.00041 | 0.00033 | 0.00028 | 0.00025 | 0.00022 | 0.00020 | 0.00018 |
| 0.00016    |         |         |         |         |         |         |         |         |

| DPM_RI_LINEAREA.ADO |         |         |         |         |         |         |         |         |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 3746666.80          | 0.00054 | 0.00044 | 0.00037 | 0.00031 | 0.00027 | 0.00024 | 0.00021 | 0.00019 |
| 0.00017             |         |         |         |         |         |         |         |         |
| 3746566.80          | 0.00063 | 0.00049 | 0.00041 | 0.00035 | 0.00030 | 0.00026 | 0.00023 | 0.00020 |
| 0.00018             |         |         |         |         |         |         |         |         |
| 3746466.80          | 0.00074 | 0.00056 | 0.00046 | 0.00039 | 0.00033 | 0.00028 | 0.00025 | 0.00022 |
| 0.00019             |         |         |         |         |         |         |         |         |
| 3746366.80          | 0.00088 | 0.00067 | 0.00054 | 0.00044 | 0.00036 | 0.00031 | 0.00026 | 0.00023 |
| 0.00020             |         |         |         |         |         |         |         |         |
| 3746266.80          | 0.00106 | 0.00080 | 0.00063 | 0.00050 | 0.00041 | 0.00033 | 0.00028 | 0.00024 |
| 0.00021             |         |         |         |         |         |         |         |         |
| 3746166.80          | 0.00130 | 0.00097 | 0.00074 | 0.00057 | 0.00045 | 0.00036 | 0.00030 | 0.00026 |
| 0.00022             |         |         |         |         |         |         |         |         |
| 3746066.80          | 0.00163 | 0.00117 | 0.00086 | 0.00064 | 0.00050 | 0.00039 | 0.00032 | 0.00027 |
| 0.00023             |         |         |         |         |         |         |         |         |
| 3745966.80          | 0.00212 | 0.00139 | 0.00097 | 0.00071 | 0.00054 | 0.00042 | 0.00034 | 0.00028 |
| 0.00024             |         |         |         |         |         |         |         |         |
| 3745866.80          | 0.00411 | 0.00159 | 0.00108 | 0.00078 | 0.00058 | 0.00045 | 0.00036 | 0.00029 |
| 0.00025             |         |         |         |         |         |         |         |         |
| 3745766.80          | 0.00305 | 0.00181 | 0.00122 | 0.00085 | 0.00062 | 0.00047 | 0.00037 | 0.00030 |
| 0.00025             |         |         |         |         |         |         |         |         |
| 3745666.80          | 0.00309 | 0.00262 | 0.00145 | 0.00091 | 0.00064 | 0.00048 | 0.00038 | 0.00031 |
| 0.00026             |         |         |         |         |         |         |         |         |
| 3745566.80          | 0.00271 | 0.00188 | 0.00279 | 0.00103 | 0.00067 | 0.00050 | 0.00039 | 0.00032 |
| 0.00027             |         |         |         |         |         |         |         |         |
| 3745466.80          | 0.00276 | 0.00183 | 0.00155 | 0.00146 | 0.00073 | 0.00052 | 0.00040 | 0.00033 |
| 0.00027             |         |         |         |         |         |         |         |         |
| 3745366.80          | 0.00308 | 0.00190 | 0.00148 | 0.00214 | 0.00080 | 0.00056 | 0.00042 | 0.00034 |
| 0.00028             |         |         |         |         |         |         |         |         |
| 3745266.80          | 0.00325 | 0.00203 | 0.00152 | 0.00227 | 0.00084 | 0.00058 | 0.00044 | 0.00035 |
| 0.00029             |         |         |         |         |         |         |         |         |
| 3745166.80          | 0.00295 | 0.00206 | 0.00155 | 0.00237 | 0.00087 | 0.00060 | 0.00046 | 0.00037 |
| 0.00030             |         |         |         |         |         |         |         |         |
| 3745066.80          | 0.00245 | 0.00190 | 0.00151 | 0.00241 | 0.00088 | 0.00063 | 0.00049 | 0.00040 |
| 0.00032             |         |         |         |         |         |         |         |         |
| 3744966.80          | 0.00191 | 0.00160 | 0.00138 | 0.00243 | 0.00088 | 0.00065 | 0.00054 | 0.00045 |
| 0.00035             |         |         |         |         |         |         |         |         |
| 3744866.80          | 0.00144 | 0.00129 | 0.00118 | 0.00240 | 0.00087 | 0.00070 | 0.00066 | 0.00070 |
| 0.00045             |         |         |         |         |         |         |         |         |
| 3744766.80          | 0.00108 | 0.00101 | 0.00096 | 0.00249 | 0.00091 | 0.00090 | 0.00165 | 0.00073 |
| 0.00042             |         |         |         |         |         |         |         |         |
| 3744666.80          | 0.00083 | 0.00080 | 0.00076 | 0.00098 | 0.00136 | 0.00112 | 0.00059 | 0.00045 |
| 0.00035             |         |         |         |         |         |         |         |         |
| 3744566.80          | 0.00065 | 0.00064 | 0.00062 | 0.00064 | 0.00076 | 0.00063 | 0.00048 | 0.00039 |
| 0.00032             |         |         |         |         |         |         |         |         |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 21

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: ALL \*\*\*

INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,  
A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

Page 23

DPM\_RI\_LINEAREA.ADO

\*\*\* 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    |
|-------------|-------------|---------|-------------|-------------|---------|
| 475582.07   | 3745571.80  | 0.00927 | 475635.03   | 3745571.37  | 0.00773 |
| 475635.68   | 3745590.96  | 0.00767 | 475677.33   | 3745570.30  | 0.01103 |
| 475674.83   | 3745600.77  | 0.00916 | 475675.67   | 3745642.32  | 0.00775 |
| 475634.39   | 3745620.72  | 0.00746 | 475616.66   | 3745641.21  | 0.00714 |
| 475772.62   | 3745574.73  | 0.00869 | 475633.01   | 3745671.96  | 0.00677 |
| 475676.50   | 3745663.10  | 0.00716 | 475586.47   | 3745596.62  | 0.00910 |
| 475585.92   | 3745619.33  | 0.00789 | 475579.82   | 3745648.42  | 0.00727 |
| 475572.62   | 3745671.96  | 0.00671 | 475534.39   | 3745578.33  | 0.01132 |
| 475520.27   | 3745639.00  | 0.00776 | 475434.39   | 3745594.68  | 0.00430 |
| 475428.30   | 3745632.90  | 0.00416 | 475380.66   | 3745623.49  | 0.00273 |
| 475377.89   | 3745470.30  | 0.00246 | 475365.42   | 3745385.82  | 0.00193 |
| 475423.04   | 3745339.00  | 0.00238 | 475480.93   | 3745332.35  | 0.00340 |
| 475424.47   | 3745298.14  | 0.00219 | 475427.54   | 3745260.18  | 0.00202 |
| 475486.97   | 3745297.37  | 0.00310 | 475482.75   | 3745252.52  | 0.00260 |
| 475570.93   | 3745333.03  | 0.00572 | 475605.05   | 3745334.95  | 0.00626 |
| 475649.91   | 3745327.66  | 0.00612 | 475682.50   | 3745321.53  | 0.00597 |
| 475373.10   | 3745326.13  | 0.00175 | 475311.37   | 3745381.72  | 0.00143 |
| 475371.85   | 3745581.26  | 0.00239 | 475732.59   | 3745583.35  | 0.01066 |
| 475773.41   | 3745665.62  | 0.00628 |             |             |         |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 22

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,  
A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

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

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

| Y-COORD            | X-COORD (METERS)   |                    |                    |                    |           |
|--------------------|--------------------|--------------------|--------------------|--------------------|-----------|
| (METERS)           | 475028.31          | 475128.31          | 475228.31          | 475328.31          | 475428.31 |
| 3747066.8          | 0.00300 (15081722) | 0.00280 (16072206) | 0.00236 (16080506) | 0.00221 (16110107) |           |
| 0.00217 (15042606) |                    |                    |                    |                    |           |
| 3746966.8          | 0.00329 (10071501) | 0.00303 (16080422) | 0.00258 (16080506) | 0.00251 (15080806) |           |
| 0.00241 (16051406) |                    |                    |                    |                    |           |
| 3746866.8          | 0.00356 (10071501) | 0.00333 (15080121) | 0.00308 (16080506) | 0.00283 (15080806) |           |
| 0.00267 (11050506) |                    |                    |                    |                    |           |
| 3746766.8          | 0.00397 (16072422) | 0.00376 (15081722) | 0.00343 (16072206) | 0.00301 (10050423) |           |

DPM\_R!\_LINEAREA.ADO

|                                |                    |                    |                    |  |
|--------------------------------|--------------------|--------------------|--------------------|--|
| 0.00305 (11050506)             |                    |                    |                    |  |
| 3746666.8   0.00441 (15100922) | 0.00426 (10071501) | 0.00405 (16080422) | 0.00374 (15081603) |  |
| 0.00354 (11050506)             |                    |                    |                    |  |
| 3746566.8   0.00507 (11090702) | 0.00512 (16072422) | 0.00494 (15080121) | 0.00471 (15081603) |  |
| 0.00430 (16101907)             |                    |                    |                    |  |
| 3746466.8   0.00597 (16091820) | 0.00621 (15100922) | 0.00629 (15081722) | 0.00624 (16080506) |  |
| 0.00580 (15081603)             |                    |                    |                    |  |
| 3746366.8   0.00718 (16062923) | 0.00776 (16073121) | 0.00823 (10071501) | 0.00837 (14073122) |  |
| 0.00795 (15081603)             |                    |                    |                    |  |
| 3746266.8   0.00879 (15101120) | 0.00989 (16091820) | 0.01074 (11070801) | 0.01136 (14073122) |  |
| 0.01070 (15081603)             |                    |                    |                    |  |
| 3746166.8   0.01087 (10082424) | 0.01254 (14072502) | 0.01383 (14090804) | 0.01513 (16080422) |  |
| 0.01476 (15081603)             |                    |                    |                    |  |
| 3746066.8   0.01333 (14050420) | 0.01546 (14090620) | 0.01770 (16091820) | 0.01971 (14070921) |  |
| 0.01957 (15081603)             |                    |                    |                    |  |
| 3745966.8   0.01563 (16082520) | 0.01895 (14050420) | 0.02159 (14072502) | 0.02451 (11070801) |  |
| 0.02538 (15081603)             |                    |                    |                    |  |
| 3745866.8   0.01798 (11082920) | 0.02191 (11082705) | 0.02531 (14090723) | 0.02791 (11083019) |  |
| 0.03051 (14073122)             |                    |                    |                    |  |
| 3745766.8   0.02084 (15091920) | 0.02458 (16080622) | 0.02861 (15062220) | 0.02951 (14070421) |  |
| 0.03419 (10071501)             |                    |                    |                    |  |
| 3745666.8   0.02132 (14062220) | 0.02618 (11090521) | 0.03125 (15091920) | 0.03080 (15101320) |  |
| 0.03409 (16062923)             |                    |                    |                    |  |
| 3745566.8   0.02010 (16102119) | 0.02553 (10051320) | 0.02986 (14071420) | 0.03097 (14062220) |  |
| 0.03177 (15091920)             |                    |                    |                    |  |
| 3745466.8   0.02049 (11080723) | 0.02577 (11080723) | 0.03019 (15071721) | 0.03039 (15062421) |  |
| 0.03178 (15101321)             |                    |                    |                    |  |
| 3745366.8   0.01915 (14090720) | 0.02274 (14090720) | 0.02548 (16072820) | 0.02221 (11092805) |  |
| 0.02776 (11092122)             |                    |                    |                    |  |
| 3745266.8   0.01756 (16072820) | 0.02054 (14102419) | 0.02233 (10092621) | 0.02381 (11062101) |  |
| 0.02770 (10083120)             |                    |                    |                    |  |
| 3745166.8   0.01499 (14091624) | 0.01809 (10092621) | 0.01983 (16071822) | 0.02223 (11081821) |  |
| 0.02728 (14080803)             |                    |                    |                    |  |
| 3745066.8   0.01294 (10092621) | 0.01522 (15080306) | 0.01760 (11100120) | 0.02015 (14073121) |  |
| 0.02304 (15090903)             |                    |                    |                    |  |
| 3744966.8   0.01101 (15080306) | 0.01284 (15090824) | 0.01445 (11081821) | 0.01639 (10083120) |  |
| 0.01824 (16062823)             |                    |                    |                    |  |
| 3744866.8   0.00946 (15090824) | 0.01075 (11100120) | 0.01198 (11092122) | 0.01298 (16062622) |  |
| 0.01417 (16062823)             |                    |                    |                    |  |
| 3744766.8   0.00786 (11101221) | 0.00883 (16082102) | 0.00974 (11092122) | 0.01041 (14051521) |  |
| 0.01088 (16062823)             |                    |                    |                    |  |
| 3744666.8   0.00670 (11100120) | 0.00749 (11081821) | 0.00801 (16073002) | 0.00844 (14051521) |  |
| 0.00854 (16062823)             |                    |                    |                    |  |
| 3744566.8   0.00580 (11081821) | 0.00637 (15081820) | 0.00672 (16073002) | 0.00700 (14051521) |  |
| 0.00691 (16092524)             |                    |                    |                    |  |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,

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

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

| Y-COORD  <br>(METERS) | 475528.31          | 475628.31          | 475728.31          | 475828.31          | 475928.31 |
|-----------------------|--------------------|--------------------|--------------------|--------------------|-----------|
| -----                 |                    |                    |                    |                    |           |
| 3747066.8             | 0.00240 (14080606) | 0.00318 (14092007) | 0.00339 (16102207) | 0.00321 (15102407) |           |
| 0.00307 (14102307)    |                    |                    |                    |                    |           |
| 3746966.8             | 0.00245 (14080606) | 0.00575 (15021508) | 0.00528 (16092807) | 0.00517 (16100107) |           |
| 0.00491 (10021508)    |                    |                    |                    |                    |           |
| 3746866.8             | 0.00258 (10032507) | 0.00514 (16062006) | 0.00357 (15102407) | 0.00324 (14011408) |           |
| 0.00297 (16050606)    |                    |                    |                    |                    |           |
| 3746766.8             | 0.00298 (10032507) | 0.00304 (16062906) | 0.00508 (15071806) | 0.00387 (14102307) |           |
| 0.00334 (10102901)    |                    |                    |                    |                    |           |
| 3746666.8             | 0.00346 (14080606) | 0.00332 (15102407) | 0.00370 (15102407) | 0.00506 (14102307) |           |
| 0.00395 (16011008)    |                    |                    |                    |                    |           |
| 3746566.8             | 0.00416 (14080606) | 0.00419 (15102407) | 0.00444 (15102407) | 0.00878 (10021508) |           |
| 0.00474 (10080406)    |                    |                    |                    |                    |           |
| 3746466.8             | 0.00550 (10071604) | 0.00562 (10082704) | 0.00566 (16110321) | 0.00972 (10021508) |           |
| 0.00596 (10080406)    |                    |                    |                    |                    |           |
| 3746366.8             | 0.00731 (15082519) | 0.00782 (15090922) | 0.00739 (10082704) | 0.01191 (10081923) |           |
| 0.00854 (16062723)    |                    |                    |                    |                    |           |
| 3746266.8             | 0.01021 (15082519) | 0.01089 (14050222) | 0.01105 (16062723) | 0.01516 (10081923) |           |
| 0.01173 (10092801)    |                    |                    |                    |                    |           |
| 3746166.8             | 0.01408 (15082519) | 0.01478 (10081923) | 0.01542 (10092801) | 0.01916 (11070823) |           |
| 0.01593 (16062005)    |                    |                    |                    |                    |           |
| 3746066.8             | 0.01943 (15082519) | 0.02014 (11070823) | 0.02050 (15090921) | 0.02396 (16062723) |           |
| 0.02127 (16021618)    |                    |                    |                    |                    |           |
| 3745966.8             | 0.02532 (15082519) | 0.02582 (16062723) | 0.02666 (11070203) | 0.02903 (16062723) |           |
| 0.02923 (11070203)    |                    |                    |                    |                    |           |
| 3745866.8             | 0.03179 (15082519) | 0.03639 (16062723) | 0.03443 (11072602) | 0.03670 (16062005) |           |
| 0.03885 (14091504)    |                    |                    |                    |                    |           |
| 3745766.8             | 0.03701 (15082519) | 0.04250 (16021618) | 0.04102 (11090520) | 0.04997 (11070203) |           |
| 0.04293 (15062723)    |                    |                    |                    |                    |           |
| 3745666.8             | 0.04495 (15090922) | 0.05462 (10082503) | 0.04972 (15090922) | 0.06018 (11090520) |           |
| 0.05625 (14091123)    |                    |                    |                    |                    |           |
| 3745566.8             | 0.04324 (11101321) | 0.07021 (15062721) | 0.07495 (15052606) | 0.10068 (10090405) |           |
| 0.08182 (14100705)    |                    |                    |                    |                    |           |
| 3745466.8             | 0.07721 (15092022) | 0.07191 (10092622) | 0.08886 (11012217) | 0.09924 (11071624) |           |
| 0.08214 (11081421)    |                    |                    |                    |                    |           |
| 3745366.8             | 0.04806 (14060822) | 0.05576 (10082523) | 0.05107 (16082302) | 0.05793 (15082922) |           |
| 0.05450 (16083021)    |                    |                    |                    |                    |           |
| 3745266.8             | 0.03712 (14060822) | 0.04418 (15101221) | 0.04252 (11082522) | 0.04700 (11090624) |           |
| 0.04264 (11082724)    |                    |                    |                    |                    |           |
| 3745166.8             | 0.03155 (15092524) | 0.03780 (11082823) | 0.03595 (15091222) | 0.03707 (16093021) |           |
| 0.03527 (15092023)    |                    |                    |                    |                    |           |
| 3745066.8             | 0.02553 (15092524) | 0.02823 (16082302) | 0.02880 (11090624) | 0.02945 (16082302) |           |
| 0.02872 (16060321)    |                    |                    |                    |                    |           |
| 3744966.8             | 0.01965 (15092524) | 0.02108 (14082124) | 0.02172 (16061823) | 0.02101 (16082302) |           |
| 0.02087 (15101221)    |                    |                    |                    |                    |           |
| 3744866.8             | 0.01464 (15092524) | 0.01580 (15060724) | 0.01644 (11082823) | 0.01525 (11090624) |           |



DPM\_R!\_LINEAREA.ADO

0.01532 (16093021)  
 3744766.8 | 0.01086 (16073005) 0.01165 (16091923) 0.01186 (16082302) 0.01072 (14082124)  
 0.01111 (10081922)  
 3744666.8 | 0.00830 (16072924) 0.00841 (14060822) 0.00804 (15080206) 0.00786 (16093021)  
 0.00790 (15080206)  
 3744566.8 | 0.00656 (15092721) 0.00621 (14060822) 0.00587 (16091923) 0.00586 (15080206)  
 0.00572 (15080206)

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
 09/19/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE  
 GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
 IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
 IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,  
 A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

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

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

| Y-COORD  <br>(METERS)   | X-COORD (METERS) |           |           |           |
|---|------------------|-----------|-----------|-----------|
| 476028.31   | 476128.31        | 476228.31 | 476328.31 | 476428.31 |
| 3747066.8   0.00259 (16011008) 0.00221 (10080406) 0.00209 (10050806) 0.00199 (15042706) |                  |           |           |           |
| 0.00190 (15013108)  |                  |           |           |           |
| 3746966.8   0.00287 (16060306) 0.00233 (15031707) 0.00223 (10050806) 0.00212 (10010808) |                  |           |           |           |
| 0.00202 (10050406)  |                  |           |           |           |
| 3746866.8   0.00275 (10080406) 0.00254 (10100607) 0.00240 (10010808) 0.00226 (15013108) |                  |           |           |           |
| 0.00217 (10050406)  |                  |           |           |           |
| 3746766.8   0.00306 (10080406) 0.00282 (10050806) 0.00264 (10010808) 0.00248 (10050406) |                  |           |           |           |
| 0.00234 (16011908)  |                  |           |           |           |
| 3746666.8   0.00352 (16011008) 0.00320 (10010808) 0.00301 (10010808) 0.00276 (10081806) |                  |           |           |           |
| 0.00255 (16011908)  |                  |           |           |           |
| 3746566.8   0.00431 (10080406) 0.00385 (10010808) 0.00356 (14120721) 0.00319 (10050406) |                  |           |           |           |
| 0.00288 (16120608)  |                  |           |           |           |
| 3746466.8   0.00551 (15101223) 0.00508 (11070203) 0.00448 (10081806) 0.00382 (16102801) |                  |           |           |           |
| 0.00337 (10120920)  |                  |           |           |           |
| 3746366.8   0.00739 (16021618) 0.00681 (11080903) 0.00574 (14091504) 0.00494 (11070702) |                  |           |           |           |
| 0.00410 (14020708)  |                  |           |           |           |
| 3746266.8   0.01044 (11070203) 0.00930 (10081806) 0.00794 (10082503) 0.00641 (10110320) |                  |           |           |           |
| 0.00511 (15102519)  |                  |           |           |           |
| 3746166.8   0.01467 (11080903) 0.01246 (10082705) 0.01059 (11090520) 0.00836 (15082924) |                  |           |           |           |
| 0.00659 (10090323)  |                  |           |           |           |
| 3746066.8   0.01958 (10081806) 0.01706 (11081824) 0.01387 (15082924) 0.01085 (16110907) |                  |           |           |           |
| 0.00836 (16100504)  |                  |           |           |           |
| 3745966.8   0.02617 (10082503) 0.02175 (15082924) 0.01768 (10090323) 0.01418 (15101019) |                  |           |           |           |
| 0.01016 (10011721)  |                  |           |           |           |
| 3745866.8   0.03208 (15082924) 0.02718 (11080422) 0.02264 (10080401) 0.01733 (16051701) |                  |           |           |           |
| 0.01273 (15090104)  |                  |           |           |           |
| 3745766.8   0.03949 (15070104) 0.03514 (16110520) 0.02782 (15090104) 0.02043 (11083022) |                  |           |           |           |

