APPENDIX A

NOTICE OF PREPARATION (NOP) AND COMMENT LETTERS

Notice of Preparation

SUBJECT: Notice of Preparation of a Draft Environmental Impact Report for the John Smith

Road Landfill Expansion

Lead Agency:

Agency Name: County of San Benito Planning and Land Use Division of the Resources Management

Agency

Address: 2301 Technology Parkway

Hollister, CA 95023

The County of San Benito Planning and Land Use Division of the Resources Management Agency will be the lead agency and will prepare an environmental impact report (EIR) for the project identified below, in accordance with the process set forth in an agreement with the applicant. We need to know the views of your agency as to the scope and content of the environmental information which is germane to your agency's statutory responsibilities in connection with the proposed project. Your agency may need to use the EIR prepared by our agency when considering your permit or other project approval.

The project description, location and the potential environmental effects are contained in the attached materials. This information is also posted on the County's website at: https://www.cosb.us/departments/resource-management-agency/planning-and-land-use-division.

Due to the time limits mandated by State law, your response must be sent at the earliest possible date, but not later than **30 days after receipt of this notice.** Please send your response to Stan Ketchum, Principal Planner, at the address shown above or at Sketchum@cosb.us. We will need the name of a contact person in your agency.

Pursuant to the public participation goals of CEQA, the County, in its role as lead agency, will hold two public scoping meetings to allow an opportunity for the public and representatives of the public agencies and other organizations to provide input on the scope of the EIR. The meetings will be held as virtual Zoom meetings. The scoping meeting schedule and Zoom meeting instructions are included on the following page.

Project Title: John Smith Road Landfill Expansion

Project Applicant: Waste Solutions Group of San Benito, LLC

Date: February 22, 2021 Signature:

Stan Ketchum, Principal Planner

Telephone: (831) 637-5313

Reference: California Code of Resources, Title 14, (CEQA Guidelines) Sections 15082(a), 15103, 15375

Public Scoping Meetings Zoom Instructions

Topic: Public Scoping Meeting for the John Smith Road Landfill Expansion Environmental Impact Report

Time: Mar 10, 2021 02:00 PM Pacific Time (US and Canada)

Join Zoom Meeting

https://zoom.us/j/98161618293?pwd=TlhYSzlKZjlKWm1wTjdZc0tvR2lUdz09

Meeting ID: 981 6161 8293

Passcode: 457359 One tap mobile

+16699006833,,98161618293# US (San Jose) +14086380968,,98161618293# US (San Jose)

Dial by your location

- +1 669 900 6833 US (San Jose)
- +1 408 638 0968 US (San Jose)
- +1 346 248 7799 US (Houston)
- +1 253 215 8782 US (Tacoma)
- +1 301 715 8592 US (Washington DC)
- +1 312 626 6799 US (Chicago)
- +1 646 876 9923 US (New York)

Meeting ID: 981 6161 8293

Find your local number: https://zoom.us/u/abIWP0nelx

Topic: Public Scoping Meeting for the John Smith Road Landfill Expansion Environmental Impact Report

Time: Mar 11, 2021 06:00 PM Pacific Time (US and Canada)

Join Zoom Meeting

https://zoom.us/j/93747153162?pwd=Ynd0WXJGV3ZCcHFkdkFZSFNvRWJyQT09

Meeting ID: 937 4715 3162

Passcode: 326148 One tap mobile

+14086380968,,93747153162# US (San Jose) +16699006833,,93747153162# US (San Jose)

Dial by your location

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- +1 646 876 9923 US (New York)

Meeting ID: 937 4715 3162

NOTICE OF PREPARATION

DATE: February 22, 2021

TO: Agencies and Interested Parties

FROM: San Benito County Planning and Land Use Division

SUBJECT: Notice of Preparation of a Draft Environmental Impact Report for the John Smith Road

Landfill Expansion Project

REVIEW PERIOD: February 22, 2021 to March 23, 2021

The San Benito County Planning and Land Use Division is the lead agency and will prepare an Environmental Impact Report (EIR) for the John Smith Road Landfill Expansion Project (proposed project). The project is being proposed by Waste Solutions of San Benito, LLC and is described in detail below. In compliance with the California Environmental Quality Act (CEQA) (Public Resources Code [PRC] Section 21000 et seq.), the Planning and Land Use Division is distributing this Notice of Preparation (NOP) to the Office of Planning and Research, each responsible agency, interested parties, and federal agencies involved in approving the project, and to trustee agencies responsible for natural resources affected by the project.

PURPOSE OF THIS NOTICE OF PREPARATION

In accordance with the State CEQA Guidelines (14 California Code of Regulations [CCR] Section 15082), the Planning and Land Use Division has prepared this NOP to inform agencies and interested parties that an EIR will be prepared for the proposed project. The purpose of an NOP is to provide sufficient information about the proposed project and its potential environmental impacts to allow agencies and interested parties the opportunity to provide a meaningful response related to the scope and content of the EIR, including mitigation measures that should be considered and alternatives that should be addressed (State CEQA Guidelines 14 CCR Section 15082[b]).

PROJECT LOCATION

The proposed project site is located at the John Smith Road Landfill (JSRL) and on lands directly east, north and west of the JSRL (Figure 1). The JSRL is located at 2650 John Smith Road approximately 2 miles directly east of the eastern boundary of the City of Hollister. The site is located in a hilly rural area east of the Hollister Valley and west of the rural Santa Ana Valley in unincorporated San Benito County. Access to the site is provided from John Smith Road.

The existing 95.16-acre JSRL includes two parcels owned by San Benito County that total 90.05 acres (Assessor Parcel Numbers [APN] 025-190-073 and 025-190-074) and one 5.11-acre parcel owned by the City of Hollister (APN 025-190-072). The two county-owned parcels contain an operating Class III landfill. Class III landfills only accept non-hazardous waste for disposal. The City of Hollister parcel includes a closed Class I waste disposal area covering less than an acre. Class I landfills may accept both hazardous and nonhazardous wastes for disposal. The County also owns 101.3 acres directly south of the JSRL and John Smith Road (APN 025-190-075) (Figure 2).

PROJECT DESCRIPTION

The proposed project includes a 388.05-acre expansion of the existing 95.16-acre JSRL. This expansion would increase the landfill's disposal capacity, expand the total waste footprint, increase the maximum permitted elevation of the final landfill, and increase the maximum permitted daily tonnage accepted at the JRSL.

To accommodate these changes, several operational changes are also being proposed. These include expanding the landfill entrance area to accommodate additional daily vehicle arrivals and reduce vehicle queuing on John Smith Road, expanding areas for recycling and the County's Household Hazardous Waste program, establishing

an area for the future installation of a gas-to-energy facility, and clean closing the current Class I area owned by the City of Hollister and converting it to a disposal area for Class III waste. Additionally, the proposed project would potentially include the use of a portion of the San Benito County property located south of John Smith Road for habitat mitigation purposes. See Figures 2 and 3 for additional explanation of the proposed project.

These proposed project components are described in more detail below.

Landfill Area and Capacity Expansion

The proposed project includes expanding the existing 95.16-acre landfill onto a 388.05-acre parcel surrounding the landfill on the east, north and west, the ownership of which is proposed to be transferred to the County. The proposed expansion would increase the landfill's disposal capacity from approximately 9.35 million cubic yards to 58 million cubic yards. This expansion would increase the waste footprint from 58 acres to 253 acres, with the remaining acreage used for roads, soil stockpiles, stormwater detention basins, and open space/habitat mitigation. In addition to expanding the landfill footprint, the maximum permitted elevation of the final landfill would increase to 949 feet above mean sea level (MSL), a 29-foot increase above the current permitted elevation of 920 feet MSL. The anticipated site life of the project would vary depending on the final waste density and the long-term waste acceptance rate. However, the remaining site life would be expected to range between 50 and 100 years.

Soil from the landfill footprint would be excavated to create individual waste disposal modules and the excavated soil would be used to form perimeter berms, and for daily, intermediate, and final landfill cover. Excavated soil would be stored on the site in stockpiles and the locations of these stockpiles would vary over time depending upon the site's operational needs.

Both permanent and temporary stormwater basins would be constructed and used during the winter for sediment retention and to store stormwater. Stored stormwater would typically be used for dust suppression and for construction purposes. As required by Title 27 CCR, stormwater conveyances and basins would be designed to accommodate a 24-hour, 100-year rainfall event.

As required by State and Federal standards, the existing groundwater, surface-water, landfill-gas monitoring, and leachate collection and recovery systems would be expanded incrementally, based on landfill sequencing and development, into the expansion area.

If habitat preservation or restoration is necessary to offset biological impacts associated with the proposed landfill expansion, a 70-acre area of the 101.3-acre County property located south of John Smith Road is available and may be used for these purposes. If used as habitat mitigation, these lands would include a conservation easement with a management plan that would ensure they are protected in perpetuity.

Increase in Permitted Tonnage Limit

The proposed project would increase the landfill's permitted daily tonnage limit from 1,000 tons per day to 2,300 tons per day for waste to be buried. The tonnage for materials that would not be buried at the site, including recyclables, materials for beneficial re-use, and direct transfer materials, would not be included in this total. On average, these materials add approximately 25% to the total tonnage of materials delivered to the site.

Site Traffic Changes

Refuse delivered by the general public in small loads typically make up the majority of the vehicle trips to the site, especially on weekends. Large commercial loads comprise the largest tonnage but only a fraction of the total loads received. In 2019, 78% of the tonnage received at the landfill was imported in large trucks from areas outside San Benito County. The significant increase in daily tonnage allowed will generate a proportionate increase in the number of long-distance trips by the commercial trucks importing out-of-county waste. Increases in vehicle miles travelled (VMT)and associated air quality and green-house gas (GHG) emissions are expected to occur.

Site records indicate the largest number of trips do not occur on the days when the highest tonnage is received. Over the past four years (2016-2019 calendar years), all the peak traffic days occurred on Saturdays,

predominantly comprised of local public loads. The San Benito Regional Transportation Plan for 2040 (RTP) forecasts a population growth of 32% between 2015 and 2040 for San Benito County. Using the highest peak-traffic-day over the past four years of 499 trips (2017) and the projected growth reflected in the RTP, the projected peak-traffic-day through 2040 would be 659 vehicles per day entering the site on a weekend. This represents an increase of 59 vehicles over the existing Solid Waste Facility Permit's daily limit of 600 vehicles.

Landfill Entrance Expansion

The project proposes to increase the size of the landfill entrance area from approximately 2.7 acres to 7.3 acres and would provide: (1) a larger area for recycling and the County household hazardous waste (HHW) facility, (2) a larger area for employee and visitor parking, (3) an area for a truck wheel wash facility to ensure mud and debris are not tracked onto John Smith Road, (4) an area for equipment maintenance, and (5) an area for a future landfill gas-to-energy facility (once the landfill generates enough landfill gas to support such a facility).

The revised entrance would increase the queuing length during operating hours from the current 800 feet to 820 feet and provide two inbound lanes when needed, thereby almost doubling the queuing capacity. It also provides the geometry to add second entrance and exit scales in the future so that two vehicles can be weighed at the same time, both inbound and outbound, thereby doubling the transaction capacity.

The new entrance area would be constructed by excavating roughly 240,000 cubic yards of weathered bedrock. This soil would be used to construct access roads and a visual berm in the landfill expansion area or stockpiled for future use.

Landfill Gas-to-Energy Facility

Landfill gas is generated through the anaerobic (without oxygen) decay of organic materials buried within landfills. Landfill gas typically contains 50 to 60 percent methane, which is the primary constituent of natural gas. Landfill gas is currently combusted in an on-site landfill-gas flare. The proposed project will ultimately include the installation of a landfill gas-to-energy facility once sufficient landfill gas is being generated at the site to make the facility economically viable. The landfill is projected to be generating sufficient landfill gas to support a landfill gas-to-energy facility within approximately five years. The landfill gas-to-energy facility is proposed to be located northeast of the gatehouse near the landfill entrance area.

Class I Area Clean Closure

The 5.11-acre parcel owned by the City of Hollister that contains a closed Class 1 disposal facility of less than one acre is proposed to be converted to a disposal area for Class III waste. The existing stockpiled soil that is located on this parcel would be used in ongoing landfill operations. After all of the stockpiled soil is used, a clean closure plan would be prepared for approval by the California Department of Toxic Substances Control and the Central Coast Regional Water Quality Control Board. The clean closure plan would identify how contaminated materials would be managed. Compliance sampling would be required to confirm clean closure of the Class I site. Once all Class I waste was removed, the area would be converted into a Class III waste disposal module. This would include installing a landfill liner and leachate collection and removal system, similar to other Class III modules at the project site. This component of the project would only be implemented if determined to be cost effective. The City of Hollister owns this parcel and has indicated their willingness for the clean closure, as well as future re-use of the site for the Class III disposal location.

Queuing Length is the distance from the intersection of the entrance road and John Smith Road to the gatehouse and represents the length of entrance roadway on which vehicles can line up to enter the facility without backing up vehicle traffic on John Smith Road.

REQUIRED PERMITS AND APPROVALS

The project would need the following discretionary approvals from the County.

General Plan Amendment

The existing JSRL has a General Plan land use designation of Public/Quasi-Public (PQP) and the 388.05-acre expansion site currently has two land use designations: Rangeland (RG) and Agriculture (A). The proposed project includes a General Plan amendment to change the designation of the expansion site to PQP to be consistent with the existing JSRL and to accommodate the proposed waste disposal activities. The PQP land use designation allows, among other uses, landfills, recycling, and resource recovery facilities.

Conditional Use Permit

The existing JSRL and proposed expansion are within areas zoned Agriculture Production (AP) and Agricultural Rangeland (AR). The San Benito County Code sections §25.07.005 and §25.29.106 establish uses conditionally permitted within AR and AP zoned areas, including Governmental enterprises and/or private enterprise performing governmental functions (federal, state and local). The JSRL qualifies as a private enterprise performing a governmental function. As such, a Conditional Use Permit is required.

Transfer of Ownership to San Benito County

Upon project approval, the applicant will transfer ownership of the project site to the County.

Other Approvals

The project also may require approvals from other local, state, and federal governmental agencies, including the United States Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW), California Department of Toxic Substances and Regional Water Quality Control Board (RWQCB).

POTENTIAL ENVIRONMENTAL IMPACTS

The environmental issues to be addressed in the Draft EIR are anticipated to include those listed below. The Draft EIR will also identify detailed mitigation measures intended to minimize significant environmental impacts.

- Aesthetics
- Air Quality and Odors
- Cultural and Tribal Resources
- Geology, Soils, and Paleontology
- Hazards and Hazardous Materials
- Land Use and Planning
- Public Services
- Public Health and Safety
- Utilities and Service Systems

- Agricultural Resources
- Biological Resources
- Energy
- Greenhouse Gas Emissions and Climate Change
- Hydrology and Water Quality
- Noise
- Transportation/Traffic
- Wildfire

Other CEQA Sections, including alternatives, growth-inducing impacts, and cumulative Impacts

Aesthetics

The existing John Smith Road Landfill is a prominent visual feature in the nearby area and changes to the landfill and associated solid waste management operations anticipated with project implementation could alter the site's existing visual character.

Agricultural Resources

The expansion of the solid waste operations onto agricultural grazing lands would reduce the acres of land committed to agriculture within the County.

Air Quality and Odors

During project construction, criteria air pollutant emissions would be temporarily and intermittently generated. Operation of the proposed project would result in air pollutant emissions from the solid waste management operations and from vehicle trips generated by the project. Construction- and operations-related emissions could contribute to regional emissions. The expanded landfill operations could also change odor generation that could affect rural residents.

Biological Resources

Special-status plant or wildlife species could potentially occur on the project site. Implementation of the proposed project could result in disturbance or take of special- status species or disturbance or removal of suitable habitat for these species.

Cultural and Tribal Resources

Although no known prehistoric or historic resources have been identified on the project site, excavation activities necessary to construct landfill modules and other solid waste elements have the potential to disturb unknown archaeological or tribal cultural resources. Tribal consultation is required to occur as early as possible in the process.

Energy

The expansion in solid waste operations at the site would increase total energy demand both during project construction and operations. The construction of a landfill gas-to-energy facility could offset some of the energy demands of the landfill operations.

Geology, Soils, and Paleontology

The project site is situated in a seismically active geologic province. Soil disturbance activities associated with individual project elements could increase soil erosion or affect soil stability. The stability of the expanded landfill could be affected by seismic activities or soil instability. Also, excavation activities have the potential to expose unknown paleontological resources.

Greenhouse Gas Emissions and Climate Change

Greenhouse gas emissions are anticipated to be generated during project construction and operations. Emissions would be associated with vehicle trips, on-site equipment usage, increased energy demand, and ongoing and expanded solid waste operations.

Hazards and Hazardous Materials

The anticipated construction activities and expanded solid waste operations proposed at the site have the potential to increase the transport, use, and storage of hazardous materials that could represent a risk to the public.

Hydrology and Water Quality

Expansion of the solid waste disposal activities would alter the site's hydrology and could affect the quality of the water discharged from the site.

Land Use and Planning

The proposed project would alter land uses on the property that will be evaluated in the context of the policies included in the San Benito County General Plan and San Benito County Code.

Noise

The expanded construction and solid waste operations at the site would increase noise generation and introduce new noise sources that could affect rural residents.

Public Services

Project implementation could increase the demands on local fire protection, law enforcement, and road maintenance services.

Transportation/Traffic

The expanded construction and solid waste operations at the site would increase vehicle trips on local roadways associated with new passenger vehicle and truck haul trips, which would increase vehicle miles traveled, in particular with the potential increase in importation of out-of-county waste.

Utilities and Service Systems

The expanded construction and solid waste operations at the site would increase the demand on site utilities including water supply and wastewater services, and solid waste disposal.

Wildfires

The expansion of solid waste activities onto the surrounding grasslands could alter wildland fire risks within the

Cumulative Impacts

Implementation of the proposed project could potentially result in significant impacts to the above resource areas. When taken together with the effects of past projects, other current projects, and probable future projects, the project's contribution to the overall cumulative effect of all these activities could be considerable.

ALTERNATIVES TO BE EVALUATED IN THE EIR

In accordance with the State CEQA Guidelines (14 CCR Section 15126.6), the EIR will describe a range of reasonable alternatives to the proposed project that are capable of meeting most of the project's objectives, and that would avoid or substantially lessen any of the significant effects of the project. The EIR will also identify any alternatives that were considered but rejected by the lead agency as infeasible and briefly explain the reasons why. The EIR will provide an analysis of the No-Project Alternative and will also identify the environmentally superior alternative.

DOCUMENTS AVAILABLE FOR REVIEW

The NOP is available for public review at the following location:

San Benito County Planning and Land Use Division 2301 Technology Parkway Hollister, CA 95023-9174

The NOP is also available for public review on the Planning and Land Use Division's website: https://www.cosb.us/departments/resource-management-agency/planning-and-land-use-division

COMMENTS ON NOP

Agencies and interested parties may provide the Planning and Land Use Division with written comments on topics to be addressed in the EIR for the project. Because of time limits mandated by State law, comments must be provided at the earliest date possible but no later than 5:00 pm on February 8, 2021. Please direct all written comments to the following address:

San Benito County Planning and Land Use Division 2301 Technology Parkway Hollister, CA 95023-9174 Attention: Stan Ketchum Email: SKetchum@cosb.us

Agencies that will need to use the EIR when considering permits or other approvals for the proposed project should provide the name of a contact person. Comments provided by email should include "John Smith Road Landfill Expansion Project NOP" in the subject line and the name and address of the commenter in the email body.

All written comments pertaining to environmental issues received during the NOP comment period will be considered and addressed in the Draft EIR, which is anticipated to be available for public review in late spring 2021.

SCOPING MEETINGS

To assist in local participation, two Public Scoping Meetings will be held to present the proposed project and to solicit input from the public and responsible agencies on the content of the Draft EIR. The scoping meetings will be held virtually to minimize exposure to Covid-19. The Zoom meeting instructions are included on the following page.

Public Scoping Meetings Zoom Instructions

Topic: Public Scoping Meeting for the John Smith Road Landfill Expansion Environmental Impact Report

Time: Mar 10, 2021 02:00 PM Pacific Time (US and Canada)

Join Zoom Meeting

https://zoom.us/j/98161618293?pwd=TlhYSzlKZjlKWm1wTjdZc0tvR2lUdz09

Meeting ID: 981 6161 8293

Passcode: 457359 One tap mobile

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Meeting ID: 981 6161 8293

Find your local number: https://zoom.us/u/abIWP0nelx

Topic: Public Scoping Meeting for the John Smith Road Landfill Expansion Environmental Impact Report

Time: Mar 11, 2021 06:00 PM Pacific Time (US and Canada)

Join Zoom Meeting

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+1 312 626 6799 US (Chicago)

+1 646 876 9923 US (New York)