DPM\_R!\_LINEAREA.ADO

|                                |                    |                    |                    |  |
|--------------------------------|--------------------|--------------------|--------------------|--|
| 0.01426 (14110821)             |                    |                    |                    |  |
| 3745666.8   0.05342 (11083022) | 0.04496 (10082602) | 0.03352 (10071603) | 0.02223 (10071603) |  |
| 0.01481 (10081501)             |                    |                    |                    |  |
| 3745566.8   0.06490 (10100120) | 0.05072 (10110421) | 0.03569 (11090606) | 0.02397 (11090606) |  |
| 0.01547 (11090606)             |                    |                    |                    |  |
| 3745466.8   0.06486 (16082921) | 0.04863 (16100923) | 0.03665 (11090502) | 0.02403 (11090502) |  |
| 0.01532 (11090502)             |                    |                    |                    |  |
| 3745366.8   0.05149 (14090622) | 0.04244 (14051522) | 0.03454 (16041723) | 0.02228 (15120919) |  |
| 0.01486 (11081421)             |                    |                    |                    |  |
| 3745266.8   0.03875 (11081321) | 0.03446 (10071805) | 0.02963 (10092622) | 0.02053 (14090622) |  |
| 0.01432 (14051522)             |                    |                    |                    |  |
| 3745166.8   0.03161 (10071704) | 0.02709 (16062003) | 0.02480 (11070301) | 0.01752 (10071805) |  |
| 0.01255 (16092605)             |                    |                    |                    |  |
| 3745066.8   0.02577 (16072724) | 0.02159 (11081722) | 0.02023 (14072624) | 0.01402 (11081321) |  |
| 0.01030 (11080301)             |                    |                    |                    |  |
| 3744966.8   0.01937 (10082524) | 0.01667 (16081401) | 0.01629 (11081722) | 0.01116 (14072624) |  |
| 0.00846 (10082024)             |                    |                    |                    |  |
| 3744866.8   0.01446 (16060321) | 0.01213 (16072724) | 0.01321 (11082522) | 0.00876 (11090723) |  |
| 0.00665 (10062402)             |                    |                    |                    |  |
| 3744766.8   0.01026 (11090624) | 0.00891 (10082524) | 0.01065 (16072724) | 0.00690 (10081802) |  |
| 0.00537 (11081524)             |                    |                    |                    |  |
| 3744666.8   0.00704 (16071324) | 0.00654 (16062623) | 0.00617 (15080502) | 0.00598 (14092523) |  |
| 0.00631 (14091024)             |                    |                    |                    |  |
| 3744566.8   0.00517 (14082020) | 0.00487 (11090901) | 0.00448 (16030320) | 0.00494 (11081605) |  |
| 0.00465 (11101822)             |                    |                    |                    |  |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 25

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,  
A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

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

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

| Y-COORD  | X-COORD (METERS) |           |           |
|----------|------------------|-----------|-----------|
| (METERS) | 476528.31        | 476628.31 | 476728.31 |

|                                |                    |                    |  |
|--------------------------------|--------------------|--------------------|--|
| 3747066.8   0.00184 (10050406) | 0.00176 (16011908) | 0.00168 (16120608) |  |
| 3746966.8   0.00194 (16011908) | 0.00184 (11010608) | 0.00177 (16120608) |  |
| 3746866.8   0.00206 (16011908) | 0.00196 (16120608) | 0.00186 (14020608) |  |
| 3746766.8   0.00220 (16120608) | 0.00207 (14020608) | 0.00196 (16071206) |  |
| 3746666.8   0.00238 (16120608) | 0.00221 (14020608) | 0.00208 (14020708) |  |
| 3746566.8   0.00264 (14020608) | 0.00242 (14020708) | 0.00223 (10011708) |  |
| 3746466.8   0.00301 (14020708) | 0.00267 (10011708) | 0.00241 (10011108) |  |
| 3746366.8   0.00350 (10011708) | 0.00300 (10011108) | 0.00264 (10122108) |  |
| 3746266.8   0.00413 (10083101) | 0.00345 (10122108) | 0.00289 (11041705) |  |

Page 28

DPM\_RI\_LINEAREA.ADO

|           |                    |                    |                    |
|-----------|--------------------|--------------------|--------------------|
| 3746166.8 | 0.00512 (11080422) | 0.00392 (11072023) | 0.00317 (16011208) |
| 3746066.8 | 0.00608 (10080401) | 0.00459 (10011721) | 0.00358 (11091703) |
| 3745966.8 | 0.00743 (16051701) | 0.00537 (15090104) | 0.00386 (15090104) |
| 3745866.8 | 0.00836 (16040121) | 0.00584 (11092224) | 0.00429 (11102007) |
| 3745766.8 | 0.00973 (15101501) | 0.00664 (10071603) | 0.00456 (15010908) |
| 3745666.8 | 0.00972 (14100705) | 0.00646 (11060804) | 0.00455 (10072522) |
| 3745566.8 | 0.00985 (11090606) | 0.00642 (11090606) | 0.00444 (16102621) |
| 3745466.8 | 0.00959 (11090502) | 0.00621 (11090502) | 0.00424 (16102324) |
| 3745366.8 | 0.00968 (15092922) | 0.00645 (16101704) | 0.00455 (16111023) |
| 3745266.8 | 0.00968 (16081922) | 0.00653 (16041723) | 0.00436 (16041723) |
| 3745166.8 | 0.00838 (10071424) | 0.00587 (16100921) | 0.00433 (14101507) |
| 3745066.8 | 0.00746 (11082605) | 0.00542 (16092605) | 0.00388 (10080504) |
| 3744966.8 | 0.00618 (10080206) | 0.00464 (10100922) | 0.00364 (10052002) |
| 3744866.8 | 0.00517 (15101807) | 0.00399 (14032518) | 0.00341 (15101507) |
| 3744766.8 | 0.00609 (15101507) | 0.00498 (15101807) | 0.00388 (15032007) |
| 3744666.8 | 0.00446 (16103107) | 0.00373 (11102907) | 0.00323 (10072806) |
| 3744566.8 | 0.00379 (10121608) | 0.00325 (16103107) | 0.00291 (11102907) |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - LIne Area \*\*\*

09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 26

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: ALL

INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
 IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
 IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,  
 A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

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

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

| X-COORD (M)<br>CONC (YYMMDDHH) | Y-COORD (M) | CONC (YYMMDDHH)    | X-COORD (M) | Y-COORD (M) | CONC (YYMMDDHH) |
|--------------------------------|-------------|--------------------|-------------|-------------|-----------------|
| 475582.07<br>(15062721)        | 3745571.80  | 0.07099 (14082822) | 475635.03   | 3745571.37  | 0.06556         |
| 475635.68<br>(16062921)        | 3745590.96  | 0.06370 (15101019) | 475677.33   | 3745570.30  | 0.05923         |
| 475674.83<br>(10090323)        | 3745600.77  | 0.05546 (16110520) | 475675.67   | 3745642.32  | 0.05144         |
| 475634.39<br>(11090520)        | 3745620.72  | 0.05921 (10082422) | 475616.66   | 3745641.21  | 0.05833         |
| 475772.62<br>(10082503)        | 3745574.73  | 0.10063 (16070106) | 475633.01   | 3745671.96  | 0.05365         |
| 475676.50<br>(11090520)        | 3745663.10  | 0.05056 (10082422) | 475586.47   | 3745596.62  | 0.08535         |
| 475585.92<br>(11070203)        | 3745619.33  | 0.06345 (10082503) | 475579.82   | 3745648.42  | 0.05873         |
| 475572.62<br>(15100921)        | 3745671.96  | 0.05255 (15082804) | 475534.39   | 3745578.33  | 0.06897         |
| 475520.27<br>(14050420)        | 3745639.00  | 0.04666 (15101121) | 475434.39   | 3745594.68  | 0.03199         |

DPM\_RI\_LINEAREA.ADO

|            |            |         |            |           |            |         |
|------------|------------|---------|------------|-----------|------------|---------|
| 475428.30  | 3745632.90 | 0.03192 | (15082720) | 475380.66 | 3745623.49 | 0.03074 |
| (15101320) |            |         |            |           |            |         |
| 475377.89  | 3745470.30 | 0.03074 | (15062421) | 475365.42 | 3745385.82 | 0.02227 |
| (15070120) |            |         |            |           |            |         |
| 475423.04  | 3745339.00 | 0.02860 | (11092122) | 475480.93 | 3745332.35 | 0.03430 |
| (15090903) |            |         |            |           |            |         |
| 475424.47  | 3745298.14 | 0.02895 | (14073121) | 475427.54 | 3745260.18 | 0.02753 |
| (10083120) |            |         |            |           |            |         |
| 475486.97  | 3745297.37 | 0.03433 | (15081422) | 475482.75 | 3745252.52 | 0.03234 |
| (15081422) |            |         |            |           |            |         |
| 475570.93  | 3745333.03 | 0.05198 | (16082302) | 475605.05 | 3745334.95 | 0.05299 |
| (11090624) |            |         |            |           |            |         |
| 475649.91  | 3745327.66 | 0.04976 | (11082721) | 475682.50 | 3745321.53 | 0.04799 |
| (16081401) |            |         |            |           |            |         |
| 475373.10  | 3745326.13 | 0.02523 | (11062101) | 475311.37 | 3745381.72 | 0.02403 |
| (16072820) |            |         |            |           |            |         |
| 475371.85  | 3745581.26 | 0.03112 | (15070102) | 475732.59 | 3745583.35 | 0.07632 |
| (10082705) |            |         |            |           |            |         |
| 475773.41  | 3745665.62 | 0.05927 | (11070203) |           |            |         |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

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

| GROUP ID | AVERAGE CONC          | NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE       |
|----------|-----------------------|--|
| GRID-ID  |                       |  |
| ALL      | 1ST HIGHEST VALUE IS  | 0.01614 AT ( 475728.31, 3745466.80, 469.60, 469.60, 0.00) GC |
| UCART1   | 2ND HIGHEST VALUE IS  | 0.01467 AT ( 475528.31, 3745466.80, 474.60, 474.60, 0.00) GC |
| UCART1   | 3RD HIGHEST VALUE IS  | 0.01132 AT ( 475534.39, 3745578.33, 474.18, 474.18, 0.00) DC |
|          | 4TH HIGHEST VALUE IS  | 0.01103 AT ( 475677.33, 3745570.30, 470.42, 470.42, 0.00) DC |
|          | 5TH HIGHEST VALUE IS  | 0.01098 AT ( 475728.31, 3745566.80, 469.00, 469.00, 0.00) GC |
| UCART1   | 6TH HIGHEST VALUE IS  | 0.01066 AT ( 475732.59, 3745583.35, 468.90, 468.90, 0.00) DC |
|          | 7TH HIGHEST VALUE IS  | 0.01033 AT ( 475528.31, 3745566.80, 474.40, 474.40, 0.00) GC |
| UCART1   | 8TH HIGHEST VALUE IS  | 0.00988 AT ( 475628.31, 3745466.80, 471.70, 471.70, 0.00) GC |
| UCART1   | 9TH HIGHEST VALUE IS  | 0.00927 AT ( 475582.07, 3745571.80, 472.94, 472.94, 0.00) DC |
|          | 10TH HIGHEST VALUE IS | 0.00916 AT ( 475674.83, 3745600.77, 470.09, 470.09, 0.00) DC |

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

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 28

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

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

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

ALL HIGH 1ST HIGH VALUE IS 0.10068 ON 10090405: AT ( 475828.31, 3745566.80, 466.60, 466.60, 0.00) GC UCART1

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

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Line Area \*\*\*  
09/19/21

\*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 1 \*\*\* 13:22:09

PAGE 29

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

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

- A Total of 0 Fatal Error Message(s)
- A Total of 20 Warning Message(s)
- A Total of 2028 Informational Message(s)
- A Total of 43824 Hours Were Processed
- A Total of 978 Calm Hours Identified
- A Total of 1050 Missing Hours Identified ( 2.40 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

- SO W320 204 PPARAM: Input Parameter May Be Out-of-Range for Parameter VS
- SO W320 205 PPARAM: Input Parameter May Be Out-of-Range for Parameter VS
- SO W320 206 PPARAM: Input Parameter May Be Out-of-Range for Parameter VS
- SO W320 207 PPARAM: Input Parameter May Be Out-of-Range for Parameter VS
- SO W320 208 PPARAM: Input Parameter May Be Out-of-Range for Parameter VS
- SO W320 209 PPARAM: Input Parameter May Be Out-of-Range for Parameter VS

DPM\_R!\_LINEAREA.ADO

|         |       |   |            |
|---------|-------|---|------------|
| SO W320 | 210   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 211   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 212   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 213   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 214   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 215   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 216   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 217   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 218   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 219   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| ME W186 | 928   | MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used  | 0.50       |
| ME W187 | 928   | MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET |            |
| MX W450 | 17521 | CHKDAT: Record Out of Sequence in Meteorological File at: | 14010101   |
| MX W450 | 17521 | CHKDAT: Record Out of Sequence in Meteorological File at: | 2 year gap |

\*\*\*\*\*

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

\*\*\*\*\*

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
\*\*\* 09/18/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 1

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

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

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

\*\*Model Uses NO DRY DEPLETION. DRYDPLT = F

\*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 57 Source(s),  
for Total of 1 Urban Area(s):

Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m

\*\*Model Uses Regulatory DEFAULT Options:

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

\*\*Other Options Specified:

ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET

CCVR\_Sub - Meteorological data includes CCVR substitutions

TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: DPM

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

\*\*This Run Includes: 57 Source(s); 1 Source Group(s); and 505 Receptor(s)

with: 18 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 0 VOLUME source(s)  
and: 39 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

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

Seaton\_DPM\_R2\_Linearea.ADO

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

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

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

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 450.00 ; 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 = 3.7 MB of RAM.

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

\*\*Detailed Error/Message File: Seaton\_DPM\_R2\_Linearea.err

\*\*File for Summary of Results: Seaton\_DPM\_R2\_Linearea.sum

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 2

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* POINT SOURCE DATA \*\*\*

| URBAN   | CAP/  | NUMBER | EMISSION | RATE        | BASE     | STACK    | STACK    | STACK   | STACK   | STACK    | BLDG |          |        |
|---------|-------|--------|----------|-------------|----------|----------|----------|---------|---------|----------|------|----------|--------|
| SOURCE  | PART. | SOURCE | PART.    | (GRAMS/SEC) | X        | Y        | ELEV.    | HEIGHT  | TEMP.   | EXIT     | VEL. | DIAMETER | EXISTS |
| SOURCE  | HOR   | SCALAR |          | (METERS)    | (METERS) | (METERS) | (METERS) | (DEG.K) | (M/SEC) | (METERS) |      |          |        |
| ID      | CATS. |        |          |             |          |          |          |         |         |          |      |          |        |
| VARY BY |       |        |          |             |          |          |          |         |         |          |      |          |        |

|      |   |             |          |           |       |      |        |       |      |     |     |    |  |
|------|---|-------------|----------|-----------|-------|------|--------|-------|------|-----|-----|----|--|
| IB22 | 0 | 0.96100E-05 | 475510.2 | 3745540.5 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |  |
| IB23 | 0 | 0.96100E-05 | 475510.1 | 3745534.4 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |  |
| IB24 | 0 | 0.96100E-05 | 475510.3 | 3745523.4 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |  |
| IB25 | 0 | 0.96100E-05 | 475510.2 | 3745517.2 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |  |
| IB26 | 0 | 0.96100E-05 | 475510.4 | 3745511.4 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |  |
| IB27 | 0 | 0.96100E-05 | 475510.3 | 3745505.3 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |  |
| IB28 | 0 | 0.96100E-05 | 475510.1 | 3745500.1 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |  |



Seaton\_DPM\_R2\_Linearea.ADO

|      |   |             |          |           |       |      |        |       |      |     |     |    |
|------|---|-------------|----------|-----------|-------|------|--------|-------|------|-----|-----|----|
| IB21 | 0 | 0.96100E-05 | 475510.2 | 3745546.1 | 475.0 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB11 | 0 | 0.96100E-05 | 475696.4 | 3745545.5 | 469.8 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB12 | 0 | 0.96100E-05 | 475696.4 | 3745540.0 | 469.8 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB13 | 0 | 0.96100E-05 | 475696.3 | 3745533.9 | 469.8 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB14 | 0 | 0.96100E-05 | 475696.5 | 3745522.8 | 469.8 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB15 | 0 | 0.96100E-05 | 475696.4 | 3745516.7 | 469.8 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB16 | 0 | 0.96100E-05 | 475696.6 | 3745510.9 | 469.6 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB17 | 0 | 0.96100E-05 | 475696.5 | 3745504.8 | 469.5 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| IB18 | 0 | 0.96100E-05 | 475696.3 | 3745499.6 | 469.4 | 3.66 | 366.48 | 51.70 | 0.10 | YES | YES | NO |
| FP2  | 0 | 0.41300E-04 | 475424.0 | 3745479.0 | 478.9 | 5.50 | 847.00 | 40.41 | 0.15 | NO  | YES | NO |
| FP1  | 0 | 0.41300E-04 | 475606.7 | 3745492.2 | 471.8 | 5.50 | 847.00 | 40.41 | 0.15 | YES | YES | NO |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 3

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* AREA SOURCE DATA \*\*\*

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

|          |   |             |          |           |       |      |       |      |         |      |     |
|----------|---|-------------|----------|-----------|-------|------|-------|------|---------|------|-----|
| A0000001 | 0 | 0.26186E-08 | 475797.6 | 3745491.4 | 468.8 | 3.11 | 13.44 | 9.90 | -173.99 | 2.89 | YES |
| A0000002 | 0 | 0.26186E-08 | 475783.7 | 3745492.8 | 468.8 | 3.11 | 57.00 | 9.90 | 179.29  | 2.89 | YES |
| A0000003 | 0 | 0.26186E-08 | 475726.7 | 3745492.1 | 469.0 | 3.11 | 57.00 | 9.90 | 179.29  | 2.89 | YES |
| A0000004 | 0 | 0.26186E-08 | 475674.7 | 3745486.4 | 469.5 | 3.11 | 69.66 | 9.90 | -90.00  | 2.89 | YES |
| A0000005 | 0 | 0.26711E-08 | 475794.3 | 3745488.5 | 468.9 | 3.11 | 76.70 | 9.70 | 179.87  | 2.89 | YES |
| A0000006 | 0 | 0.26711E-08 | 475717.6 | 3745488.3 | 469.0 | 3.11 | 76.70 | 9.70 | 179.87  | 2.89 | YES |
| A0000007 | 0 | 0.26711E-08 | 475640.9 | 3745488.1 | 470.7 | 3.11 | 76.70 | 9.70 | 179.87  | 2.89 | YES |
| A0000008 | 0 | 0.26711E-08 | 475564.2 | 3745488.0 | 473.2 | 3.11 | 76.70 | 9.70 | 179.87  | 2.89 | YES |
| A0000009 | 0 | 0.26711E-08 | 475492.3 | 3745483.0 | 475.7 | 3.11 | 75.30 | 9.70 | -90.53  | 2.89 | YES |