Meeting ID: 937 4715 3162

John Smith Road Landfill Expansion Project

List of Notice of Preparation Comment Letters and Location Where Issued Are Address in the Draft EIR

| Commenter | Comment Summary | Location Where Comments Addressed in Draft EIR | | |
|---|--|---|--|--|
| State Agencies | | | | |
| California Department of Fish and Wildlife | The commenter raises concerns regarding potential species impacts. | The commenter is referred to Section 4.6, Biological Resources, for a discussion of species impacts. | | |
| California Department of Toxic Substances Control (DTSC) | The commenter identifies DTSC's role as a responsible agency regarding the Class I Area. | The commenter is referred to Chapter 3, Project Description, for a discussion of the proposed project's clean closure activities within the Class I Area. | | |
| California Department of Transportation | The commenter raises concerns regarding traffic and vehicle miles traveled. | The commenter is referred to Section 4.2, Traffic and Transportation, for a discussion of traffic impacts and vehicle miles traveled. | | |
| CalRecycle Department of Resources Recycling and Recovery | The commenter requests that specific clarifications be provided in the project description. | The commenter is referred to Chapter 3, Project Description, for the requested clarifications. | | |
| Native American Heritage Commission | The commenter identifies the regulatory requirements regarding historic resources and tribal cultural resources. | The commenter is referred to Section 4.7, Cultural Resources, for a discussion of the project's effects on historic resources and tribal cultural resources. | | |
| Regional and Local Ag | gencies | | | |
| Best Road Mutual Water District | The commenter raises concerns regarding water quality. | The commenter is referred to Section 4.8, Hydrology and Water Quality, for a discussion of water quality impacts. | | |
| County of Santa Clara | The commenter raises concerns regarding the project's haul route and operating schedule. | The commenter is referred to Chapter 3, Project Description, for a discussion of the project's haul route for out-of-County vehicles and operation schedule. The commenter is referred to Section 4.2, Traffic and Transportation, for a discussion of traffic impacts. | | |
| Monterey Bay Air Resources District | The commenter raises concerns regarding potential air quality impacts. | The commenter is referred to Section 4.3, Air Quality and Section 4.4, Greenhouse Gas Emissions, for a discussion of air quality impacts. | | |
| San Benito High School | The commenter raises concerns regarding potential health effects. | The commenter is referred to Section 4.3, Air Quality, for a discussion of health effects. | | |
| Individuals | | | | |
| Caitlin Bynum | The commenter raises concerns regarding the project's effects on | The commenter is referred to Section 4.2, Traffic and Transportation; Section | | |

| | traffic, groundwater contamination and wildlife. | 4.6, Biological Resources; and Section 4.12, Public Services, Utilities and Energy, for a discussion of these issues. |
|---|---|--|
| John Freeman | The commenter discusses the power generating capacity of the landfill and states that the recycling center at the site needs to be expanded. The commenter also recommends a transfer station be located in Hollister. | The commenter is referred to Chapter 3, Project Description, for a discussion of the project's components. For a discussion of a transfer station alternative, the commenter is referred to Chapter 6, Alternatives. |
| Kent Gordon et al. | The commenter raises concerns regarding the project objectives and the lack of alternatives to the proposed project. The commenter further raises concerns regarding the project's effects on traffic, air pollution, dust, odors, noise unsightly views, and groundwater contamination. | The commenter is referred to Chapter 3, Project Description, for a discussion of the project's objectives. The commenter is referred to Chapter 6, Alternatives, for a discussion of alternatives to the proposed project. The commenter is also referred to Section 4.2, Traffic and Transportation; Section 4.3, Air Quality; Section 4.5, Noise; Section 4.8, Hydrology and Water Quality; Section 4.10, Hazards, Hazardous Materials and Energy; and Section 4.11, Aesthetics, for a discussion of these issues. |
| Hydie McDonald | The commenter suggests that the landfill should only receive waste from San Benito County residents and that the County should consider other alternative locations. The commenter raises concerns regarding traffic, roadway wear, traffic noise, and litter from incorrectly tarped vehicles. | The commenter is referred to Chapter 3, Project Description, for a discussion of the project's objectives. The commenter is referred to Chapter 6, Alternatives, for a discussion of alternatives to the proposed project. The commenter is also referred to Section 4.2, Traffic and Transportation; Section 4.5, Noise; and Section 4.10, Hazards, Hazardous Materials and Energy, for a discussion of these issues. |
| Kathryn L. Oehlschlager, Downey Brand LLP | The commenter requests notification of any project developments. | The commenter will be notified of any project developments. |
| Tyler Siegert | The commenter raises concerns regarding the project's effects on hazardous intersection conditions, ground water contamination, wildlife, and road degradation. The commenter also asks who is proposing the project. | The commenter is also referred to Section 4.2, Traffic and Transportation; Section 4.6, Biological Resources; Section 4.8, Hydrology and Water Quality, for a discussion of these issues. The project proponent is Waste Solutions Group of San Benito, LLC. |
| Sally Silva | The commenter raises concerns regarding the project's effects on hazardous intersection conditions, | The commenter is also referred to Chapter 3, Project Description; Section 4.2, Traffic and Transportation; Section |

| | litter generation and its effects on | 4.10, Hazards, Hazardous Materials and |
|-----------------|--------------------------------------|---|
| | livestock, operating hours, and | Energy; and Section 4.11, Aesthetics, for |
| | visual impacts. | a discussion of these issues. |
| Sharon Thompson | The commenter raises concerns | The commenter is referred to Section |
| Sharon mompson | regarding the project's effects on | 4.2, Traffic and Transportation; Section |
| | 1 | • |
| | traffic, roadway wear, noise, | 4.5, Noise; Section 4.6, Biological |
| | wildlife, groundwater | Resources; Section 4.8, Hydrology and |
| | contamination, hazardous | Water Quality; Section 4.10, Hazards, |
| | resources, litter, and visual | Hazardous Materials and Energy; |
| | resources. | Section 4.11, Aesthetics; and Section |
| | | 4.12, Public Services, Utilities and |
| | | Energy, for a discussion of these issues. |
| Lisa Tobias | The commenter asks about the | The discussion of financial issues is |
| | intended uses of the funds received | outside of the scope of this EIR. The |
| | by the County for out-of-County | commenter is referred to Chapter 3, |
| | waste disposal and what materials | Project Description, for a discussion of |
| | received from Santa Clara are being | the wastes received at the site and the |
| | disposed at the project site. The | project's objectives. For a discussion of a |
| | commenter also asks what benefit | transfer station alternative, the |
| | the project would provide to the | commenter is referred to Chapter 6, |
| | County and whether their will be a | Alternatives. |
| | transfer station at the site. | |



April 1, 2021

Stan Ketchum
San Benito County Resource Management Agency
2301 Technology Parkway
Hollister, California 95023
sketchum@cosb.us

Subject: John Smith Road Landfill Expansion Project (Project)

Notice of Preparation (NOP)

State Clearinghouse No: 2021020371

Dear Mr. Ketchum:

The California Department of Fish and Wildlife (CDFW) received a NOP for a draft Environmental Impact Report from San Benito County for the above-referenced Project pursuant to the California Environmental Quality Act (CEQA) and CEQA Guidelines.¹

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, CDFW appreciates the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under Fish and Game Code. While the comment period may have ended, CDFW would appreciate if you will still consider our comments.

CDFW ROLE

CDFW is California's **Trustee Agency** for fish and wildlife resources and holds those resources in trust by statue for all the people of the State (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386, subd. (a)). CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species (*Id.*, § 1802). Similarly, for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect fish and wildlife resources.

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¹ CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

CDFW is also submitting comments as a **Responsible Agency** under CEQA (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381). CDFW expects that it may need to exercise regulatory authority as provided by the Fish and Game Code. As proposed, for example, the Project may be subject to CDFW's lake and streambed alteration regulatory authority (Fish & G. Code, § 1600 et seq.). Likewise, to the extent implementation of the Project as proposed may result in "take" as defined by State law of any species protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.), related authorization as provided by the Fish and Game Code will be required.

Nesting Birds: CDFW has jurisdiction over actions with potential to result in the disturbance or destruction of active nest sites or the unauthorized take of birds. Fish and Game Code sections that protect birds, their eggs and nests include sections 3503 (regarding unlawful take, possession or needless destruction of the nest or eggs of any bird), 3503.5 (regarding the take, possession or destruction of any birds-of-prey or their nests or eggs), and 3513 (regarding unlawful take of any migratory nongame bird).

In this role, CDFW is responsible for providing, as available, biological expertise during public agency environmental review efforts (e.g., CEQA), focusing specifically on Project activities that have the potential to adversely affect fish and wildlife resources. CDFW provides recommendations to identify potential impacts and possible measures to avoid or reduce those impacts.

PROJECT DESCRIPTION SUMMARY

Proponent: Waste Solutions Group of San Benito, LLC

Objective: The proposed project includes a 388.05-acre expansion of the existing 95.16-acre John Smith Road Landfill (JSRL). This expansion would increase the landfill's disposal capacity, expand the total waste footprint, increase the maximum permitted elevation of the final landfill, and increase the maximum permitted daily tonnage accepted at the JRSL. To accommodate these changes, several operational changes are also being proposed. These include expanding the landfill entrance area to accommodate additional daily vehicle arrivals and reduce vehicle queuing on John Smith Road, expanding areas for recycling and the County's Household Hazardous Waste program, establishing an area for the future installation of a gas-to-energy facility, and clean closing the current Class I area owned by the City of Hollister and converting it to a disposal area for Class III waste. Additionally, the proposed project

would potentially include the use of a portion of the San Benito County property located south of John Smith Road for habitat mitigation purposes.

Location: The proposed project site is located at the JSRL and on lands directly east, north and west of the JSRL. The JSRL is located at 2650 John Smith Road approximately 2 miles directly east of the eastern boundary of the City of Hollister. The site is located in a hilly grassland/rural area east of the Hollister Valley and west of the rural Santa Ana Valley in unincorporated San Benito County.

Access to the site is provided from John Smith Road. The existing 95.16-acre JSRL includes two parcels owned by San Benito County that total 90.05 acres (Assessor Parcel Numbers [APN] 025-190-073 and 025-190-074) and one 5.11-acre parcel owned by the City of Hollister (APN 025-190-072). The two county-owned parcels contain an operating Class III landfill. Class III landfills only accept non-hazardous waste for disposal. The City of Hollister parcel includes a closed Class I waste disposal area covering less than an acre. Class I landfills may accept both hazardous and nonhazardous wastes for disposal. The County also owns 101.3 acres directly south of the JSRL and John Smith Road (APN 025-190-075).

Timeframe: N/A

COMMENTS AND RECOMMENDATIONS

CDFW offers the following comments and recommendations to assist San Benito County in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources. Editorial comments or other suggestions may also be included to improve the document.

There are several special-status resources that may utilize the Project site and/or surrounding area, and these resources may need to be evaluated and addressed prior to any approvals that would allow ground-disturbing activities. CDFW is concerned regarding potential impacts to special-status species including, but not limited to, the Federally endangered and State threatened San Joaquin kit fox (*Vulpes macrotis mutica*), the Federally and State threatened California tiger salamander (*Ambystoma californiense*), the State threatened tri-colored blackbird (*Agelaius tricolor*), the State Species of Special Concern American badger (*Taxidea taxus*) and the western spadefoot (*Spea hammondii*).

I. Environmental Setting and Related Impact

Would the Project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW or the United States Fish and Wildlife Service (USFWS).

COMMENT 1: San Joaquin Kit Fox (SJKF)

Issue: SJKF occurrences have previously been documented within the proposed Project boundary (CDFW 2021). The Project has the potential to temporarily disturb and permanently alter suitable habitat for SJKF and directly impact individuals if present during construction and other activities.

SJKF den in a variety of areas such as grassland, agricultural and fallow/ruderal habitat, and dry stream channels, and populations can fluctuate over time. SJKF are also capable of occupying urban environments (Cypher and Frost 1999). The Project site is

situated in a seismically active geologic province. Soil disturbance activities associated with individual Project elements could increase soil erosion or affect soil stability. The stability of the expanded landfill could be affected by seismic activities or soil instability. SJKF may be attracted to Project areas due to the type and level of ground-disturbing activities and the loose, friable soils resulting from intensive ground disturbance. SJKF will forage in grassland, fallow and agricultural fields and utilize stream channels as dispersal corridors. Santa Ana Creek is approximately 1.1-miles northwest of the Project site. As a result, there is potential for SJKF to occupy suitable habitat in the vicinity of the landfill area.

Specific impact: Without appropriate avoidance and minimization measures for SJKF, potential significant impacts associated with construction include habitat loss, den collapse, inadvertent entrapment, reduced reproductive success, reduction in health and vigor of young, and direct mortality of individuals.

Evidence impact is potentially significant: Habitat loss resulting from land conversion to agricultural, urban, and industrial development is the primary threat to SJKF (Cypher et al. 2013). The Project vicinity contains suitable habitat including grassland and a stream channel which could be utilized as a dispersal corridor. Therefore, subsequent ground-disturbing activities have the potential to significantly impact local SJKF populations.

Recommended Potentially Feasible Mitigation Measure(s)

To evaluate potential impacts to SJKF associated with subsequent land conversion, ground disturbance and construction, CDFW recommends conducting the following evaluation of the Project site, incorporating the following mitigation measures into the environmental impact report (EIR) prepared for this Project, and that these measures be made conditions of approval for the Project.

Recommended Mitigation Measure 1: SJKF Habitat Assessment

For all Project-specific components including construction and land conversion, CDFW recommends that a qualified biologist conduct a habitat assessment in advance of Project implementation, to determine if the Project area or its immediate vicinity contains suitable habitat for SJKF.

Recommended Mitigation Measure 2: SJKF Surveys

If suitable SJKF habitat is present on or adjacent to the Project site, CDFW recommends assessing presence/absence of SJKF by having qualified biologists conduct surveys of Project areas and a 500-foot buffer of Project areas to detect SJKF and their sign. CDFW also recommends following the USFWS "Standardized recommendations for protection of the San Joaquin kit fox prior to or during ground disturbance" (2011).

Recommended Mitigation Measure 3: SJKF Take Authorization

SJKF detection warrants consultation with CDFW to discuss how to avoid take or, if avoidance is not feasible, to acquire an Incidental Take Permit (ITP) prior to ground-disturbing activities, pursuant to Fish and Game Code section 2081 subdivision (b).

COMMENT 2: California Tiger Salamander (CTS)

Issue: CTS are known to occur in the vicinity of the Project area (CDFW 2021). Review of aerial imagery indicates the presence of several wetted/pond features in the Project's vicinity that have the potential to support breeding CTS. In addition, the Project area or its immediate surroundings may support small mammal burrows, a requisite upland habitat feature for CTS.

Specific Impacts: Aerial imagery shows that the proposed Project site has upland habitat which may function as breeding habitat. There is a pond approximately 1.3-miles east of the Project site, and another ponded area approximately 1-mile southwest that could provide breeding habitat. Potential ground- and vegetation-disturbing activities associated with Project activities could potentially include: collapse of small mammal burrows, inadvertent entrapment, loss of upland refugia, reduced reproductive success, reduction in health and vigor of eggs and/or young, and direct mortality of individuals. In addition, depending on the design of any activity, the Project has the potential to result in creation of barriers to dispersal.

Evidence impact would be significant: Up to 75% of historic CTS habitat has been lost to urban and agricultural development (Searcy et al. 2013). Loss, degradation, and fragmentation of habitat are the primary threats to CTS. Contaminants and vehicle strikes are also sources of mortality for the species (CDFW 2015, USFWS 2017). This Project would result in greater vehicle traffic entering and leaving the landfill due to the proposed expansion. Increased vehicle traffic could lead to an increase in vehicle strikes to this species, particularly during the rainy season. The Project site is within the range of CTS and has suitable habitat (i.e., grasslands interspersed with burrows and ponded areas). CTS have been determined to be physiologically capable of dispersing up to approximately 1.5 miles from seasonally flooded wetlands/ponds (Searcy and Shaffer 2011) and have been documented to occur near the Project site (CDFW 2021). Given the presence of suitable habitat potentially within, and adjacent to the Project site, ground-disturbing activities have the potential to significantly impact local populations of CTS.

Recommended Potentially Feasible Mitigation Measure(s)

Because suitable habitat for CTS is present in the vicinity of the Project site, CDFW recommends conducting the following evaluation of the Project site, incorporating the following mitigation measures into the environmental impact report (EIR) prepared for this Project, and that these measures be made conditions of approval for the Project.

Recommended Mitigation Measure 4: Focused CTS Protocol-level Surveys

CDFW recommends that a qualified biologist conduct protocol-level surveys in accordance with the USFWS "Interim Guidance on Site Assessment and Field Surveys for Determining Presence or a Negative Finding of the California Tiger Salamander" (USFWS 2003) at the appropriate time of year to determine the existence and extent of CTS breeding and refugia habitat. The protocol-level surveys for CTS require more than one survey season and are dependent upon sufficient rainfall to complete. As a result, consultation with CDFW and the USFWS is recommended well in advance of beginning the surveys and prior to any planned vegetation- or ground-disturbing activities. CDFW advises that the protocol-level survey include a 100-foot buffer around the Project area in all areas of wetland and upland habitat that could support CTS. Please be advised that protocol-level survey results are viable for two years after the results are reviewed by CDFW.

Recommended Mitigation Measure 5: CTS Avoidance

If CTS protocol-level surveys as described in Mitigation Measure 4 are not conducted, CDFW advises that a minimum 50-foot no-disturbance buffer be delineated around all small mammal burrows in suitable upland refugia habitat within and/or adjacent to the Project site. Further, CDFW recommends potential or known breeding habitat within and/or adjacent to the Project site be delineated with a minimum 250-foot no-disturbance buffer. Both upland burrow and wetland/pond breeding no-disturbance buffers are intended to minimize impacts to CTS habitat and avoid take of individuals. Alternatively, the applicant can assume presence of CTS within the Project site and obtain from CDFW a ITP in accordance with Fish and Game Code section 2081 subdivision (b).

Recommended Mitigation Measure 6: CTS Take Authorization

If through surveys it is determined that CTS are occupying or have the potential to occupy the Project site, consultation with CDFW is warranted to determine if the Project can avoid take. If take cannot be avoided as described in Mitigation Measure 5, take authorization would be warranted prior to initiating ground-disturbing activities to comply with CESA. Take authorization would occur through the acquisition of an ITP issued by CDFW, pursuant to Fish and Game Code section 2081 subdivision (b). As stated above, in the absence of protocol surveys, the applicant can assume presence of CTS within the Project site and obtain an ITP from CDFW.

Comment 3: Tri-colored Blackbird (TRBL)

Issue: TRBL occurrences have been documented near the Project site (CDFW 2021). Per CNDDB records, there was an occurrence of TRBL observed immediately south of the Project site previously. TRBL colonies require suitable nesting habitat, nearby freshwater, and nearby foraging habitat including semi-natural grasslands, agricultural

croplands or alkali scrub (Beedy et al. 2017). Habitat surrounding the Project area may provide suitable foraging habitat for TRBL and a pond located approximately 1.3-miles from the Project site, and another approximately 1-mile from the Project site, may be suitable nesting habitat.

Specific impact: Without appropriate avoidance and minimization measures for TRBL, potential significant impacts associated with Project activities include nest and/or colony abandonment, reduced reproductive success, and reduced health and vigor of eggs and/or young.

Evidence impact would be significant: The Project vicinity contains elements that have the potential to support TRBL nesting colonies. TRBL aggregate and nest colonially, forming colonies of up to 100,000 nests (Beedy et al. 2017). This species has been steadily declining due to annual breeding losses due to crop-harvesting activities, insufficient insect resources, and habitat loss due to land conversion for agriculture, rangeland, and urban development (Beedy et al. 2017).

Recommended Potentially Feasible Mitigation Measure(s)

To evaluate potential Project-related impacts to TRBL, CDFW recommends conducting the following evaluation of the Project site, incorporating the following mitigation measures into the environmental impact report (EIR) prepared for this Project, and that these measures be made conditions of approval for the Project.

Recommended Mitigation Measure 7: TRBL Surveys

CDFW recommends that Project activities be timed to avoid the normal bird breeding season (February 1 through September 15). However, if Project activities must take place during that time, CDFW recommends that a qualified wildlife biologist conduct surveys for nesting TRBL no more than 10 days prior to the start of implementation to evaluate presence/absence of TRBL nesting colonies in proximity to Project activities and to evaluate potential Project-related impacts.

Recommended Mitigation Measure 8: TRBL Avoidance

If an active TRBL nesting colony is found during preconstruction surveys, CDFW recommends implementation of a minimum 300-foot no-disturbance buffer in accordance with CDFW's "Staff Guidance Regarding Avoidance of Impacts to Tricolored Blackbird Breeding Colonies on Agriculture Fields in 2015" (CDFW 2015). CDFW advises that this buffer remain in place until the breeding season has ended or until a qualified biologist has determined that nesting has ceased, the birds have fledged, and are no longer reliant upon the colony or parental care for survival. It is important to note that TRBL colonies can expand over time and for this reason, the colony should be reassessed to determine the extent of the breeding colony within 10 days for Project initiation.

Recommended Mitigation Measure 9: TRBL Take Avoidance

In the event that a TRBL nesting colony is detected during surveys, consultation with CDFW is warranted to discuss how to implement the Project and avoid take, or if avoidance is not feasible, to acquire an ITP, pursuant to Fish and Game Code section 2081 subdivision (b), prior to any ground-disturbing activities.

COMMENT 4: American Badger (AMBA)

Issue: AMBA are known to occur in the Project vicinity (CDFW 2021). Badgers occupy sparsely vegetated land cover with dry, friable soils to excavate dens, which they use for cover, and that support fossorial rodent prey populations (i.e. ground squirrels, pocket gophers, etc.) (Zeiner et. al 1990). The area directly adjacent to the Project site may support these requisite habitat features, and with the landfill being expanded, the Project has the potential to impact AMBA.

Specific impact: Without appropriate avoidance and minimization measures for AMBA, potentially significant impacts associated with ground disturbance include direct mortality or natal den abandonment, which may result in reduced health or vigor of young.

Evidence impact is potentially significant: Habitat loss is a primary threat to AMBA (Gittleman et al. 2001). The Project has the expectation to expand, resulting in 388.05-acres of land conversion and potential habitat fragmentation. As a result, ground-disturbing activities have the potential to significantly impact local populations of AMBA.

Recommended Potentially Feasible Mitigation Measure(s)

To evaluate potential impacts to AMBA associated with the Project, CDFW recommends conducting the following evaluation of the Project site, incorporating the following mitigation measures into the EIR prepared for this Project, and that these measures be made conditions of approval for the Project.

Recommended Mitigation Measure 10: AMBA Surveys

If suitable habitat is present, CDFW recommends that a qualified biologist conduct focused surveys for AMBA and their requisite habitat features (dens) to evaluate potential impacts resulting from ground- and vegetation-disturbance.

Recommended Mitigation Measure 11: AMBA Avoidance

Avoidance whenever possible is encouraged via delineation and observation of a 50-foot no-disturbance buffer around dens until it is determined through non-invasive means that individuals occupying the den have dispersed.

COMMENT 5: Western spadefoot (WESP)

Issue: WESP inhabit grassland habitats, breed in seasonal wetlands, and seek refuge in upland habitat where they occupy burrows outside of the breeding season (Thomson et al. 2016). Review of aerial imagery indicates that the Project vicinity contains these requisite habitat elements.

Specific impact: WESP are known to occur in the area (CDFW 2021). There are several ponded areas and Santa Ana Creek near the Project area. Without appropriate avoidance and minimization measures for western spadefoot, potentially significant impacts associated with ground disturbance include; collapse of small mammal burrows, inadvertent entrapment, loss of upland refugia, reduced reproductive success, reduction in health and vigor of eggs and/or young, and direct mortality of individuals.

Evidence impact is potentially significant: Habitat loss and fragmentation resulting from agricultural and urban development is the primary threat to western spadefoot (Thomson et al. 2016). The Project area is within the range of western spadefoot, contains suitable upland habitat (i.e., grasslands interspersed with burrows) and breeding habitat (i.e., vernal pools/ponds and the seasonal creek listed previously). As a result, ground-disturbing activities associated with development/enlargement of the Project site have the potential to significantly impact local populations of this species.

Recommended Potentially Feasible Mitigation Measure(s)

To evaluate potential impacts to WESP associated with the Project, CDFW recommends conducting the following evaluation of the Project site, incorporating the following mitigation measures into the EIR prepared for this Project, and that these measures be made conditions of approval for the Project.

Recommended Mitigation Measure 12: WESP Surveys

CDFW recommends that a qualified biologist conduct focused surveys for WESP and their requisite habitat features to evaluate potential impacts resulting from ground- and vegetation-disturbance.

Recommended Mitigation Measure 13: WESP Avoidance

Avoidance whenever possible is encouraged via delineation and observance of a 50-foot no-disturbance buffer around burrows. If WESP are observed on the Project site, CDFW recommends that Project activities in their immediate vicinity cease and individuals be allowed to leave the Project site on their own accord. Alternatively, a qualified biologist with appropriate take authorization can move them out of harm's way and to a suitable location.

II. Editorial Comments and/or Suggestions

Nesting birds: CDFW encourages that Project implementation occur during the bird nonnesting season; however, if ground-disturbing or vegetation-disturbing activities must occur during the breeding season (February through mid-September), the Project applicant is responsible for ensuring that implementation of the Project does not result in violation of the Migratory Bird Treaty Act or relevant Fish and Game Codes as referenced above.

To evaluate Project-related impacts on nesting birds, CDFW recommends that a qualified wildlife biologist conduct pre-activity surveys for active nests no more than 10 days prior to the start of ground or vegetation disturbance to maximize the probability that nests that could potentially be impacted are detected. CDFW also recommends that surveys cover a sufficient area around the Project sites to identify nests and determine their status. A sufficient area means any area potentially affected by the Project. In addition to direct impacts (i.e., nest destruction), noise, vibration, and movement of workers or equipment could also affect nests. Prior to initiation of construction activities, CDFW recommends that a qualified biologist conduct a survey to establish a behavioral baseline of all identified nests. Once construction begins, CDFW recommends having a qualified biologist continuously monitor nests to detect behavioral changes resulting from the Project. If behavioral changes occur, CDFW recommends halting the work causing that change and consulting with CDFW for additional avoidance and minimization measures.