Seaton\_DPM\_R2\_Linearea.ADO

|          |   |             |          |           |       |      |        |       |         |      |     |
|----------|---|-------------|----------|-----------|-------|------|--------|-------|---------|------|-----|
| A0000010 | 0 | 0.55568E-09 | 475804.6 | 3745488.4 | 468.9 | 3.11 | 120.53 | 15.00 | 90.00   | 2.89 | YES |
| A0000011 | 0 | 0.55568E-09 | 475812.1 | 3745360.4 | 469.0 | 3.11 | 146.58 | 15.00 | -0.20   | 2.89 | YES |
| A0000012 | 0 | 0.55568E-09 | 475958.7 | 3745360.9 | 466.8 | 3.11 | 146.58 | 15.00 | -0.20   | 2.89 | YES |
| A0000013 | 0 | 0.55568E-09 | 476105.4 | 3745361.4 | 463.2 | 3.11 | 112.87 | 15.00 | -1.39   | 2.89 | YES |
| A0000014 | 0 | 0.55568E-09 | 476210.6 | 3745371.7 | 462.0 | 3.11 | 140.62 | 15.00 | 90.15   | 2.89 | YES |
| A0000015 | 0 | 0.55568E-09 | 476210.2 | 3745231.0 | 463.0 | 3.11 | 140.62 | 15.00 | 90.15   | 2.89 | YES |
| A0000016 | 0 | 0.55568E-09 | 476209.8 | 3745090.4 | 463.7 | 3.11 | 140.62 | 15.00 | 90.15   | 2.89 | YES |
| A0000017 | 0 | 0.55568E-09 | 476209.5 | 3744949.8 | 464.0 | 3.11 | 140.62 | 15.00 | 90.15   | 2.89 | YES |
| A0000018 | 0 | 0.55568E-09 | 476209.4 | 3744807.1 | 464.0 | 3.11 | 66.92  | 15.00 | 74.05   | 2.89 | YES |
| A0000019 | 0 | 0.55568E-09 | 476228.3 | 3744741.3 | 464.0 | 3.11 | 67.57  | 15.00 | 62.31   | 2.89 | YES |
| A0000020 | 0 | 0.55568E-09 | 476261.4 | 3744679.3 | 464.0 | 3.11 | 120.67 | 15.00 | 41.39   | 2.89 | YES |
| A0000042 | 0 | 0.55568E-09 | 476362.9 | 3744600.7 | 463.0 | 3.11 | 125.35 | 15.00 | -53.53  | 2.89 | YES |
| A0000043 | 0 | 0.55568E-09 | 476435.5 | 3744699.7 | 461.2 | 3.11 | 104.52 | 15.00 | -32.65  | 2.89 | YES |
| A0000044 | 0 | 0.55568E-09 | 476522.1 | 3744755.4 | 460.0 | 3.11 | 112.75 | 15.00 | -21.08  | 2.89 | YES |
| A0000045 | 0 | 0.55568E-09 | 476627.3 | 3744795.9 | 458.0 | 3.11 | 112.75 | 15.00 | -21.08  | 2.89 | YES |
| A0000046 | 0 | 0.43637E-09 | 475823.2 | 3745496.7 | 468.2 | 3.11 | 124.97 | 21.00 | -89.60  | 2.89 | YES |
| A0000047 | 0 | 0.43637E-09 | 475824.1 | 3745621.7 | 466.5 | 3.11 | 124.97 | 21.00 | -89.60  | 2.89 | YES |
| A0000048 | 0 | 0.43637E-09 | 475818.4 | 3745737.0 | 466.7 | 3.11 | 100.27 | 21.00 | -21.99  | 2.89 | YES |
| A0000049 | 0 | 0.43637E-09 | 475914.6 | 3745776.6 | 465.0 | 3.11 | 52.06  | 21.00 | -42.85  | 2.89 | YES |
| A0000050 | 0 | 0.43637E-09 | 475954.4 | 3745825.5 | 464.2 | 3.11 | 123.35 | 21.00 | -123.39 | 2.89 | YES |
| A0000051 | 0 | 0.43637E-09 | 475887.0 | 3745927.5 | 465.4 | 3.11 | 129.47 | 21.00 | -117.21 | 2.89 | YES |
| A0000052 | 0 | 0.43637E-09 | 475829.0 | 3746037.8 | 466.0 | 3.11 | 182.85 | 21.00 | -90.03  | 2.89 | YES |
| A0000053 | 0 | 0.43637E-09 | 475828.9 | 3746220.7 | 467.0 | 3.11 | 182.85 | 21.00 | -90.03  | 2.89 | YES |
| A0000054 | 0 | 0.43637E-09 | 475828.8 | 3746403.5 | 466.0 | 3.11 | 182.85 | 21.00 | -90.03  | 2.89 | YES |
| A0000055 | 0 | 0.43637E-09 | 475828.3 | 3746589.5 | 465.4 | 3.11 | 75.05  | 21.00 | -107.59 | 2.89 | YES |
| A0000056 | 0 | 0.43637E-09 | 475803.1 | 3746665.2 | 465.2 | 3.11 | 105.95 | 21.00 | -134.35 | 2.89 | YES |
| A0000057 | 0 | 0.43637E-09 | 475729.3 | 3746740.6 | 466.6 | 3.11 | 87.36  | 21.00 | -131.79 | 2.89 | YES |
| A0000058 | 0 | 0.43637E-09 | 475673.6 | 3746800.7 | 467.5 | 3.11 | 151.25 | 21.00 | -100.57 | 2.89 | YES |

Seaton\_DPM\_R2\_Linearea.ADO

A0000059 0 0.43637E-09 475635.7 3746937.0 466.0 3.11 170.51 21.00 -0.84 2.89 YES  
 A0000060 0 0.43637E-09 475806.2 3746939.5 463.1 3.11 170.51 21.00 -0.84 2.89 YES

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 4

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

| SRCGROUP ID | SOURCE IDs  |
|-------------|---|
| -----       | -----   |
| ALL         | IB22 , IB23 , IB24 , IB25 , IB26 , IB27 , IB28 , IB21 ,<br>IB11 , IB12 , IB13 , IB14 , IB15 , IB16 , IB17 , IB18 ,<br>FP2 , FP1 , A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 ,<br>A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,<br>A0000014 ,<br>A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,<br>A0000043 ,<br>A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , A0000050 ,<br>A0000051 ,<br>A0000052 , A0000053 , A0000054 , A0000055 , A0000056 , A0000057 , A0000058 ,<br>A0000059 ,<br>A0000060 , |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 5

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

| URBAN ID | URBAN POP | SOURCE IDs   |
|----------|-----------|--|
| -----    | -----     | -----  |
| IB21     | 2189641.  | IB22 , IB23 , IB24 , IB25 , IB26 , IB27 , IB28 ,<br>IB11 , IB12 , IB13 , IB14 , IB15 , IB16 , IB17 , IB18 ,<br>FP2 , FP1 , A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , |

Seaton\_DPM\_R2\_Linearea.ADO

A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,  
A0000014 ,

A0000015 , A0000016 , A0000017 , A0000018 , A0000019 , A0000020 , A0000042 ,  
A0000043 ,

A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 , A0000050 ,  
A0000051 ,

A0000052 , A0000053 , A0000054 , A0000055 , A0000056 , A0000057 , A0000058 ,  
A0000059 ,

A0000060 ,

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations

\*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 2

\*\*\* 13:49:26

PAGE 6

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IB22

| IFV | BH   | BW   | BL   | XADJ  | YADJ  | IFV | BH   | BW   | BL   | XADJ  | YADJ  |
|-----|------|------|------|-------|-------|-----|------|------|------|-------|-------|
| 1   | 12.5 | 79.9 | 68.4 | -46.0 | -44.0 | 2   | 12.5 | 86.3 | 77.8 | -42.9 | -45.4 |
| 3   | 12.5 | 90.1 | 84.9 | -38.5 | -45.4 | 4   | 12.5 | 91.1 | 89.3 | -32.9 | -44.0 |
| 5   | 12.5 | 89.3 | 91.1 | -26.3 | -41.3 | 6   | 12.5 | 84.9 | 90.1 | -18.9 | -37.3 |
| 7   | 12.5 | 77.8 | 86.3 | -10.9 | -32.2 | 8   | 12.5 | 68.4 | 79.9 | -2.6  | -26.1 |
| 9   | 12.5 | 56.9 | 71.1 | 5.7   | -19.3 | 10  | 12.5 | 68.4 | 79.9 | 4.0   | -11.8 |
| 11  | 12.5 | 77.8 | 86.3 | 2.2   | -4.0  | 12  | 12.5 | 84.9 | 90.1 | 0.4   | 4.0   |
| 13  | 12.5 | 89.3 | 91.1 | -1.5  | 11.8  | 14  | 12.5 | 91.1 | 89.3 | -3.4  | 19.2  |
| 15  | 12.5 | 90.1 | 84.9 | -5.1  | 26.1  | 16  | 12.5 | 86.3 | 77.8 | -6.7  | 32.2  |
| 17  | 12.5 | 79.9 | 68.4 | -8.1  | 37.3  | 18  | 12.5 | 71.1 | 56.9 | -9.2  | 41.3  |
| 19  | 12.5 | 79.9 | 68.4 | -22.4 | 44.0  | 20  | 12.5 | 86.3 | 77.8 | -34.9 | 45.4  |
| 21  | 12.5 | 90.1 | 84.9 | -46.4 | 45.4  | 22  | 12.5 | 91.1 | 89.3 | -56.4 | 44.0  |
| 23  | 12.5 | 89.3 | 91.1 | -64.8 | 41.3  | 24  | 12.5 | 84.9 | 90.1 | -71.2 | 37.3  |
| 25  | 12.5 | 77.8 | 86.3 | -75.4 | 32.2  | 26  | 12.5 | 68.4 | 79.9 | -77.3 | 26.1  |
| 27  | 12.5 | 56.9 | 71.1 | -76.8 | 19.3  | 28  | 12.5 | 68.4 | 79.9 | -84.0 | 11.8  |
| 29  | 12.5 | 77.8 | 86.3 | -88.5 | 4.0   | 30  | 12.5 | 84.9 | 90.1 | -90.4 | -4.0  |
| 31  | 12.5 | 89.3 | 91.1 | -89.6 | -11.8 | 32  | 12.5 | 91.1 | 89.3 | -86.0 | -19.2 |
| 33  | 12.5 | 90.1 | 84.9 | -79.8 | -26.1 | 34  | 12.5 | 86.3 | 77.8 | -71.1 | -32.2 |
| 35  | 12.5 | 79.9 | 68.4 | -60.4 | -37.3 | 36  | 12.5 | 71.1 | 56.9 | -47.7 | -41.3 |

SOURCE ID: IB23

| IFV | BH   | BW   | BL   | XADJ  | YADJ  | IFV | BH   | BW   | BL   | XADJ  | YADJ  |
|-----|------|------|------|-------|-------|-----|------|------|------|-------|-------|
| 1   | 12.5 | 79.9 | 68.4 | -39.9 | -43.0 | 2   | 12.5 | 86.3 | 77.8 | -37.0 | -43.4 |
| 3   | 12.5 | 90.1 | 84.9 | -33.1 | -42.4 | 4   | 12.5 | 91.1 | 89.3 | -28.1 | -40.1 |
| 5   | 12.5 | 89.3 | 91.1 | -22.2 | -36.6 | 6   | 12.5 | 84.9 | 90.1 | -15.7 | -32.0 |
| 7   | 12.5 | 77.8 | 86.3 | -8.7  | -26.5 | 8   | 12.5 | 68.4 | 79.9 | -1.5  | -20.1 |
| 9   | 12.5 | 56.9 | 71.1 | 5.8   | -13.1 | 10  | 12.5 | 68.4 | 79.9 | 3.1   | -5.7  |
| 11  | 12.5 | 77.8 | 86.3 | 0.2   | 1.9   | 12  | 12.5 | 84.9 | 90.1 | -2.6  | 9.4   |
| 13  | 12.5 | 89.3 | 91.1 | -5.4  | 16.6  | 14  | 12.5 | 91.1 | 89.3 | -8.0  | 23.3  |
| 15  | 12.5 | 90.1 | 84.9 | -10.4 | 29.3  | 16  | 12.5 | 86.3 | 77.8 | -12.5 | 34.4  |
| 17  | 12.5 | 79.9 | 68.4 | -14.1 | 38.5  | 18  | 12.5 | 71.1 | 56.9 | -15.4 | 41.4  |

Seaton\_DPM\_R2\_Linearea.ADO

|    |       |       |       |        |        |    |       |       |       |        |        |
|----|-------|-------|-------|--------|--------|----|-------|-------|-------|--------|--------|
| 19 | 12.5, | 79.9, | 68.4, | -28.5, | 43.0,  | 20 | 12.5, | 86.3, | 77.8, | -40.8, | 43.4,  |
| 21 | 12.5, | 90.1, | 84.9, | -51.8, | 42.4,  | 22 | 12.5, | 91.1, | 89.3, | -61.3, | 40.1,  |
| 23 | 12.5, | 89.3, | 91.1, | -68.8, | 36.6,  | 24 | 12.5, | 84.9, | 90.1, | -74.3, | 32.0,  |
| 25 | 12.5, | 77.8, | 86.3, | -77.6, | 26.5,  | 26 | 12.5, | 68.4, | 79.9, | -78.5, | 20.1,  |
| 27 | 12.5, | 56.9, | 71.1, | -77.0, | 13.1,  | 28 | 12.5, | 68.4, | 79.9, | -83.0, | 5.7,   |
| 29 | 12.5, | 77.8, | 86.3, | -86.5, | -1.9,  | 30 | 12.5, | 84.9, | 90.1, | -87.4, | -9.4,  |
| 31 | 12.5, | 89.3, | 91.1, | -85.7, | -16.6, | 32 | 12.5, | 91.1, | 89.3, | -81.3, | -23.3, |
| 33 | 12.5, | 90.1, | 84.9, | -74.5, | -29.3, | 34 | 12.5, | 86.3, | 77.8, | -65.4, | -34.4, |
| 35 | 12.5, | 79.9, | 68.4, | -54.3, | -38.5, | 36 | 12.5, | 71.1, | 56.9, | -41.6, | -41.4, |

SOURCE ID: IB24

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 79.9, | 68.4, | -29.1, | -40.9, | 2   | 12.5, | 86.3, | 77.8, | -26.8, | -39.4, |
| 3   | 12.5, | 90.1, | 84.9, | -23.6, | -36.7, | 4   | 12.5, | 91.1, | 89.3, | -19.8, | -32.9, |
| 5   | 12.5, | 89.3, | 91.1, | -15.3, | -28.1, | 6   | 12.5, | 84.9, | 90.1, | -10.4, | -22.4, |
| 7   | 12.5, | 77.8, | 86.3, | -5.2,  | -16.0, | 8   | 12.5, | 68.4, | 79.9, | 0.2,   | -9.2,  |
| 9   | 12.5, | 56.9, | 71.1, | 5.6,   | -2.1,  | 10  | 12.5, | 68.4, | 79.9, | 1.0,   | 5.1,   |
| 11  | 12.5, | 77.8, | 86.3, | -3.8,  | 12.1,  | 12  | 12.5, | 84.9, | 90.1, | -8.3,  | 18.8,  |
| 13  | 12.5, | 89.3, | 91.1, | -12.7, | 24.9,  | 14  | 12.5, | 91.1, | 89.3, | -16.6, | 30.2,  |
| 15  | 12.5, | 90.1, | 84.9, | -20.1, | 34.6,  | 16  | 12.5, | 86.3, | 77.8, | -22.9, | 38.0,  |
| 17  | 12.5, | 79.9, | 68.4, | -25.0, | 40.2,  | 18  | 12.5, | 71.1, | 56.9, | -26.4, | 41.2,  |
| 19  | 12.5, | 79.9, | 68.4, | -39.3, | 40.9,  | 20  | 12.5, | 86.3, | 77.8, | -51.1, | 39.4,  |
| 21  | 12.5, | 90.1, | 84.9, | -61.2, | 36.7,  | 22  | 12.5, | 91.1, | 89.3, | -69.6, | 32.9,  |
| 23  | 12.5, | 89.3, | 91.1, | -75.8, | 28.1,  | 24  | 12.5, | 84.9, | 90.1, | -79.7, | 22.4,  |
| 25  | 12.5, | 77.8, | 86.3, | -81.1, | 16.0,  | 26  | 12.5, | 68.4, | 79.9, | -80.2, | 9.2,   |
| 27  | 12.5, | 56.9, | 71.1, | -76.7, | 2.1,   | 28  | 12.5, | 68.4, | 79.9, | -80.9, | -5.1,  |
| 29  | 12.5, | 77.8, | 86.3, | -82.6, | -12.1, | 30  | 12.5, | 84.9, | 90.1, | -81.7, | -18.8, |
| 31  | 12.5, | 89.3, | 91.1, | -78.4, | -24.9, | 32  | 12.5, | 91.1, | 89.3, | -72.7, | -30.2, |
| 33  | 12.5, | 90.1, | 84.9, | -64.8, | -34.6, | 34  | 12.5, | 86.3, | 77.8, | -54.9, | -38.0, |
| 35  | 12.5, | 79.9, | 68.4, | -43.4, | -40.2, | 36  | 12.5, | 71.1, | 56.9, | -30.5, | -41.2, |

SOURCE ID: IB25

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 79.9, | 68.4, | -23.0, | -39.9, | 2   | 12.5, | 86.3, | 77.8, | -20.9, | -37.4, |
| 3   | 12.5, | 90.1, | 84.9, | -18.2, | -33.7, | 4   | 12.5, | 91.1, | 89.3, | -15.0, | -29.0, |
| 5   | 12.5, | 89.3, | 91.1, | -11.3, | -23.4, | 6   | 12.5, | 84.9, | 90.1, | -7.2,  | -17.1, |
| 7   | 12.5, | 77.8, | 86.3, | -2.9,  | -10.3, | 8   | 12.5, | 68.4, | 79.9, | 1.4,   | -3.1,  |
| 9   | 12.5, | 56.9, | 71.1, | 5.7,   | 4.1,   | 10  | 12.5, | 68.4, | 79.9, | -0.0,  | 11.2,  |
| 11  | 12.5, | 77.8, | 86.3, | -5.8,  | 18.0,  | 12  | 12.5, | 84.9, | 90.1, | -11.3, | 24.2,  |
| 13  | 12.5, | 89.3, | 91.1, | -16.6, | 29.7,  | 14  | 12.5, | 91.1, | 89.3, | -21.3, | 34.3,  |
| 15  | 12.5, | 90.1, | 84.9, | -25.4, | 37.8,  | 16  | 12.5, | 86.3, | 77.8, | -28.7, | 40.2,  |
| 17  | 12.5, | 79.9, | 68.4, | -31.1, | 41.4,  | 18  | 12.5, | 71.1, | 56.9, | -32.6, | 41.3,  |
| 19  | 12.5, | 79.9, | 68.4, | -45.4, | 39.9,  | 20  | 12.5, | 86.3, | 77.8, | -56.9, | 37.4,  |
| 21  | 12.5, | 90.1, | 84.9, | -66.6, | 33.7,  | 22  | 12.5, | 91.1, | 89.3, | -74.4, | 29.0,  |
| 23  | 12.5, | 89.3, | 91.1, | -79.8, | 23.4,  | 24  | 12.5, | 84.9, | 90.1, | -82.8, | 17.1,  |
| 25  | 12.5, | 77.8, | 86.3, | -83.4, | 10.3,  | 26  | 12.5, | 68.4, | 79.9, | -81.3, | 3.1,   |
| 27  | 12.5, | 56.9, | 71.1, | -76.8, | -4.1,  | 28  | 12.5, | 68.4, | 79.9, | -79.9, | -11.2, |
| 29  | 12.5, | 77.8, | 86.3, | -80.5, | -18.0, | 30  | 12.5, | 84.9, | 90.1, | -78.7, | -24.2, |
| 31  | 12.5, | 89.3, | 91.1, | -74.5, | -29.7, | 32  | 12.5, | 91.1, | 89.3, | -68.1, | -34.3, |
| 33  | 12.5, | 90.1, | 84.9, | -59.5, | -37.8, | 34  | 12.5, | 86.3, | 77.8, | -49.2, | -40.2, |
| 35  | 12.5, | 79.9, | 68.4, | -37.3, | -41.4, | 36  | 12.5, | 71.1, | 56.9, | -24.4, | -41.3, |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IB26

| IFV | BH   | BW   | BL   | XADJ  | YADJ  | IFV | BH   | BW   | BL   | XADJ  | YADJ  |
|-----|------|------|------|-------|-------|-----|------|------|------|-------|-------|
| 1   | 12.5 | 79.9 | 68.4 | -17.4 | -38.7 | 2   | 12.5 | 86.3 | 77.8 | -15.6 | -35.2 |
| 3   | 12.5 | 90.1 | 84.9 | -13.4 | -30.7 | 4   | 12.5 | 91.1 | 89.3 | -10.7 | -25.1 |
| 5   | 12.5 | 89.3 | 91.1 | -7.8  | -18.9 | 6   | 12.5 | 84.9 | 90.1 | -4.5  | -12.0 |
| 7   | 12.5 | 77.8 | 86.3 | -1.2  | -4.8  | 8   | 12.5 | 68.4 | 79.9 | 2.2   | 2.6   |
| 9   | 12.5 | 56.9 | 71.1 | 5.5   | 9.9   | 10  | 12.5 | 68.4 | 79.9 | -1.2  | 16.8  |
| 11  | 12.5 | 77.8 | 86.3 | -7.9  | 23.3  | 12  | 12.5 | 84.9 | 90.1 | -14.4 | 29.1  |
| 13  | 12.5 | 89.3 | 91.1 | -20.4 | 33.9  | 14  | 12.5 | 91.1 | 89.3 | -25.8 | 37.8  |
| 15  | 12.5 | 90.1 | 84.9 | -30.4 | 40.5  | 16  | 12.5 | 86.3 | 77.8 | -34.1 | 42.0  |
| 17  | 12.5 | 79.9 | 68.4 | -36.8 | 42.2  | 18  | 12.5 | 71.1 | 56.9 | -38.3 | 41.1  |
| 19  | 12.5 | 79.9 | 68.4 | -51.0 | 38.7  | 20  | 12.5 | 86.3 | 77.8 | -62.2 | 35.2  |
| 21  | 12.5 | 90.1 | 84.9 | -71.5 | 30.7  | 22  | 12.5 | 91.1 | 89.3 | -78.6 | 25.1  |
| 23  | 12.5 | 89.3 | 91.1 | -83.3 | 18.9  | 24  | 12.5 | 84.9 | 90.1 | -85.5 | 12.0  |
| 25  | 12.5 | 77.8 | 86.3 | -85.1 | 4.8   | 26  | 12.5 | 68.4 | 79.9 | -82.1 | -2.6  |
| 27  | 12.5 | 56.9 | 71.1 | -76.6 | -9.9  | 28  | 12.5 | 68.4 | 79.9 | -78.7 | -16.8 |
| 29  | 12.5 | 77.8 | 86.3 | -78.4 | -23.3 | 30  | 12.5 | 84.9 | 90.1 | -75.7 | -29.1 |
| 31  | 12.5 | 89.3 | 91.1 | -70.7 | -33.9 | 32  | 12.5 | 91.1 | 89.3 | -63.5 | -37.8 |
| 33  | 12.5 | 90.1 | 84.9 | -54.4 | -40.5 | 34  | 12.5 | 86.3 | 77.8 | -43.7 | -42.0 |
| 35  | 12.5 | 79.9 | 68.4 | -31.7 | -42.2 | 36  | 12.5 | 71.1 | 56.9 | -18.6 | -41.1 |

SOURCE ID: IB27

| IFV | BH   | BW   | BL   | XADJ  | YADJ  | IFV | BH   | BW   | BL   | XADJ  | YADJ  |
|-----|------|------|------|-------|-------|-----|------|------|------|-------|-------|
| 1   | 12.5 | 79.9 | 68.4 | -11.3 | -37.8 | 2   | 12.5 | 86.3 | 77.8 | -9.8  | -33.2 |
| 3   | 12.5 | 90.1 | 84.9 | -8.0  | -27.7 | 4   | 12.5 | 91.1 | 89.3 | -5.9  | -21.2 |
| 5   | 12.5 | 89.3 | 91.1 | -3.7  | -14.2 | 6   | 12.5 | 84.9 | 90.1 | -1.4  | -6.7  |
| 7   | 12.5 | 77.8 | 86.3 | 1.0   | 1.0   | 8   | 12.5 | 68.4 | 79.9 | 3.4   | 8.6   |
| 9   | 12.5 | 56.9 | 71.1 | 5.6   | 16.0  | 10  | 12.5 | 68.4 | 79.9 | -2.2  | 22.9  |
| 11  | 12.5 | 77.8 | 86.3 | -9.9  | 29.1  | 12  | 12.5 | 84.9 | 90.1 | -17.4 | 34.5  |
| 13  | 12.5 | 89.3 | 91.1 | -24.3 | 38.8  | 14  | 12.5 | 91.1 | 89.3 | -30.5 | 41.8  |
| 15  | 12.5 | 90.1 | 84.9 | -35.7 | 43.7  | 16  | 12.5 | 86.3 | 77.8 | -39.9 | 44.2  |
| 17  | 12.5 | 79.9 | 68.4 | -42.8 | 43.3  | 18  | 12.5 | 71.1 | 56.9 | -44.5 | 41.2  |
| 19  | 12.5 | 79.9 | 68.4 | -57.1 | 37.8  | 20  | 12.5 | 86.3 | 77.8 | -68.1 | 33.2  |
| 21  | 12.5 | 90.1 | 84.9 | -76.9 | 27.7  | 22  | 12.5 | 91.1 | 89.3 | -83.4 | 21.2  |
| 23  | 12.5 | 89.3 | 91.1 | -87.4 | 14.2  | 24  | 12.5 | 84.9 | 90.1 | -88.7 | 6.7   |
| 25  | 12.5 | 77.8 | 86.3 | -87.3 | -1.0  | 26  | 12.5 | 68.4 | 79.9 | -83.3 | -8.6  |
| 27  | 12.5 | 56.9 | 71.1 | -76.7 | -16.0 | 28  | 12.5 | 68.4 | 79.9 | -77.7 | -22.9 |
| 29  | 12.5 | 77.8 | 86.3 | -76.4 | -29.1 | 30  | 12.5 | 84.9 | 90.1 | -72.7 | -34.5 |
| 31  | 12.5 | 89.3 | 91.1 | -66.8 | -38.8 | 32  | 12.5 | 91.1 | 89.3 | -58.9 | -41.8 |
| 33  | 12.5 | 90.1 | 84.9 | -49.1 | -43.7 | 34  | 12.5 | 86.3 | 77.8 | -37.9 | -44.2 |
| 35  | 12.5 | 79.9 | 68.4 | -25.6 | -43.3 | 36  | 12.5 | 71.1 | 56.9 | -12.5 | -41.2 |

SOURCE ID: IB28

| IFV | BH   | BW   | BL   | XADJ | YADJ  | IFV | BH   | BW   | BL   | XADJ | YADJ  |
|-----|------|------|------|------|-------|-----|------|------|------|------|-------|
| 1   | 12.5 | 79.9 | 68.4 | -6.1 | -37.1 | 2   | 12.5 | 86.3 | 77.8 | -4.8 | -31.7 |
| 3   | 12.5 | 90.1 | 84.9 | -3.4 | -25.3 | 4   | 12.5 | 91.1 | 89.3 | -1.8 | -18.1 |
| 5   | 12.5 | 89.3 | 91.1 | -0.2 | -10.4 | 6   | 12.5 | 84.9 | 90.1 | 1.4  | -2.3  |

Seaton\_DPM\_R2\_Linearea.ADO

|    |       |       |       |        |        |    |       |       |       |        |        |
|----|-------|-------|-------|--------|--------|----|-------|-------|-------|--------|--------|
| 7  | 12.5, | 77.8, | 86.3, | 3.0,   | 5.8,   | 8  | 12.5, | 68.4, | 79.9, | 4.5,   | 13.7,  |
| 9  | 12.5, | 56.9, | 71.1, | 5.8,   | 21.2,  | 10 | 12.5, | 68.4, | 79.9, | -2.9,  | 28.1,  |
| 11 | 12.5, | 77.8, | 86.3, | -11.5, | 34.1,  | 12 | 12.5, | 84.9, | 90.1, | -19.8, | 39.1,  |
| 13 | 12.5, | 89.3, | 91.1, | -27.4, | 42.8,  | 14 | 12.5, | 91.1, | 89.3, | -34.3, | 45.3,  |
| 15 | 12.5, | 90.1, | 84.9, | -40.1, | 46.5,  | 16 | 12.5, | 86.3, | 77.8, | -44.7, | 46.2,  |
| 17 | 12.5, | 79.9, | 68.4, | -47.9, | 44.5,  | 18 | 12.5, | 71.1, | 56.9, | -49.7, | 41.4,  |
| 19 | 12.5, | 79.9, | 68.4, | -62.3, | 37.1,  | 20 | 12.5, | 86.3, | 77.8, | -73.0, | 31.7,  |
| 21 | 12.5, | 90.1, | 84.9, | -81.5, | 25.3,  | 22 | 12.5, | 91.1, | 89.3, | -87.5, | 18.1,  |
| 23 | 12.5, | 89.3, | 91.1, | -90.9, | 10.4,  | 24 | 12.5, | 84.9, | 90.1, | -91.5, | 2.3,   |
| 25 | 12.5, | 77.8, | 86.3, | -89.3, | -5.8,  | 26 | 12.5, | 68.4, | 79.9, | -84.4, | -13.7, |
| 27 | 12.5, | 56.9, | 71.1, | -77.0, | -21.2, | 28 | 12.5, | 68.4, | 79.9, | -77.1, | -28.1, |
| 29 | 12.5, | 77.8, | 86.3, | -74.8, | -34.1, | 30 | 12.5, | 84.9, | 90.1, | -70.3, | -39.1, |
| 31 | 12.5, | 89.3, | 91.1, | -63.6, | -42.8, | 32 | 12.5, | 91.1, | 89.3, | -55.0, | -45.3, |
| 33 | 12.5, | 90.1, | 84.9, | -44.8, | -46.5, | 34 | 12.5, | 86.3, | 77.8, | -33.2, | -46.2, |
| 35 | 12.5, | 79.9, | 68.4, | -20.5, | -44.5, | 36 | 12.5, | 71.1, | 56.9, | -7.3,  | -41.4, |

SOURCE ID: IB21

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 79.9, | 68.4, | -51.4, | -45.0, | 2   | 12.5, | 86.3, | 77.8, | -48.1, | -47.3, |
| 3   | 12.5, | 90.1, | 84.9, | -43.2, | -48.1, | 4   | 12.5, | 91.1, | 89.3, | -37.1, | -47.5, |
| 5   | 12.5, | 89.3, | 91.1, | -29.8, | -45.5, | 6   | 12.5, | 84.9, | 90.1, | -21.7, | -42.1, |
| 7   | 12.5, | 77.8, | 86.3, | -12.8, | -37.4, | 8   | 12.5, | 68.4, | 79.9, | -3.6,  | -31.6, |
| 9   | 12.5, | 56.9, | 71.1, | 5.7,   | -24.8, | 10  | 12.5, | 68.4, | 79.9, | 5.0,   | -17.2, |
| 11  | 12.5, | 77.8, | 86.3, | 4.1,   | -9.2,  | 12  | 12.5, | 84.9, | 90.1, | 3.1,   | -0.8,  |
| 13  | 12.5, | 89.3, | 91.1, | 2.0,   | 7.6,   | 14  | 12.5, | 91.1, | 89.3, | 0.8,   | 15.7,  |
| 15  | 12.5, | 90.1, | 84.9, | -0.4,  | 23.4,  | 16  | 12.5, | 86.3, | 77.8, | -1.5,  | 30.3,  |
| 17  | 12.5, | 79.9, | 68.4, | -2.7,  | 36.4,  | 18  | 12.5, | 71.1, | 56.9, | -3.7,  | 41.3,  |
| 19  | 12.5, | 79.9, | 68.4, | -17.0, | 45.0,  | 20  | 12.5, | 86.3, | 77.8, | -29.8, | 47.3,  |
| 21  | 12.5, | 90.1, | 84.9, | -41.6, | 48.1,  | 22  | 12.5, | 91.1, | 89.3, | -52.2, | 47.5,  |
| 23  | 12.5, | 89.3, | 91.1, | -61.3, | 45.5,  | 24  | 12.5, | 84.9, | 90.1, | -68.4, | 42.1,  |
| 25  | 12.5, | 77.8, | 86.3, | -73.5, | 37.4,  | 26  | 12.5, | 68.4, | 79.9, | -76.3, | 31.6,  |
| 27  | 12.5, | 56.9, | 71.1, | -76.8, | 24.8,  | 28  | 12.5, | 68.4, | 79.9, | -84.9, | 17.2,  |
| 29  | 12.5, | 77.8, | 86.3, | -90.4, | 9.2,   | 30  | 12.5, | 84.9, | 90.1, | -93.2, | 0.8,   |
| 31  | 12.5, | 89.3, | 91.1, | -93.1, | -7.6,  | 32  | 12.5, | 91.1, | 89.3, | -90.2, | -15.7, |
| 33  | 12.5, | 90.1, | 84.9, | -84.5, | -23.4, | 34  | 12.5, | 86.3, | 77.8, | -76.3, | -30.3, |
| 35  | 12.5, | 79.9, | 68.4, | -65.8, | -36.4, | 36  | 12.5, | 71.1, | 56.9, | -53.2, | -41.3, |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 8

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IB11

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 78.2, | 66.7, | -49.9, | -43.7, | 2   | 12.5, | 84.4, | 75.9, | -46.6, | -45.9, |
| 3   | 12.5, | 88.1, | 82.9, | -42.0, | -46.7, | 4   | 12.5, | 89.0, | 87.3, | -36.1, | -46.1, |
| 5   | 12.5, | 87.3, | 89.0, | -29.1, | -44.1, | 6   | 12.5, | 82.9, | 88.1, | -21.2, | -40.7, |
| 7   | 12.5, | 75.9, | 84.4, | -12.7, | -36.1, | 8   | 12.5, | 66.7, | 78.2, | -3.7,  | -30.5, |
| 9   | 12.5, | 55.5, | 69.7, | 5.3,   | -23.9, | 10  | 12.5, | 66.7, | 78.2, | 4.6,   | -16.5, |
| 11  | 12.5, | 75.9, | 84.4, | 3.7,   | -8.7,  | 12  | 12.5, | 82.9, | 88.1, | 2.7,   | -0.6,  |
| 13  | 12.5, | 87.3, | 89.0, | 1.6,   | 7.5,   | 14  | 12.5, | 89.0, | 87.3, | 0.4,   | 15.4,  |

Seaton\_DPM\_R2\_Linearea.ADO

|    |       |       |       |        |        |    |       |       |       |        |        |
|----|-------|-------|-------|--------|--------|----|-------|-------|-------|--------|--------|
| 15 | 12.5, | 88.1, | 82.9, | -0.7,  | 22.8,  | 16 | 12.5, | 84.4, | 75.9, | -1.8,  | 29.6,  |
| 17 | 12.5, | 78.2, | 66.7, | -2.9,  | 35.4,  | 18 | 12.5, | 69.7, | 55.5, | -3.9,  | 40.1,  |
| 19 | 12.5, | 78.2, | 66.7, | -16.8, | 43.7,  | 20 | 12.5, | 84.4, | 75.9, | -29.3, | 45.9,  |
| 21 | 12.5, | 88.1, | 82.9, | -40.8, | 46.7,  | 22 | 12.5, | 89.0, | 87.3, | -51.2, | 46.1,  |
| 23 | 12.5, | 87.3, | 89.0, | -59.9, | 44.1,  | 24 | 12.5, | 82.9, | 88.1, | -66.9, | 40.7,  |
| 25 | 12.5, | 75.9, | 84.4, | -71.8, | 36.1,  | 26 | 12.5, | 66.7, | 78.2, | -74.5, | 30.5,  |
| 27 | 12.5, | 55.5, | 69.7, | -75.0, | 23.9,  | 28 | 12.5, | 66.7, | 78.2, | -82.8, | 16.5,  |
| 29 | 12.5, | 75.9, | 84.4, | -88.1, | 8.7,   | 30 | 12.5, | 82.9, | 88.1, | -90.7, | 0.6,   |
| 31 | 12.5, | 87.3, | 89.0, | -90.6, | -7.5,  | 32 | 12.5, | 89.0, | 87.3, | -87.7, | -15.4, |
| 33 | 12.5, | 88.1, | 82.9, | -82.2, | -22.8, | 34 | 12.5, | 84.4, | 75.9, | -74.1, | -29.6, |
| 35 | 12.5, | 78.2, | 66.7, | -63.8, | -35.4, | 36 | 12.5, | 69.7, | 55.5, | -51.6, | -40.1, |

SOURCE ID: IB12

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 78.2, | 66.7, | -44.4, | -42.7, | 2   | 12.5, | 84.4, | 75.9, | -41.5, | -44.0, |
| 3   | 12.5, | 88.1, | 82.9, | -37.2, | -43.9, | 4   | 12.5, | 89.0, | 87.3, | -31.9, | -42.5, |
| 5   | 12.5, | 87.3, | 89.0, | -25.6, | -39.8, | 6   | 12.5, | 82.9, | 88.1, | -18.4, | -35.9, |
| 7   | 12.5, | 75.9, | 84.4, | -10.8, | -31.0, | 8   | 12.5, | 66.7, | 78.2, | -2.8,  | -25.0, |
| 9   | 12.5, | 55.5, | 69.7, | 5.3,   | -18.3, | 10  | 12.5, | 66.7, | 78.2, | 3.6,   | -11.1, |
| 11  | 12.5, | 75.9, | 84.4, | 1.8,   | -3.5,  | 12  | 12.5, | 82.9, | 88.1, | -0.1,  | 4.2,   |
| 13  | 12.5, | 87.3, | 89.0, | -2.0,  | 11.8,  | 14  | 12.5, | 89.0, | 87.3, | -3.8,  | 19.0,  |
| 15  | 12.5, | 88.1, | 82.9, | -5.5,  | 25.6,  | 16  | 12.5, | 84.4, | 75.9, | -7.0,  | 31.4,  |
| 17  | 12.5, | 78.2, | 66.7, | -8.3,  | 36.3,  | 18  | 12.5, | 69.7, | 55.5, | -9.4,  | 40.1,  |
| 19  | 12.5, | 78.2, | 66.7, | -22.3, | 42.7,  | 20  | 12.5, | 84.4, | 75.9, | -34.5, | 44.0,  |
| 21  | 12.5, | 88.1, | 82.9, | -45.6, | 43.9,  | 22  | 12.5, | 89.0, | 87.3, | -55.4, | 42.5,  |
| 23  | 12.5, | 87.3, | 89.0, | -63.5, | 39.8,  | 24  | 12.5, | 82.9, | 88.1, | -69.6, | 35.9,  |
| 25  | 12.5, | 75.9, | 84.4, | -73.7, | 31.0,  | 26  | 12.5, | 66.7, | 78.2, | -75.5, | 25.0,  |
| 27  | 12.5, | 55.5, | 69.7, | -75.0, | 18.3,  | 28  | 12.5, | 66.7, | 78.2, | -81.8, | 11.1,  |
| 29  | 12.5, | 75.9, | 84.4, | -86.2, | 3.5,   | 30  | 12.5, | 82.9, | 88.1, | -88.0, | -4.2,  |
| 31  | 12.5, | 87.3, | 89.0, | -87.0, | -11.8, | 32  | 12.5, | 89.0, | 87.3, | -83.5, | -19.0, |
| 33  | 12.5, | 88.1, | 82.9, | -77.4, | -25.6, | 34  | 12.5, | 84.4, | 75.9, | -68.9, | -31.4, |
| 35  | 12.5, | 78.2, | 66.7, | -58.4, | -36.3, | 36  | 12.5, | 69.7, | 55.5, | -46.1, | -40.1, |

SOURCE ID: IB13

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 78.2, | 66.7, | -38.3, | -41.8, | 2   | 12.5, | 84.4, | 75.9, | -35.6, | -42.0, |
| 3   | 12.5, | 88.1, | 82.9, | -31.8, | -40.9, | 4   | 12.5, | 89.0, | 87.3, | -27.1, | -38.6, |
| 5   | 12.5, | 87.3, | 89.0, | -21.5, | -35.2, | 6   | 12.5, | 82.9, | 88.1, | -15.2, | -30.7, |
| 7   | 12.5, | 75.9, | 84.4, | -8.6,  | -25.2, | 8   | 12.5, | 66.7, | 78.2, | -1.6,  | -19.0, |
| 9   | 12.5, | 55.5, | 69.7, | 5.4,   | -12.2, | 10  | 12.5, | 66.7, | 78.2, | 2.6,   | -5.0,  |
| 11  | 12.5, | 75.9, | 84.4, | -0.2,  | 2.3,   | 12  | 12.5, | 82.9, | 88.1, | -3.1,  | 9.6,   |
| 13  | 12.5, | 87.3, | 89.0, | -5.9,  | 16.6,  | 14  | 12.5, | 89.0, | 87.3, | -8.4,  | 23.0,  |
| 15  | 12.5, | 88.1, | 82.9, | -10.8, | 28.8,  | 16  | 12.5, | 84.4, | 75.9, | -12.8, | 33.7,  |
| 17  | 12.5, | 78.2, | 66.7, | -14.4, | 37.5,  | 18  | 12.5, | 69.7, | 55.5, | -15.6, | 40.3,  |
| 19  | 12.5, | 78.2, | 66.7, | -28.4, | 41.8,  | 20  | 12.5, | 84.4, | 75.9, | -40.3, | 42.0,  |
| 21  | 12.5, | 88.1, | 82.9, | -51.0, | 40.9,  | 22  | 12.5, | 89.0, | 87.3, | -60.2, | 38.6,  |
| 23  | 12.5, | 87.3, | 89.0, | -67.5, | 35.2,  | 24  | 12.5, | 82.9, | 88.1, | -72.8, | 30.7,  |
| 25  | 12.5, | 75.9, | 84.4, | -75.9, | 25.2,  | 26  | 12.5, | 66.7, | 78.2, | -76.6, | 19.0,  |
| 27  | 12.5, | 55.5, | 69.7, | -75.1, | 12.2,  | 28  | 12.5, | 66.7, | 78.2, | -80.9, | 5.0,   |
| 29  | 12.5, | 75.9, | 84.4, | -84.2, | -2.3,  | 30  | 12.5, | 82.9, | 88.1, | -85.0, | -9.6,  |
| 31  | 12.5, | 87.3, | 89.0, | -83.2, | -16.6, | 32  | 12.5, | 89.0, | 87.3, | -78.8, | -23.0, |
| 33  | 12.5, | 88.1, | 82.9, | -72.1, | -28.8, | 34  | 12.5, | 84.4, | 75.9, | -63.2, | -33.7, |
| 35  | 12.5, | 78.2, | 66.7, | -52.3, | -37.5, | 36  | 12.5, | 69.7, | 55.5, | -39.9, | -40.3, |



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SOURCE ID: IB14

| IFV | BH   | BW   | BL   | XADJ  | YADJ  | IFV | BH   | BW   | BL   | XADJ  | YADJ  |
|-----|------|------|------|-------|-------|-----|------|------|------|-------|-------|
| 1   | 12.5 | 78.2 | 66.7 | -27.5 | -39.6 | 2   | 12.5 | 84.4 | 75.9 | -25.4 | -38.0 |
| 3   | 12.5 | 88.1 | 82.9 | -22.4 | -35.2 | 4   | 12.5 | 89.0 | 87.3 | -18.8 | -31.4 |
| 5   | 12.5 | 87.3 | 89.0 | -14.6 | -26.6 | 6   | 12.5 | 82.9 | 88.1 | -9.9  | -21.0 |
| 7   | 12.5 | 75.9 | 84.4 | -5.0  | -14.8 | 8   | 12.5 | 66.7 | 78.2 | 0.1   | -8.1  |
| 9   | 12.5 | 55.5 | 69.7 | 5.2   | -1.2  | 10  | 12.5 | 66.7 | 78.2 | 0.5   | 5.8   |
| 11  | 12.5 | 75.9 | 84.4 | -4.2  | 12.6  | 12  | 12.5 | 82.9 | 88.1 | -8.8  | 19.0  |
| 13  | 12.5 | 87.3 | 89.0 | -13.1 | 24.9  | 14  | 12.5 | 89.0 | 87.3 | -17.0 | 29.9  |
| 15  | 12.5 | 88.1 | 82.9 | -20.4 | 34.1  | 16  | 12.5 | 84.4 | 75.9 | -23.2 | 37.2  |
| 17  | 12.5 | 78.2 | 66.7 | -25.3 | 39.2  | 18  | 12.5 | 69.7 | 55.5 | -26.6 | 40.0  |
| 19  | 12.5 | 78.2 | 66.7 | -39.2 | 39.6  | 20  | 12.5 | 84.4 | 75.9 | -50.6 | 38.0  |
| 21  | 12.5 | 88.1 | 82.9 | -60.4 | 35.2  | 22  | 12.5 | 89.0 | 87.3 | -68.5 | 31.4  |
| 23  | 12.5 | 87.3 | 89.0 | -74.4 | 26.6  | 24  | 12.5 | 82.9 | 88.1 | -78.1 | 21.0  |
| 25  | 12.5 | 75.9 | 84.4 | -79.5 | 14.8  | 26  | 12.5 | 66.7 | 78.2 | -78.3 | 8.1   |
| 27  | 12.5 | 55.5 | 69.7 | -74.9 | 1.2   | 28  | 12.5 | 66.7 | 78.2 | -78.8 | -5.8  |
| 29  | 12.5 | 75.9 | 84.4 | -80.2 | -12.6 | 30  | 12.5 | 82.9 | 88.1 | -79.3 | -19.0 |
| 31  | 12.5 | 87.3 | 89.0 | -75.9 | -24.9 | 32  | 12.5 | 89.0 | 87.3 | -70.2 | -29.9 |
| 33  | 12.5 | 88.1 | 82.9 | -62.4 | -34.1 | 34  | 12.5 | 84.4 | 75.9 | -52.8 | -37.2 |
| 35  | 12.5 | 78.2 | 66.7 | -41.4 | -39.2 | 36  | 12.5 | 69.7 | 55.5 | -28.9 | -40.0 |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 9