If continuous monitoring of identified nests by a qualified wildlife biologist is not feasible, CDFW recommends a minimum no-disturbance buffer of 250 feet around active nests of non-listed bird species and a 500-foot no-disturbance buffer around active nests of non-listed raptors. These buffers are advised to remain in place until the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or on-site parental care for survival. Variance from these no-disturbance buffers is possible when there is compelling biological or ecological reason to do so, such as when the construction areas would be concealed from a nest site by topography. CDFW recommends that a qualified wildlife biologist advise and support any variance from these buffers and notify CDFW in advance of implementing a variance.

Federally Listed Species: CDFW recommends consulting with the USFWS on potential impacts to federally listed species including, but not limited to, San Joaquin kit fox and California tiger salamander. Take under the Federal Endangered Species Act (FESA) is more broadly defined than CESA; take under FESA also includes significant habitat modification or degradation that could result in death or injury to a listed species by interfering with essential behavioral patterns such as breeding, foraging, or nesting. Consultation with the USFWS in order to comply with FESA is advised well in advance of any ground-disturbing activities.

ENVIRONMENTAL DATA

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations (Pub. Resources Code, § 21003, subd. (e)). Accordingly, please report any special-status species and natural communities detected during Project surveys to the California Natural Diversity Database (CNDDB). The CNDDB field survey form can be found at the following link:

https://www.wildlife.ca.gov/Data/CNDDB/Submitting-Data. The completed form can be mailed electronically to CNDDB at the following email address: CNDDB@wildlife.ca.gov. The types of information reported to CNDDB can be found at the following link: https://www.wildlife.ca.gov/Data/CNDDB/Plants-and-Animals.

FILING FEES

If it is determined that the Project has the potential to impact biological resources, an assessment of filing fees will be necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the fee is required in order for the underlying project approval to be operative, vested, and final (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089).

CDFW appreciates the opportunity to comment on the Project to assist the City of Merced in identifying and mitigating the Project's impacts on biological resources.

More information on survey and monitoring protocols for sensitive species can be found at CDFW's website (https://www.wildlife.ca.gov/Conservation/Survey-Protocols). If you have any questions, please contact Kelley Nelson, Environmental Scientist, at the address provided on this letterhead, or by electronic mail at Kelley.Nelson@wildlife.ca.gov.

Sincerely,

Julie A. Vance Regional Manager

Attachment

LITERATURE CITED

California Department of Fish and Wildlife (CDFW). 2021. Biogeographic Information and Observation System (BIOS). https://www.wildlife.ca.gov/Data/BIOS. Accessed March 8, 2021.

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- CDFW. 2015. California Tiger Salamander Technical Review Habitat, Impacts and Conservation. California Department of Fish and Wildlife, October 2015.
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- Weintraub, K., T.L. George, and S.J. Dinsmore. 2016. Nest survival of tricolored blackbirds in California's Central Valley. The Condor 118(4): 850–861.

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WESP Literature Citations

Thomson, R. C., A. N. Wright, and H. Bradley Shaffer, 2016. California Amphibian and Reptile Species of Special Concern. California Department of Fish and Wildlife and University of California Press

Attachment 1

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE RECOMMENDED MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)

PROJECT: John Smith Road Landfill- NOP State Clearinghouse No: 2021020371

| RECOMMENDED MITIGATION | STATUS/DATE/INITIALS | | | |
|---|----------------------|--|--|--|
| MEASURE | | | | |
| Before Disturbing Soil or Vegetation | | | | |
| Mitigation Measure 1: SJKF Habitat | | | | |
| Assessment | | | | |
| Mitigation Measure 2: SJKF Surveys | | | | |
| Mitigation Measure 4: Focused CTS Protocol- | | | | |
| level Surveys | | | | |
| Mitigation Measure 5: CTS Avoidance | | | | |
| Mitigation Measure 7: TRBL Surveys | | | | |
| Mitigation Measure 8: TRBL Avoidance | | | | |
| Mitigation Measure 9: TRBL Take Avoidance | | | | |
| Mitigation Measure 10: AMBA Surveys | | | | |
| Mitigation Measure 11: AMBA Avoidance | | | | |
| Mitigation Measure 12: WESP Surveys | | | | |
| Mitigation Measure 13: WESP Avoidance | | | | |
| During Construction | | | | |
| Mitigation Measure 3: SJKF Take | | | | |
| Authorization | | | | |
| Mitigation Measure 6: CTS Take | | | | |
| Authorization | | | | |

1 Rev. 2013.1.1





Jared Blumenfeld
Secretary for
Environmental Protection

Department of Toxic Substances Control



Meredith Williams, Ph.D.
Director
8800 Cal Center Drive
Sacramento, California 95826-3200

March 19, 2021

Via E-mail, No Hard Copy to Follow

Attention: Stan Ketchum San Benito County Planning and Land Use Division 2301 Technology Parkway Hollister, CA 95023

NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE JOHN SMITH ROAD LANDFILL EXPANSION, STATE CLEARING HOUSE NUMBER 2021020371

Dear Mr. Ketchum:

The Department of Toxic Substances Control (DTSC) appreciates the opportunity to review and provide scoping input on the Notice of Preparation (NOP) for the John Smith Road Landfill Expansion, State Clearinghouse Number 2021020371. In the NOP, San Benito County as the lead agency has identified that DTSC will have a discretionary decision regarding implementation of a permit modification for clean closure of the John Smith Road Landfill Class 1 Area, and termination of the Hazardous Waste Facility Post-Closure Permit (Permitted Area).

Pursuant to California Code of Regulations (CCR), title 14, Section 15082 and California Public Resources Code (PRC) 21153, DTSC will participate in the development of the Environmental Impact Report (EIR) for the John Smith Road Landfill Expansion, (State Clearinghouse Number 2021020371) as a responsible agency pursuant to CCR, title 14, Section 15096. This letter serves as a response and a request for detailed consultation meeting to develop a robust description of DTSC's discretionary action to be included in the Draft EIR and subject to the Draft EIR's analysis, consistent with CCR, 14, Sections 15082(b)(2) and 15096(b)(2). This consultation will facilitate inclusion of the necessary detail and analysis to support DTSC's future decision in the certified EIR.

Mr. Stan Ketchum March 19, 2021 Page 2

DTSC looks forward to working with San Benito County to develop an EIR to support DTSC's discretionary decision-making relating to the Permitted Area. DTSC requests that the County direct any future communications regarding this project to Mr. Michael Zamudio (Phone: (916) 255-6535; Email: Michael.Zamudio@dtsc.ca.gov), located at the letterhead address.

If you have any questions regarding this letter, please contact me at (916) 255-6535 or at Michael.Zamudio@dtsc.ca.gov.

Sincerely,

Michael Zamudio

Michael Zamudio, P.E. Hazardous Substances Engineer Permitting Division Department of Toxic Substances Control

cc (via email):

State Clearinghouse

Mr. Trevor Pratt
Senior Environmental Planner
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DEPARTMENT OF TRANSPORTATION

CALTRANS DISTRICT 5
50 HIGUERA STREET
SAN LUIS OBISPO, CA 93401-5415
PHONE (805) 549-3101
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TTY 711
www.dot.ca.gov/dist05/



March 15, 2021

SBt-25-46.398 SCH#2021020371

Stan Ketchum Resource Management Agency 2301 Technology Parkway Hollister CA, 95023

Dear Mr. Ketchum:

COMMENTS FOR THE NOTICE OF PREPARATION (NOP) – JOHN SMITH ROAD LANDFILL EXPANSION, SAN BENITO COUNTY, CA

- 1. Caltrans supports local development that is consistent with State planning priorities intended to promote equity, strengthen the economy, protect the environment, and promote public health and safety. We accomplish this by working with local jurisdictions to achieve a shared vision of how the transportation system should and can accommodate interregional and local travel and development. Projects that support smart growth principles which include improvements to pedestrian, bicycle, and transit infrastructure (or other key Transportation Demand Strategies) are supported by Caltrans and are consistent with our mission, vision, and goals.
- 2. As a result of Senate Bill (SB) 743, effective July 2020 Caltrans replaced vehicle level of service (LOS) with vehicle miles traveled (VMT) as the primary metric for identifying transportation impacts from local development. Additionally, the Caltrans Transportation Impact Study Guide (TISG) replaces the Guide for the Preparation of Traffic Impact Studies (Caltrans, 2002) and is for use with local land use projects. The focus now will be on how projects are expected to influence the overall amount of automobile use instead of traffic congestion as a significant impact. For more information, please visit: https://dot.ca.gov/programs/transportation-planning/office-of-smart-mobility-climate-change/sb-743.
- 3. Employing VMT as the metric of transportation impact Statewide will help to promote Green House Gas (GHG) emission reductions consistent with SB 375

Stan Ketchum March 15, 2021 Page 2

and can be achieved through influencing on-the-ground development. Implementation of this change will rely, in part, on local land use decisions to reduce GHG emissions associated with the transportation sector, both at the project level, and in long-term plans (including general plans, climate action plans, specific plans, and transportation plans) and supporting Sustainable Community Strategies developed under SB 375. In addition to any site-specific access or safety concerns with the project, it is likely that the Caltrans correspondence will focus attention on meeting overall VMT reducing goals.

Thank you for the opportunity to review and comment on the proposed project. If you have any questions, or need further clarification on items discussed above, please contact me at (805) 835-6543 or at Christopher.Bjornstad@dot.ca.gov.

Sincerely,

Chris Bjornstad

Associate Transportation Planner District 5 Development Review

Christopher Bjornstad



Jared Blumenfeld
Secretary for Environmental Protection
Rachel Machi Wagoner
CalRecycle Director

March 22, 2021

Stan Ketchum, Principal Planner San Benito County Resource Management Agency Planning and Land Use Division 2301 Technology Parkway Hollister, CA 95023

Email: SKetchum@cosb.us

Subject: SCH No. 2021020371 – Notice of Preparation of a Draft Environmental Impact

Report for the John Smith Road Landfill Expansion - San Benito County (SWIS No.

35-AA-0001)

Dear Mr. Ketchum:

Thank you for allowing the Department of Resources Recycling and Recovery (CalRecycle) staff to provide comments on the proposed project and for your agency's consideration of these comments as part of the California Environmental Quality Act (CEQA) process.

PROJECT DESCRIPTION

San Benito County Resource Management Agency, Planning and Land Use Division, acting as Lead Agency, has prepared and circulated a Notice of Preparation (NOP) for a Draft Environmental Impact Report (EIR) in order to comply with CEQA and to provide information to, and solicit consultation with, Responsible Agencies in the approval of the proposed project.

The proposed project site is located at the John Smith Road Landfill (JSRL) and on lands directly east, north, and west of the JSRL. The JSRL is located at 2650 John Smith Road, approximately 2 miles directly east of the eastern boundary of the City of Hollister. The site is located in a hilly rural area east of the Hollister Valley and west of the rural Santa Ana Valley in unincorporated San Benito County. Access to the site is provided from John Smith Road. The existing 95.16-acre JSRL includes two parcels owned by San Benito County that total 90.05 acres (Assessor Parcel Numbers [APN] 025-190-073 and 025-190-074) and one 5.11-acre parcel owned by the City of Hollister (APN 025-190-072). The two county-owned parcels contain an operating Class III landfill. Class III landfills only accept non-hazardous waste for disposal. The City of Hollister parcel includes a closed Class I waste disposal area covering less than an acre. Class I landfills may accept both hazardous and nonhazardous wastes for disposal. The County also owns 101.3 acres directly south of the JSRL and John Smith Road (APN 025-190-075).

The proposed project includes expanding the existing 95.16-acre landfill onto a 388.05-acre parcel surrounding the landfill on the east, north and west, the ownership of which is proposed

to be transferred to San Benito County (County). The proposed project would increase the landfill's permitted daily tonnage limit from 1,000 tons per day (tpd) to 2,300 tpd for waste to be buried. The proposed expansion would increase the landfill's disposal capacity from approximately 9.35 million cubic yards to 58 million cubic yards. This expansion would increase the waste footprint from 58 acres to 253 acres, with the remaining acreage used for roads, soil stockpiles, storm water detention basins, and open space/habitat mitigation. In addition to expanding the landfill footprint, the maximum permitted elevation of the final landfill would increase to 949 feet above mean sea level (MSL), a 29-foot increase above the current permitted elevation of 920 feet MSL. The anticipated site life of the project would vary depending on the final waste density and the long-term waste acceptance rate. However, the remaining site life would be expected to range between 50 and 100 years.

To accommodate these changes, several operational changes are also being proposed. These include expanding the landfill entrance area to accommodate additional daily vehicle arrivals and reduce vehicle queuing on John Smith Road, expanding areas for recycling and the County's Household Hazardous Waste program, establishing an area for the future installation of a gas-to-energy facility, and clean closing the current Class I area owned by the City of Hollister and converting it to a disposal area for Class III waste. Additionally, the proposed project would potentially include the use of a portion of the San Benito County property located south of John Smith Road for habitat mitigation purposes.

COMMENTS

The proposed project description and analysis provided in the EIR should be clear and concise on the required Solid Waste Facility Permit (SWFP) parameters of: permitted operations, permitted hours of operation, permitted maximum tonnage, permitted traffic volume, permitted area (including the disposal area), design capacity, maximum elevation, maximum depth, and estimated closure year.

- 1. Specify if the 388.05-acre expansion will be the proposed total permitted acreage or if the 388.05 acres will be in addition to the currently permitted 90.36 acres.
- 2. The NOP states the landfill will be expanding from the existing 95.16 acres, yet the landfill is currently permitted for an area of 90.36 acres total. Please address this discrepancy.
- 3. JSRL is currently permitted for hours of operation for the public from 8:00 a.m. to 4:00 p.m., Monday through Friday and 9:00 a.m. to 3:00 p.m., Saturday and Sunday and for commercial from sunrise to sunset. Will there be any change in permitted hours of operation?
- 4. JSRL is currently permitted with a maximum depth of 665 feet MSL. Will there be any change in maximum depth?
- 5. Specify the estimated closure year, as the NOP states the remaining site life is expected to range between 50-100 years; is the 50-100 years from now or extended onto the currently permitted estimated closure date of 2025 at 850 tpd/2032 at 500 tpd?
- 6. Page 4, section titled "Increase in Permitted Tonnage Limit," states "The proposed project would increase the landfill's permitted daily tonnage limit from 1,000 tons per day to 2,300 tons per day for waste to be buried. The tonnage for materials that would

not be buried at the site, including recyclables, materials for beneficial reuse and direct transfer materials, would not be included in this total. On average, these materials add approximately 25% to the total tonnage of materials delivered to the site." Please clearly explain what would be the permitted maximum tonnage for the landfill and if any new activities will be included in the expansion.

- 7. Page 4, section titled "Site Traffic Changes," discusses site traffic changes and mentions an increase of 59 vehicles per day. The landfill is currently permitted for 600 vehicles per day. Will the proposed project's maximum permitted traffic volume be increased to 659 vehicles per day?
- 8. Page 6, section titled "Other Approvals," lists other approvals the project may require. This section should also include CalRecycle as a state governmental agency that is responsible for providing regulatory oversight.
- 9. If there will be any proposed changes in materials to be accepted at the landfill, include those materials in the Draft EIR description and analysis.

Below are links to CalRecycle's CEQA Toolbox for solid waste facilities, which may assist the Lead Agency in preparing the EIR:

- https://www.calrecycle.ca.gov/swfacilities/permitting/cega/toolbox
- https://www.calrecycle.ca.gov/SWFacilities/Permitting/CEQA/Documents/Guidance/Disposal/

Solid Waste Facility Permit

The proposed project will require a revision to the full SWFP and amendments to the Joint Technical Document (JTD) for John Smith Road Landfill (35-AA-0001). Prior to commencement of the proposed project, the operator shall submit an application package for a SWFP revision and JTD Amendments, which shall be processed by the Enforcement Agency (EA) pursuant to Title 27 California Code of Regulations (CCR), Section 21650. The permitting and regulatory requirements for solid waste operations/facilities are contained in 14 CCR and 27 CCR.

Solid Waste Regulatory Oversight

CalRecycle is the EA for San Benito County and is responsible for providing regulatory oversight of solid waste handling activities, including permitting requirements and inspections.

CONCLUSION

CalRecycle staff thanks the Lead Agency for the opportunity to review and comment on the NOP and hopes that this comment letter will be useful to the Lead Agency in carrying out their responsibilities in the CEQA process.

CalRecycle staff requests copies of any subsequent environmental documents, copies of public notices and any Notices of Determination for this proposed project.

If the environmental document is approved during a public hearing, CalRecycle staff requests 10 days advance notice of this hearing. If the document is approved without a public hearing,

NOP of Draft EIR for John Smith Road Landfill Expansion (35-AA-0001) March 22, 2021 Page 4 of 4

CalRecycle staff requests 10 days advance notification of the date of the approval and proposed project approval by the decision-making body.

If you have any questions regarding these comments, please contact me at 916.341.6363 or by e-mail at Megan.Emslander@calrecycle.ca.gov.

Megan instandas

Megan Emslander, Environmental Scientist Permitting & Assistance Branch – South Unit

Waste Permitting, Compliance & Mitigation Division

CalRecycle

cc: Ben Escotto, Supervisor

Permitting & Assistance Branch – South Unit

Jon Whitehill, Supervisor

Waste Evaluation & Enforcement Branch – Unit B

Eric Tanner, San Benito County EA Inspector

Waste Evaluation & Enforcement Branch – Unit B



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NAHC HEADQUARTERS 1550 Harbor Boulevard Suite 100 West Sacramento, California 95691 (916) 373-3710 nahc@nahc.ca.gov NAHC.ca.gov

NATIVE AMERICAN HERITAGE COMMISSION

February 22, 2021

Stan Ketchum County of San Benito 2301 Technology Parkway Hollister, CA 95023



Re: 2021020371, John Smith Road Landfill Expansion EIR Project, San Benito County

Dear Mr. Ketchum:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, §15064.5 (b) (CEQA Guidelines §15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015. If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). Both SB 18 and AB 52 have tribal consultation requirements. If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

- 1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:
 - a. A brief description of the project.
 - **b.** The lead agency contact information.
 - **c.** Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
 - **d.** A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).
- 2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).
 - **a.** For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).
- 3. <u>Mandatory Topics of Consultation If Requested by a Tribe</u>: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:
 - a. Alternatives to the project.
 - b. Recommended mitigation measures.
 - c. Significant effects. (Pub. Resources Code §21080.3.2 (a)).
- **4.** <u>Discretionary Topics of Consultation</u>: The following topics are discretionary topics of consultation:
 - **a.** Type of environmental review necessary.
 - b. Significance of the tribal cultural resources.
 - c. Significance of the project's impacts on tribal cultural resources.
 - **d.** If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).
- 5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).
- **6.** <u>Discussion of Impacts to Tribal Cultural Resources in the Environmental Document:</u> If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:
 - a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
 - **b.** Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

- 7. <u>Conclusion of Consultation</u>: Consultation with a tribe shall be considered concluded when either of the following occurs:
 - **a.** The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
 - **b.** A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).
- 8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).
- 9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).
- **10.** Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:
 - a. Avoidance and preservation of the resources in place, including, but not limited to:
 - i. Planning and construction to avoid the resources and protect the cultural and natural context.
 - **ii.** Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
 - **b.** Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
 - i. Protecting the cultural character and integrity of the resource.
 - ii. Protecting the traditional use of the resource.
 - iii. Protecting the confidentiality of the resource.
 - **c.** Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
 - d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).
 - **e.** Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).
 - **f.** Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).
- 11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:
 - **a.** The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080,3.1 and §21080,3.2 and concluded pursuant to Public Resources Code §21080,3.2.
 - **b.** The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
 - **c.** The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09-14-05-updated-Guidelines-922.pdf.

Some of SB 18's provisions include:

- 1. <u>Tribal Consultation</u>: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe. (Gov. Code §65352.3 (a)(2)).
- 2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.
- 3. <u>Confidentiality</u>: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
- 4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:
 - **a.** The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
 - **b.** Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

- 1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
 - a. If part or all of the APE has been previously surveyed for cultural resources.
 - b. If any known cultural resources have already been recorded on or adjacent to the APE.
 - c. If the probability is low, moderate, or high that cultural resources are located in the APE.
 - **d.** If a survey is required to determine whether previously unrecorded cultural resources are present.
- 2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
 - **a.** The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
 - **b.** The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

- 3. Contact the NAHC for:
 - **a.** A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
 - **b.** A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.
- **4.** Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
 - **a.** Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
 - **b.** Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
 - **c.** Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: <u>Nancy.Gonzalez-</u>Lopez@nahc.ca.gov.

Sincerely,

Nancy Gonzalez-Lopez Cultural Resources Analyst

cc: State Clearinghouse

21 March 2021

Stan Ketchum Principal Planner San Benito County Planning and Land Use Division

Dr Mr. Ketchum,

We are writing on behalf of the Best Road Mutual Water District which serves 48 homes in the Heatherood Estates and Foxhill Circle subdivisions. These divisions lie immediately off of John Smith Road and Best Road, within close proximity of the John Smith Landfill.

Seeing as our water district serves a community in the immediate vicinity of the Landfill, to provide an essential resource, we find it disappointing that we were not notified about the project and the Public Scoping meetings but learned about them from some of our concerned homeowners during a monthly meeting. Many of the homes we represent lie immediately adjacent to John Smith Road and the outlined San Benito County Property.

Per your NOP, you cite the potential for the expansion to "affect the quality of the water discharged from the site." This is deeply concerning to us as we have been struggling with the quality of our water for a number of years. Elevated arsenic levels have been one of our most pressing issues and we are very concerned that this is correlated with our close proximity to the landfill.

As a district we have spent tens of thousands of dollars on mitigation efforts and are slated to spend another \$100,000+ in the immediate future to remedy the EXISTING situation with our local water. We are very worried that disturbances to the soil, excess water discharges and increased traffic allowing for road pollution may increase the contamination in our ground water to the point it becomes completely unusable.

As a water board we are OPPOSED to the proposed expansion to the John Smith Landfill. Since our sole mission is providing potable water to our residents, we must oppose any such expansion based on the potential for affecting our water.

Best Regards

County of Santa Clara

Roads and Airports Department
Planning, Land Development and Survey

101 Skyport Drive San Jose, CA 95110-1302 (408) 573-2460 FAX 441-0276



March 19, 2021

Maira Blanco
Stan Ketchum
San Benito County Planning and Land Use Division
2301 Technology Parkway
Hollister, CA 95023-9174
SKetchum@cosb.us

SUBJECT: Notice of Preparation of a Draft Environmental Impact Report for the John Smith Road Landfill Expansion

The County of Santa Clara Roads and Airports Department (The County) appreciates the opportunity to review the Notice of Preparation of a Draft Environmental Impact Report for the John Smith Road Landfill Expansion and is submitting the following comments:

- 1. Due to future Hwy 101/SR25 interchange development project, trucks may attempt to avoid interchange project by using County local roads to reach the John Smith landfill site. These roads include:
 - · Bolsa Rd.
 - Bloomfield Ave,
 - Frazer Lake Rd,
 - Leavesley Rd/Ferguson Rd.
- 2. The landfill project should include truck impact analysis on these mentioned South County roads and ensure trucks use freeways as the best route to landfill.
- 3. The projected peak traffic day occurs on the weekend. What is the site's operation schedule? Traffic analysis should be conducted for weekdays as well.

If you have any questions or concerns about these comments, please contact me at 408-573-2462 or ben.aghegnehu@rda.sccgov.org

Thank you.





April 16, 2021

San Benito County Planning and Land Use Division 2301 Technology Parkway Hollister, CA 95023-9174 Attention: Stan Ketchum

Email: SKetchum@cosb.us

Subject: Comments on the Notice of Preparation of a Draft Environmental Impact Report for the

John Smith Road Landfill Expansion

Dear Mr. Ketchum:

Please consider the following comments when preparing the environmental impact report for the above referenced project:

• Criteria Pollutant Emissions

The Air District's CEQA Air Quality Guidelines can be found at https://www.mbard.org/ceqa. These guidelines indicate the threshold limits for criteria pollutants which are considered a significant impact on air quality in our region. Emissions can be estimated using a land use emissions model such as CalEEMod, which can be found at http://www.capcoa.org/caleemod/. When evaluating project emissions, consider energy use, heavy duty equipment operation, increased on-road truck traffic, the landfill gas-to-energy plant, etc. When evaluating emissions document any assumptions and support any conclusions with substantial evidence. If thresholds from construction or operational emissions are exceeded, the Air District prefers that emissions are mitigated on-site. If these thresholds cannot be offset through on-site actions, emissions can potentially be mitigated off-site through Air District programs. Please contact me prior to completion of the draft EIR to discuss further.

• Construction and Operational Emissions and Exposure to Toxic Air Contaminants at Surrounding Land Uses:

When possible, use cleaner construction and off-road equipment for the project, specifically, equipment that conforms to the California Air Resources Board's Tier 3 or Tier 4 emission standards. The Air District further recommends that, whenever feasible, construction and off-road equipment use alternative fuels such as compressed natural gas (CNG), propane, electricity, or biodiesel.

Permitting of Operational Uses:

The expansion and reconfiguration of the landfill may require a modification to the permits the landfill already has with the Air District including the federal Title V operating permit. New equipment referenced in the NOP such as the landfill gas-to-energy plant will be required to operate with a permit from the Air District. Any composting or food waste processing at the

facility may also be required to have Air District permits. Contact the Air District's Engineering Division at (831) 647-9411 for information about permitting.

Emissions Leading to Odors:

When evaluating potential odors from the facility, consider daily landfill operations, the landfill cover, landfill gasses migrating off-site, the landfill gas-to-energy plant and any compost or food waste processing. Evaluate abatement measures or mitigation to maintain compliance with District Rule 402, Public Nuisance, which prohibits odors from affecting a significant number of people.

Fugitive Dust Control

Fugitive dust is required to be controlled by District Rule 403, Particulate Matter. Recommended fugitive dust mitigation can be found in Section 8.2 of the CEQA Air Quality Guidelines referenced above.

GHG Emissions:

The Air District suggests using guidance from the Bay Area Air Quality Management District or Sacramento Metropolitan Air Quality Management District for evaluating the project's greenhouse gas emissions.

• Asbestos Remediation:

If any buildings are renovated or demolished as part of this project, Air District rules may apply. These include Rule 424, National Emissions Standards for Hazardous Air Pollutants and Rule 439, Building Removals. Rule 424 contains the investigation and reporting requirements for asbestos which includes surveys and advanced notification on structures being renovated or demolished. Notification to the Air District is required at least ten days prior to renovation or demolition activities. Rule 424 could also apply if old underground piping or other asbestos containing construction materials are encountered during trenching activities. District Rule 439 prohibits the release of any visible emissions from building removals. Rules 424 and 439 can be found online at https://ww2.arb.ca.gov/current-air-district-rules. Please contact Shawn Boyle, Air Quality Compliance Inspector III, at (831) 647-9411 for more information regarding these rules.

The Air District appreciates the opportunity to provide comments prior to the preparation of the EIR. Please contact me if you have any further questions about these comments.

Best Regards,

David Frisbey

Planning and Air Monitoring Manager

cc: Richard Stedman, Air Pollution Control Officer Shawn Boyle, Air Quality Compliance Inspector III



San Benito High School District

1220 Monterey Street
HOLLISTER, CALIFORNIA 95023-4708
PHONE (831) 637-5831 ext. 132 • FAX (831) 636-1187
www.sbhsd.k12.ca.us

DR. SHAWN TENNENBAUM SUPERINTENDENT

March 22, 2021

















Mr. Stan Ketchum
Principal Planner
County of San Benito Planning and Land Use Division of the Resources
Management Agency
2301 Technology Parkway
Hollister, CA 95023
Email: Sketchum@cosb.us

RE: John Smith Road Landfill Expansion

Dear Mr. Ketchum,

Thank you for the opportunity to provide comment on the Notice of Preparation of a Draft Environmental Impact Report for the John Smith Road Landfill Expansion Project ("Project"). The District is the fee simple owner of approximately 71 acres on Best Road, Assessor's Parcel Number 025-190-0019 & 052.

The District is considering utilizing this parcel for the development of a future high school. As the crow flies, the parcel is located approximately 1.36 miles southwest of the Project. When considering the environmental impact of this project, please assume that this site will become a comprehensive high school serving approximately 1,200-1,400 students initially with the ability to expand up to 1,600-1,800 students in Grades 9-12. As you can imagine, we are gravely concerned about adverse health effects of a landfill being located in such close proximity to a school, among other potential environmental impacts of this Project. We intend to remain closely involved in the environmental review of this Project.

Thank you for keeping us informed regarding this Project, and please do not hesitate to reach out to me if you need further information.

Shawn Tennenbaum, Ed.D.

Superintendent

March 23, 2021

Stan Ketchum
San Benito County
Resource Management Agency
2301 Technology Parkway
Hollister, CA 95023-9174

Dear Stan Ketchum,

I am writing this letter to express strong opposition to the John Smith expansion site. It was erroneously stated that nobody in the area opposed this project. This could not be farther from the truth. Many of the neighbors in this area, including myself oppose this proposal.

When the landfill was approved for out of county duping several years ago, the increased truck traffic on our local rods contributed to significant degradation to the pavement quality and is clearly visible on Fairview Road. The increased revenue projected is very unlikely to cover the cost to our County for the substantial increase in required maintenance to our roads.

The above does not take into consideration the additional traffic congestion coming to and from Hollister. The additional development in our County has made traffic unbearable during commute times and inconvenient at best during other times of the day. The traffic alone had significantly detracted from the benefits of living in San Benito County.

Water that feeds nearby wells and runs into agricultural field will be impacted by the landfill expansion and will lead to pollution. Let alone the negative impact this will have on local wildlife. This is a terrible plan and I strongly oppose the expansion.

Sincerely

Caitlin Bynum

Public Comment for **John Smith Landfill Expansion EIR**Stan Ketchum, Principal Planner RMA, County of San Benito.
Submitted by John Freeman of San Juan Bautista.
Dear RMA, Mr. Ketchum and County of San Benito,

I wish to direct my comments to several component parts of the EIR for expansion of the John Smith Landfill.

First, Waste to Energy production via the collection of methane gas. All landfills off gas methane when the organics in the waste stream break down. Recently a consortium of Community Choice Aggregators including our own local Community Choice Aggregator Central Coast Community Energy came out in favor of buying power generated by methane from landfills and other certain bio-mass generators. Section 399.2 of the Public Utilities Code enables Community Choice Aggregators to enter into contracts and recover costs through the Bioenergy Market Adjusting Tariff (BioMAT) Program. This means that the John Smith Landfill will have a ready market for any power generated at the landfill by its methane gas, including CCCE. The regulations will allow landfill generators to charge a higher KW per hour rate than other wholesale power generators. That rate may be as high as 11 to 13 cents per KW hour. Most other wholesale power rates are under 5 cents per KW hour. Any cost feasibility study must be done by using the higher rates. While our landfill is still rather small, it is going to be expanded by factor of over five times, which will cause a substantial increase the generation of methane. Since methane is approximately 20 times more potent than CO2 as a global warming contaminate, it is imperative that we capture and cleanly burn the methane in a power generator. The above state regulation will assure you that the operation will have a ready-made market for its excess power. I know for a fact that CCCE staff will be willing to work with you to buy any power that you will produce.

Second, the landfill needs to build up its recycling center. Convenient drop-offs for specific recyclables should be designed into the new landfill. Cardboard and paper in one area, metals in another, electronics and motor oil and various types of batteries in another. Theis area would hopefully have quick and easy access to the recycling area, perhaps separate from the entrance to the landfill. That way county residents could easily drop off their recyclables. The Recycling center at the Marina location provides an excellent model for this type of operation.

Third, District Two of San Benito County experiences a lot of illegal dumping on the West side of the county. Inconvenience has been shown in many studies to being a barrier to proper disposal issues. There should be a convenient place (Transfer Center) for county residents to get rid of large bulky items (mattress, tires, old furniture), hopefully this could be in Hollister. A trip to the landfill from SJB or Aromas takes most of the day. A transfer center could help solve this problem. The county spends a considerable amount of money and time picking up trash on Rocks Road, School road and many other streets on the west side of the county. This could go a long away in helping keep San Benito County and clean and beautiful place to live and to visit.

Thank you,

John Freeman

San Juan Bautista, CA

San Benito County Planning and Land Use Division 2301 Technology Parkway Hollister, CA 95023-9174 Attention: Stan Ketchum

Dear Mr. Ketchum,

We have recently received the Notice Of Preparation for the proposed expansion of the John Smith Road Landfill Expansion and wanted to make our opinions of this project and reaction to it be a part of the public input.

We are the owners of the parcel 025-190-004-000, the land immediately to the north of the easternmost parcel (025-190-011-000) of the proposed expansion of the landfill area. As such, our property would become immediately adjacent to the expanded landfill site. For the sake of context, our connection to this land, and to the Santa Ana Valley, is long and deep. Our ancestor Horace Goold acquired this specific 154 acre parcel in 1874. His brother-in-law Edmund Bostwick Kent (our 2nd/3rd great grandfather) acquired the 220 acres to the north, forming the northern end of the Santa Ana Valley, in 1872. This land has been part of our family heritage for almost 150 years.

Needless to say we are shocked, dismayed and utterly opposed to the proposed expansion plan as it is currently constituted. We find the plan to be an extraordinary overreach, far exceeding the current and future needs of San Benito County. To expand the site to quadruple its current footprint (95 acres) to 388 acres is a colossal change - far in excess of what we believe is a rational and reasonable expansion.

There are several reasons for our objections. First, justification for the size of the expansion has not been provided. We are to simply take the word of the private company 'Waste Connections' that they need nearly 400 acres to accommodate the future needs of their company and their efforts to secure more business from "out of county" waste sources. No justification has been shown for their scope, it is simply given as a *fait accompli*. Why is there no other size and scope provided? Could a smaller site accomplish the same goals? Why were these boundaries chosen? Nothing in the proposal explains, justifies or answers these questions.

Second, by the proposal's own terms, 20% of the volume of waste in the landfill comes from San Benito County, while the other 80% originates elsewhere. It is clear to anyone who resides or spends time in San Benito County that there is little funding for infrastructure and that the roads here are in disgraceful condition. It is also clear that long term growth and prosperity in the County depends on decent infrastructure; water, sewers, storm drains, roads and power lines need to be provided. But using Santa Clara County's dumping fees to try to fund these infrastructure elements is short-sighted and unsustainable. Sacrificing existing rangeland and degrading nearby land is not in the County's long term interests. Very few counties in California accept trash which originates outside their respective county. Other counties have made environmental protections against out-of-county dumping a high priority. So should we. Allowing more and more trash truck traffic will continue to degrade Highway 25, Fairview Road and John Smith Road and make them more and more damaged and dangerous.

Third, the proposed Environmental Impact Report will no doubt enumerate the added load of

air pollution, dust, odors, noise and unsightly views that this project will generate. Add to this the potential for groundwater contamination of the Santa Ana Valley Aquifer, and the hazards associated with this project loom very large indeed. Our valley depends on this aquifer for drinking water, irrigation water and raising livestock. It cannot be allowed to be sacrificed on the alter of financial gain by the County and the 'Waste Connections' company.

This project appears to be a solution in search of a problem. The 'Waste Connections' company stands to make great profits from this expansion, while the needs of the people of San Benito County seem to play a very minor role in the undertaking. A great deal of land is to be irretrievably sacrificed, while the adjacent property is degraded and potentially polluted beyond any current or sustainable use. It also appears that this is a cynical corporate negotiating ploy - to submit a preposterous proposal, then 'compromise' to a more 'reasonable' position - which is what the desired outcome was in the first place. We and the other residents of the Santa Ana Valley will not be manipulated so easily. This proposal is a non-starter.

We request that this proposal be withdrawn and completely reworked with a dramatically smaller scope (and made in good faith) - one that meets the needs of San Benito County and its waste stream. We don't need to provide another landfill site for the predominant use of Santa Clara County. The price is too high to pay.

Sincerely,

Kent Gordon 3760 Santa Ana Valley Road

Steven Zuniga Margaret Zuniga-Healy Gilbert Zuniga Vincent Zuniga Mary Ann Zuniga 3400 Santa Ana Valley Road

Other neighbors in Santa Ana Valley in agreement with our objections:

Gigi Brisson Lonnie Autry Jr. 4067 Santa Ana Valley Road March 14, 2021

San Benito County Planning & Land Use Division 2301 Technology Parkway Hollister, CA 95023 ATTN: Stan Ketchum

sketchum@cosb.us

RE: Written comments - John Smith Landfill Expansion

Good afternoon, Stan

I attended the virtual meeting on Thursday evening and spoke regarding the issues. I have written them down and have added a few. I will also be emailing pictures along with this written response.

- 1) John Smith Landfill should only be for San Benito County waste and not other counties waste. SBC should not consider taking other counties waste as a way to generate revenue for SBC.
- 2) SBC should be looking at other avenues for revenue I voted for having the Strada Verde project along with the Betabel Road Project. These are both desirable since there is already an off ramp at Betabel Road and this will capture people who are traveling on 101. No traffic impact to Hollister.
- 3) If SBC wants to take out of county waste, SBC should find another location off a major roadway/highway such as 101, 156 or 25 to eliminate heavy trucks onto smaller roadways which cannot handle the wear and tear.
- 4) The current landfill already brings in more traffic with the heavy trucks through the county on Fairview Road causing more damage to already crumbling road.
- 5) The access from Fairview to John Smith Landfill is dangerous. If expansion is approved, part of the expansion will need to realign John Smith Road and make it safe. This should be at the expense of Waste Connections.
- 6) Noise from Fairview is loud just from regular traffic. Heavy Trucks are worse especially on a crumbling road with the noise. Sunnyslope Village, Santana Ranch and Holliday Estates hear increased noise from heavy truck usage on road in need of repair. Is Waste Connections going to be assisting in maintaining Fairview and John Smith Road if expansion approved on a consistent basis? This should be a part of the contract with expansion.
- 7) Heavy Trucks park behind our property and across the road along Santana Ranch Sound wall. Trucks parked along the sound wall are there sometimes all night with some type of motor running. One was there Saturday and I have attached a picture. Trucks parking on sound wall all night happens often.
- 8) I have also attached pictures of garbage behind our property which we pick up from trucks not tarping correctly.

Hydie McDonald 141 Holliday Drive, Hollister, CA 831-902-8608











Kathryn L. Oehlschlager koehlschlager@downeybrand.com 415.848.4820 Direct 415.848.4821 Fax Downey Brand LLP 455 Market Street, Suite 1500 San Francisco, CA 94105 415.848.4800 Main downeybrand.com

March 10, 2021

VIA E-MAIL AND U.S. MAIL

San Benito County Planning and Land Use Division 2301 Technology Parkway Hollister, CA 95023 Attention: Stan Ketchum

E-Mail: SKetchum@cosb.us

Re: JSL Landfill Expansion Notice Letter

Dear Mr. Ketchum:

I am writing on behalf of BAE Systems Land & Armaments LP (BAE) concerning the JSL Landfill Expansion. The County of San Benito's website indicates that the landfill expansion process will include public meetings, opportunities for public feedback, and the preparation of an Environmental Impact Report. Pursuant to Public Resources Code section 21092.2, BAE hereby requests notice of any developments in the County's review of the JSL Landfill Expansion. Please provide any such notices to me at the above address and email address, as well as Duke Collins, whose contact information is as follows:

Duke Collins
Environmental/Safety Engineer
BAE Systems, Inc.
M: (408) 506-8539 | T: (408) 289-0516
duke.collins@baesystems.com
6331 San Ignacio Avenue
San Jose, CA 95119

Sincerely,

DOWNEY BRAND LLP

Kathryn L. Oehlschlager

To Whom it Does Concern:

The request to expand the landfill should not be allowed for the following reasons.

The intersection of John Smith Road and Fairview is not designed to safely allow large trucks turning and lacks dedicated turn lanes.

Water shed and contamination of our already compromised ground water resources.

The valley and hills that the landfills proposed expansion include areas that are home to birds of prey that have limited resources already.

Funds received for dump can not out pace the long range damage to the entire road structure in San Benito. People coming to dump here do not bring any additional funds to Hollister or San Benito. They stop in other towns with better services.

Clarity should be made on who is proposing/presenting this and full disclosure of their financial interests in the expansion.

3 years ago we made a decision to move to a rural environment to raise our family. We were planning on moving to Oregon to fulfill our dream when we fell in love with Hollister. We wanted to show our children the value of hard work, dedication, and how to be a steward of the land. The expansion of the current land fill to take another county's trash is unnecessary and exemplifies short term benefit for long term loss for our future generations.

Tyler Siegert

4375 John Smith Road

Hollister CA 95023

Mr. Ketchum

Supervisor Medina

Supervisor Tiffany

Supervisor Gonzales

Supervisor Hernandez

Supervisor Kosmicki

RE: Landfill Expansion

I am not writing to you to stop the forward progress of the landfill expansion because I know that is futile. However, I would like to bring up some points that you may not be aware of.

I have lived 1 ½ miles past the landfill for 70 of my 76 years so I consider myself somewhat knowledgeable on the subject. I will list our concerns, not necessarily in order of importance:

- 1. I believe the County should be responsible for the situation at the intersection of John Smith and Fairview Road. There is no left turn lane from Fairview to John Smith which makes it very dangerous to turn onto John Smith Road with speeding traffic coming up behind you on Fairview. Creating more traffic going to the landfill will be even more dangerous.
- 2. Our family was REQUIRED to pay \$6,468.72 to install a light at the intersection of John Smith and Fairview on October 3, 2007. However, the light is not there and our money has not been refunded! Can we expect this matter to be brought to a just resolution plus interest?
- 3. There is also a very dangerous situation with sometimes up to 20+ cars lining up to turn left into the landfill off of John Smith Road. The entire lane is blocked to all traffic going east and west. There needs to be a safer way to get the traffic into the landfill or an extra lane for that traffic only
- 4. The Landfill need to mitigate the cleanliness of the road on a regular basis. It has been better since I spoke to Supervisor Tiffany but we are still picking up nails, screws etc. in our tires.
- 5. We were promised a beautification project at the entrance to the Landfill and that has not been fulfilled.
- 6. Out of town trucks are dumping from daylight to dusk while county residents must adhere to the hours posted by the Landfill.
- 7. The Landfill also needs to mitigate the blowing of trash, papers, plastic etc. onto neighboring properties. This foreign matter gets ingested by the cattle and other livestock and can very well cause deaths. I saw a calf with a piece of plastic hanging out of its mouth just last week.
- 8. I have copies of the contracts between the County and the various companies who ran the landfill from 1987 to 2011. In 2010 the estimated life of the landfill was 59 years!!!!! Interesting!

- 9. It also states in that 2010 contract that the company running the landfill would be responsible for maintaining the roads. I wonder if we are negotiating a smart contract for the benefit of the county?
- 10. In regard to what is best for our county, do we collect enough fees from the company who runs the landfill to pay for the road damage that is being caused but the large out of town trucks that are dumping in San Benito County? There are trucks coming from the San Joaquin Valley so it is easy to assume that they must pay a lot less to dump in our county than to dump in their county and not have the additional transportation costs. They are also dumping garbage that has had the recyclables removed. These other communities are benefiting from the recyclable materials and we are being used as purely a dumping ground.

Thank you for listening to our concerns

Sally Silva
4155 John Smith Road
Hollister, California 95023
831-637-4333 or 831-801-4779 (cell)
shortsal@razzolink.com

Stan Ketchum
San Benito County Planning and Land Use Division
2301 Technology Parkway
Hollister CA 95023-9174



Re: John Smith Landfill expansion.

Dear Mr. Ketchum,

The concerns I'm voicing are not merely my own, but those of other Hollister citizens with whom I've spoken.

- 1) Why are we allowing other counties to use our disposal area and use up our land that will be much needed for future generations? 80% of garbage is coming from outside our county—this is ridiculous! These trucks are coming in from great distances and could be driving shorter distances to disposal areas in their own communities. Thus, they are increasing traffic needlessly and causing roads to deteriorate quickly with their tonnage. It just doesn't make sense to rational thinking people.
- 2) Heatherwood Estates already has a serious water problem with underground levels of toxins being too high. Increasing the acreage of the John Smith Landfill has the potential of toxic runoff being detrimental to the aquifer in the area.
- 3) Much damage is done to John Smith Rd. from the large trucks, not to mention the debris that blows onto the road, into pastures, and into neighbors yards. Is adequate money being set aside to make the repairs that will be needed and to pay for regular cleanup in the area?
- 4) EIR—is nature truly being considered or just money, money, money? Are we looking at short term profits at the expense of long term benefits: views, birds chirping—or lots of noise from trucks and equipment? When we lose a little acreage to maintain San Benito County, we are agreeable to growth; however, when we lose a lot because other counties want to use our land to provide for their citizens, this is completely intolerable.
- 5) What will be done with the hazardous waste since this site will become a Class III site? I can't seem to find an answer to this online. Please address this in your proposal.

As I listened to the people on the zoom meeting on March 10, 2021, only 1 person had anything positive to say regarding this proposal—a former supervisor. When the gentleman from the state spoke, he indicated that the county was not meeting the state's requirements. His comments were not adequately addressed. If everything is being done correctly, it should have been easy to give a straight forward answer.

It is clear that the majority of citizens are opposed to this proposal. I pray that we can trust the city and county staff to make decisions in the best interests of the citizens of Hollister, California.

Thank you,

Sharon Thompson

461 Irma Dr

Hollister CA 95023

KINDNESSHERE DOUTLOOK. COM

My name is Lisa Tobias. I live in Santa Ana Valley and as I do not have garbage service at my home, I utilize the John Smith Landfill for disposal of household garbage approximately once a month. I also utilize the recycle bins at the land fill for all plastics, glass, metal and paper products which I divert from my trash.

Firstly, I was an active participant in the last major landfill issue which resulted in the "Mandy Rose Resource Recovery Park" (RRP) and re-zoning of the property across the street from the John Smith Landfill. I listened in on the second of the zoom meetings for the proposed expansion. Many of the same citizen concerns were expressed for both projects, particularly roads, traffic and water quality.

My concerns are in regards to the Santa Clara usage of the San Benito county landfill. As background, the population of Santa Clara County is 1.9 million people (2019 data) who reside in 15 cities and the unincorporated parts of the county. There are at least 7 landfills in that county. In contrast, San Benito County has approximately 63,000 residents and one landfill at that same time period. The level of sophistication and complexity of waste management in Santa Clara County mirrors the exponential difference in population bases of the two counties. I understand that previous San Benito County governing bodies negotiated the agreement as a source of revenue for San Benito County. As disclosed during the RRP discussions, some part or all of the fees collected from the Santa Clara fees were designated/earmarked for the landfill in some capacity and not available to the general fund therefore not usable for things like road repair from the damage of the roads from the large vehicles transporting the garbage on roads that were not designed for heavy vehicle traffic. QUESTIONS: What is the intended use of funds generated by the acceptance of out of county fees? Will this bolster the general fund for infrastructure improvements or other budgetary liabilities? Or is this designated money used as a budgetary tool which can be borrowed for other purposes?

In reviewing the Santa Clara Waste Management website, I could find no mention in the minutes of their meetings regarding the agreement with San Benito County. It is clear from that website that the state has set benchmarks for waste disposal that must be met. The SCC site describes goals of 50% diversion of organics, recycling, and hazardous waste from garbage. (Ads in the Freelance indicate that Monterey County is targeting 75% diversion by 2025.) No organic material is permissible in the Santa Clara landfills. **QUESTIONS:** What materials are being disposed of in the San Benito County landfill from Santa Clara County? Is this material the garbage left over after diversion or is it a way of disposing of material they don't want accounted to their own landfills? Is San Benito County being used as a pawn in the big world of waste diversion?