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IB15

| IFV | BH   | BW   | BL   | XADJ  | YADJ  | IFV | BH   | BW   | BL   | XADJ  | YADJ  |
|-----|------|------|------|-------|-------|-----|------|------|------|-------|-------|
| 1   | 12.5 | 78.2 | 66.7 | -21.4 | -38.7 | 2   | 12.5 | 84.4 | 75.9 | -19.5 | -36.0 |
| 3   | 12.5 | 88.1 | 82.9 | -17.0 | -32.2 | 4   | 12.5 | 89.0 | 87.3 | -14.0 | -27.5 |
| 5   | 12.5 | 87.3 | 89.0 | -10.5 | -21.9 | 6   | 12.5 | 82.9 | 88.1 | -6.8  | -15.7 |
| 7   | 12.5 | 75.9 | 84.4 | -2.8  | -9.0  | 8   | 12.5 | 66.7 | 78.2 | 1.3   | -2.0  |
| 9   | 12.5 | 55.5 | 69.7 | 5.3   | 5.0   | 10  | 12.5 | 66.7 | 78.2 | -0.5  | 11.9  |
| 11  | 12.5 | 75.9 | 84.4 | -6.2  | 18.5  | 12  | 12.5 | 82.9 | 88.1 | -11.8 | 24.4  |
| 13  | 12.5 | 87.3 | 89.0 | -17.0 | 29.7  | 14  | 12.5 | 89.0 | 87.3 | -21.7 | 34.0  |
| 15  | 12.5 | 88.1 | 82.9 | -25.7 | 37.3  | 16  | 12.5 | 84.4 | 75.9 | -29.0 | 39.4  |
| 17  | 12.5 | 78.2 | 66.7 | -31.3 | 40.4  | 18  | 12.5 | 69.7 | 55.5 | -32.8 | 40.1  |
| 19  | 12.5 | 78.2 | 66.7 | -45.3 | 38.7  | 20  | 12.5 | 84.4 | 75.9 | -56.4 | 36.0  |
| 21  | 12.5 | 88.1 | 82.9 | -65.9 | 32.2  | 22  | 12.5 | 89.0 | 87.3 | -73.3 | 27.5  |
| 23  | 12.5 | 87.3 | 89.0 | -78.5 | 21.9  | 24  | 12.5 | 82.9 | 88.1 | -81.3 | 15.7  |
| 25  | 12.5 | 75.9 | 84.4 | -81.7 | 9.0   | 26  | 12.5 | 66.7 | 78.2 | -79.5 | 2.0   |
| 27  | 12.5 | 55.5 | 69.7 | -75.0 | -5.0  | 28  | 12.5 | 66.7 | 78.2 | -77.8 | -11.9 |
| 29  | 12.5 | 75.9 | 84.4 | -78.2 | -18.5 | 30  | 12.5 | 82.9 | 88.1 | -76.3 | -24.4 |
| 31  | 12.5 | 87.3 | 89.0 | -72.0 | -29.7 | 32  | 12.5 | 89.0 | 87.3 | -65.6 | -34.0 |
| 33  | 12.5 | 88.1 | 82.9 | -57.1 | -37.3 | 34  | 12.5 | 84.4 | 75.9 | -47.0 | -39.4 |
| 35  | 12.5 | 78.2 | 66.7 | -35.4 | -40.4 | 36  | 12.5 | 69.7 | 55.5 | -22.7 | -40.1 |

SOURCE ID: IB16

| IFV | BH   | BW   | BL   | XADJ  | YADJ  | IFV | BH   | BW   | BL   | XADJ  | YADJ  |
|-----|------|------|------|-------|-------|-----|------|------|------|-------|-------|
| 1   | 12.5 | 78.2 | 66.7 | -15.8 | -37.4 | 2   | 12.5 | 84.4 | 75.9 | -14.2 | -33.8 |

Page 11

Seaton\_DPM\_R2\_Linearea.ADO

|    |       |       |       |        |        |    |       |       |       |        |        |
|----|-------|-------|-------|--------|--------|----|-------|-------|-------|--------|--------|
| 3  | 12.5, | 88.1, | 82.9, | -12.2, | -29.2, | 4  | 12.5, | 89.0, | 87.3, | -9.7,  | -23.7, |
| 5  | 12.5, | 87.3, | 89.0, | -7.0,  | -17.4, | 6  | 12.5, | 82.9, | 88.1, | -4.1,  | -10.6, |
| 7  | 12.5, | 75.9, | 84.4, | -1.0,  | -3.5,  | 8  | 12.5, | 66.7, | 78.2, | 2.1,   | 3.7,   |
| 9  | 12.5, | 55.5, | 69.7, | 5.1,   | 10.8,  | 10 | 12.5, | 66.7, | 78.2, | -1.7,  | 17.5,  |
| 11 | 12.5, | 75.9, | 84.4, | -8.4,  | 23.8,  | 12 | 12.5, | 82.9, | 88.1, | -14.9, | 29.3,  |
| 13 | 12.5, | 87.3, | 89.0, | -20.9, | 33.9,  | 14 | 12.5, | 89.0, | 87.3, | -26.2, | 37.5,  |
| 15 | 12.5, | 88.1, | 82.9, | -30.8, | 39.9,  | 16 | 12.5, | 84.4, | 75.9, | -34.4, | 41.2,  |
| 17 | 12.5, | 78.2, | 66.7, | -37.0, | 41.2,  | 18 | 12.5, | 69.7, | 55.5, | -38.5, | 39.9,  |
| 19 | 12.5, | 78.2, | 66.7, | -50.9, | 37.4,  | 20 | 12.5, | 84.4, | 75.9, | -61.7, | 33.8,  |
| 21 | 12.5, | 88.1, | 82.9, | -70.7, | 29.2,  | 22 | 12.5, | 89.0, | 87.3, | -77.5, | 23.7,  |
| 23 | 12.5, | 87.3, | 89.0, | -82.0, | 17.4,  | 24 | 12.5, | 82.9, | 88.1, | -84.0, | 10.6,  |
| 25 | 12.5, | 75.9, | 84.4, | -83.4, | 3.5,   | 26 | 12.5, | 66.7, | 78.2, | -80.3, | -3.7,  |
| 27 | 12.5, | 55.5, | 69.7, | -74.8, | -10.8, | 28 | 12.5, | 66.7, | 78.2, | -76.6, | -17.5, |
| 29 | 12.5, | 75.9, | 84.4, | -76.0, | -23.8, | 30 | 12.5, | 82.9, | 88.1, | -73.2, | -29.3, |
| 31 | 12.5, | 87.3, | 89.0, | -68.2, | -33.9, | 32 | 12.5, | 89.0, | 87.3, | -61.0, | -37.5, |
| 33 | 12.5, | 88.1, | 82.9, | -52.1, | -39.9, | 34 | 12.5, | 84.4, | 75.9, | -41.5, | -41.2, |
| 35 | 12.5, | 78.2, | 66.7, | -29.7, | -41.2, | 36 | 12.5, | 69.7, | 55.5, | -17.0, | -39.9, |

SOURCE ID: IB17

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 78.2, | 66.7, | -9.7,  | -36.5, | 2   | 12.5, | 84.4, | 75.9, | -8.4,  | -31.8, |
| 3   | 12.5, | 88.1, | 82.9, | -6.7,  | -26.2, | 4   | 12.5, | 89.0, | 87.3, | -4.9,  | -19.8, |
| 5   | 12.5, | 87.3, | 89.0, | -2.9,  | -12.8, | 6   | 12.5, | 82.9, | 88.1, | -0.9,  | -5.3,  |
| 7   | 12.5, | 75.9, | 84.4, | 1.2,   | 2.2,   | 8   | 12.5, | 66.7, | 78.2, | 3.2,   | 9.7,   |
| 9   | 12.5, | 55.5, | 69.7, | 5.2,   | 16.9,  | 10  | 12.5, | 66.7, | 78.2, | -2.6,  | 23.6,  |
| 11  | 12.5, | 75.9, | 84.4, | -10.4, | 29.6,  | 12  | 12.5, | 82.9, | 88.1, | -17.8, | 34.7,  |
| 13  | 12.5, | 87.3, | 89.0, | -24.7, | 38.7,  | 14  | 12.5, | 89.0, | 87.3, | -30.9, | 41.6,  |
| 15  | 12.5, | 88.1, | 82.9, | -36.1, | 43.1,  | 16  | 12.5, | 84.4, | 75.9, | -40.2, | 43.4,  |
| 17  | 12.5, | 78.2, | 66.7, | -43.1, | 42.4,  | 18  | 12.5, | 69.7, | 55.5, | -44.7, | 40.0,  |
| 19  | 12.5, | 78.2, | 66.7, | -57.0, | 36.5,  | 20  | 12.5, | 84.4, | 75.9, | -67.6, | 31.8,  |
| 21  | 12.5, | 88.1, | 82.9, | -76.1, | 26.2,  | 22  | 12.5, | 89.0, | 87.3, | -82.3, | 19.8,  |
| 23  | 12.5, | 87.3, | 89.0, | -86.1, | 12.8,  | 24  | 12.5, | 82.9, | 88.1, | -87.2, | 5.3,   |
| 25  | 12.5, | 75.9, | 84.4, | -85.6, | -2.2,  | 26  | 12.5, | 66.7, | 78.2, | -81.5, | -9.7,  |
| 27  | 12.5, | 55.5, | 69.7, | -74.9, | -16.9, | 28  | 12.5, | 66.7, | 78.2, | -75.6, | -23.6, |
| 29  | 12.5, | 75.9, | 84.4, | -74.0, | -29.6, | 30  | 12.5, | 82.9, | 88.1, | -70.2, | -34.7, |
| 31  | 12.5, | 87.3, | 89.0, | -64.3, | -38.7, | 32  | 12.5, | 89.0, | 87.3, | -56.4, | -41.6, |
| 33  | 12.5, | 88.1, | 82.9, | -46.8, | -43.1, | 34  | 12.5, | 84.4, | 75.9, | -35.8, | -43.4, |
| 35  | 12.5, | 78.2, | 66.7, | -23.6, | -42.4, | 36  | 12.5, | 69.7, | 55.5, | -10.8, | -40.0, |

SOURCE ID: IB18

| IFV | BH    | BW    | BL    | XADJ   | YADJ   | IFV | BH    | BW    | BL    | XADJ   | YADJ   |
|-----|-------|-------|-------|--------|--------|-----|-------|-------|-------|--------|--------|
| 1   | 12.5, | 78.2, | 66.7, | -4.6,  | -35.8, | 2   | 12.5, | 84.4, | 75.9, | -3.4,  | -30.3, |
| 3   | 12.5, | 88.1, | 82.9, | -2.2,  | -23.8, | 4   | 12.5, | 89.0, | 87.3, | -0.8,  | -16.6, |
| 5   | 12.5, | 87.3, | 89.0, | 0.5,   | -8.9,  | 6   | 12.5, | 82.9, | 88.1, | 1.9,   | -1.0,  |
| 7   | 12.5, | 75.9, | 84.4, | 3.2,   | 7.0,   | 8   | 12.5, | 66.7, | 78.2, | 4.4,   | 14.8,  |
| 9   | 12.5, | 55.5, | 69.7, | 5.4,   | 22.1,  | 10  | 12.5, | 66.7, | 78.2, | -3.3,  | 28.8,  |
| 11  | 12.5, | 75.9, | 84.4, | -12.0, | 34.5,  | 12  | 12.5, | 82.9, | 88.1, | -20.2, | 39.3,  |
| 13  | 12.5, | 87.3, | 89.0, | -27.9, | 42.8,  | 14  | 12.5, | 89.0, | 87.3, | -34.7, | 45.0,  |
| 15  | 12.5, | 88.1, | 82.9, | -40.4, | 45.9,  | 16  | 12.5, | 84.4, | 75.9, | -45.0, | 45.4,  |
| 17  | 12.5, | 78.2, | 66.7, | -48.1, | 43.5,  | 18  | 12.5, | 69.7, | 55.5, | -49.8, | 40.2,  |
| 19  | 12.5, | 78.2, | 66.7, | -62.1, | 35.8,  | 20  | 12.5, | 84.4, | 75.9, | -72.5, | 30.3,  |
| 21  | 12.5, | 88.1, | 82.9, | -80.7, | 23.8,  | 22  | 12.5, | 89.0, | 87.3, | -86.5, | 16.6,  |
| 23  | 12.5, | 87.3, | 89.0, | -89.6, | 8.9,   | 24  | 12.5, | 82.9, | 88.1, | -90.0, | 1.0,   |
| 25  | 12.5, | 75.9, | 84.4, | -87.6, | -7.0,  | 26  | 12.5, | 66.7, | 78.2, | -82.6, | -14.8, |

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|    |       |       |       |        |        |    |       |       |       |        |        |
|----|-------|-------|-------|--------|--------|----|-------|-------|-------|--------|--------|
| 27 | 12.5, | 55.5, | 69.7, | -75.1, | -22.1, | 28 | 12.5, | 66.7, | 78.2, | -74.9, | -28.8, |
| 29 | 12.5, | 75.9, | 84.4, | -72.5, | -34.5, | 30 | 12.5, | 82.9, | 88.1, | -67.8, | -39.3, |
| 31 | 12.5, | 87.3, | 89.0, | -61.1, | -42.8, | 32 | 12.5, | 89.0, | 87.3, | -52.6, | -45.0, |
| 33 | 12.5, | 88.1, | 82.9, | -42.4, | -45.9, | 34 | 12.5, | 84.4, | 75.9, | -31.0, | -45.4, |
| 35 | 12.5, | 78.2, | 66.7, | -18.6, | -43.5, | 36 | 12.5, | 69.7, | 55.5, | -5.6,  | -40.2, |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
\*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: FP1

| IFV | BH    | BW    | BL    | XADJ    | YADJ   | IFV | BH    | BW    | BL    | XADJ    | YADJ   |
|-----|-------|-------|-------|---------|--------|-----|-------|-------|-------|---------|--------|
| 1   | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 2   | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |
| 3   | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 4   | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |
| 5   | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 6   | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |
| 7   | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 8   | 12.5, | 68.4, | 79.9, | -89.3,  | 38.2,  |
| 9   | 12.5, | 56.9, | 71.1, | -90.8,  | 29.1,  | 10  | 12.5, | 68.4, | 79.9, | -99.4,  | 19.0,  |
| 11  | 12.5, | 77.8, | 86.3, | -105.0, | 8.4,   | 12  | 12.5, | 84.9, | 90.1, | -107.4, | -2.5,  |
| 13  | 12.5, | 89.3, | 91.1, | -106.5, | -13.3, | 14  | 12.5, | 91.1, | 89.3, | -102.4, | -23.7, |
| 15  | 12.5, | 90.1, | 84.9, | -95.2,  | -33.3, | 16  | 12.5, | 86.3, | 77.8, | -85.1,  | -42.0, |
| 17  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 18  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |
| 19  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 20  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |
| 21  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 22  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |
| 23  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 24  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |
| 25  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 26  | 12.5, | 68.4, | 79.9, | 9.4,    | -38.2, |
| 27  | 12.5, | 56.9, | 71.1, | 19.7,   | -29.1, | 28  | 12.5, | 68.4, | 79.9, | 19.5,   | -19.0, |
| 29  | 12.5, | 77.8, | 86.3, | 18.7,   | -8.4,  | 30  | 12.5, | 84.9, | 90.1, | 17.3,   | 2.5,   |
| 31  | 12.5, | 89.3, | 91.1, | 15.5,   | 13.3,  | 32  | 12.5, | 91.1, | 89.3, | 13.1,   | 23.7,  |
| 33  | 12.5, | 90.1, | 84.9, | 10.4,   | 33.3,  | 34  | 12.5, | 86.3, | 77.8, | 7.3,    | 42.0,  |
| 35  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   | 36  | 0.0,  | 0.0,  | 0.0,  | 0.0,    | 0.0,   |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
\*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* GRIDDED RECEPTOR NETWORK SUMMARY \*\*\*

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

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

475028.3, 475128.3, 475228.3, 475328.3, 475428.3, 475528.3, 475628.3, 475728.3, 475828.3,  
475928.3,  
476028.3, 476128.3, 476228.3, 476328.3, 476428.3, 476528.3, 476628.3, 476728.3,

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

Seaton\_DPM\_R2\_Linearea.ADO

3744566.8, 3744666.8, 3744766.8, 3744866.8, 3744966.8, 3745066.8, 3745166.8, 3745266.8, 3745366.8, 3745466.8,

3745566.8, 3745666.8, 3745766.8, 3745866.8, 3745966.8, 3746066.8, 3746166.8, 3746266.8, 3746366.8, 3746466.8,

3746566.8, 3746666.8, 3746766.8, 3746866.8, 3746966.8, 3747066.8,

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

\* ELEVATION HEIGHTS IN METERS \*

| Y-COORD  <br>(METERS) | 475028.31 | 475128.31 | 475228.31 | 475328.31 | 475428.31 | 475528.31 | 475628.31 |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 475728.31 475828.31   |           |           |           |           |           |           |           |

|                        |        |        |        |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3747066.80  <br>463.00 | 484.10 | 480.40 | 475.00 | 472.00 | 469.80 | 468.10 | 466.30 | 464.70 |
| 3746966.80  <br>463.00 | 485.10 | 480.60 | 475.40 | 474.00 | 471.70 | 469.00 | 466.40 | 464.10 |
| 3746866.80  <br>464.00 | 485.20 | 480.70 | 477.40 | 475.00 | 472.20 | 469.60 | 468.00 | 466.00 |
| 3746766.80  <br>463.40 | 486.00 | 481.70 | 477.20 | 473.10 | 473.00 | 471.40 | 468.30 | 466.70 |
| 3746666.80  <br>464.40 | 486.00 | 481.50 | 478.00 | 475.00 | 472.80 | 471.10 | 469.00 | 466.90 |
| 3746566.80  <br>465.40 | 487.00 | 482.70 | 478.40 | 475.00 | 473.00 | 470.40 | 469.00 | 467.00 |
| 3746466.80  <br>465.40 | 486.80 | 482.70 | 479.40 | 476.00 | 474.20 | 472.40 | 470.00 | 467.70 |
| 3746366.80  <br>466.00 | 486.70 | 483.70 | 480.40 | 476.40 | 475.50 | 472.60 | 470.10 | 467.90 |
| 3746266.80  <br>467.00 | 488.00 | 484.40 | 480.40 | 477.00 | 474.70 | 472.40 | 470.10 | 468.00 |
| 3746166.80  <br>466.30 | 487.00 | 485.30 | 481.10 | 478.00 | 474.50 | 471.60 | 469.00 | 467.70 |
| 3746066.80  <br>466.00 | 487.00 | 484.50 | 481.10 | 478.00 | 475.70 | 472.40 | 470.10 | 467.70 |
| 3745966.80  <br>466.00 | 490.10 | 485.40 | 481.00 | 479.00 | 475.70 | 472.40 | 469.00 | 468.00 |
| 3745866.80  <br>466.40 | 492.70 | 486.80 | 483.30 | 481.00 | 476.70 | 473.50 | 471.00 | 469.00 |
| 3745766.80  <br>466.40 | 494.10 | 489.70 | 485.40 | 481.40 | 476.70 | 474.00 | 471.40 | 468.70 |
| 3745666.80  <br>467.00 | 496.10 | 490.70 | 485.80 | 481.10 | 477.40 | 473.40 | 471.10 | 468.70 |
| 3745566.80  <br>466.60 | 498.10 | 491.80 | 486.40 | 482.00 | 477.90 | 474.40 | 472.00 | 469.00 |
| 3745466.80  <br>468.80 | 497.80 | 491.00 | 486.90 | 482.70 | 478.70 | 474.60 | 471.70 | 469.60 |
| 3745366.80  <br>469.00 | 497.10 | 490.70 | 487.40 | 483.10 | 479.40 | 475.40 | 472.10 | 470.00 |

Seaton\_DPM\_R2\_Linearea.ADO

|                        |        |        |        |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3745266.80  <br>468.40 | 500.10 | 492.50 | 487.80 | 483.10 | 478.70 | 475.40 | 473.00 | 470.70 |
| 3745166.80  <br>468.40 | 500.40 | 493.60 | 488.20 | 483.10 | 478.70 | 475.00 | 473.00 | 470.70 |
| 3745066.80  <br>469.00 | 503.00 | 494.40 | 488.80 | 484.00 | 479.40 | 475.40 | 473.10 | 471.00 |
| 3744966.80  <br>470.40 | 501.50 | 494.90 | 489.50 | 484.10 | 479.70 | 476.70 | 474.10 | 472.20 |
| 3744866.80  <br>470.40 | 500.20 | 495.40 | 489.80 | 485.10 | 481.40 | 478.00 | 475.10 | 472.70 |
| 3744766.80  <br>471.00 | 501.20 | 495.40 | 489.20 | 487.00 | 482.70 | 478.80 | 476.00 | 473.00 |
| 3744666.80  <br>471.40 | 504.20 | 495.50 | 491.40 | 488.00 | 483.20 | 479.00 | 475.30 | 473.70 |
| 3744566.80  <br>471.40 | 504.70 | 495.90 | 492.00 | 488.00 | 483.40 | 479.00 | 475.40 | 473.00 |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 13