During both the RRP and expansion discussions, it was mentioned that Santa Clara County uses the John Smith Landfill as it is "cheaper" than using the Santa Clara county landfills.

QUESTIONS: Cheaper than the actual fees or cheaper than acquisition and development of additional landfills in Santa Clara County? Cheaper than not meeting diversion benchmarks?

The situation is much like the old story of a man asking a husband if the husband would allow the man to sleep with the husband's wife for a million dollars. The husband thinks for a minute and then agrees. The man then offers \$100. Now the husband is insulted. The man then states "We have already determined WHAT you are, now we are setting the price." Through past decisions, San Benito County officials have determined that our asset is for sale. If that is still the case, it is now time to re-negotiate the price. If this asset is indeed for sale, what benefits are there for San Benito County?

Lastly, as a consumer of the landfill facilities, I would be interested to know if a transfer station is in the proposal for self-haul loads coming into the landfill. The materials currently being disposed of by self-haulers is a mixture of yard waste, food waste, plastics, wood, metal, construction waste and paper products. There is no sorting of materials. With the restrictions of diversion in place in neighboring counties, why isn't San Benito County moving toward meeting diversion goals?

I appreciate the opportunity to participate in a discussion on issues pertinent to our local community. I do find, however, two zoom meetings held on the topic of landfill expansion woefully inadequate for the opportunity of the citizenry to voice their opinions. During the RRP discussions, it was input from citizens that led to the site-specific zoning which prevented composing and allowed the proposal to be approved. I also find it interesting that the same ground the county fought so hard to make into the RRP (still unrealized) is now going to be the mitigation ground for the proposed expansion.

Sincerely,

Lisa Tobias
6750 Santa Ana Valley Road
Hollister, CA 95023
831-635-0246

APPENDIX B

DESCRIPTION OF CURRENTLY PERMITTED SITE OPERATIONS

DESCRIPTION OF JOHN SMITH ROAD LANDFILL CURRENT PERMITTED SITE OPERATIONS

1 LANDFILL OPERATIONS

OPERATING HOURS

The John Smith Road Landfill (JSRL) is open for commercial refuse disposal operations seven days a week during daylight hours, meaning that portion of the day between sunrise and sunset. The landfill receives refuse from the public from 8:00 a.m. to 4:00 p.m. Monday through Friday and 9:00 a.m. to 3:00 p.m. on Saturdays and Sundays. No landfill activity occurs during nighttime hours. The JSRL is closed on the following holidays: New Year's Day, Easter Sunday, Thanksgiving Day, and Christmas Day. The landfill may close on the Fourth of July instead of Easter in certain years with appropriate notification to the Local Enforcement Agency. The San Benito County Integrated Waste Management (SBCIWM) Regional Agency may limit access to the landfill by the general public if safety conditions warrant limiting access. The majority of the landfill operations personnel work from 7:00 a.m. to 5:00 p.m., Monday through Sunday. However, some employees work staggered shifts to cover the early and late hours, as well as peak waste delivery periods. Landfill staff may be present for two hours before and after the landfill is open to the public to perform regular maintenance and cover the waste.

OPERATION CYCLE

Vehicles currently enter the site from John Smith Road through the entrance gate and then proceed to the scales where waste-generation location and characterization is recorded. The waste is viewed for unacceptable materials by the scale house operator (as a component of the site's load checking program, described in further detail below) and weighed. The majority of the waste received at the JSRL is delivered by commercial collection, transfer trailer, and self-haul vehicles; the remainder of the waste is delivered by residential self-haul vehicles. A public recyclable drop-off area is located before the scales and is used by the public to drop off mixed recyclables (e.g., cans, bottles, paper, and other common recyclables). A recoverables storage area is located near the scale house and those loads with mattresses, tires, e-waste, universal waste (mercury containing devices, etc.) and other recoverables, are directed to this area before being directed to the working face. Recoverables are removed from the site by various recyclable processors.

Waste is unloaded at the working face, spread, and compacted as described below. After leaving the working face, vehicles return to the scale house. Those that have tare weights established in the scale computer are charged and ticketed on the inbound scale while entering the facility, thereby allowing them to leave the facility without crossing the outbound scale. Other vehicles are weighed on the outbound scale for ticketing purposes. Vehicles drive through a recently installed wheel-washing facility before departing the site.

DAILY FILLING AND COVER PROCEDURES

Waste materials are placed in the modules, in lifts ranging from 15- to 30-feet thick. The slopes of each lift are typically approximately 3 to 1 horizontal-to-vertical slopes but may be steeper on temporary slopes. Each lift is comprised of a series of two-foot-thick layers of waste up to 200 feet wide that have been compacted by waste-compacting equipment. At the end of each day, the working face of the lift is covered with either six inches of compacted soil or an alternative daily cover (ADC). Title 27 CCR allows landfills to use the following as ADC without performing a demonstration project as long as each one is approved by the Local Enforcement Agency (the asterisks* indicate materials that are considered beneficial reuse under the applicable state regulations):

- ► Geosynthetic Fabric or Panel Products (blankets, e.g., tarps)
- ► Foam Products
- Processed Wood Waste and Green Material*
- Sludge and Sludge-Derived Materials*
- ► Ash and Cement Kiln Dust Materials*
- ► Treated Auto Shredder Waste*
- Contaminated Sediment, Dredge Spoils, Foundry Bonds, Energy Resource Exploration and Production Wastes*
- ► Compost Materials*
- ► Processed Construction and Demolition Wastes*
- ► Shredded Tires*
- ► Spray-Applied Cementitious Products

Currently, tarps, foam products, processed green- and wood-waste materials, sludge, treated auto shredder waste, processed construction and demolition debris, and spray applied cementitious products, have been approved by CalRecycle for use as ADC. Other ADC besides the above pre-approved list may be proposed to CalRecycle, prior to use. The daily cover is intended to control litter and odors, discourage vectors, improve surface stability for landfill vehicles, reduce leachate generation and reduce fire risks.

Lifts that will not or have not been covered with waste within 180 calendar days receive additional, "intermediate" soil cover to ensure a minimum soil cover thickness of one foot. The intermediate cover is placed and compacted to minimize rain infiltration and promote drainage. These intermediate covers are also intended to help minimize odors created by decomposing waste, prevent the emergence of flies, and minimize the potential for fires to ignite in the waste.

Heavy equipment used for these procedures includes dozers, compactors, excavators, articulated dump trucks, water trucks and service trucks. This equipment is in service throughout the day on all days of operation. Water truck use is limited during wet weather periods.

SANITARY FACILITIES

Consistent with Title 27 CCR §20550, toilets and hand washing facilities are located at the scale house and in the employee breakroom. Water for these facilities comes from water tanks located on the hill northwest of the scale house. The tanks are filled with water obtained from a fire hydrant within the Sunnyslope County Water District. Sewage is discharged to the City of Hollister sewer system that services the facility. Portable toilets with hand washing units may be placed near the working face for landfill personnel and customers.

WATER SUPPLY

No potable water source is available on the site. The landfill personnel are provided bottled water for drinking water supply. Water for dust control is obtained either from on-site storm-water retention ponds or from the Sunnyslope County Water District, as described above.

2 DISPOSAL AREA CONSTRUCTION METHODS

The current permitted disposal area covers approximately 58 acres. The disposal area has been constructed in "modules." The footprint of each module depends on the area needed to support the current volume consumption and operating parameters. Operating parameters include the areas needed for winter tipping pads, and to allow efficient construction and waste-fill sequencing. Module construction includes excavating native soil/bedrock, screening excavated soil to generate the required clay and operations layer, installing a composite liner to contain waste within the disposal area, filling the modules with waste, and collecting and removing leachate and methane gas produced by waste. Minimum design standards are regulated federally by 40CFR Part 258, and in California by Title 27 CCR, and regulated locally by the Central Coast Regional Water Quality Control Board (CCRWQCB) via Waste Discharge Requirements (WDRs).

MODULE EXCAVATION

Excavation for the next new module begins while existing modules are being filled. Excavated material from a new module is used as daily or intermediate cover for the active modules. The native soil consists of extremely weathered bedrock (saprolite) that has the structure and bedding of bedrock, but the consistency of rocky soil when excavated. A portion of the soil excavated during module excavation is screened to remove rocks so that it can be used for low-hydraulic conductivity clay and operations layer portions of the liner system. Boulders that are exposed during excavation are either crushed and the crushed material used for on-site uses or are used off-site as "rip-rap" for erosion control. Some of the excavated soil is used for fills to create perimeter containment, berms, temporary ramps, or for "visual berms."

Excess excavated material that has not been used for one of these uses, is stockpiled on site. The three primary locations include the Class I Area Stockpile, Stockpile 3, and a short-term stockpile east of the Class I Area as shown on Figure 3-5 in Chapter 3, Project Description, of this Draft EIR. Stockpiled soil is graded to drain into drainage swales and downdrains. The soil stockpiles are seeded to prevent erosion. The stockpiled soil will be used for daily and intermediate cover, the final closure cap, and other needs (including leaving soil in the Class I Area to provide drainage after closure).

Heavy equipment used for module excavation includes scrapers and/or off-road dump trucks, graders, excavators, screening plants, rock crushers, water trucks, and service trucks. The amount of time each of these pieces of equipment is in use varies, although water trucks are in nearly constant service during the dry season. During periods where excavation of new modules is accelerated due to demand for additional

disposal space, multiple scrapers and graders are in intensive daily use for as long as six months per module.

MODULE LINING

The sideslopes and bottom or "base" of each module are lined with a composite liner. The past and current WDRs have required that design reports, including a construction quality assurance plan, be submitted to the CCRWQCB for approval of the liner system prior to construction. Both Title 27 CCR and 40 CFR Part 258 allow alternative liner designs that provide equal or better performance than the prescriptive configuration listed in the regulations. The following is the alternative liner design that has been approved by the CCRWQCB for the site, from bottom to top:

Module Floor (from bottom to top)

Liner System:

- Prepared native subgrade.
- ► Minimum 1-foot-thick compacted soil liner with a maximum hydraulic conductivity of 1x10⁻⁶ cm/sec.
- ► Geosynthetic clay liner.
- ► Minimum 60-mil thick high-density polyethylene (HDPE) geomembrane textured on both sides (Modules 2 through 6 have single-sided textured smooth side up).
- ► Twelve ounce/square yard woven geotextile cushion layer, if needed.
- ▶ Minimum 1-foot-thick pea gravel drainage layer
- ► Eight-ounce nonwoven geotextile separator.
- ▶ Minimum 1-foot-thick soil operations layer.

Module Sideslopes (from bottom to top)

Liner System:

- ▶ Prepared native subgrade.
- ► Geosynthetic clay liner.
- ▶ Minimum 60-mil-thick, single-sided textured HDPE geomembrane, textured side down.
- ▶ Minimum 2-foot-thick soil operations layer.

3 LANDFILL CLOSURE

Upon closure, final landfill covers are installed to ensure waste is contained within the modules and to control nuisances (vectors, fire, odor, litter, landfill gas migration, etc.). The current landfill is divided into the unlined "pre-Subtitle D," Module 1, and lined "Subtitle D" Modules 2 through 8. The entire

landfill is proposed to be closed using either a proscriptive cap or an approved evapotranspirative cap, as described below.

PRESCRIPTIVE CAP - UNLINED AREAS

The prescriptive closure cap (as described in Title 27, CCR) for an unlined landfill consists of the following (from bottom to top):

- ▶ 24-inch-thick foundation layer compacted to the maximum density obtainable at optimum moisture content using methods that are in accordance with accepted civil engineering practice. As described below, the bottom 0.5 feet will be constructed from recompacted operations layer soil.
- ▶ 12-inch low hydraulic conductivity (barrier) layer consisting of clay meeting the following criteria:
 - o Permeability no faster than 1×10 -6 cm/sec as calibrated using a test pad.
 - o No less than 30% passing a No. 200 sieve.
 - o Plasticity index no less than 10.
 - o Compacted as described above for the foundation layer.
- ▶ 12-inch erosion resistant/vegetative layer suitable for supporting plant life.

PRESCRIPTIVE CAP - LINED AREAS SUBTITLE D CAP - GENERAL

According to Title 27 CCR, §21090 (a)(2), the [Subtitle D] closure cap must have a barrier or low-hydraulic conductivity layer with a hydraulic conductivity equal to or less than the hydraulic conductivity of any bottom liner system or underlying natural geologic materials, whichever is less permeable. Because the geomembrane is the lowest permeability element of the liner, it controls the permeability. For this purpose, a 60-mil textured linear low-density polyethylene (LLDPE) geomembrane is assumed. The following layers from bottom to top are proposed:

- ▶ 24-inch-thick foundation layer, consisting of 8 inches of recompacted intermediate cover and 16 inches of added soil.
- ▶ 60-mil LLDPE geomembrane.
- ▶ An 8-oz nonwoven geotextile cushion on the top deck to protect the geomembrane from puncture.
- ▶ Geocomposite drainage layer on the sideslopes to provide stability.
- ▶ 18-inch-thick erosion resistant/vegetative layer suitable for supporting plant life.

EVAPOTRANSPIRATIVE CAP

According to Title 27 CCR, Section 21090: "The RWQCB can allow any alternative final cover design that it finds will continue to isolate the waste in the Unit from precipitation and irrigation waters at least as well as would a final cover built in accordance with applicable prescriptive standards under (a)(1-3)."

The Joint Technical Document for JSRL (Lawrence & Associates 2018) describes an evapotranspirative (ET) cap for closure of JSRL as an alternative to the prescriptive caps described above. An ET cap prevents infiltration of rainfall by storing the portion that does not runoff and then removing the water via evapotranspiration (uptake by plants). ET caps have been approved for use by the CCRWQCB at other landfills in California. The Joint Technical Document describes the following layers (from bottom to top):

- ▶ 0.5 feet of recompacted intermediate cover.
- ▶ 4 feet of added soil.
- ► An 8-oz nonwoven geotextile capillary break (if needed).
- ► An extra foot of soil (if needed).

For planning purposes, it is assumed that the closure cap will consist of soil, five feet thick with an 8-ounce per square yard nonwoven geotextile somewhere within those 5 feet. The Operator may select the lowest cost option of those described above prior to final closure. Presently the ET cap option is anticipated to cost slightly less than the geomembrane option. It is also anticipated that an ET cap will be simpler and less costly to maintain during the post-closure maintenance period.

For all the capping options, a portion of the closure cap that is steeper than 3 to 1 may be capped with riprap to provide an erosion resistant layer in lieu of a vegetative layer.

4 ENVIRONMENTAL CONTROLS AND MONITORING

The following is a summary of the current environmental controls and monitoring at JSRL. Groundwater, vadose-zone, leachate, surface-water, and corrective-action monitoring reports are submitted to the CCRWQCB semiannually and are available on the State of California GeoTracker website. Perimeter landfill-gas monitoring results are reported to CalRecycle quarterly. AB 32 monitoring and Title V results are submitted annually to the U.S. Environmental Protection Agency.

LEACHATE COLLECTION AND RECOVERY SYSTEM

A leachate collection and recovery system is installed in each lined module above the liner system. Title 27, CCR and 40 CFR Part 258 require that the head (liquid depth) on the liner system remain below 30 cm (one foot). To provide for this requirement, the leachate collection and recovery system includes a layer of a high-permeability "granular drainage layer" typically consisting of fine gravel commonly described as "pea gravel." The granular drainage layer drains into a series of perforated pipes laid in gravel-filled trenches that route leachate into a "sump." A blanket of non-woven geotextile fabric is laid on top the gravel drainage layer to prevent fine soil particles from the overlying soil "operations layer" from clogging the granular drainage layer. Leachate that collects in the sump is pumped directly to the City of Hollister sewer line located within John Smith Road. The leachate piping and pumping systems are designed to accommodate no less than twice the anticipated maximum leachate flow.

Heavy equipment used in preparation of the leachate collection and recovery system includes gravel delivery trucks and flatbed trucks used to deliver piping and other supplies. To avoid damaging the liner system, the granular drainage layer is commonly pushed onto the liner using a low-ground pressure dozer and gravel for the collection trenches is commonly placed by a loader or skid-steer loader either prior to construction of the surrounding liner system or after completion of the entire liner and leachate collection and recovery system.

The rate of leachate generation depends on seasonal rainfall quantities and the depth of waste over the granular drainage layer system. Deeper waste and low rainfall result in lower leachate generation. In the future, the final closure cap will reduce the leachate generation to a negligible rate. Leachate production is monitored monthly and leachate composition is monitored annually as part of the Monitoring and Reporting Program (MRP) required by the CCRWQCB. Currently, leachate is monitored from the Module 3A leachate sump that collects leachate from Modules 2 through 6 and the Modules 7 and 8 leachate sumps. Analytical results have indicated the leachate is non-hazardous.

LANDFILL GAS COLLECTION AND REMOVAL

Landfill gas is generated by the anaerobic (without oxygen) decomposition of organic material in waste. Landfill gas is made up primarily of methane and carbon dioxide with some nitrogen, oxygen, and other trace compounds. Because Title 27, CCR requires that the methane in the soil at the "facility boundary," remain below 5% by volume, and because Assembly Bill (AB) 32, requires collection and control of greenhouse gasses, a landfill gas collection system is in operation at the JSRL. The landfill gas collection system uses blowers to provide vacuum to both vertical wells and horizontal collectors (also called horizontal wells) installed into the waste. Because landfill gas typically consists of 50 to 60 percent methane, it is combusted in an on-site landfill gas "flare" located adjacent to the entrance area. While the flare generates carbon dioxide, it eliminates methane, which is a much more potent greenhouse gas than carbon dioxide. The flare also destroys any trace gases either present in the waste or generated during the waste decay process.

The system was originally designed to reduce subsurface migration of gas from the unlined Module 1. Subsequent to the passage of AB 32, the system was tasked with reducing surface emissions and is currently operated to maximize flow, which can result in methane in the discharged gas as low as 35%. Landfill gas is currently combusted in a landfill gas flare that is sized for 22.93 million British Thermal Units (MMBtu) with a flow ranging from 160 cubic feet per minute (cfm) to 755 cfm at 50% methane and up to 1,200 cfm at 30% methane. The flare will be replaced or upgraded to provide higher flow, as needed. Landfill gas is typically 90 to 100 degrees F and near 100 percent humidity. As the landfill gas enters and flows through collection piping on the surface, the humidity condenses in the pipe and forms "condensate" that flows down the pipe and is collected and pumped into the sewer system. Condensate generation is roughly proportional to the landfill gas flow rate.

Horizontal collectors are installed periodically as lifts of waste are placed. Vertical wells are installed periodically to provide additional control as needed.

Landfill gas is monitored under the following programs:

- ► Title 27 CCR: Perimeter gas monitoring probes are monitored quarterly to ensure that methane content remains below 5% by volume and on-site structures are monitored quarterly to ensure that methane remains below 1.25% by volume.
- ▶ AB 32: Surface emissions are monitored quarterly to ensure that methane emissions remain below the required limits. The flare is monitored annually to ensure 99% methane destruction.
- ► Title V: The flare is tested annually to ensure destruction of trace gasses.

STORM WATER MANAGEMENT AND MONITORING

The storm water management system includes a series of benches, culverts, natural drainage channels, and sedimentation basins. Finished landfill slopes are graded at a 3 to 1 horizontal-to-vertical slope or

flatter. Each finished slope includes benches placed no less frequently than every 50 feet of elevation. These benches intercept runoff to minimize slope length and route the water into earthen, grass, or rocklined ditches. The flat surface at the top of the slope, referred to as the "top deck," is graded to have slopes of approximately three to five percent, so that water neither ponds on the surface nor runs-off too rapidly, thereby reducing the chance for erosion.

Surface-water runoff is directed to one of three stormwater and sediment detention basins (Figure 3-5 in Chapter 3, Project Description, of this Draft EIR), where sediment and other debris can settle out. The basins have been designed to accommodate flows resulting from 100-year, 24-hour storm flow. Additionally, temporary stormwater basins may be constructed adjacent to lined modules at low spots so that stormwater can be pumped into the nearest drainage. The basins, once full, eventually outfall to an unnamed drainage swale south of John Smith Road or the drainage swale along the north side of John Smith Road.

Surface water runoff is monitored under two separate programs. Surface water monitoring is required by the CCRWQCB under MRP 2014-0047 and storm water monitoring is performed under the State of California General Industrial Storm Water Permit (No. 2014-0057-DWQ as amended in 2018) quarterly during "qualifying storm events."

GROUNDWATER MONITORING SYSTEMS

Groundwater monitoring has been conducted at the existing landfill and Class I Area since 1985. Wells have been added over time to characterize the landfill and Class I Area geology and water quality. Currently 23 active groundwater monitoring wells and five groundwater extraction wells are located within the existing landfill and Class I Area. In 2020, an additional 11 wells were installed in the 388.05-acre expansion area.

Groundwater monitoring is performed for several programs identified in the site's WDRs and MRP 2014-0047. The Class I facility has one monitoring program: the Post-Closure Detection Monitoring Program. The Class III facility has two programs: the Detection Monitoring Program and the Corrective Action Monitoring Program. More detailed information is included in Section 4.8, Hydrology and Water Quality, of this Draft EIR.

GROUNDWATER EXTRACTION SYSTEM OPERATION AND MONITORING

A groundwater extraction system, consisting of five downgradient groundwater extraction wells, was installed between 1992 and 2008 in response to a historical release of traces of volatile organic compounds (VOCs) from the Class I and adjacent Class III Area (east end of Module 1). The groundwater extraction system contains three on-site extraction wells: EW-1, EW-4, and EW-5; and two off-site extraction wells: EW-2 and EW-3. Extracted water is discharged to a sanitary sewer line along John Smith Road. The system is automated to maintain an inward flow of groundwater toward each well. The goal of the on-site extraction system is to hydraulically contain the VOCs in groundwater to eliminate continued off-site migration. The goal of the off-site extraction system is to hydraulically contain the VOC plume to stop downgradient migration and to reduce the concentration of the VOCs to below health-based levels.

Groundwater from the extraction wells is monitored for compliance with MRP R3-2014-0047, Wastewater Discharge Permit 92-002 (City of Hollister), and the Monterey Bay Air Resources District (MBARD) Permit to Operate 14070 for contaminated water cleanup. Each extraction well has a sampling port from which samples can be collected. MRP R3-2014-0047 requires weekly inspection and maintenance, monthly flow volume measurement, and annual sampling from each well as part of the

corrective action monitoring program. Sampling is to be performed by staff of the Domestic Wastewater Treatment Plant. The MBARD permit does not specify a monitoring frequency but states the concentration of vinyl chloride in the extracted water being sent to the wastewater plant must not exceed 59 micrograms per liter.

UNSATURATED-ZONE MONITORING

Sampling in the unsaturated zone (above the groundwater table and below the ground surface) is performed by collecting soil gas from perimeter landfill gas monitoring wells GP-2, GP-2A, GP-3A, GP-6, GP-7, GP-9, GP-10, GP-11B, GP-12, and GP-13. Each location includes multiple nested probes. The probes are monitored quarterly with field instruments and annually for volatile organic compounds by USEPA Method TO-15 as part of the corrective action monitoring program consistent with the monitoring frequency specified in the MRP.

5 Nuisance Controls

The following sections describe the measures that are required by Title 27 CCR §21600(b)(7)(A) to be implemented at the site to minimize or eliminate nuisances associated with the operation of the landfill.

ODORS

Odors are generated by the aerobic and anaerobic decomposition of waste at the landfill. The decomposition of buried wastes results in the creation of methane gas and carbon dioxide, which are mostly odorless, but can also result in the creation of volatile organic compounds, which contain odors. These gasses are collected and destroyed by the landfill gas extraction system. Odors generated by waste that is decomposing in active disposal area cells are controlled through the application of ADC, daily soil cover, and intermediate cover materials. In addition, piles of green waste awaiting processing are monitored for temperature and turned when needed so that the compost process, which can be odorous, does not commence. Based on a review of CalRecycle Inspection Reports, no odor complaints have been made in connection with JSRL in at least the last two years (Lawrence & Associates July 2021)

FIRE CONTROL

Fires could occur as rangeland wildfires from off-site sources, equipment malfunction, spontaneous combustion, pre-existing fire in a delivered load, overdrafting the landfill gas collection system, or lightning strikes. A fire break is always maintained along the perimeter of the landfill in compliance with State and local requirements.

Operating equipment is equipped with spark arrestors and fire extinguishers. Regular maintenance of landfill equipment and vehicles minimizes the potential for equipment fires by removing debris and dust from undercarriages and engine compartments. In addition, equipment is regularly inspected for oil and fuel leaks and repaired as needed. The equipment fire extinguishers are visually inspected and serviced/recharged on a regularly scheduled basis. In addition, fire extinguishers are also located in all onsite buildings and on all support vehicles.

Piles of green waste are monitored regularly for temperature to ensure that they do not compost or reach temperature that could lead to spontaneous combustion.

The landfill equipment operators have been trained in the methods of handling accidental and small fires at the active face of the landfill. Soil is available to cover burning waste and a 2,500-gallon water truck is available.

DUST CONTROL

The primary dust control measure at the site is the paving of the main access road. Additional measures consist primarily of access road maintenance and periodic spraying of water on access roads, unloading areas and stockpile areas when fugitive dust conditions exist. A 2,500-gallon water truck is used to spray water on all roads, stockpiles, and waste unloading areas prone to dust generation. In addition, dust masks are available to minimize employees' exposure to dust. Rumble plates are used at the landfill exit to reduce the potential for soil tracking onto surrounding streets. Also, a one-wheel rotation wheel wash is used for trucks.

VECTOR AND BIRD CONTROL

A vector is an organism that transmits disease or infections. Vectors commonly associated with landfills include insects, rats and mice, and birds, particularly crows and gulls. Vectors can potentially spread diseases by carrying decaying waste containing bacteria, viruses, and other organisms off-site, or by becoming infected themselves and coming into contact with humans, animals, or plants in surrounding areas. Gulls are the prevalent vector present at the landfill.

Refuse compaction, maintaining a manageable size working face, and the application of daily cover are the most effective preventions against the propagation of vectors on a landfill site. Site personnel inspect landfill areas daily for any signs of rodent activity and implement the necessary measures to minimize vector nuisances. Professional pest control services are used, as necessary.

Operations are designed to reduce or eliminate the attraction of birds and other vectors. Operational methods may include the use of bird dispersion techniques, such as physical disturbance and falconry. No fly (insect) problems associated with ongoing operational practices have been observed at the landfill.

LOAD CHECKING PROGRAM

A load checking program is conducted at the landfill prior to delivery of waste to the working face. Vehicles are screened at the scale house by trained personnel. The load checking program is intended to identify and remove hazardous and otherwise prohibited wastes from the waste stream prior to disposal. The staff at the scale house routinely question customers regarding the presence of household hazardous materials or unacceptable material in their loads. Vehicles carrying wastes are stopped at the scale house and weighed or measured. The questioning of customers by scale house personnel may simultaneously involve physical assessment of the waste, inspection for warning labels such as "flammable" or "poison," and for unidentified containers that may contain unacceptable wastes. After screening the loads, customers are directed to the working face. Spotters will generally conduct load content surveillance near the active working face. Waste inspections consisting of a detailed examination of a randomly selected load are regularly performed. If hazardous materials are found at the working face, they will be transported to and temporarily stored in a hazardous-waste containment structure designed specifically for that purpose. Hazardous wastes are stored for no longer than the time period allowed by State regulations (per Title 22, CCR, §66262.34(c)(1)). Licensed haulers remove the waste.

LITTER CONTROL

Wind is the primary cause for fugitive litter around the landfill site. The main control for windblown litter begins at the unloading area through the spreading and compacting of refuse and placement of daily/intermediate cover over all exposed refuse at the end of each working day. In addition, the following measures are implemented to control windblown litter at the site and along John Smith Road:

- ► Construction of waste berms around the outside edge of a waste module to divert wind where feasible.
- ▶ Use of portable wind fences downwind of the waste unloading areas.
- ▶ Use of fixed tall litter fences along the boundary of the active landfill.
- ▶ Use of temporary fixed litter fences around newly constructed modules.
- ► On-site trash collection from litter fences and other areas.
- ► Requiring loads to be tarped and charging a fee for loads that are not tarped.
- ▶ Litter collection along John Smith Road.

The landfill is inspected for litter by landfill personnel and litter is regularly collected. Typically, the litter is placed in plastic bags and disposed of at the working face. County crews also pick up litter along John Smith Road.

NOISE CONTROL

Site operations are conducted in compliance with Cal-OSHA regulations for noise levels. Noise levels of on-site equipment are controlled by the maintenance of mufflers on all motorized vehicles and the installation of alternative CAL-OSHA approved back up alarms that minimize noise drift. On-site speed limit restrictions also help reduce landfill traffic noise. Site personnel are provided with ear plugs or muffs to reduce impacts from continued exposure to on-site noise levels.

APPENDIX C

AIR QUALITY AND GREENHOUSE GAS CALCULATIONS



APPENDIX C

Calculations for Air Quality and Greenhouse Gas/Climate Change

Proposed Landfill Expansion John Smith Road Landfill San Benito County, California

> November 2021 Rev. July 2022

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Table of Contents

| Te | | | Page |
|----|-------|--|------|
| 1. | Intro | oduction | |
| | 1.1. | Purpose | 1 |
| | 1.2. | Thresholds of Significance | 2 |
| 2. | Back | kground Air Quality | 4 |
| | 2.1. | Standards | 4 |
| | 2.2. | Attainment Status | 6 |
| | 2.3. | Background Data | 6 |
| | 2.4. | Wind Direction | 8 |
| 3. | Emis | ssions Estimate from LFG Generation | 8 |
| | 3.1. | LandGem Model | 8 |
| | | 3.1.1. First Order Decay Model | 9 |
| | | 3.1.2. Rate Constant k | |
| | | 3.1.3. Methane Generation Potential L ₀ | 11 |
| | 3.2. | LFG System Collection Efficiency | |
| | | 3.2.1. LandGem Assumptions | |
| | 3.3. | LFG Generation Rate | |
| | 3.4. | The Carbon Cycle | |
| | 3.5. | GHG Emissions from LFG | |
| | 3.6. | Criteria Pollutant Emissions from LFG | |
| | | 3.6.1. Trace Emissions Calculation from LFG | |
| 4. | Vehi | icle Emissions Estimates | |
| | 4.1. | Methodology | |
| | | 4.1.1. On-Road Emissions | |
| | | 4.1.2. Off-Road Exhaust Emissions | 23 |
| | 4.2. | On-Road Emissions from Waste Delivery | 24 |
| | | 4.2.1. Trips and Vehicle Categories | 24 |
| | | 4.2.2. GHG Emissions From Waste Delivery Tr | |
| | | 4.2.3. Criteria Pollutants from Waste Delivery | |
| | 4.3. | Landfill Operation Emissions | |
| | | 4.3.1. GHG | |
| | | 4.3.2. Criteria Pollutants | |
| | 4.4. | Construction Emissions | |
| | | 4.4.1. Assumptions | |
| | | 4.4.2. GHG Emissions | |
| | | 4.4.3. Criteria Pollutants | |
| | 4.5. | Emissions from Combined Scenarios | |
| 5. | | etrical Related GHG Emissions | |
| 6. | Wate | er and Sewer Related GHG Emissions | 54 |

Table of Contents

| Tex | ĸt | | | Page |
|-----|-------|-----------|---|------|
| 7. | Sumr | nary of (| GHG Emissions | 56 |
| | 7.1. | Non-LI | FG GHG Emissions | 56 |
| | 7.2. | LFG & | Combined GHG Emissions | 56 |
| | Seque | estration | | 60 |
| 8. | Air T | oxic Pol | llutants and Health Risk Assessment | 61 |
| | 8.1. | Summa | ary | 61 |
| | 8.2. | Method | dology | 62 |
| | 8.3. | Consul | tation | 63 |
| | 8.4. | Hazard | Identification | 64 |
| | 8.5. | | Assessment | |
| | | 8.5.1. | Information on the Facility and its Surroundings | |
| | | 8.5.2. | Source and Emissions Inventory | |
| | 8.6. | Exposu | are Assessment | |
| | | 8.6.1. | Exposed Population and Receptor Location (all analyses) | |
| | | 8.6.2. | Potential Exposure Pathways | |
| | | 8.6.3. | Evaluation of Exposure Pathways | |
| | | 8.6.4. | Multipathway Evaluation | |
| | 8.7. | Calcula | ation of Exposure Concentrations at Receptors | 68 |
| | | 8.7.1. | Meteorological Data | |
| | | 8.7.2. | Topographical Data | 69 |
| | | 8.7.3. | Model Selection and Rationale | 69 |
| | 8.8. | Toxicit | ty Assessment | 73 |
| | | 8.8.1. | Selecting Receptors for Risk Evaluation | 73 |
| | | 8.8.2. | Cancer Risk | 74 |
| | | 8.8.3. | Chronic Hazard | 75 |
| | | 8.8.4. | Acute Hazard | 75 |
| | 8.9. | Health | Values Used in Dose-Response and Dose Estimates | 76 |
| | 8.10. | Risk Cl | haracterization | 76 |
| | | 8.10.1. | Landfill Gas | 76 |
| | | 8.10.2. | Diesel Particulate Matter | 77 |
| | | 8.10.3. | Combined Risk | 80 |
| | 8.11. | Uncerta | ainties in Health Risk Assessments | 80 |
| 9. | Dispe | ersion M | Iodeling for PM ₁₀ | 81 |
| 10. | Dispe | ersion M | Iodeling for SO ₂ | 85 |
| 11 | Dafa | | | 90 |

Tables

Table of Contents

| B1. | Current State and Federal Ambient Air Quality Standards | 4 |
|-----|--|----|
| B2. | Attainment Status for the North Central Coast Air Basin | 6 |
| B3. | Maximum Background Concentrations for the Project Area | 7 |
| | PM ₁₀ Summary Fairview Road, Hollister Station | |
| B5. | Summary of LandGEM Model | 14 |
| B6. | Baseline and Projected Average Waste Delivery Trips | 25 |
| B7. | Baseline and Projected Peak Waste Delivery Trips | 28 |
| B8. | Off-Site Waste Delivery Vehicle Emissions within MBARD (Indirect) | 29 |
| B9. | Estimated emissions from John Smith Road During a Peak Traffic and Average Day | 31 |
| B10 | . Current Equipment for Landfill Operations | 33 |
| B11 | . Future Equipment for Landfill Operations | 34 |
| B12 | . Summary of Baseline and Proposed Project On-Site Emissions from Operations | 36 |
| | . Construction Equipment per Module | |
| B14 | . Construction Equipment for Entrance Project | 41 |
| B15 | . Construction Equipment for Class I Area Clean Closure | 43 |
| B16 | . Construction Equipment for Closure Project per Year | 44 |
| B17 | . GHG Analyses from Construction Project | 46 |
| B18 | . Peak Criteria Pollutant Analyses from Typical Construction Project, lb/day | 47 |
| B19 | . Combined Operations and Construction - Baseline Scenario | 50 |
| B20 | . Combined Operations and Construction - Scenario 1 Entrance | 50 |
| B21 | . Combined Operations and Construction - Scenario 2 Westernmost Construction | 51 |
| B22 | . Combined Operations and Construction - Scenario 3 Northernmost Construction | 51 |
| B23 | . Combined Operations and Construction - Scenario 4 Easternmost Construction | 52 |
| B24 | . Combined Operations and Construction - Scenario 5 Easternmost Construction | 52 |

B30. Excess Cancer & Non-Cancer (Chronic) Health Hazards from DPM for the Life of the

and Flare LFG Emissions 76

Table of Contents

Figures (Following text)

- B1. North Central Coast Air Basin
- B2. Miles to Edge of North Central Coast Air Basin
- B3. Potential Receptor Location Overview Map
- B4. Location of Analyzed Receptors
- B5. Analyzed Portion of John Smith Road Showing Nearby Receptors
- B6. Wind Rose
- **B7.** Baseline Emissions Configuration
- B8. Scenario 1 Entrance
- B9. Scenario 2 West
- B10. Scenario 3 North
- B11. Scenario 4 East
- B12. Scenario 5 Class I Area Clean Closure
- B13. Queuing Length for Idling Analysis
- B14. Location of RNG Facility

Attachments

- A. Civil and Environmental Consultants LFG and GHG Analysis
- B. LFG Test Results
- C. Flare Source Test Results
- D. GHG from Landfill Gas
- E. Trip Mileage Calculations for On-Road Travel for GHG Analysis
- F. Current Setting-On-Road Trips and Off-Road Operations GHG Emissions Calculations
- G. Proposed Project-On-Road Trips and Off-Road Operations GHG Emissions Calculations
- H. Construction GHG Emissions Calculations
- I. Electrical GHG Emissions
- J. Water and Wastewater GHG Calculations
- K. Trip and Mileage Calculations for Criteria Pollutants Calculations
- L. Current On-Road Trips and Off-Road Operations Criteria Pollutant Emissions Calculations
- M. Proposed Project On-Road Trips and Off-Road Operations Criteria Poll. Emissions Calcs.
- N. Construction Criteria Pollutant Emission Calculations: On-Road and Off- Road Equipment
- O. Combined Emissions Estimates for Scenarios
- P. Dispersion Modeling Spreadsheets
 - P1. LFG Flare
 - P2. Fugitive LFG Emissions
 - P3. Idling Analysis
 - P4. JSR/Fairview Traffic Emissions
 - P5. PM_{10} and SO_2
 - P6. Emissions from Idling and JSR Traffic
- Q. Tables showing Deposition Rates at Receptors
- R. DPM Emissions for Site Life

Table of Contents

Attachments (continued)

- S. Wind Roses
- T. EPA GHG Reduction
- U. Modeled Annual Emissions
- V. RNG Truck Trips
- W. Resumes of Preparers
- X. Potential GHG Mitigations
- Y. Water Use Memo

1. Introduction

1.1. Purpose

This appendix presents the calculations for Section 4.3 - Air Quality of the Draft Environmental Impact Report (DEIR) and Section 4.4 - Greenhouse Gas (GHG) and Climate Change for the Proposed Expansion of John Smith Road Landfill (JSRL or Landfill). This appendix contains only the calculations and explanation of the calculation methods. See the DEIR sections for an explanation of the intent. The calculations are organized to provide emissions estimates for comparison to thresholds of significance as defined in the Monterey Bay Air Resources District (MBARD) California Environmental Quality Act (CEQA) Air Quality Guidelines (MBARD, 2008).

The calculations that are described here include the following:

- Greenhouse gas (GHG) emissions:
 - o Changes between the baseline and Proposed Project GHG emissions from the decay of organic materials in the buried waste known as landfill gas (LFG) either combusted through a flare or emitted from the Landfill surface as fugitive emissions.
 - o Changes in GHG emissions from direct sources (vehicle emissions).
 - o Changes in GHG emissions from indirect sources (power, water, sewer).
- Criteria Pollutants:
 - o Changes in criteria pollutants from construction.
 - o Changes in criteria pollutants from operation.
 - o Changes in criteria pollutants from LFG emissions (part of operation).
 - o Indirect changes in criteria pollutants along adjacent roads.
- Hazardous Air Pollutants (HAPs):
 - o Emissions of trace gases from both combusted and fugitive LFG.
 - o Emissions of diesel particulate matter (DPM).

GHG Emissions analyzed herein include the following:

- Carbon Dioxide (CO₂)
- Methane (CH₄)
- Nitrous Oxide (N₂O)

Other, less common GHGs are not commonly found in vehicle exhaust and LFG emissions are not analyzed herein.

Criteria pollutants analyzed herein include:

- Oxides of Nitrogen (NO_X) as Nitrogen Dioxide (NO₂); an ozone precursor
- Reactive Organic Gasses (ROG); an ozone precursor
- Respirable Particulate Matter (PM₁₀)
- Fine Particulate Matter (PM_{2.5})
- Carbon Monoxide (CO)
- Oxides of Sulfur (SO_X) as Sulfur Dioxide (SO₂)

For on-road vehicles PM₁₀ and PM_{2.5} include vehicle exhaust emissions, tire wear, brake wear and road dust. For off-road vehicles, these items include exhaust emissions and off-road and construction-related dust, where applicable.

NOx is a collective term used to refer to a mixture of nitrogen monoxide (nitric oxide or NO) and nitrogen dioxide (NO₂). NO₂ is the constituent of most interest with regard to air pollution. The ratio of NO₂ to NOx varies based on emission source and other factors, but for modeling purposes NO₂/NOx ratios ranging from 0.5 to 1 are commonly used (SCAQMD, 2006); 1 being the most conservative, although other references cite a lower ratio for diesel exhaust (CIMAC, 2008: 0.05 to 0.1) and a combination of vehicle emissions (Yao, et. al., 2005: 0.1 to 0.3).

SOx is a collective term used to refer to a mixture of sulfur oxides with sulfur dioxide (SO₂) being the component of greatest concern and the most common constituent (SO₃ is found at much lower concentrations). A typical SO₂/SOx ratio is 0.95 for diesel exhaust (CIMAC, 2008).

1.2. Thresholds of Significance

MBARD does not have an adopted threshold of significance for GHG. The federal reporting requirements in 40CFR Part 98, Subpart HH has a threshold of 25,000 MTCO₂e that triggers reporting of GHG related to LFG from landfills. Other air districts commonly use a threshold of significance of 10,000 MTCO₂e per year (South Coast Air Quality Management District (SCAQMD) and Sacramento Metropolitan Air Quality Management District (SMAQMD)) for the operation phase of a project. However, those thresholds were developed for land development projects and are not specifically related to landfill expansion projects. The Bay Area Air Quality Management District (BAAQMD) provides qualitative thresholds for land use projects¹ (which must include A or B), as follows:

¹ Bay Area Air Quality Management District Justification Report, CEQA Thresholds for Evaluating the Significance of Climate Impacts, April 2022.

- A. Projects must include, at a minimum, the following project design elements:
 - 1. Buildings
 - a. The project will not include natural gas appliances or natural gas plumbing (in both residential and nonresidential development).
 - b. The project will not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines.

2. Transportation

- a. Achieve a reduction in project-generated vehicle miles traveled (VMT) below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's Technical Advisory on Evaluating Transportation Impacts in CEQA:
 - i. Residential projects: 15 percent below the existing VMT per capita
 - ii. Office projects: 15 percent below the existing VMT per employee
 - iii. Retail projects: no net increase in existing VMT
- b. Achieve compliance with off-street electric vehicle requirements in the most recently adopted version of CALGreen Tier 2.
- B. Be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).

SCAQMD provides a low bright-line threshold (3,000 MTCO₂e) for building projects and states that construction emissions should be amortized and added to construction emissions; BAAQMD advises that construction emissions should be disclosed, but do not need to be added to operational emissions. To be conservative and because landfills are constructed in phases, the construction emissions are assumed to be part of operations and are included in the operation emissions described herein. For the purposes of GHG analyses, a conservative zero threshold is used for GHG control.

In their CEQA Guidelines, MBARD provides thresholds of significance for criteria pollutants and health risk from HAPs that are cited herein.

2. Background Air Quality

2.1. Standards

The California Air Resources Board (CARB) and the Environmental Protection Agency (EPA) establish ambient air quality standards for major pollutants at thresholds intended to protect public health. Federal and state standards have been established for ozone, CO, nitrogen dioxide NO₂, sulfur dioxide SO₂, lead, and particulates PM₁₀ and PM_{2.5}. **Table B1** summarizes the California Ambient Air Quality Standards (CAAQS) and the National Ambient Air Quality Standards (NAAQS) for each of these pollutants.

| Table B1 Current State and Federal Ambient Air Quality Standards | | | | | | |
|--|----------------------------|-----------------------------------|--|---------------------------------------|--|--|
| Dellestant | Averaging | California ¹ | National Standards ^{2,} | | | |
| Pollutant | Time | Concentration ³ | Primary 3,5 | Secondary 3,6 | | |
| Ozone ⁸ | 1-hour | 0.09 ppm (180 µg/m³) | _8 | C D: | | |
| | 8-hour | 0.07 ppm (137 µg/m³) | 0.07 ppm (137 µg/m³) | Same as Primary Standard | | |
| PM ₁₀ | 24-hour | 50 μg/m ³ | 150 μg/m ³ | Same as Primary | | |
| | Annual Arithmetic Mean | 20 µg/m³ | - | Same as Primary Standard | | |
| PM _{2.5} | 24-hour | _ | 35 μg/m ³ | C D.: | | |
| | Annual Arithmetic Mean | 12 µg/m³ | 12 µg/m³ | Same as Primary Standard | | |
| Carbon Monoxide (CO) | 1-hour | 20 ppm (23 mg/m³) | 35 ppm (40 mg/m³) | | | |
| | 8-hour | 9 ppm (10 mg/m³) | 9 ppm (10 mg/m ³) | _ | | |
| Nitrogen Dioxide | 1-hour | 0.18 ppm (339 µg/m³) | 100 ppb (188 µg/m³) | - | | |
| (NO_2) | Annual Arithmetic Mean | 0.030 ppm (57 µg/m³) | 0.053 ppm (100 µg/m³) | Same as Primary Standard | | |
| Sulfur Dioxide (SO ₂) | 1-hour | 0.25 ppm (655 µg/m ³) | 75 ppb (196 µg/m³) | _ | | |
| | 3-hour | - | - | 0.5 ppm (1,300 µg/m ³) | | |
| | 24-hour | 0.04 ppm (104 µg/m³) | 0.14 ppm (for certain areas) 11 | _ | | |
| | Annual Arithmetic Mean | _ | 0.030 ppm (for certain areas) 11 | - | | |
| Lead ^{12,13} | 30-day Average | 1.5 µg/m ³ | | _ | | |
| | Calendar Quarter | _ | 1.5 µg/m ³ (for certain areas) 12 | Same as Primary | | |
| | Rolling 3-month Average | | 1.5 µg/m ³ | Standard | | |

| Table B1 Current State and Federal Ambient Air Quality Standards | | | | | | | |
|--|-----------|----------------------------|-----------------------|---------------|--|--|--|
| Dollutant | Averaging | California ¹ | National Standards 2, | | | | |
| Pollutant | Time | Concentration ³ | Primary 3,5 | Secondary 3,6 | | | |
| Visibility-Reducing Particles ¹⁴ | 8-hour | See footnote 14 | - | | | | |
| Sulfates | 24-hour | 25 µg/m³ | No Natio | | | | |
| Hydrogen Sulfide | 1-hour | 0.03 ppm (42 µg/m³) | Stand | ards | | | |
| Vinyl Chloride ¹² | 24-hour | 0.01 ppm (26 µg/m³) | | | | | |

- 1 California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
- 2 National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 μg/m3 is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
- 3 Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- 4 Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.
- 5 National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
- 6 National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- 7 Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
- 8 On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- 9 On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 μg/m3 to 12.0 μg/m3. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 μg/m3, as was the annual secondary standard of 15 μg/m3. The existing 24-hour PM10 standards (primary and secondary) of 150 μg/m3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
- 10 To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
- 11 On June 2, 2010, a new 1-hour SO2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved. Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
- 12 CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- 13 The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m3 as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
- 14 In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

Source: Lawrence & Associates 2021

Standards have been set at levels intended to be protective of public health. California standards are more restrictive than federal standards for each of these pollutants except for lead and the eight-hour average for CO. Depending on whether the standards are met or exceeded, the local

air basin is classified as in "attainment" or "non-attainment." Some areas are unclassified, which means no monitoring data are available. Unclassified areas are considered to be in attainment.