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

\* ELEVATION HEIGHTS IN METERS \*

| Y-COORD  <br>(METERS) | 475928.31 | 476028.31 | 476128.31 | 476228.31 | 476328.31 | 476428.31 | 476528.31 |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 476628.31 476728.31   |           |           |           |           |           |           |           |

|                        |        |        |        |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3747066.80  <br>454.00 | 461.10 | 459.70 | 458.10 | 457.00 | 456.70 | 456.00 | 455.00 | 454.70 |
| 3746966.80  <br>454.00 | 462.00 | 460.00 | 458.20 | 457.00 | 456.70 | 456.00 | 455.10 | 455.00 |
| 3746866.80  <br>453.40 | 462.00 | 460.70 | 459.00 | 458.00 | 457.00 | 456.40 | 456.00 | 455.00 |
| 3746766.80  <br>453.60 | 462.10 | 461.00 | 460.00 | 458.30 | 457.70 | 457.00 | 456.00 | 455.00 |
| 3746666.80  <br>454.00 | 463.00 | 461.70 | 460.20 | 459.00 | 458.00 | 457.00 | 456.00 | 455.00 |
| 3746566.80  <br>454.40 | 463.10 | 462.00 | 461.00 | 460.00 | 458.70 | 457.00 | 456.10 | 455.00 |
| 3746466.80  <br>455.00 | 464.00 | 462.70 | 461.10 | 460.00 | 458.80 | 457.60 | 457.00 | 455.80 |
| 3746366.80  <br>455.00 | 464.70 | 463.00 | 461.80 | 460.10 | 459.00 | 458.00 | 457.10 | 456.00 |
| 3746266.80  <br>455.00 | 465.00 | 463.70 | 462.00 | 461.00 | 459.70 | 458.40 | 457.10 | 456.00 |
| 3746166.80  <br>454.60 | 465.00 | 463.00 | 462.00 | 461.00 | 460.00 | 459.00 | 458.00 | 456.00 |
| 3746066.80  <br>455.00 | 464.40 | 463.00 | 462.00 | 461.10 | 460.50 | 459.00 | 458.00 | 456.50 |
| 3745966.80  <br>455.00 | 464.10 | 463.00 | 461.40 | 460.10 | 461.00 | 459.40 | 458.00 | 456.00 |
| 3745866.80             | 465.00 | 463.00 | 461.40 | 460.10 | 460.00 | 460.00 | 458.00 | 456.00 |

Page 15

Seaton\_DPM\_R2\_Linearea.ADO

|            |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 454.40     |        |        |        |        |        |        |        |        |
| 3745766.80 | 465.00 | 463.00 | 462.00 | 460.70 | 459.90 | 459.10 | 458.00 | 456.70 |
| 455.40     |        |        |        |        |        |        |        |        |
| 3745666.80 | 465.00 | 463.00 | 462.40 | 461.00 | 460.00 | 459.00 | 458.00 | 457.00 |
| 455.40     |        |        |        |        |        |        |        |        |
| 3745566.80 | 465.30 | 464.00 | 463.00 | 461.10 | 460.00 | 459.00 | 458.00 | 457.00 |
| 455.40     |        |        |        |        |        |        |        |        |
| 3745466.80 | 466.70 | 464.70 | 463.10 | 462.00 | 460.90 | 459.80 | 458.10 | 457.00 |
| 456.00     |        |        |        |        |        |        |        |        |
| 3745366.80 | 467.00 | 464.70 | 463.00 | 462.00 | 461.00 | 460.00 | 458.10 | 457.00 |
| 456.00     |        |        |        |        |        |        |        |        |
| 3745266.80 | 467.00 | 465.00 | 463.60 | 462.30 | 461.00 | 460.00 | 458.30 | 457.00 |
| 456.00     |        |        |        |        |        |        |        |        |
| 3745166.80 | 467.00 | 465.90 | 464.40 | 463.00 | 461.00 | 460.00 | 459.00 | 457.70 |
| 456.40     |        |        |        |        |        |        |        |        |
| 3745066.80 | 468.00 | 467.00 | 465.40 | 464.00 | 461.70 | 460.00 | 459.00 | 458.00 |
| 457.00     |        |        |        |        |        |        |        |        |
| 3744966.80 | 469.10 | 467.00 | 465.40 | 464.00 | 462.00 | 460.40 | 459.10 | 458.00 |
| 457.10     |        |        |        |        |        |        |        |        |
| 3744866.80 | 469.00 | 467.00 | 465.40 | 464.00 | 462.00 | 460.40 | 459.00 | 457.70 |
| 457.00     |        |        |        |        |        |        |        |        |
| 3744766.80 | 469.00 | 467.00 | 465.40 | 464.00 | 462.70 | 461.00 | 460.00 | 458.00 |
| 456.40     |        |        |        |        |        |        |        |        |
| 3744666.80 | 469.10 | 467.70 | 466.00 | 464.30 | 463.00 | 461.40 | 460.00 | 458.70 |
| 457.00     |        |        |        |        |        |        |        |        |
| 3744566.80 | 469.00 | 467.70 | 466.00 | 465.00 | 463.00 | 462.00 | 461.00 | 459.50 |
| 457.60     |        |        |        |        |        |        |        |        |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 14

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

\* HILL HEIGHT SCALES IN METERS \*

| Y-COORD   | X-COORD (METERS) |           |           |           |           |           |           |
|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| (METERS)  | 475028.31        | 475128.31 | 475228.31 | 475328.31 | 475428.31 | 475528.31 | 475628.31 |
| 475728.31 | 475828.31        |           |           |           |           |           |           |

|            |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3747066.80 | 525.00 | 480.40 | 475.00 | 472.00 | 469.80 | 468.10 | 466.30 | 464.70 |
| 463.00     |        |        |        |        |        |        |        |        |
| 3746966.80 | 525.00 | 480.60 | 475.40 | 474.00 | 471.70 | 469.00 | 466.40 | 464.10 |
| 463.00     |        |        |        |        |        |        |        |        |
| 3746866.80 | 525.00 | 480.70 | 477.40 | 475.00 | 472.20 | 469.60 | 468.00 | 466.00 |
| 464.00     |        |        |        |        |        |        |        |        |
| 3746766.80 | 486.00 | 481.70 | 477.20 | 473.10 | 473.00 | 471.40 | 468.30 | 466.70 |
| 463.40     |        |        |        |        |        |        |        |        |
| 3746666.80 | 486.00 | 481.50 | 478.00 | 475.00 | 472.80 | 471.10 | 469.00 | 466.90 |
| 464.40     |        |        |        |        |        |        |        |        |
| 3746566.80 | 487.00 | 482.70 | 478.40 | 475.00 | 473.00 | 470.40 | 469.00 | 467.00 |
| 465.40     |        |        |        |        |        |        |        |        |
| 3746466.80 | 486.80 | 482.70 | 479.40 | 476.00 | 474.20 | 472.40 | 470.00 | 467.70 |
| 465.40     |        |        |        |        |        |        |        |        |

Seaton\_DPM\_R2\_Linearea.ADO

|            |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3746366.80 | 486.70 | 483.70 | 480.40 | 476.40 | 475.50 | 472.60 | 470.10 | 467.90 |
| 466.00     |        |        |        |        |        |        |        |        |
| 3746266.80 | 488.00 | 484.40 | 480.40 | 477.00 | 474.70 | 472.40 | 470.10 | 468.00 |
| 467.00     |        |        |        |        |        |        |        |        |
| 3746166.80 | 487.00 | 485.30 | 481.10 | 478.00 | 474.50 | 471.60 | 469.00 | 467.70 |
| 466.30     |        |        |        |        |        |        |        |        |
| 3746066.80 | 487.00 | 484.50 | 481.10 | 478.00 | 475.70 | 472.40 | 470.10 | 467.70 |
| 466.00     |        |        |        |        |        |        |        |        |
| 3745966.80 | 490.10 | 485.40 | 481.00 | 479.00 | 475.70 | 472.40 | 469.00 | 468.00 |
| 466.00     |        |        |        |        |        |        |        |        |
| 3745866.80 | 492.70 | 486.80 | 483.30 | 481.00 | 476.70 | 473.50 | 471.00 | 469.00 |
| 466.40     |        |        |        |        |        |        |        |        |
| 3745766.80 | 494.10 | 489.70 | 485.40 | 481.40 | 476.70 | 474.00 | 471.40 | 468.70 |
| 466.40     |        |        |        |        |        |        |        |        |
| 3745666.80 | 496.10 | 490.70 | 485.80 | 481.10 | 477.40 | 473.40 | 471.10 | 468.70 |
| 467.00     |        |        |        |        |        |        |        |        |
| 3745566.80 | 506.00 | 491.80 | 486.40 | 482.00 | 477.90 | 474.40 | 472.00 | 469.00 |
| 466.60     |        |        |        |        |        |        |        |        |
| 3745466.80 | 513.00 | 491.00 | 486.90 | 482.70 | 478.70 | 474.60 | 471.70 | 469.60 |
| 468.80     |        |        |        |        |        |        |        |        |
| 3745366.80 | 497.10 | 490.70 | 487.40 | 483.10 | 479.40 | 475.40 | 472.10 | 470.00 |
| 469.00     |        |        |        |        |        |        |        |        |
| 3745266.80 | 500.10 | 492.50 | 487.80 | 483.10 | 478.70 | 475.40 | 473.00 | 470.70 |
| 468.40     |        |        |        |        |        |        |        |        |
| 3745166.80 | 504.00 | 493.60 | 488.20 | 483.10 | 478.70 | 475.00 | 473.00 | 470.70 |
| 468.40     |        |        |        |        |        |        |        |        |
| 3745066.80 | 503.00 | 494.40 | 488.80 | 484.00 | 479.40 | 475.40 | 473.10 | 471.00 |
| 469.00     |        |        |        |        |        |        |        |        |
| 3744966.80 | 511.00 | 494.90 | 489.50 | 484.10 | 479.70 | 476.70 | 474.10 | 472.20 |
| 470.40     |        |        |        |        |        |        |        |        |
| 3744866.80 | 520.00 | 495.40 | 489.80 | 485.10 | 481.40 | 478.00 | 475.10 | 472.70 |
| 470.40     |        |        |        |        |        |        |        |        |
| 3744766.80 | 520.00 | 495.40 | 489.20 | 487.00 | 482.70 | 478.80 | 476.00 | 473.00 |
| 471.00     |        |        |        |        |        |        |        |        |
| 3744666.80 | 504.20 | 495.50 | 491.40 | 488.00 | 483.20 | 479.00 | 475.30 | 473.70 |
| 471.40     |        |        |        |        |        |        |        |        |
| 3744566.80 | 512.00 | 512.00 | 492.00 | 488.00 | 483.40 | 479.00 | 475.40 | 473.00 |
| 471.40     |        |        |        |        |        |        |        |        |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 15

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

\* HILL HEIGHT SCALES IN METERS \*

| Y-COORD   | X-COORD (METERS) |           |           |           |           |           |           |
|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| (METERS)  | 475928.31        | 476028.31 | 476128.31 | 476228.31 | 476328.31 | 476428.31 | 476528.31 |
| 476628.31 | 476728.31        |           |           |           |           |           |           |

|            |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3747066.80 | 461.10 | 459.70 | 458.10 | 457.00 | 456.70 | 456.00 | 455.00 | 454.70 |
| 454.00     |        |        |        |        |        |        |        |        |
| 3746966.80 | 462.00 | 460.00 | 458.20 | 457.00 | 456.70 | 456.00 | 455.10 | 455.00 |

Seaton\_DPM\_R2\_Linearea.ADO

|            |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 454.00     |        |        |        |        |        |        |        |        |
| 3746866.80 | 462.00 | 460.70 | 459.00 | 458.00 | 457.00 | 456.40 | 456.00 | 455.00 |
| 453.40     |        |        |        |        |        |        |        |        |
| 3746766.80 | 462.10 | 461.00 | 460.00 | 458.30 | 457.70 | 457.00 | 456.00 | 455.00 |
| 453.60     |        |        |        |        |        |        |        |        |
| 3746666.80 | 463.00 | 461.70 | 460.20 | 459.00 | 458.00 | 457.00 | 456.00 | 455.00 |
| 454.00     |        |        |        |        |        |        |        |        |
| 3746566.80 | 463.10 | 462.00 | 461.00 | 460.00 | 458.70 | 457.00 | 456.10 | 455.00 |
| 454.40     |        |        |        |        |        |        |        |        |
| 3746466.80 | 464.00 | 462.70 | 461.10 | 460.00 | 458.80 | 457.60 | 457.00 | 455.80 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3746366.80 | 464.70 | 463.00 | 461.80 | 460.10 | 459.00 | 458.00 | 457.10 | 456.00 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3746266.80 | 465.00 | 463.70 | 462.00 | 461.00 | 459.70 | 458.40 | 457.10 | 456.00 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3746166.80 | 465.00 | 463.00 | 462.00 | 461.00 | 460.00 | 459.00 | 458.00 | 456.00 |
| 454.60     |        |        |        |        |        |        |        |        |
| 3746066.80 | 464.40 | 463.00 | 462.00 | 461.10 | 460.50 | 459.00 | 458.00 | 456.50 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3745966.80 | 464.10 | 463.00 | 461.40 | 460.10 | 461.00 | 459.40 | 458.00 | 456.00 |
| 455.00     |        |        |        |        |        |        |        |        |
| 3745866.80 | 465.00 | 463.00 | 461.40 | 460.10 | 460.00 | 460.00 | 458.00 | 456.00 |
| 454.40     |        |        |        |        |        |        |        |        |
| 3745766.80 | 465.00 | 463.00 | 462.00 | 460.70 | 459.90 | 459.10 | 458.00 | 456.70 |
| 455.40     |        |        |        |        |        |        |        |        |
| 3745666.80 | 465.00 | 463.00 | 462.40 | 461.00 | 460.00 | 459.00 | 458.00 | 457.00 |
| 455.40     |        |        |        |        |        |        |        |        |
| 3745566.80 | 465.30 | 464.00 | 463.00 | 461.10 | 460.00 | 459.00 | 458.00 | 457.00 |
| 455.40     |        |        |        |        |        |        |        |        |
| 3745466.80 | 466.70 | 464.70 | 463.10 | 462.00 | 460.90 | 459.80 | 458.10 | 457.00 |
| 456.00     |        |        |        |        |        |        |        |        |
| 3745366.80 | 467.00 | 464.70 | 463.00 | 462.00 | 461.00 | 460.00 | 458.10 | 457.00 |
| 456.00     |        |        |        |        |        |        |        |        |
| 3745266.80 | 467.00 | 465.00 | 463.60 | 462.30 | 461.00 | 460.00 | 458.30 | 457.00 |
| 456.00     |        |        |        |        |        |        |        |        |
| 3745166.80 | 467.00 | 465.90 | 464.40 | 463.00 | 461.00 | 460.00 | 459.00 | 457.70 |
| 456.40     |        |        |        |        |        |        |        |        |
| 3745066.80 | 468.00 | 467.00 | 465.40 | 464.00 | 461.70 | 460.00 | 459.00 | 458.00 |
| 457.00     |        |        |        |        |        |        |        |        |
| 3744966.80 | 469.10 | 467.00 | 465.40 | 464.00 | 462.00 | 460.40 | 459.10 | 458.00 |
| 457.10     |        |        |        |        |        |        |        |        |
| 3744866.80 | 469.00 | 467.00 | 465.40 | 464.00 | 462.00 | 460.40 | 459.00 | 457.70 |
| 457.00     |        |        |        |        |        |        |        |        |
| 3744766.80 | 469.00 | 467.00 | 465.40 | 464.00 | 462.70 | 461.00 | 460.00 | 458.00 |
| 456.40     |        |        |        |        |        |        |        |        |
| 3744666.80 | 469.10 | 467.70 | 466.00 | 464.30 | 463.00 | 461.40 | 460.00 | 458.70 |
| 457.00     |        |        |        |        |        |        |        |        |
| 3744566.80 | 469.00 | 467.70 | 466.00 | 465.00 | 463.00 | 462.00 | 461.00 | 459.50 |
| 457.60     |        |        |        |        |        |        |        |        |

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 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 16

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*





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

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

1.54, 3.09, 5.14, 8.23, 10.80,

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
\*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 18

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

Surface file: ..\PerrisADJU\PERI\_V9\_ADJU\PERI\_v9.SFC

Met Version: 16216

Profile file: ..\PerrisADJU\PERI\_V9\_ADJU\PERI\_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171

Upper air station no.: 3190

Name: UNKNOWN

Name: UNKNOWN

Year: 2010

Year: 2010

First 24 hours of scalar data

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

| YR | MO | DY | JDY | HR | H0   | U*    | W*     | DT/DZ  | ZICNV | ZIMCH | M-O   | LEN  | Z0   | BOWEN | ALBEDO | REF  | WS  | WD    |     |
|----|----|----|-----|----|------|-------|--------|--------|-------|-------|-------|------|------|-------|--------|------|-----|-------|-----|
| 10 | 01 | 01 | 1   | 01 | -7.9 | 0.125 | -9.000 | -9.000 | -999. | 106.  | 21.2  | 0.19 | 0.61 | 1.00  | 1.30   | 335. | 9.1 | 282.5 | 5.5 |
| 10 | 01 | 01 | 1   | 02 | -3.9 | 0.088 | -9.000 | -9.000 | -999. | 62.   | 15.1  | 0.19 | 0.61 | 1.00  | 0.90   | 142. | 9.1 | 280.9 | 5.5 |
| 10 | 01 | 01 | 1   | 03 | -3.9 | 0.088 | -9.000 | -9.000 | -999. | 62.   | 15.1  | 0.19 | 0.61 | 1.00  | 0.90   | 324. | 9.1 | 280.4 | 5.5 |
| 10 | 01 | 01 | 1   | 04 | -1.3 | 0.064 | -9.000 | -9.000 | -999. | 39.   | 18.3  | 0.19 | 0.61 | 1.00  | 0.40   | 294. | 9.1 | 278.8 | 5.5 |
| 10 | 01 | 01 | 1   | 05 | -3.9 | 0.088 | -9.000 | -9.000 | -999. | 62.   | 15.0  | 0.19 | 0.61 | 1.00  | 0.90   | 205. | 9.1 | 278.1 | 5.5 |
| 10 | 01 | 01 | 1   | 06 | -1.3 | 0.065 | -9.000 | -9.000 | -999. | 39.   | 18.3  | 0.19 | 0.61 | 1.00  | 0.40   | 3.   | 9.1 | 277.0 | 5.5 |
| 10 | 01 | 01 | 1   | 07 | -8.0 | 0.125 | -9.000 | -9.000 | -999. | 106.  | 21.0  | 0.19 | 0.61 | 1.00  | 1.30   | 99.  | 9.1 | 277.0 | 5.5 |
| 10 | 01 | 01 | 1   | 08 | -3.3 | 0.086 | -9.000 | -9.000 | -999. | 61.   | 16.8  | 0.19 | 0.61 | 0.54  | 0.90   | 319. | 9.1 | 278.8 | 5.5 |
| 10 | 01 | 01 | 1   | 09 | 20.1 | 0.128 | 0.307  | 0.010  | 49.   | 110.  | -9.0  | 0.19 | 0.61 | 0.33  | 0.90   | 239. | 9.1 | 284.2 | 5.5 |
| 10 | 01 | 01 | 1   | 10 | 56.7 | 0.087 | 0.560  | 0.010  | 107.  | 62.   | -1.0  | 0.19 | 0.61 | 0.26  | 0.40   | 188. | 9.1 | 289.2 | 5.5 |
| 10 | 01 | 01 | 1   | 11 | 81.5 | 0.323 | 0.867  | 0.008  | 277.  | 441.  | -35.9 | 0.19 | 0.61 | 0.23  | 2.70   | 310. | 9.1 | 290.9 | 5.5 |
| 10 | 01 | 01 | 1   | 12 | 97.1 | 0.281 | 1.058  | 0.008  | 421.  | 357.  | -19.7 | 0.19 | 0.61 | 0.22  | 2.20   | 357. | 9.1 | 293.1 | 5.5 |
| 10 | 01 | 01 | 1   | 13 | 92.2 | 0.279 | 1.117  | 0.008  | 523.  | 354.  | -20.4 | 0.19 | 0.61 | 0.22  | 2.20   | 356. | 9.1 | 293.8 | 5.5 |
| 10 | 01 | 01 | 1   | 14 | 77.6 | 0.275 | 1.102  | 0.008  | 595.  | 347.  | -23.2 | 0.19 | 0.61 | 0.23  | 2.20   | 50.  | 9.1 | 294.2 | 5.5 |
| 10 | 01 | 01 | 1   | 15 | 54.9 | 0.230 | 1.006  | 0.008  | 640.  | 266.  | -19.2 | 0.19 | 0.61 | 0.27  | 1.80   | 53.  | 9.1 | 293.8 | 5.5 |
| 10 | 01 | 01 | 1   | 16 | 12.3 | 0.206 | 0.613  | 0.008  | 648.  | 225.  | -61.5 | 0.19 | 0.61 | 0.36  | 1.80   | 11.  | 9.1 | 292.5 | 5.5 |
| 10 | 01 | 01 | 1   | 17 | -3.6 | 0.087 | -9.000 | -9.000 | -999. | 71.   | 15.6  | 0.19 | 0.61 | 0.64  | 0.90   | 351. | 9.1 | 290.4 | 5.5 |
| 10 | 01 | 01 | 1   | 18 | -3.8 | 0.087 | -9.000 | -9.000 | -999. | 62.   | 15.2  | 0.19 | 0.61 | 1.00  | 0.90   | 186. | 9.1 | 287.5 | 5.5 |
| 10 | 01 | 01 | 1   | 19 | -3.8 | 0.087 | -9.000 | -9.000 | -999. | 62.   | 15.2  | 0.19 | 0.61 | 1.00  | 0.90   | 275. | 9.1 | 285.9 | 5.5 |
| 10 | 01 | 01 | 1   | 20 | -1.2 | 0.064 | -9.000 | -9.000 | -999. | 39.   | 18.1  | 0.19 | 0.61 | 1.00  | 0.40   | 181. | 9.1 | 285.4 | 5.5 |
| 10 | 01 | 01 | 1   | 21 | -7.8 | 0.125 | -9.000 | -9.000 | -999. | 106.  | 21.3  | 0.19 | 0.61 | 1.00  | 1.30   | 318. | 9.1 | 284.9 | 5.5 |
| 10 | 01 | 01 | 1   | 22 | -3.8 | 0.088 | -9.000 | -9.000 | -999. | 62.   | 15.1  | 0.19 | 0.61 | 1.00  | 0.90   | 196. | 9.1 | 283.1 | 5.5 |
| 10 | 01 | 01 | 1   | 23 | -3.8 | 0.088 | -9.000 | -9.000 | -999. | 62.   | 15.1  | 0.19 | 0.61 | 1.00  | 0.90   | 330. | 9.1 | 281.4 | 5.5 |
| 10 | 01 | 01 | 1   | 24 | -7.9 | 0.125 | -9.000 | -9.000 | -999. | 106.  | 21.2  | 0.19 | 0.61 | 1.00  | 1.30   | 332. | 9.1 | 280.9 | 5.5 |