2.2. Attainment Status

Table B2 below, summarizes the state and federal attainment status for criteria pollutants in the North Central Coast Air Basin (including Santa Cruz, San Benito and Monterey Counties).

| Table B2 Attainment Status for North Central Coast Air Basin | | | | | | |
|--|------------------------------|-------------------------|--|--|--|--|
| Pollutant | State Standard | Federal Standard | | | | |
| Ozone (O ₃) Nonattainment/Transitional Attainment/Unclassified | | | | | | |
| Inhalable Particulates (PM ₁₀) Nonattainment Attainmen | | | | | | |
| Fine Particulates (PM _{2.5}) | Attainment | Attainment/Unclassified | | | | |
| Carbon Monoxide (CO) | Attainment (Monterey County) | Attainment/Unclassified | | | | |
| Nitrogen Dioxide (NO _x) | Attainment | Attainment/Unclassified | | | | |
| Sulfur Dioxide (SO _x) Attainment Attainment | | | | | | |
| Lead | Attainment | Attainment/Unclassified | | | | |
| Source: CARB https://ww2.arb.ca.gov/aac | s-designation-tool | | | | | |

Criteria air pollutant concentrations are measured at several monitoring stations in the North Central Coast Air Basin. The nearest monitoring stations to the project site are the Hollister-Fairview Road station and the Pinnacles National Monument station. Both stations monitor ozone and PM_{2.5} concentrations. The Hollister station, nearest to the Project site also records PM₁₀.

2.3. Background Data

Background air quality data is available from the CARB Air Quality Management Information System (AQMIS) website. Data for PM₁₀, PM_{2.5} and Ozone was available for the Fairview monitoring station located at 1979 Fairview Road in Hollister, approximately 2.5 miles west-northwest of the Project site. The nearest monitoring station for CO, NOx, and NO₂ is located at Salinas High School, approximately 22 miles southwest of the Project site. The Maximum background concentrations for these stations are summarized in **Table B3** on the following page.

Table B3
Maximum Background Concentrations for the Project Area

| Pollutant | Averaging Time | Data Source | Ca | lendar Yea | r |
|---------------------------------------|---|---------------------|--------|------------|-------|
| | | | 2018 | 2019 | 2020 |
| Ozone, ppm | Maximum 1-Hour Concentration | Fairview | 0.088 | 0.079 | 0.090 |
| | Maximum 8-Hour Concentration | Fairview | 0.072 | 0.067 | 0.074 |
| | Days > 0.09 ppm State 1 hr Std. | Fairview | 0 | 0 | 0 |
| | Days > 0.12 ppm Fed 1 hr Std. | Fairview | 0 | 0 | 0 |
| | Days > 0.08 ppm Fed 8 hr Std. | Fairview | 0 | 0 | 0 |
| PM ₁₀ , ug/m ³ | Maximum 24-Hour Concentration | Fairview | 95.9 | 130.7 | 159.1 |
| | Annual ¹ | Fairview | 20.63 | 17.30 | 23.17 |
| | Third Highest Annual (background) | Fairview | 80.20 | 57.90 | 111.7 |
| | Third Highest April-July (bkgnd) | Fairview | 36.3 | 32.3 | 42.9 |
| | Days > 50 ug/m ³ State 24 hr Std | Fairview | 13 | 7 | 31 |
| | Days > 150 ug/m ³ Fed 24 hr Std | Fairview | 0 | 0 | 1 |
| PM _{2.5} , ug/m ³ | 24-Hour | Fairview | 52.8 | 19.3 | 89.0 |
| | Annual ¹ | Fairview | 7.15 | 5.0 | 6.8 |
| | Days > 65 ug/m ³ Fed 24 hr Std | Fairview | 0 | 0 | 0 |
| CO, ppm | 1-hour | Salinas High School | 35.000 | 35.000 | 1.6 |
| | 24-hour | Salinas High School | 1.813 | 1.813 | 1.074 |
| | Days > 9.0 ppm State 8 hr Std | Salinas High School | 0 | 0 | 0 |
| | Days > 9.0 ppm State 8 hr Std | Salinas High School | 0 | 0 | 0 |
| NOx, ppm | 1-hour | Salinas High School | 0.08 | 0.58 | 0.56 |
| | 24-hour | Salinas High School | 0.018 | 0.018 | 0.016 |
| NO ₂ , ppm | 1-hour | Salinas High School | 0.047 | 0.030 | 0.032 |
| | 24-hour | Salinas High School | 0.015 | 0.014 | 0.014 |
| | Days > 0.25 ppm State 1 hr Std. | Salinas High School | 0 | 0 | 0 |
| | Days > 0.1 ppm Fed1 hr Std. | Salinas High School | 0 | 0 | 0 |
| SO_2 | | No Data Available | | | |

^{1:} Data Downloaded and Averaged

As described in the MBARD 2012-2015 Air Quality Management Plan, dated March 14, 2017, the North Central Coast Air Basin was nonattainment for the CAAQS for PM_{10} . The CAAQS for PM_{10} is an annual average of 20 μ g/m³, and a 24-hour average of 50 μ g/m³. According to CARB, as of 2020 the North Central Coast Air Basin (NCCAB) along with most of California was still non-attainment.²

The major sources for PM_{10} are fugitive road dust, windblown dust, farming operations, waste burning, construction, mobile sources, and industrial processes. PM_{10} levels in the area around

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² https://ww2.arb.ca.gov/aaqs-designation-tool

the Fairview monitoring station and areas surrounding Hollister are primarily due to farming operations, grading, construction, and motor vehicle emissions. The vicinity surrounding the Project site is used for cattle grazing. **Table B4** summarizes the daily annual exceedances of the CAAQS for PM₁₀. During years when the 50 μ g/m3 standard was exceeded, the exceedance occurred during the late summer/fall months. These months are the driest months of the year and after most crops have been harvested and irrigation ceases. Other months of the year tend to have higher antecedent moisture conditions that tend to reduce dust mobilization. During 2018 through 2020, portions of the Santana Ranch subdivision were constructed adjacent to the monitoring station and the construction may have had a local effect on the reading from the station.

Table B4
PM₁₀ Data Summary Fairview Road, Hollister Station

| Year | Days Exceeding 50 µg/m³ | Average Annual, μg/m³ | Days Exceeding 50 μg/m ³ in August | Days Exceeding 50 μg/m³ in September | Days Exceeding 50 μg/m³ in October | Days Exceeding 50 μg/m³ in November |
|------|-------------------------------|-----------------------------|--|---|---|--|
| 2015 | 0 | 16.42 | 0 | 0 | 0 | 0 |
| 2016 | 0 | 15.99 | 0 | 0 | 0 | 0 |
| 2017 | 11 | 18.91 | 0 | 2 | 9 | 0 |
| 2018 | 13 | 20.63 | 1 | 0 | 0 | 12 |
| 2019 | 7 | 17.27 | 0 | 0 | 6 | 1 |
| 2020 | 31 | 23.15 | 8 | 9 | 13 | 1 |

2.4. Wind Direction

Attachment S contains annual and monthly wind roses. During the spring, summer and fall the wind is predominantly from the west-northwest blowing from the City of Hollister and Fairview monitoring station toward the JSRL. In the winter months the wind is more commonly from the southeast towards the City of Hollister, but at a lower average speed. The source of meteorological data is described in more detail under dispersion monitoring below.

3. Emissions Estimate from LFG Generation

3.1. LandGem Model

The Environmental Protection Agency (EPA) Clean Air Technology Center, provides emissions estimation tools, including the Landfill Gas Emissions Model (LandGEM). LandGEM is a widely accepted industry standard as an automated estimation tool with a Microsoft Excel interface that can be used to estimate emission rates for total landfill gas, methane, carbon dioxide, nonmethane organic compounds, and individual air pollutants from municipal solid waste landfills. This Appendix presents an overview of the LandGEM assumptions, equations, factors, and results pertaining to the project.

3.1.1. First Order Decay Model

Landfill gas (LFG) generation was estimated using the USEPA Landfill Gas Emissions Model (LandGEM). LandGEM uses the following first-order decomposition rate (first order decay) equation to estimate annual landfill-gas (LFG) emissions over a specified time period.

Eq. 1:
$$Q_{CH_4} = \sum_{i=1}^{n} \sum_{j=0,1}^{1} k L_o \left(\frac{M_i}{10} \right) e^{-kt_{ij}}$$

Where:

 Q_{CH4} = Annual methane generation in the year of the calculation (m³/year)

i = 1-year time increment

n = (year of the calculation) - (initial year of waste acceptance)

j = 0.1-year time increment

k = methane generation rate (year⁻¹) or "rate constant"

Lo = potential methane generation capacity (m³/Mg [megagram])

Mi = mass of waste accepted in the ith year (Mg)

 t_{ij} = age of the jth section of waste mass Mi accepted in the ith year (decimal years, e.g., 3.2 years).

First order decomposition is simply logarithmic decay (natural log) over time as compared to a zero-order decay model that predicts linear decay. The LandGEM calculates the LFG generation for the mass of waste that is disposed within a year for a time interval "n" starting with the year after the waste is placed and then every year thereafter until closure is completed and the post-closure period begins.³ In general, readily decayable waste, such as grass clippings and food waste decays quickly and more woody debris decays more slowly. The first order decay model fits this configuration by projecting the highest LFG generation rate for 'n' as the year after burial equal to 1 and then diminishing generation rates during subsequent years. The LandGEM calculates the LFG generation for each year's tonnage based on how long it has been since burial. The model sums LFG generation from each year's waste. Older placed waste will have

009130.11 Rev. July 2022

The LandGEM divides each year into 10 steps to provide a better estimate of the average over a one-year period (i).

lower LFG generation and younger waste will have a higher LFG generation rate. The LandGEM estimates LFG generation assuming 50% methane.⁴

In addition to the annual waste tonnage buried, the LandGEM uses two variables to determine the rate of LFG generation; k and L₀ as described below. According to the LandGEM User's Guide, "the model contains two sets of default parameters, CAA defaults and inventory defaults. The CAA defaults are based on federal regulations for MSW landfills laid out by the Clean Air Act (CAA) and can be used for determining whether a landfill is subject to the control requirements of these regulations. The inventory defaults are based on emission factors in EPA's Compilation of Air Pollutant Emission Factors (AP-42) and can be used to generate emission estimates for use in emission inventories and air permits in the absence of site-specific test data."

The LandGEM only allows input of up to a numerical maximum 80 years of landfill life. For longer periods, the annual tonnage must be divided into two model runs and the outputs totaled in a separate spreadsheet (as done herein).

3.1.2. Rate Constant k

The methane generation rate constant "k" is dependent primarily on moisture content and is selected based on the rainfall at the site or, in some cases based on the landfill being capped. A higher rate constant would predict that the LFG generation would occur quickly initially and diminish thereafter. A lower rate constant would predict that the waste decays more slowly and produces more LFG over a longer time period. The LandGEM provides options for arid (0.02), conventional (0.05), and wet (0.07) conditions. In 2020, Hansen and Yesiller calculated k values ranging from 0.007 to 0.22 for several landfills and found the rate to be variable.⁵

Because John Smith Road Landfill (JSRL) receives less than 25 inches of rainfall per year (15 inches average at Hollister), it falls into the arid area category and a k value of 0.02 was selected per the LandGEM guidance (CAA value¹). Even if recovered leachate or condensate is sprinkled on the landfill surface or reinjected, the equivalent rainfall would remain well below 25 inches and the value of k would not change based on the LandGEM guidance.⁶

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⁴ The standard method of reporting LFG generation is a 50% methane; the typical concentration in LFG. The collected LFG at JSRL has a lower methane concentration (typically 38%) because some of the LFG is diluted with surface air during the extraction process.

Hansen, James L., and Yesiller, Nazli, March 25, 2020, Estimation and Comparison of Methane, Nitrous Oxide, and Trace Volatile Organic Compound Emissions and Gas Collection System Efficiencies in California Landfills. p 285.

⁶ The Operator may wish to reinject leachate and condensate into the landfill. The quantity of leachate and condensate from Attachment J of the Design Report is 3.13 million gallons. This quantity is equivalent to additional 0.46 inches per year over the 253-acre Proposed Project Landfill and would not change the y value used, nor the estimated peak LFG generation rate.

3.1.3. Methane Generation Potential Lo

L₀ represents the maximum volume of methane that can be generated per unit input of municipal solid waste (MSW) and is based on the composition of the incoming and previously placed MSW (Krause et al. 2016). High L₀ values are associated with wastes with high cellulose content, equivalent to a high fraction of biodegradable organic carbon. L₀ values typically range between 6.2 to 270 cubic meters per megagram (m³/Mg) wet waste, where higher and lower values have been reported for individual waste components (i.e., paper or food waste alone) (US EPA 2005, Krause et al. 2016).⁷

State (AB-32) and Federal (Subpart XXX) regulations require that an L₀ of 170 m³/Mg (CAA) be used to determine whether a landfill is *subject to the control requirements of these regulations*. In practice, the CAA value significantly overestimates LFG generation and should only be used to determine regulation applicability, which is unchanged for this project. LandGEM also provides Inventory default values of 100 m³/Mg for arid and conventional settings and 96 m³/Mg for wet settings. For the purposes of long-term methane flow, the inventory values are more appropriate default values for "typical" MSW LFG generation as they represent historically "typical" waste in the absence of other regional or site-specific information.

The actual value of L_0 is difficult to predict and varies significantly based on waste composition. A wide range of L_0 is reported in the literature most of which are lower than $100 \text{ m}^3/\text{Mg.}^8$ In 2020, Hansen and Yesiller found that L_0 ranged from 73 to 81 m $^3/\text{Mg_{wet}}$ in 15 studied California landfills with a 95% confidence interval with an average of 78 m $^3/\text{Mg_{wet}}$. These studies suggest that the California L_0 values are lower than the Inventory defaults described above. The study is based on waste placed prior to regulations eliminating the use of processed greenwaste for daily cover and do include appreciable implementation of SB 1383 reductions in organics placed in landfills.

A significant portion of the waste received at JSRL is inert material such as soil, ranges from 10% in 2016 to 17% in 2018, with a long-term average of 13.9%. Inert material does not decay, would not contribute to LFG generation, and would contribute to a lower L₀. As described below and in Attachment A, Civil and Environmental Consultants (CEC) established a L₀ of 60 m³/Mg for John Smith Road Landfill.

Hansen, James L., and Yesiller, Nazli, March 25, 2020, Estimation and Comparison of Methane, Nitrous Oxide, and Trace Volatile Organic Compound Emissions and Gas Collection System Efficiencies in California Landfills.

⁸ USEPA, June 2005, First Order Kinetic Gas Generation Model Parameters for Wet Landfills, EPA-600/R-05/072.

⁹ Hansen, James L., and Yesiller, Nazli, *ibid.* p277.

3.2. LFG System Collection Efficiency

Although not described in the above equation, LFG-system collection efficiency is used to calculate the portion of the LFG generated that is collected by an LFG collection system for comparison of the model to observed flow and to estimate the portion of LFG that escapes as fugitive emissions rather than being collected and destroyed in a flare. The USEPA, in their supporting document for AP-42, indicated that collection efficiency varies widely (57% to 90%) but cited a "possible" 75% collection efficiency assuming the total flow is calculated by the first order decay model using an L₀ of 100 m³/Mg and k of 0.02 (for arid sites), and 50% methane concentration.

In 2019, Hansen and Yesiller, et al. performed a study comparing the results of collection efficiency projected by (1) the dividing the collected LFG by the LFG generation rate produced by the LandGEM to (2) the emissions measured by integrated flux box/surface emissions scanning divided by the total of the surface emissions and collected LFG. They found that the LandGEM significantly over estimated LFG emissions and hence predicted a poor collection efficiency (ranging from 39.6% to 62.5% when the measured efficiency ranged 91.4% to 100%). Based on this paper, the assumed value of 75% from AP-42 is low and is not suitable for modern California landfills.

3.2.1. LandGem Assumptions

Yearly Tonnage

The baseline and projected-project tonnage from Table E-1 in **Attachment E** of the Design Basis Report were entered provided to estimate projected and historical LFG generation in Attachment I of the Design Basis Report. That data was also provided to CEC Consultants to estimate GHG emissions.

SB 1383 and L₀

Promulgated in 2016, State of California Senate Bill (SB) 1383 establishes targets to achieve a 50% reduction in the levels of the statewide disposal of organic waste from the 2014 level by 2020, and a 75% reduction by 2025. Designated Rural Counties including San Benito County are eligible for some waivers to delay implementation, but because the majority of the proposed project tonnage would be from more populous Counties, for the purposes of this analysis, compliance is assumed within the regulatory timeframe. Because L₀ is proportional to the organic content in the waste it is assumed that the L₀ will decrease proportionally to the organic content in accordance with the requirements of SB 1383.

Hansen, James L., and Yesiller, *ibid*. Table 4.28.

As described in Attachment A, using the USEPA LandGEM Model, Civil and Environmental Consultants (CEC), modeled the LFG generation rate for the existing waste using the current L₀ value of 60 m³/Mg. The LFG generation rate for future waste was modeled using an L₀ of 40 m³/Mg based on an estimated 30% reduction in L₀ assuming a 75% reduction in organic content from SB 1383. The long-term LFG generation rate from both the existing and future waste were summed to obtain the total projected LFG generation rate.

Collection Efficiency

Collection efficiency is defined as the percentage of generated LFG that is collected by the LFG extraction system. The remainder escapes the landfill surface as fugitive emissions. As described in Attachment A, CEC assumes a collection efficiency of 80% for the baseline condition for the purposes of GHG emissions based on estimation using the method used in the Federal GHG reporting regulation as described CFR40 Part 98 Subpart HH. As described later in this report, improvements in collection efficiency are a component in reducing GHG emissions.

Limitations

The LandGEM results described herein assume that SB 1383 will be implemented as envisioned, and that the reduction of organic waste within received MSW will provide a proportional reduction in L₀. For the purposes of planning for flare upgrades and LFG to energy projects, L&A recommends verifying the model calibration periodically and updating the L₀ values, if needed, to provide up-to-date predictions.

3.3. LFG Generation Rate

LFG generation for the proposed project was estimated by CEC consultants for the purposes of estimating GHG emissions, using the USEPA LandGEM Model described above. The CEC analyses was used because it relied on LandGEM, which, for the reasons stated above, is likely to provide a conservatively high estimate of LFG Generation and related emissions. Based on LFG flow data as of August 2021, and assuming an 80% collection efficiency, CEC estimated a baseline LFG generation rate of 625 cfm at 50% methane (CH₄).

According to CEC, the peak LFG generation rate would be 2,447 cfm at 50% methane in 2071. Table C3 in **Attachment C** provides estimated flow through the flare versus fugitive emissions for collection efficiencies ranging from 80% to 98%. For a comparison of flare emissions to MBARD thresholds of significance, the highest collection efficiency provides the most conservative estimate of criteria pollutant emissions from the flare. Because health risk is most effected by fugitive LFG emissions (the proportion of gas that is not collected by the LFG

system and escapes through the landfill surface), the lowest collection efficiency provides the most conservatively high emissions. **Table B5** summarizes the peak project flow assuming 95% collection efficiency for conservative criteria pollutant analyses. The relationship between collection efficiency and health risk is described later in this report.

Table B5
Summary of Baseline and LandGEM Model for Proposed Project

| | Summary of Busenine and Build Shift Wilder for 11 Opensed 11 Opensed | | | | | | |
|--|--|------------------------------------|------------|--|--|--|--|
| Variable | Baseline | Proposed Project Peak ² | Difference | | | | |
| Year | 2021 | 20712 | 51 | | | | |
| Assumed collection efficiency | 80% | 95% | 15% | | | | |
| Total LFG generated, cfm at 50% methane | 594 | 2,447 | 1,853 | | | | |
| Total methane generated, cfm | 297 | 1,224 | 927 | | | | |
| Methane flared, cfm | 238 | 1,200 | 962 | | | | |
| LFG flared, cfm @ 50% methane | 475 | 2,400 | 1,962 | | | | |
| Methane flared, cfm | 238 | 1,200 | 962 | | | | |
| Fugitive LFG, cfm @ 50% methane ¹ | 119 | 24 | -72 | | | | |
| Methane oxidized, cfm | 6 | - | - | | | | |
| Fugitive methane, cfm | 53 | 24 | -72 | | | | |

Notes:

- 1. Fugitive: Emitted through cap or into surrounding soil.
- 2. Filling will continue until 2086 but at a much lower rate with a resulting diminishing LFG generation rate.

The final LFG generation rate will vary depending on the change in organic content in the waste stream over time and the rate of waste acceptance. It if the rate of waste acceptance over time is lower than projected, the peak would be lower and would produce less GHG, criteria pollutants, and excess health risk.

3.4. The Carbon Cycle

The carbon cycle describes the process in which carbon atoms continually travel from the atmosphere to the Earth and then back into the atmosphere. Carbon containing gases such a CO₂ are used by plants to obtain carbon from the atmosphere and when they die and decay aerobically (in the presence of oxygen), the CO₂ is released back into the atmosphere. CO₂ from this cycle is called biogenic CO₂. Over the history of the earth plants and animals have been buried before they can decay aerobically, become geologically trapped (such as oil, coal and natural gas) and removed or "sequestered" carbon from the atmosphere. Humans play a major role in the carbon

cycle through activities such as the burning of fossil fuels to release the sequestered carbon in the form of anthropogenic CO₂.

When carbon-containing organic materials are buried in a landfill they cease decaying aerobically and instead of emitting biogenic CO₂, they emit anthropogenic CH₄. When CH₄ is combusted in an LFG flare, the carbon is converted back into CO₂. CO₂ generated from CH₄ combustion at the landfill is considered anthropogenic GHG and are included in the inventory of GHG. Fugitive CH₄ that escapes into the atmosphere is an anthropogenic GHG and is included in the inventory of GHG. CO₂ generated during the waste decay process and either escapes through the landfill surface or passes through the flare is Biogenic Gas and is not included in the GHG inventory. As envisioned in SB 1383, diversion of organics from landfills, aerobic composting, or other recycling, maintains the carbon cycle with minimal methane generation and avoids the need to collect and flare methane when landfilled.

3.5. GHG Emissions from LFG

Emissions of individual and total GHGs are reported as carbon dioxide equivalents (CO₂e) to provide a standard metric for total methane (CH₄) and carbon dioxide (CO₂) emissions. CO₂e equivalents are based on the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report. Per the IPCC, CO₂ has a global warming potential (GWP) of 1, CH₄ has a global warming potential of 25, and nitrous oxide (N₂O) has a global warming potential of 298. For example, the emissions from 1 ton of CH₄ would have an equivalent global warming potential of 25 tons of CO₂e.

As shown in **Attachment A**, the LandGEM model outputs in standard cubic feet per minute (scfm) assuming 50% CH₄ and 50% CO₂ by volume were converted to CO₂e in megagrams per year (Mg/yr). CO₂e in Mg/yr is the same as metric tons of CO₂e (MTCO₂e) per year and 1 Megagram of CH₄ is equivalent to 25 MTCO₂e. Because the rate of LFG generation changes every year, the change in GHG emissions above the baseline was calculated each year as shown in **Attachment A**.

Attachment A assumes the following:

- The change in GHG emissions is caused by the additional waste produced from the Proposed Project waste stream.
- Biogenic CO₂ (generated as part of the normal carbon cycle, per CFR40 Part 98) is not a GHG emission.
- LFG is assumed to be 50% methane and 50% CO₂.