Seaton\_DPM\_R2\_Linearea.ADO

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB\_TMP sigmaA sigmaW sigmaV  
 10 01 01 01 5.5 0 -999. -99.00 282.6 99.0 -99.00 -99.00  
 10 01 01 01 9.1 1 335. 1.30 -999.0 99.0 -99.00 -99.00

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

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 19

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: ALL

INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
 IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
 IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,  
 A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

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

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

| Y-COORD   | X-COORD (METERS) |           |           |           |           |           |           |  |
|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| (METERS)  | 475028.31        | 475128.31 | 475228.31 | 475328.31 | 475428.31 | 475528.31 | 475628.31 |  |
| 475728.31 | 475828.31        |           |           |           |           |           |           |  |

|            |         |         |         |         |         |         |         |         |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 3747066.80 | 0.00029 | 0.00030 | 0.00031 | 0.00032 | 0.00035 | 0.00042 | 0.00054 | 0.00056 |
| 0.00052    |         |         |         |         |         |         |         |         |
| 3746966.80 | 0.00031 | 0.00032 | 0.00033 | 0.00035 | 0.00038 | 0.00046 | 0.00123 | 0.00140 |
| 0.00145    |         |         |         |         |         |         |         |         |
| 3746866.80 | 0.00033 | 0.00035 | 0.00037 | 0.00038 | 0.00041 | 0.00047 | 0.00125 | 0.00085 |
| 0.00067    |         |         |         |         |         |         |         |         |
| 3746766.80 | 0.00035 | 0.00038 | 0.00040 | 0.00042 | 0.00045 | 0.00049 | 0.00073 | 0.00135 |
| 0.00068    |         |         |         |         |         |         |         |         |
| 3746666.80 | 0.00038 | 0.00042 | 0.00045 | 0.00047 | 0.00050 | 0.00053 | 0.00062 | 0.00102 |
| 0.00105    |         |         |         |         |         |         |         |         |
| 3746566.80 | 0.00041 | 0.00047 | 0.00052 | 0.00055 | 0.00057 | 0.00060 | 0.00065 | 0.00083 |
| 0.00225    |         |         |         |         |         |         |         |         |
| 3746466.80 | 0.00045 | 0.00053 | 0.00060 | 0.00065 | 0.00069 | 0.00071 | 0.00075 | 0.00088 |
| 0.00233    |         |         |         |         |         |         |         |         |
| 3746366.80 | 0.00050 | 0.00060 | 0.00072 | 0.00080 | 0.00085 | 0.00088 | 0.00090 | 0.00102 |
| 0.00243    |         |         |         |         |         |         |         |         |
| 3746266.80 | 0.00054 | 0.00069 | 0.00086 | 0.00101 | 0.00109 | 0.00113 | 0.00115 | 0.00124 |
| 0.00274    |         |         |         |         |         |         |         |         |
| 3746166.80 | 0.00059 | 0.00078 | 0.00103 | 0.00129 | 0.00144 | 0.00150 | 0.00151 | 0.00157 |
| 0.00304    |         |         |         |         |         |         |         |         |
| 3746066.80 | 0.00062 | 0.00087 | 0.00121 | 0.00161 | 0.00190 | 0.00201 | 0.00206 | 0.00202 |
| 0.00348    |         |         |         |         |         |         |         |         |
| 3745966.80 | 0.00062 | 0.00091 | 0.00136 | 0.00194 | 0.00249 | 0.00270 | 0.00279 | 0.00265 |
| 0.00297    |         |         |         |         |         |         |         |         |
| 3745866.80 | 0.00059 | 0.00089 | 0.00139 | 0.00217 | 0.00313 | 0.00359 | 0.00386 | 0.00356 |
| 0.00312    |         |         |         |         |         |         |         |         |
| 3745766.80 | 0.00056 | 0.00082 | 0.00130 | 0.00221 | 0.00373 | 0.00476 | 0.00518 | 0.00471 |

Seaton\_DPM\_R2\_Linearea.ADO

|            |         |         |         |         |         |         |         |         |  |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| 0.00487    |         |         |         |         |         |         |         |         |  |
| 3745666.80 | 0.00053 | 0.00076 | 0.00117 | 0.00202 | 0.00415 | 0.00676 | 0.00682 | 0.00676 |  |
| 0.00546    |         |         |         |         |         |         |         |         |  |
| 3745566.80 | 0.00048 | 0.00071 | 0.00108 | 0.00177 | 0.00386 | 0.01033 | 0.00798 | 0.01097 |  |
| 0.00541    |         |         |         |         |         |         |         |         |  |
| 3745466.80 | 0.00047 | 0.00069 | 0.00103 | 0.00172 | 0.00331 | 0.01468 | 0.00990 | 0.01621 |  |
| 0.00652    |         |         |         |         |         |         |         |         |  |
| 3745366.80 | 0.00046 | 0.00067 | 0.00098 | 0.00153 | 0.00271 | 0.00565 | 0.00713 | 0.00746 |  |
| 0.00773    |         |         |         |         |         |         |         |         |  |
| 3745266.80 | 0.00042 | 0.00061 | 0.00088 | 0.00129 | 0.00206 | 0.00348 | 0.00482 | 0.00516 |  |
| 0.00488    |         |         |         |         |         |         |         |         |  |
| 3745166.80 | 0.00039 | 0.00054 | 0.00076 | 0.00108 | 0.00162 | 0.00245 | 0.00329 | 0.00382 |  |
| 0.00368    |         |         |         |         |         |         |         |         |  |
| 3745066.80 | 0.00034 | 0.00047 | 0.00064 | 0.00088 | 0.00126 | 0.00178 | 0.00230 | 0.00275 |  |
| 0.00277    |         |         |         |         |         |         |         |         |  |
| 3744966.80 | 0.00031 | 0.00041 | 0.00054 | 0.00073 | 0.00098 | 0.00131 | 0.00165 | 0.00195 |  |
| 0.00204    |         |         |         |         |         |         |         |         |  |
| 3744866.80 | 0.00028 | 0.00035 | 0.00045 | 0.00059 | 0.00076 | 0.00098 | 0.00121 | 0.00140 |  |
| 0.00149    |         |         |         |         |         |         |         |         |  |
| 3744766.80 | 0.00024 | 0.00030 | 0.00039 | 0.00048 | 0.00061 | 0.00076 | 0.00090 | 0.00102 |  |
| 0.00110    |         |         |         |         |         |         |         |         |  |
| 3744666.80 | 0.00021 | 0.00027 | 0.00033 | 0.00040 | 0.00049 | 0.00060 | 0.00069 | 0.00077 |  |
| 0.00083    |         |         |         |         |         |         |         |         |  |
| 3744566.80 | 0.00019 | 0.00024 | 0.00028 | 0.00034 | 0.00041 | 0.00049 | 0.00055 | 0.00061 |  |
| 0.00065    |         |         |         |         |         |         |         |         |  |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 20

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
 IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
 IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,  
 A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

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

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

| Y-COORD             | X-COORD (METERS) |           |           |           |           |           |           |  |
|---------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| (METERS)            | 475928.31        | 476028.31 | 476128.31 | 476228.31 | 476328.31 | 476428.31 | 476528.31 |  |
| 476628.31 476728.31 |                  |           |           |           |           |           |           |  |

|            |         |         |         |         |         |         |         |         |  |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| 3747066.80 | 0.00043 | 0.00031 | 0.00025 | 0.00022 | 0.00020 | 0.00018 | 0.00017 | 0.00015 |  |
| 0.00014    |         |         |         |         |         |         |         |         |  |
| 3746966.80 | 0.00135 | 0.00034 | 0.00027 | 0.00024 | 0.00021 | 0.00019 | 0.00018 | 0.00016 |  |
| 0.00015    |         |         |         |         |         |         |         |         |  |
| 3746866.80 | 0.00056 | 0.00040 | 0.00030 | 0.00026 | 0.00023 | 0.00021 | 0.00019 | 0.00017 |  |
| 0.00016    |         |         |         |         |         |         |         |         |  |
| 3746766.80 | 0.00051 | 0.00041 | 0.00033 | 0.00028 | 0.00025 | 0.00022 | 0.00020 | 0.00018 |  |
| 0.00016    |         |         |         |         |         |         |         |         |  |

Seaton\_DPM\_R2\_Linearea.ADO

|            |         |         |         |         |         |         |         |         |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 3746666.80 | 0.00055 | 0.00044 | 0.00037 | 0.00031 | 0.00027 | 0.00024 | 0.00021 | 0.00019 |
| 0.00017    |         |         |         |         |         |         |         |         |
| 3746566.80 | 0.00064 | 0.00049 | 0.00041 | 0.00034 | 0.00030 | 0.00026 | 0.00023 | 0.00020 |
| 0.00018    |         |         |         |         |         |         |         |         |
| 3746466.80 | 0.00075 | 0.00056 | 0.00046 | 0.00038 | 0.00032 | 0.00028 | 0.00024 | 0.00021 |
| 0.00019    |         |         |         |         |         |         |         |         |
| 3746366.80 | 0.00088 | 0.00066 | 0.00053 | 0.00043 | 0.00036 | 0.00030 | 0.00026 | 0.00023 |
| 0.00020    |         |         |         |         |         |         |         |         |
| 3746266.80 | 0.00105 | 0.00080 | 0.00062 | 0.00049 | 0.00040 | 0.00033 | 0.00028 | 0.00024 |
| 0.00021    |         |         |         |         |         |         |         |         |
| 3746166.80 | 0.00129 | 0.00096 | 0.00072 | 0.00056 | 0.00044 | 0.00036 | 0.00030 | 0.00025 |
| 0.00022    |         |         |         |         |         |         |         |         |
| 3746066.80 | 0.00161 | 0.00115 | 0.00084 | 0.00063 | 0.00049 | 0.00039 | 0.00032 | 0.00027 |
| 0.00023    |         |         |         |         |         |         |         |         |
| 3745966.80 | 0.00208 | 0.00134 | 0.00094 | 0.00069 | 0.00053 | 0.00042 | 0.00034 | 0.00028 |
| 0.00024    |         |         |         |         |         |         |         |         |
| 3745866.80 | 0.00372 | 0.00151 | 0.00102 | 0.00075 | 0.00057 | 0.00045 | 0.00036 | 0.00029 |
| 0.00025    |         |         |         |         |         |         |         |         |
| 3745766.80 | 0.00295 | 0.00163 | 0.00111 | 0.00080 | 0.00060 | 0.00047 | 0.00037 | 0.00030 |
| 0.00025    |         |         |         |         |         |         |         |         |
| 3745666.80 | 0.00259 | 0.00167 | 0.00117 | 0.00084 | 0.00062 | 0.00047 | 0.00038 | 0.00031 |
| 0.00026    |         |         |         |         |         |         |         |         |
| 3745566.80 | 0.00254 | 0.00168 | 0.00121 | 0.00088 | 0.00064 | 0.00049 | 0.00039 | 0.00032 |
| 0.00026    |         |         |         |         |         |         |         |         |
| 3745466.80 | 0.00286 | 0.00191 | 0.00143 | 0.00104 | 0.00070 | 0.00051 | 0.00040 | 0.00032 |
| 0.00027    |         |         |         |         |         |         |         |         |
| 3745366.80 | 0.00424 | 0.00300 | 0.00267 | 0.00201 | 0.00075 | 0.00054 | 0.00042 | 0.00034 |
| 0.00028    |         |         |         |         |         |         |         |         |
| 3745266.80 | 0.00338 | 0.00215 | 0.00160 | 0.00241 | 0.00081 | 0.00056 | 0.00043 | 0.00035 |
| 0.00029    |         |         |         |         |         |         |         |         |
| 3745166.80 | 0.00300 | 0.00211 | 0.00157 | 0.00241 | 0.00086 | 0.00059 | 0.00045 | 0.00036 |
| 0.00030    |         |         |         |         |         |         |         |         |
| 3745066.80 | 0.00248 | 0.00193 | 0.00152 | 0.00237 | 0.00088 | 0.00062 | 0.00048 | 0.00039 |
| 0.00032    |         |         |         |         |         |         |         |         |
| 3744966.80 | 0.00193 | 0.00162 | 0.00139 | 0.00231 | 0.00088 | 0.00065 | 0.00053 | 0.00045 |
| 0.00036    |         |         |         |         |         |         |         |         |
| 3744866.80 | 0.00144 | 0.00130 | 0.00119 | 0.00221 | 0.00088 | 0.00070 | 0.00065 | 0.00068 |
| 0.00062    |         |         |         |         |         |         |         |         |
| 3744766.80 | 0.00109 | 0.00102 | 0.00096 | 0.00294 | 0.00092 | 0.00091 | 0.00191 | 0.00075 |
| 0.00045    |         |         |         |         |         |         |         |         |
| 3744666.80 | 0.00083 | 0.00080 | 0.00076 | 0.00094 | 0.00133 | 0.00114 | 0.00060 | 0.00045 |
| 0.00036    |         |         |         |         |         |         |         |         |
| 3744566.80 | 0.00065 | 0.00064 | 0.00062 | 0.00064 | 0.00079 | 0.00066 | 0.00048 | 0.00039 |
| 0.00032    |         |         |         |         |         |         |         |         |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 21

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: ALL \*\*\*

INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
 IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
 IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,  
 A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

\*\*\* 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    |
|-------------|-------------|---------|-------------|-------------|---------|
| 475582.07   | 3745571.80  | 0.00928 | 475635.03   | 3745571.37  | 0.00774 |
| 475635.68   | 3745590.96  | 0.00768 | 475677.33   | 3745570.30  | 0.01104 |
| 475674.83   | 3745600.77  | 0.00917 | 475675.67   | 3745642.32  | 0.00775 |
| 475634.39   | 3745620.72  | 0.00746 | 475616.66   | 3745641.21  | 0.00715 |
| 475772.62   | 3745574.73  | 0.00850 | 475633.01   | 3745671.96  | 0.00677 |
| 475676.50   | 3745663.10  | 0.00715 | 475586.47   | 3745596.62  | 0.00911 |
| 475585.92   | 3745619.33  | 0.00790 | 475579.82   | 3745648.42  | 0.00728 |
| 475572.62   | 3745671.96  | 0.00671 | 475534.39   | 3745578.33  | 0.01133 |
| 475520.27   | 3745639.00  | 0.00776 | 475434.39   | 3745594.68  | 0.00430 |
| 475428.30   | 3745632.90  | 0.00416 | 475380.66   | 3745623.49  | 0.00273 |
| 475377.89   | 3745470.30  | 0.00246 | 475365.42   | 3745385.82  | 0.00193 |
| 475423.04   | 3745339.00  | 0.00238 | 475480.93   | 3745332.35  | 0.00341 |
| 475424.47   | 3745298.14  | 0.00219 | 475427.54   | 3745260.18  | 0.00202 |
| 475486.97   | 3745297.37  | 0.00310 | 475482.75   | 3745252.52  | 0.00260 |
| 475570.93   | 3745333.03  | 0.00573 | 475605.05   | 3745334.95  | 0.00627 |
| 475649.91   | 3745327.66  | 0.00613 | 475682.50   | 3745321.53  | 0.00598 |
| 475373.10   | 3745326.13  | 0.00176 | 475311.37   | 3745381.72  | 0.00143 |
| 475371.85   | 3745581.26  | 0.00239 | 475732.59   | 3745583.35  | 0.01063 |
| 475773.41   | 3745665.62  | 0.00614 |             |             |         |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 22

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
 IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
 IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,  
 A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

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

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

| Y-COORD            | X-COORD (METERS)   |                    |                    |                    |           |
|--------------------|--------------------|--------------------|--------------------|--------------------|-----------|
| (METERS)           | 475028.31          | 475128.31          | 475228.31          | 475328.31          | 475428.31 |
| 3747066.8          | 0.00302 (15081722) | 0.00281 (16072206) | 0.00237 (16080506) | 0.00222 (16110107) |           |
| 0.00218 (15042606) |                    |                    |                    |                    |           |
| 3746966.8          | 0.00330 (10071501) | 0.00305 (16080422) | 0.00259 (16080506) | 0.00251 (15080806) |           |
| 0.00242 (16051406) |                    |                    |                    |                    |           |
| 3746866.8          | 0.00358 (10071501) | 0.00334 (15080121) | 0.00310 (16080506) | 0.00284 (15080806) |           |
| 0.00268 (11050506) |                    |                    |                    |                    |           |
| 3746766.8          | 0.00399 (16072422) | 0.00378 (15081722) | 0.00344 (16072206) | 0.00301 (15080806) |           |

Seaton\_DPM\_R2\_Linearea.ADO

|                                |                    |                    |                    |  |
|--------------------------------|--------------------|--------------------|--------------------|--|
| 0.00306 (11050506)             |                    |                    |                    |  |
| 3746666.8   0.00444 (15100922) | 0.00428 (10071501) | 0.00407 (16080422) | 0.00376 (15081603) |  |
| 0.00354 (11050506)             |                    |                    |                    |  |
| 3746566.8   0.00510 (11090702) | 0.00515 (16072422) | 0.00496 (15080121) | 0.00473 (15081603) |  |
| 0.00431 (16101907)             |                    |                    |                    |  |
| 3746466.8   0.00600 (16091820) | 0.00623 (15100922) | 0.00632 (15081722) | 0.00626 (16080506) |  |
| 0.00581 (15081603)             |                    |                    |                    |  |
| 3746366.8   0.00722 (16062923) | 0.00779 (16073121) | 0.00826 (10071501) | 0.00840 (14073122) |  |
| 0.00797 (15081603)             |                    |                    |                    |  |
| 3746266.8   0.00884 (15101120) | 0.00993 (16091820) | 0.01077 (11070801) | 0.01138 (14073122) |  |
| 0.01073 (15081603)             |                    |                    |                    |  |
| 3746166.8   0.01093 (10082424) | 0.01258 (14072502) | 0.01386 (14090804) | 0.01515 (16080422) |  |
| 0.01479 (15081603)             |                    |                    |                    |  |
| 3746066.8   0.01340 (14050420) | 0.01552 (14090620) | 0.01774 (16091820) | 0.01974 (14070921) |  |
| 0.01960 (15081603)             |                    |                    |                    |  |
| 3745966.8   0.01573 (16082520) | 0.01903 (14050420) | 0.02164 (14072502) | 0.02453 (11070801) |  |
| 0.02540 (15081603)             |                    |                    |                    |  |
| 3745866.8   0.01812 (11082920) | 0.02204 (11082705) | 0.02540 (14090723) | 0.02795 (11083019) |  |
| 0.03053 (14073122)             |                    |                    |                    |  |
| 3745766.8   0.02100 (15091920) | 0.02475 (16080622) | 0.02876 (15062220) | 0.02959 (14070421) |  |
| 0.03421 (10071501)             |                    |                    |                    |  |
| 3745666.8   0.02146 (14062220) | 0.02638 (11090521) | 0.03147 (15091920) | 0.03098 (15101320) |  |
| 0.03412 (16062923)             |                    |                    |                    |  |
| 3745566.8   0.02009 (16102119) | 0.02554 (14071420) | 0.02987 (14071420) | 0.03123 (14062220) |  |
| 0.03211 (15091920)             |                    |                    |                    |  |
| 3745466.8   0.02027 (11080723) | 0.02554 (11080723) | 0.02987 (15071721) | 0.03001 (15062421) |  |
| 0.03134 (15062421)             |                    |                    |                    |  |
| 3745366.8   0.01893 (14090720) | 0.02247 (14090720) | 0.02525 (16072820) | 0.02210 (11092805) |  |
| 0.02779 (11092122)             |                    |                    |                    |  |
| 3745266.8   0.01740 (16072820) | 0.02037 (14102419) | 0.02227 (10092621) | 0.02382 (11062101) |  |
| 0.02773 (10083120)             |                    |                    |                    |  |
| 3745166.8   0.01484 (14091624) | 0.01801 (10092621) | 0.01982 (16071822) | 0.02224 (11081821) |  |
| 0.02731 (14080803)             |                    |                    |                    |  |
| 3745066.8   0.01287 (10092621) | 0.01517 (15080306) | 0.01760 (11100120) | 0.02017 (14073121) |  |
| 0.02307 (15090903)             |                    |                    |                    |  |
| 3744966.8   0.01097 (15080306) | 0.01280 (15090824) | 0.01446 (11081821) | 0.01641 (10083120) |  |
| 0.01826 (16062823)             |                    |                    |                    |  |
| 3744866.8   0.00943 (15090824) | 0.01074 (11100120) | 0.01199 (11092122) | 0.01300 (16062622) |  |
| 0.01419 (16062823)             |                    |                    |                    |  |
| 3744766.8   0.00784 (11101221) | 0.00881 (16082102) | 0.00974 (16081902) | 0.01043 (14051521) |  |
| 0.01090 (16062823)             |                    |                    |                    |  |
| 3744666.8   0.00668 (11100120) | 0.00747 (11081821) | 0.00802 (16073002) | 0.00846 (14051521) |  |
| 0.00856 (16062823)             |                    |                    |                    |  |
| 3744566.8   0.00580 (11081821) | 0.00637 (15081820) | 0.00671 (16073002) | 0.00700 (14051521) |  |
| 0.00693 (16062823)             |                    |                    |                    |  |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE  
 GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
 IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
 IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,

Page 25

Seaton\_DPM\_R2\_Linearea.ADO

A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

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

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

| Y-COORD  <br>(METERS)          | 475528.31          | 475628.31          | 475728.31          | 475828.31 | 475928.31 |
|--------------------------------|--------------------|--------------------|--------------------|-----------|-----------|
| 3747066.8   0.00244 (14080606) | 0.00340 (14092007) | 0.00353 (16102207) | 0.00333 (15102407) |           |           |
| 0.00317 (16050606)             |                    |                    |                    |           |           |
| 3746966.8   0.00246 (14080606) | 0.00692 (15021508) | 0.00576 (16092807) | 0.00589 (14060606) |           |           |
| 0.00551 (10060506)             |                    |                    |                    |           |           |
| 3746866.8   0.00259 (10032507) | 0.00514 (14051606) | 0.00367 (15102407) | 0.00332 (14011408) |           |           |
| 0.00302 (16050606)             |                    |                    |                    |           |           |
| 3746766.8   0.00300 (10032507) | 0.00329 (16062906) | 0.00543 (15071806) | 0.00403 (14102307) |           |           |
| 0.00341 (16011008)             |                    |                    |                    |           |           |
| 3746666.8   0.00347 (14080606) | 0.00333 (15102407) | 0.00375 (15102407) | 0.00553 (14102307) |           |           |
| 0.00399 (16011008)             |                    |                    |                    |           |           |
| 3746566.8   0.00417 (14080606) | 0.00419 (15102407) | 0.00448 (15102407) | 0.00862 (10021508) |           |           |
| 0.00477 (10080406)             |                    |                    |                    |           |           |
| 3746466.8   0.00551 (10071604) | 0.00563 (10082704) | 0.00570 (16110321) | 0.00949 (16062723) |           |           |
| 0.00597 (10080406)             |                    |                    |                    |           |           |
| 3746366.8   0.00733 (15082519) | 0.00783 (15090922) | 0.00743 (10082704) | 0.01145 (10081923) |           |           |
| 0.00853 (16062723)             |                    |                    |                    |           |           |
| 3746266.8   0.01023 (15082519) | 0.01089 (14050222) | 0.01106 (16062723) | 0.01467 (11070823) |           |           |
| 0.01170 (10092801)             |                    |                    |                    |           |           |
| 3746166.8   0.01409 (15082519) | 0.01478 (10081923) | 0.01542 (10092801) | 0.01862 (11070823) |           |           |
| 0.01590 (16062005)             |                    |                    |                    |           |           |
| 3746066.8   0.01945 (15082519) | 0.02014 (11070823) | 0.02050 (15090921) | 0.02352 (16062723) |           |           |
| 0.02125 (16021618)             |                    |                    |                    |           |           |
| 3745966.8   0.02534 (15082519) | 0.02582 (16062723) | 0.02666 (11070203) | 0.02897 (16062723) |           |           |
| 0.02915 (11070203)             |                    |                    |                    |           |           |
| 3745866.8   0.03180 (15082519) | 0.03639 (16062723) | 0.03443 (11072602) | 0.03658 (16062005) |           |           |
| 0.03901 (14091504)             |                    |                    |                    |           |           |
| 3745766.8   0.03701 (15082519) | 0.04250 (16021618) | 0.04102 (11090520) | 0.04894 (11070203) |           |           |
| 0.04257 (15062723)             |                    |                    |                    |           |           |
| 3745666.8   0.04495 (15090922) | 0.05462 (10082503) | 0.04977 (15090922) | 0.05974 (11090520) |           |           |
| 0.05480 (14091123)             |                    |                    |                    |           |           |
| 3745566.8   0.04324 (11101321) | 0.07021 (15062721) | 0.07495 (15052606) | 0.09777 (10090405) |           |           |
| 0.08119 (14100705)             |                    |                    |                    |           |           |
| 3745466.8   0.07721 (15092022) | 0.07191 (10092622) | 0.08886 (11012217) | 0.10076 (11071624) |           |           |
| 0.08199 (11081421)             |                    |                    |                    |           |           |
| 3745366.8   0.04807 (14060822) | 0.05576 (10082523) | 0.05104 (16082302) | 0.06186 (14092523) |           |           |
| 0.05776 (16083021)             |                    |                    |                    |           |           |
| 3745266.8   0.03713 (14060822) | 0.04418 (15101221) | 0.04252 (11082522) | 0.04738 (11090624) |           |           |
| 0.04329 (11082724)             |                    |                    |                    |           |           |
| 3745166.8   0.03157 (15092524) | 0.03780 (11082823) | 0.03595 (15091222) | 0.03722 (16093021) |           |           |
| 0.03555 (15092023)             |                    |                    |                    |           |           |
| 3745066.8   0.02555 (15092524) | 0.02824 (16082302) | 0.02881 (11090624) | 0.02955 (16082302) |           |           |
| 0.02886 (16060321)             |                    |                    |                    |           |           |
| 3744966.8   0.01966 (15092524) | 0.02108 (14082124) | 0.02174 (16061823) | 0.02107 (16082302) |           |           |
| 0.02097 (15101221)             |                    |                    |                    |           |           |
| 3744866.8   0.01465 (15092524) | 0.01581 (15060724) | 0.01647 (11082823) | 0.01527 (11090624) |           |           |



Seaton\_DPM\_R2\_Linearea.ADO

|                    |                                |                    |                    |                    |
|--------------------|--------------------------------|--------------------|--------------------|--------------------|
| 0.01540 (16093021) | 3744766.8   0.01088 (16073005) | 0.01166 (16091923) | 0.01189 (16082302) | 0.01077 (14082124) |
| 0.01116 (10081922) | 3744666.8   0.00832 (16072924) | 0.00842 (14060822) | 0.00806 (15080206) | 0.00788 (16093021) |
| 0.00795 (15080206) | 3744566.8   0.00658 (15092721) | 0.00623 (14060822) | 0.00590 (16091923) | 0.00589 (15080206) |
| 0.00576 (15080206) |                                |                    |                    |                    |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE  
 GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
 IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
 IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,  
 A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

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

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

| Y-COORD                        | X-COORD (METERS)   |                    |                    |           |           |
|--------------------------------|--------------------|--------------------|--------------------|-----------|-----------|
| (METERS)                       | 476028.31          | 476128.31          | 476228.31          | 476328.31 | 476428.31 |
| 3747066.8   0.00259 (10080406) | 0.00222 (15031707) | 0.00209 (10050806) | 0.00199 (10010808) |           |           |
| 0.00189 (15013108)             |                    |                    |                    |           |           |
| 3746966.8   0.00280 (16060306) | 0.00234 (15031707) | 0.00222 (10050806) | 0.00211 (10010808) |           |           |
| 0.00201 (10050406)             |                    |                    |                    |           |           |
| 3746866.8   0.00277 (10080406) | 0.00254 (10100607) | 0.00240 (10010808) | 0.00225 (15013108) |           |           |
| 0.00215 (10050406)             |                    |                    |                    |           |           |
| 3746766.8   0.00308 (10080406) | 0.00282 (10050806) | 0.00263 (10010808) | 0.00246 (10050406) |           |           |
| 0.00231 (16011908)             |                    |                    |                    |           |           |
| 3746666.8   0.00352 (16011008) | 0.00320 (10010808) | 0.00299 (10010808) | 0.00273 (10081806) |           |           |
| 0.00251 (16011908)             |                    |                    |                    |           |           |
| 3746566.8   0.00429 (10080406) | 0.00384 (10010808) | 0.00353 (14120721) | 0.00315 (10050406) |           |           |
| 0.00284 (16120608)             |                    |                    |                    |           |           |
| 3746466.8   0.00549 (15101223) | 0.00505 (11070203) | 0.00444 (10081806) | 0.00377 (16102801) |           |           |
| 0.00332 (11111021)             |                    |                    |                    |           |           |
| 3746366.8   0.00737 (16021618) | 0.00677 (11080903) | 0.00569 (14091504) | 0.00487 (11070702) |           |           |
| 0.00404 (14020708)             |                    |                    |                    |           |           |
| 3746266.8   0.01041 (11070203) | 0.00925 (10081806) | 0.00787 (10082503) | 0.00632 (10110320) |           |           |
| 0.00503 (15102519)             |                    |                    |                    |           |           |
| 3746166.8   0.01462 (11080903) | 0.01238 (10082705) | 0.01050 (11090520) | 0.00825 (15082924) |           |           |
| 0.00649 (10090323)             |                    |                    |                    |           |           |
| 3746066.8   0.01950 (10081806) | 0.01695 (11081824) | 0.01373 (15082924) | 0.01072 (16110907) |           |           |
| 0.00822 (16100504)             |                    |                    |                    |           |           |
| 3745966.8   0.02603 (10082503) | 0.02157 (15082924) | 0.01748 (10090323) | 0.01398 (15101019) |           |           |
| 0.00998 (10011721)             |                    |                    |                    |           |           |
| 3745866.8   0.03181 (15082924) | 0.02690 (11080422) | 0.02233 (10080401) | 0.01705 (16051701) |           |           |
| 0.01248 (15090104)             |                    |                    |                    |           |           |
| 3745766.8   0.03905 (15070104) | 0.03455 (16110520) | 0.02729 (15090104) | 0.02001 (11083022) |           |           |

Page 27

Seaton\_DPM\_R2\_Linearea.ADO

|                                |                    |                    |                    |  |
|--------------------------------|--------------------|--------------------|--------------------|--|
| 0.01394 (14110821)             |                    |                    |                    |  |
| 3745666.8   0.05140 (11083022) | 0.04321 (10082602) | 0.03267 (10071603) | 0.02169 (10071603) |  |
| 0.01442 (10081501)             |                    |                    |                    |  |
| 3745566.8   0.06449 (10100120) | 0.04895 (10110421) | 0.03461 (11090606) | 0.02336 (11090606) |  |
| 0.01509 (11090606)             |                    |                    |                    |  |
| 3745466.8   0.06478 (16082921) | 0.04859 (16100923) | 0.03484 (11090502) | 0.02341 (11090502) |  |
| 0.01495 (11090502)             |                    |                    |                    |  |
| 3745366.8   0.05499 (14090622) | 0.04645 (14051522) | 0.03629 (16041723) | 0.02232 (15120919) |  |
| 0.01481 (11081421)             |                    |                    |                    |  |
| 3745266.8   0.03940 (11081321) | 0.03511 (10071805) | 0.03066 (11080223) | 0.02092 (14090622) |  |
| 0.01446 (14051522)             |                    |                    |                    |  |
| 3745166.8   0.03192 (10071704) | 0.02741 (16062003) | 0.02548 (11070301) | 0.01781 (10071805) |  |
| 0.01273 (16092605)             |                    |                    |                    |  |
| 3745066.8   0.02595 (16072724) | 0.02180 (11081722) | 0.02072 (14072624) | 0.01422 (11081321) |  |
| 0.01046 (11080301)             |                    |                    |                    |  |
| 3744966.8   0.01949 (10082524) | 0.01680 (16081401) | 0.01666 (14091604) | 0.01129 (14072624) |  |
| 0.00858 (10082024)             |                    |                    |                    |  |
| 3744866.8   0.01454 (16060321) | 0.01222 (16072724) | 0.01350 (11082522) | 0.00885 (11090723) |  |
| 0.00674 (10062402)             |                    |                    |                    |  |
| 3744766.8   0.01031 (11090624) | 0.00898 (10082524) | 0.01144 (16072724) | 0.00697 (10081802) |  |
| 0.00543 (11081524)             |                    |                    |                    |  |
| 3744666.8   0.00709 (16071324) | 0.00659 (16062623) | 0.00607 (15080502) | 0.00603 (14092523) |  |
| 0.00638 (14092424)             |                    |                    |                    |  |
| 3744566.8   0.00521 (14082020) | 0.00491 (11090901) | 0.00449 (16030320) | 0.00493 (11081605) |  |
| 0.00488 (11101822)             |                    |                    |                    |  |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 25

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE  
 GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
 IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
 IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,  
 A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

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

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

| Y-COORD  | X-COORD (METERS) |           |           |
|----------|------------------|-----------|-----------|
| (METERS) | 476528.31        | 476628.31 | 476728.31 |

|                                |                    |                    |  |
|--------------------------------|--------------------|--------------------|--|
| 3747066.8   0.00182 (10050406) | 0.00174 (16011908) | 0.00166 (16120608) |  |
| 3746966.8   0.00192 (16011908) | 0.00182 (11010608) | 0.00174 (16120608) |  |
| 3746866.8   0.00203 (16011908) | 0.00193 (16120608) | 0.00183 (14020608) |  |
| 3746766.8   0.00217 (16120608) | 0.00204 (14020608) | 0.00193 (14020708) |  |
| 3746666.8   0.00234 (16120608) | 0.00217 (16071206) | 0.00204 (14020708) |  |
| 3746566.8   0.00260 (14020608) | 0.00237 (14020708) | 0.00218 (10011708) |  |
| 3746466.8   0.00295 (14020708) | 0.00261 (10011708) | 0.00236 (10011108) |  |
| 3746366.8   0.00343 (10011708) | 0.00294 (10011108) | 0.00257 (10122108) |  |
| 3746266.8   0.00405 (10083101) | 0.00337 (10122108) | 0.00281 (11020723) |  |

Page 28

Seaton\_DPM\_R2\_Linearea.ADO

|           |                    |                    |                    |
|-----------|--------------------|--------------------|--------------------|
| 3746166.8 | 0.00502 (11080422) | 0.00382 (11072023) | 0.00308 (14120803) |
| 3746066.8 | 0.00595 (10080401) | 0.00447 (10011721) | 0.00347 (11091703) |
| 3745966.8 | 0.00726 (16051701) | 0.00522 (15090104) | 0.00374 (15090104) |
| 3745866.8 | 0.00815 (16040121) | 0.00567 (11092224) | 0.00414 (11102007) |
| 3745766.8 | 0.00948 (15101501) | 0.00644 (10071603) | 0.00441 (15010908) |
| 3745666.8 | 0.00944 (14100705) | 0.00626 (11060804) | 0.00438 (10072522) |
| 3745566.8 | 0.00960 (11090606) | 0.00625 (11090606) | 0.00432 (16102621) |
| 3745466.8 | 0.00933 (11090502) | 0.00601 (11090502) | 0.00408 (16102324) |
| 3745366.8 | 0.00960 (15092922) | 0.00637 (16101704) | 0.00448 (16111023) |
| 3745266.8 | 0.00971 (16081922) | 0.00650 (16041723) | 0.00430 (16041723) |
| 3745166.8 | 0.00847 (10071424) | 0.00591 (15011308) | 0.00434 (14101507) |
| 3745066.8 | 0.00756 (11082605) | 0.00547 (16092605) | 0.00392 (10080504) |
| 3744966.8 | 0.00627 (10080206) | 0.00470 (10100922) | 0.00367 (10052002) |
| 3744866.8 | 0.00525 (15101807) | 0.00404 (14032518) | 0.00399 (15101507) |
| 3744766.8 | 0.00787 (15101507) | 0.00508 (15101807) | 0.00396 (15032007) |
| 3744666.8 | 0.00452 (16103107) | 0.00378 (11102907) | 0.00327 (10072806) |
| 3744566.8 | 0.00385 (10121608) | 0.00329 (16103107) | 0.00294 (11102907) |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 26

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

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

INCLUDING SOURCE(S): IB22 , IB23 , IB24 , IB25 , IB26 ,  
 IB27 , IB28 , IB21 , IB11 , IB12 , IB13 , IB14 , IB15 ,  
 IB16 , IB17 , IB18 , FP2 , FP1 , A0000001 , A0000002 , A0000003 ,  
 A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , ...

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

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

| X-COORD (M)<br>CONC (YYMMDDHH) | Y-COORD (M) | CONC (YYMMDDHH)    | X-COORD (M) | Y-COORD (M) | CONC (YYMMDDHH) |
|--------------------------------|-------------|--------------------|-------------|-------------|-----------------|
| 475582.07<br>(15062721)        | 3745571.80  | 0.07099 (14082822) | 475635.03   | 3745571.37  | 0.06556         |
| 475635.68<br>(16062921)        | 3745590.96  | 0.06370 (15101019) | 475677.33   | 3745570.30  | 0.05923         |
| 475674.83<br>(10090323)        | 3745600.77  | 0.05546 (16110520) | 475675.67   | 3745642.32  | 0.05144         |
| 475634.39<br>(11090520)        | 3745620.72  | 0.05921 (10082422) | 475616.66   | 3745641.21  | 0.05833         |
| 475772.62<br>(10082503)        | 3745574.73  | 0.10063 (16070106) | 475633.01   | 3745671.96  | 0.05365         |
| 475676.50<br>(11090520)        | 3745663.10  | 0.05056 (10082422) | 475586.47   | 3745596.62  | 0.08535         |
| 475585.92<br>(11070203)        | 3745619.33  | 0.06345 (10082503) | 475579.82   | 3745648.42  | 0.05873         |
| 475572.62<br>(15100921)        | 3745671.96  | 0.05255 (15082804) | 475534.39   | 3745578.33  | 0.06897         |
| 475520.27<br>(14050420)        | 3745639.00  | 0.04666 (15101121) | 475434.39   | 3745594.68  | 0.03206         |

Seaton\_DPM\_R2\_Linearea.ADO

|            |            |         |            |           |            |         |
|------------|------------|---------|------------|-----------|------------|---------|
| 475428.30  | 3745632.90 | 0.03200 | (15082720) | 475380.66 | 3745623.49 | 0.03093 |
| (15101320) |            |         |            |           |            |         |
| 475377.89  | 3745470.30 | 0.03032 | (15062421) | 475365.42 | 3745385.82 | 0.02227 |
| (15070120) |            |         |            |           |            |         |
| 475423.04  | 3745339.00 | 0.02863 | (11092122) | 475480.93 | 3745332.35 | 0.03433 |
| (15090903) |            |         |            |           |            |         |
| 475424.47  | 3745298.14 | 0.02897 | (14073121) | 475427.54 | 3745260.18 | 0.02756 |
| (10083120) |            |         |            |           |            |         |
| 475486.97  | 3745297.37 | 0.03435 | (15081422) | 475482.75 | 3745252.52 | 0.03236 |
| (15081422) |            |         |            |           |            |         |
| 475570.93  | 3745333.03 | 0.05198 | (16082302) | 475605.05 | 3745334.95 | 0.05299 |
| (11090624) |            |         |            |           |            |         |
| 475649.91  | 3745327.66 | 0.04976 | (11082721) | 475682.50 | 3745321.53 | 0.04799 |
| (16081401) |            |         |            |           |            |         |
| 475373.10  | 3745326.13 | 0.02525 | (11062101) | 475311.37 | 3745381.72 | 0.02373 |
| (16072820) |            |         |            |           |            |         |
| 475371.85  | 3745581.26 | 0.03136 | (15070102) | 475732.59 | 3745583.35 | 0.07632 |
| (10082705) |            |         |            |           |            |         |
| 475773.41  | 3745665.62 | 0.05924 | (11070203) |           |            |         |

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
 \*\*\* 09/18/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

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

| GROUP ID | AVERAGE CONC  | NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE |
|----------|---|--|
| ALL      | 0.01621 AT ( 475728.31, 3745466.80, 469.60, 469.60, 0.00) | GC   |
| UCART1   | 1ST HIGHEST VALUE IS                                      |  |
| UCART1   | 2ND HIGHEST VALUE IS                                      |  |
| UCART1   | 3RD HIGHEST VALUE IS                                      |  |
| UCART1   | 4TH HIGHEST VALUE IS                                      |  |
| UCART1   | 5TH HIGHEST VALUE IS                                      |  |
| UCART1   | 6TH HIGHEST VALUE IS                                      |  |
| UCART1   | 7TH HIGHEST VALUE IS                                      |  |
| UCART1   | 8TH HIGHEST VALUE IS                                      |  |
| UCART1   | 9TH HIGHEST VALUE IS                                      |  |
| UCART1   | 10TH HIGHEST VALUE IS                                     |  |

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

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
\*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 28

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

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

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

ALL HIGH 1ST HIGH VALUE IS 0.10076 ON 11071624: AT ( 475828.31, 3745466.80, 468.80, 468.80, 0.00) GC UCART1

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

♀ \*\*\* AERMOD - VERSION 21112 \*\*\* Seaton and Perry Street Annual DPM - Expanded TRU Operations  
\*\*\* 09/18/21

\*\*\* AERMET - VERSION 16216 \*\*\* Offsite Alternative 2 \*\*\* 13:49:26

PAGE 29

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

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

- A Total of 0 Fatal Error Message(s)
- A Total of 20 Warning Message(s)
- A Total of 2028 Informational Message(s)
- A Total of 43824 Hours Were Processed
- A Total of 978 Calm Hours Identified
- A Total of 1050 Missing Hours Identified ( 2.40 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

|         |     |  |    |
|---------|-----|--|----|
| SO W320 | 191 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 192 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 193 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 194 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 195 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 196 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |

Seaton\_DPM\_R2\_Linearea.ADO

|         |       |   |            |
|---------|-------|---|------------|
| SO W320 | 197   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 198   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 199   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 200   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 201   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 202   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 203   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 204   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 205   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| SO W320 | 206   | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS         |
| ME W186 | 913   | MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used  | 0.50       |
| ME W187 | 913   | MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET |            |
| MX W450 | 17521 | CHKDAT: Record Out of Sequence in Meteorological File at: | 14010101   |
| MX W450 | 17521 | CHKDAT: Record Out of Sequence in Meteorological File at: | 2 year gap |

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

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