- Of the collected LFG, 99% of the methane is combusted. 11
- Currently 20% of the LFG escapes through the landfill surface as fugitive emissions.
- Of the fugitive emissions 10% of the methane is oxidized to CO₂ and H₂O by microbes in the cover soil and/or processed greenwaste beneficial re-use.
- LFG emissions per cubic yard of waste (L₀) will decrease over time based on removal of organics from the waste stream per SB 1383.

Using the LFG generation rates described above, net changes in methane emissions for the Proposed Project were calculated as shown in **Attachment A** and plotted as emissions on **Figure 2** in **Attachment A**.

3.6. Criteria Pollutant Emissions from LFG

Under the current operation, LFG combusted in the flare stack is tested annually. The most recent test results from the flare emissions (2020) are included in **Attachment C**. Data from the most recent stack test indicates the following:

- Inlet flow rate: 573 cfm dscfm (dry standard cubic feet per minute)
- % Methane: 38.2% CH₄
- Heat Value: 13.09 MMBtu/hr (million British thermal units per hour) heat output, and 997 Btu/DCF of CH₄ (estimated heating value calculated from report data)
- NOx: 9.10 lb/day
- CO: <0.48 lb/day
- SO₂: 39.02 lb/day
- ROG from flare (assuming volatile organic compounds (VOCs) ~: ROG) <0.011 lb/hour
- ROG from fugitive emissions (assuming VOCs ~: ROG): 50 lb/day (See Table C1)
- PM_{10} (estimated): $0.085 / lb/day^{12}$

NOx, SO₂, and PM are byproducts of combustion and do not occur in appreciable amounts in raw LFG (sulfur is present in the form of hydrogen sulfide (H₂S) and converts to SO₂ when combusted). These constituents would not be anticipated in fugitive LFG emissions. VOCs are present in LFG and would be anticipated in trace amounts in fugitive emissions.

The 2020 data and current flow described above were used to project the criteria pollutants emissions from the flare and fugitive emissions of VOCs for the baseline condition described above (Table C2) and the peak flow for the Proposed Project in 2071 (Table C3):

009130.11 Rev. July 2022

The actual tested effectiveness was >99.99% based on the 2020 Flare Source Test by Best Environmental. However, 99.00% was used as a conservatively low value, despite future flare or LFGTE methods typically being more efficient than older systems.

¹² Based on 0.0007 grains/dscfm from 2020 Tehama/Red Bluff Landfill Flare Test and 7,000 grains per pound.

Current Operation (baseline):

- 625 dscfm LFG generation extracted at 38% methane
- 475 dscfm combusted by the flare (corrected to 50% methane)
- 594 dscfm generated assuming 80% collection efficiency
- 119 dscfm fugitive
- NOx: 9.88 lb/day
- SO₂: 42.55 lb/day
- ROG from flare (assuming VOCs ~: ROG): <2.96 lb/day
- ROG from fugitive emissions (assuming VOCs ~: ROG): 6.88 lb/day (See Table C3)
- CO: <0.54 lb/day
- PM₁₀ (estimated): 0.09 lb/day

Proposed Project (peak assuming 98% coll. eff. – worst case for flare emissions):

- 2,400 dscfm combusted by the flare (at 98% collection efficiency)
- 47 dscfm fugitive (at 98% collection efficiency may vary)
- NOx: 49.89 lb/day
- SO₂: 214.91 lb/day
- ROG from flare (assuming VOCs ~: ROG): <11.08 lb/day
- ROG from fugitive emissions (assuming VOCs ≥: ROG): 2.84 lb/day (See Table C3)
- CO: <2.27 lb/day
- PM₁₀ (estimated): 0.45 lb/day.
- $PM_{2.5}$ (assume same as PM_{10}): 0.45 lb/day.

The health risk from flare emissions is typically very low. To be conservative, the health risk analysis relies on the upper bound flow (as compared to the lower flow calculated by L&A in the Design Basis Report) because it produces the maximum adverse health impacts. Lower flow may occur, but analyzing the upper bound flow provides flexibility in flare operation.

A sensitivity analyses was performed to determine the maximum flow that would meet the MBARD threshold of significance for SO₂. As shown in **Attachment C**, Table C3, the following would be the maximum flow that would not exceed the 150 lb/day SOx (assuming all is SO₂) threshold of significance:

- 1,709 dscfm total flow assuming 98% is combusted by the flare
- 34 dscfm fugitive
- NOx: 48.36 lb/day
- SO₂: 149.97 lb/day
- ROG from flare (assuming VOCs ~: ROG): <10.1 lb/day

- ROG from fugitive emissions (assuming VOCs ~: ROG): 1.98 lb/day (See Table C3)
- CO: <2.07 lb/day
- PM₁₀ (estimated): 0.32 lb/day.

As described in Section 10 below, the peak SO₂ concentration was modeled to determine whether the concentration at the existing receptors and potential receptors above this flow rate would have the potential to contribute to an exceedance of either the State or Federal AAQS for SO₂, and demonstrate that a flow above 1,709 would not cause an exceedance.

3.6.1. Trace Emissions Calculation from LFG

Trace-gas concentrations and their use in health-risk screening are described in Section 8 of this Report.

4. Vehicle Emissions Estimates

4.1. Methodology

Although the MBARD suggests using the California Emissions Estimator Model (CalEEMod) to model emissions for the purposes of CEQA, CalEEMod was designed for conventional land-use development projects and is not well suited for landfill project applications. In consideration of this, Lawrence & Associates (L&A) used the equations provided in CalEEMod Users Guide version 2016.3.1, Appendix A – Calculation Details, to develop project-specific emissions calculation spreadsheets attached hereto. 13 CalEEMod uses the following general equations to calculate both GHG and criteria pollutant emissions.

4.1.1. On-Road Emissions

For on-road emissions CalEEMod uses the following equation (as modified for this evaluation):

Emissions = $EF \times Activity \times C$

Where:

Emissions = pounds per period (day for criteria pollutants or year for GHG)

Emissions Factor (EF) in gram per mile (g/mi), g/day, g/trip depending on EF =

the activity selected.

Vehicle miles traveled for roadway travel, days for vehicle idling, or trips Activity =

for vehicle starting.

C =Conversion from grams to pounds (1/453.59 g/lb). Because the thresholds

of significance are in pounds per day, the result is converted to lb per day.

¹³ This was the version that was in-use at the time the Notice of Preparation for CEQA was released in February

For on-road equipment CalEEMod obtains EFs from the California Air Resources Board (CARB) EMissons FACtor (EMFAC)2017 Web Database (the version in use at the time that the Notice of Publication was issued) based on the following characteristics:

- Region (San Benito County was selected)
- Calendar Year (based on the year emissions would be generated)
- Season (winter, summer, or average may be selected)
- Vehicle Category (based on the weight and use of the average vehicle)
- Model Year (an individual model year may be selected, or aggregated model years based on the calendar year above).
- Speed (a specific speed or aggregated may be selected).
- Fuel Type (an aggregate of all fuel types may be selected or individual fuel types, including electric, gasoline, diesel, or compressed natural gas).

For each category of on-road vehicle and selected variables, EMFAC2017 provides EFs for the criteria pollutants listed above, total organic gases (TOG), and GHG emissions and including the following categories:

- Based on Miles Traveled:
 - Exhaust (tailpipe) emissions from travel or "running" emissions (RUNEX in g/mi). For PM₁₀ and PM_{2.5}, EFs for three categories of emissions are provided; tailpipe emissions, dust from brake wear, and dust from tire wear. As described later in this report, diesel particulate matter (DPM) is a subset of PM_{2.5} exhaust from diesel vehicles.
- Based on days on each day of operation:
 - o Emissions while idling (IDLEX in g/vehicle/day).
 - O Diurnal Evaporative HC Emissions (DIURN g/vehicle/day) that occur when rising ambient temperatures cause fuel evaporation from gasoline powered vehicles sitting throughout the day, resulting emissions of ROG and TOG.
 - o Resting Evaporative Losses (RESTL g/vehicle/day) that result from small leaks while the vehicle is sitting,
- Based on the Number of Trips:
 - o Increased emissions during vehicle starting (STREX in g/trip).
 - o Hot Soak Evaporative HC Emissions (HTSK g/trip) of ROG and TOG that occur immediately after a trip are due to fuel heating for gasoline vehicles.
 - o Running Loss Evaporative HC Emissions (RUNLS g/trip) of ROG and TOC that occur as a result of hot fuel vapors escape from the fuel system during operation of gasoline powered vehicles.

For each pollutant, the quantity for each type of vehicle is summed to obtain the total pollutant emissions in lb/day for comparison to the thresholds of significance.

For the analyses in the attachments, the 2020 calendar year was selected for the baseline condition as the traffic data was based on that year. For the Proposed Project, a calendar year that matched the project peak traffic was assumed (as described further herein). Miles traveled and trips were estimated as described in the Design Basis Report (L&A 2021) for the project, summarized in **Attachments E** and **K**.

EMFAC2007 does not provide EFs for fugitive road dust. Those must be calculated for paved and unpaved roads based on equations from CalEEMod manual that were obtained by CARB from AP-42. The EFs are estimated based on the site-specific average vehicle weight and constants from AP-42 as shown in **Attachments L**, **M**, **N**, and **O**.

For both on-road and off-road vehicles that travel on paved, graveled, and soil roads, fugitive road dust as PM₁₀ and PM_{2.5}, emissions are estimated using EFs calculated on a condition-specific basis equations from CalEEMod that were taken from USEPA AP-42.

The following is a typical equation for paved surfaces:

$$Ep = [k (sL)^0.91 (W)^1.02]x (1-P/4N)$$

Where:

- E_P = Particulate matter factor (having units matching the units of k); (EF for dust in lb/vehicle mile traveled [VMT]).
- k = Particle size multiplier for particle size range (different ones for PM₁₀ or PM_{2.5}) and units of interest from AP-42, lb/vehicle mile traveled (VMT).
- sL = Road surface silt loading in grams per meter squared (g/m²). Assume 0.4 for lightly used public roads, 0.1 for heavily used public roads and 4.5 for on-site paved roads.
- W = Average weight of vehicle (tons).
- P = Number of wet days with at least 0.01 inch or precipitation during the averaging period.
- N = Number of days for averaging period.

For graveled roads, the following equation is used:

$$EF_{Dust} = [((k * (s/12)a * (S/30)b) / (M/0.5)c)-C] * (1-P/365)$$

Where:

EFDust = Size-specific emission factor (lb/VMT) for unpaved surface.

- k = Particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2, lb/VMT.
- a = Constant from AP-42 for public or industrial road (constant for public road = 1).

- b = Constant from AP-42 for public or industrial road (constant for public road = 0.5).
- c = Constant from AP-42 for public or industrial road (constant for public road = 0.2).
- s = Surface silt content, percent (assumed 6.4% for graveled road at a landfill per AP-42 Section 13.2.2).
- S = Mean vehicle speed, mph (assumed 15 mph).
- M = Surface material moisture, percent (assumed 3% for a relatively dry road).
- C = Constant from AP-42 (0.00036 for PM_{2.5}; 0.00047 for PM₁₀).
- P = Number of wet days with at least 0.01 inch or precipitation during the averaging period (assume 355 for to simulate minimal watering. 0.01-inch equals 0.0561 gal/sy; one pass with a water truck delivers 0.4 to 0.5 gal/sy).

For unpaved industrial roads, the following equation is used:

$$E_{up} = k * (s/12)^a * (W/3)^b$$

Where:

Eup = Size-specific emission factor (lb/VMT) for unpaved surface.

k = Particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2. (0.15 for $PM_{2.5}$; 1.5 for PM_{10}).

s = Surface material silt content, percent, assume 6.4% for graveled or treated roads per AP-42.

W= Mean vehicle weight.

a = Industrial-road constant from AP-42, Table 13.2.2-2 (0.9).

b = Industrial-road constant from AP-42, Table 13.2.2-2 (0.45).

For grading equipment passes, such as graders or scrapers, scraping soil, the following is used (CalEEMod 2020.4.0, Appendix A Page 8):

$$EF_{PM15} = 0.051 \text{ x (S)}^{2.0}$$
, and $EF_{PM10} = EFPM_{15} \text{ x } FPM_{10}$

$$EF_{TSP}$$
 - 0.4 x (S)^{2.5}, and $EF\ PM_{2.5} = EFT_{SP}\ x\ FPM_{2.5}$

Where:

EF = Emissions factor (lb/VMT).

S = Mean vehicle speed (mph).

 $F_{PM2.5} = PM_{2.5}$ scaling factor from AP-42, (0.03).

 $F_{PM10} = PM_{10}$ scaling factor from AP-43, (0.6).

For bulldozers or compactors, the following is used (CalEEMod 2020.4.0, Appendix A Page 8):

$$EF_{PM15} = (C_{PM15} \times s^{1.5}) / M^{1.4}$$
, and $EF_{PM10} = EF_{PM15} \times F_{PM10}$

EFTSP - (
$$C_{TSP} \times s^{1.2}$$
)/ $M^{1.3}$, and $EF_{PM2.5} = EF_{TSP} \times F_{PM2.5}$

Where:

EF = Emissions factor (lb/hr).

C = Coefficient used by AP-42.

s = Material silt content, percent, AP-42 default for overburden is 6.9.

M = Moisture content, percent, AP-42 default is 7.9%.

 $F_{PM2.5}$ = PM_{2.5} scaling factor from AP-42, (0.031) for over burden us (0.105).

 $F_{PM10} = PM_{10}$ scaling factor from AP-43, (0.6) for overburden use (0.75).

For loading soil into off-road dump trucks, or into the hopper of a screening plan use:

EFD = k x (0.0032) x (
$$(U/5)^{1.3} / (M/2)^{1.4}$$
)

Where:

EF = Emissions factor (lb/ton).

k = Particle size factor, dimensionless from AP-42 (PM₁₀ = 0.35; PM_{2.5} = 0.053).

U = Mean wind speed, mph (assumed 6.7 based on average annual from wind rose).

M = Material moisture content, % (AP-42 default is 9%).

The results from each of the equations above is subject to a "control factor." When soil on graveled or unpaved roads is wetted or treated with dust palliatives, the soil particles are less likely to become mobilized into the air. As described in AP-42, Section 13.2.2, and other references, the control factor can be estimated based on moisture ratio of a watered road surface to an un-watered (dry road surface). A moisture ratio of 2 (doubling) the moisture content provides 75% control efficiency. Ninety percent control efficiency requires increasing the moisture by approximately 4.3 times. The UEPA (1988) provided the following equation for control efficiency by watering:

$$C = 100 - ((0.8 \text{ x p x d x t}) / i)$$

Where:

C = Average control efficiency, percent.

p = Potential average hourly daytime evaporation rate, mm/h (Hollister = 4" (0.14 mm/hr) to 8" (0.27 mm/hr) per month from April through July.

d = Average hourly daytime traffic rate, h^{-1} (peak tonnage day travel of 362 trips / 8 hr = 45 t/hr).

 $i = Application intensity, L/m^2 (1 L/m^2 = 0.22 g/sy).$

t = Time between applications, h.

The equation shows that on a July day, 95 percent control efficiency can be attained by applying 0.44 gal/sy (approximately 1,200 gallons, per 1,000 feet of two-lane road) every hour. Ninety percent control would be attained with two passes per hour. More water may be needed on hotter or dryer days and less or none on foggy days. Special attention to watering will be

required when construction is occurring, especially on unpaved soil haul roads between a module excavation and stockpile. As listed in the attached spreadsheets a 90 percent control efficiency is assumed for graveled roads and 95 percent is assumed for unpaved soil haul roads. Excessive water should also be avoided in areas that join paved or graveled roads to reduce muddy conditions and potential tracking onto adjacent pavement.

For paved roads, it is understood that the operator currently utilizes a wheel wash for large trucks, vacuum sweeper, and rumble strips to reduce track-on towards John Smith Road. According the USEPA (1988) vacuum sweeping provides approximately 30 to 40% control efficiency. With the addition of road watering combined with sweeping, the control efficiency can reach 90 to 95%. The analysis assumes that both watering and sweeping should occur when construction is proceeding simultaneously with site operations. It is suggested that, for construction projects, the contractor be required to submit a dust mitigation plan that includes this requirement.

The equations were developed by the EPA based on a limited number of studies and should be considered approximate.

4.1.2. Off-Road Exhaust Emissions

Both CalEEMod and the Carl Moyer Program use the following equation to calculate emissions from off-road vehicles, such as dozers and compactor, used to operate and construct the Landfill:

Emissions = $EF \times Activity \times LF \times HP \times C$

Where:

Emissions = Pounds per period (day for criteria pollutants or year for GHG).

EF = Emissions Factor (EF) in grams per hour per brake horsepower (g/bhp/hr).

Activity = Equipment or vehicle operation hours.

LF = Load Factor (LF) for each equipment type (from CalEEMod or Carl

Mover).

HP = Horsepower of the specific equipment.

C = Conversion from grams to pounds as described above.

Off-road EFs were obtained from three sources:

• NOx, ROG, and PM₁₀ from vehicle exhaust were obtained from Table 9 of the Carl Moyer Memorial Air Quality Standards Attainment Program (Carl Moyer Program). Carl Moyer EFs are based the specific emissions Tier (0, 1, 2, 3, 4I, a 4F) and horsepower range of the off-road engine and are considered more accurate than the CalEEMod tables. Tier 4 engines started being phased-in in 2012. Tier 3 engines

- stopped being manufactured in 2018, leaving a gradual transition to all Tier 4F engines.
- Criteria pollutants PM_{2.5}, CO, and SOx and GHGs CO₂, and CH₄ from vehicle exhaust were obtained from CalEEMod Table 3.4 based on engine year and horsepower range.
- EFs for on-road and off-road vehicle dust (both paved and unpaved surfaces) and construction related dust (including equipment travel, dust from dozers, and dust from soil loading) were calculated using equations in CalEEMod Appendix C as described above and shown in **Attachments F**, **G**, **H**, **L**, **M**, and **O**.

The MBARD CEQA Guidance suggest using URBEMIS for quantification of road dust. URBEMIS is no longer published and was superseded by CalEEMod. CalEEMod uses the equations described above.

4.2. On-Road Emissions from Waste Delivery

4.2.1. Trips and Vehicle Categories

A trip is defined as travel to the Landfill and then return from the Landfill (both ways; round trip). In the design-basis report trips were divided into the following categories along with the EMFAC2017 category used for EFs:

- Self-Haul Residential Assumed to be light/medium-duty pickups, cars, and pickups pulling trailers averaging 8,501 to 10,000 lb gross vehicle weight (GVW) (generally the range of a fully loaded Ford F150, F250 and Some F350's. The EMFAC 2017 designation for this size truck is LHD1 (light-heavy-duty trucks 8,501 10,000 lb GVW). It is assumed that some cars will be smaller, and some trucks will be heavier and that LHD1 represents the average, erring conservatively in the heavier side of the range. According to the U.S. Department of Transportation, Bureau of Transportation Statistics, as of 2015, diesel made up less than 1% of the light trucks (0 to 14,000 lbs) sold. Therefore, for the purposes of emission modeling, LHD1 gasoline emissions factors were used. This category includes employee, visitor, and vendor trips.
- In-County Commercial Assumed to be a mixture of diesel-powered garbage route trucks and contractor trucks. According to the Design Basis Report, this category includes "loads from companies that have a commercial account with the Landfill. The majority of the tonnage from this category is from waste collection companies and is delivered by garbage trucks or in roll-off bins. This category also includes numerous demolition and construction contractors and includes governmental agencies". Because the majority of the loads is via garbage trucks, EMFAC Category T7-SWCV (Solid

Waste Collection Vehicles) is used and assumes that approximately 26% will be natural gas (NG) fueled and 74% will be diesel fueled.

- Out-of-County Assumed to be heavy duty transfer trucks an 80,000 lb GVW. The selected EMFAC designation is T7-CAIRP – DSL.¹⁴
- Out-of-County Self-Haul/Residential was negligible based on facility-provided data.

The above categories do not include on-road trips for landfill operations (such as the water truck). They are analyzed separately as described below.

Because on-road emissions calculations are based on miles traveled, the total miles must be calculated for each of these vehicle categories. Criteria pollutant emissions are calculated on peak-day miles assuming all other days would be less. GHG emissions are calculated based on annual average miles traveled. The methods of calculation are described in detail for each variation, below.

4.2.2. GHG Emissions From Waste Delivery Traffic

For the purposes of GHG analysis the average daily traffic was analyzed both for the baseline (2020) condition and the Proposed Project average trips that would peak in 2069 (as described on the Design Basis Report), after which trips would diminish slightly. **Table B6** summarizes the baseline and Proposed Project trips as described in the Design Basis Report.

Table B6
Baseline and Projected Average Waste Delivery Trips (Maximum in 2069)¹

| Category | Baseline Average Trips Per Day | Projected Maximum Average Trips Per Day ² | Change from Baseline | Average over Project Life Trips per Day | Change from Baseline |
|---|---|--|----------------------------|---|----------------------------|
| In-County Residential/Self Haul including HHW, employees and visitors | 188 | 232 | 44 | 220 | 32 |
| In-County Commercial | 31 | 38 | 7 | 36 | 5 |
| Subtotal | 219 | 270 | 51 | 256 | 37 |
| Out-of-County Commercial | 36 | 94 | 58 | 65 | 29 |
| Total | 255 | 364 | 109 | 321 | 66 |

Notes:

1

^{1.} For GHG modeling purposes each separate year's projected traffic emissions were used to calculate the indirect emissions in Attachment U.

^{2.} Based on 2069 projected traffic. Table 23 in the Design Basis Report is based on the average year with the maximum out-of-County truck trips and has slightly less total traffic than shown here.

The California International Registration Plan (CAIRP) is an option for registering commercial vehicles that allows for interstate operation under a single registration plate and registration certificate (cab card) issued by your "base" state.

As shown in **Attachments E** and **K**, based on the 2020 transaction records for the Landfill, the percentage of trips from each county and large cities were calculated. For the out-of-County trips the approximate road distance to the courthouse in each city or county was used to approximate the average distance of a trip from that city or county. The average number of trips per day from each location was multiplied by the distance and further multiplied by two to obtain the round-trip distance for each trip.

The trip data indicated that 95% of the in-County trips (combination of residential self-haul and in county commercial) were from the City of Hollister and the remaining 5% were from elsewhere in the County. As shown in **Attachments E** and **K** the mileage for in-County trips was prorated based on the proportion of trips from the center of Hollister (assumed to be City Hall) and the approximate centroid of the County (street distance). The trips from in-County commercial and in-County residential self-haul were multiplied by the prorated distance to obtain the miles traveled (x 2 for both ways).

For GHG analyses the average daily miles was multiplied by 361 operating days per year to obtain the average miles per year.

Table F1 in **Attachment F** summarizes the estimated GHG emissions for CO₂, N₂O, and CH₄ for the baseline on-road waste hauling trips. Table G1 in **Attachment G** summarizes the same information for the Proposed Project. For the Proposed Project, it is assumed that California Executive Order (EO N-79-20) would be implemented by 2045, and 60% of all vehicles will be net zero emissions.¹⁵ The EFs for the remaining vehicles would be based on the EMFAC2017 2050 calendar year emissions with aggregate model years.¹⁶ For the period between 2022 and 2045 an EMFAC2017, aggregate 2035 calendar year was assumed for EFs.¹⁷ The information from **Attachments F** and **G** was used to create the modeled annual emissions estimate in **Attachment U**. **Attachment U** summarizes the baseline emissions, peak emissions, and average over the life of the landfill. The following summarizes the total GHG emissions from on-road waste delivery travel from both the current Landfill and Proposed Project (from Attachment U):

• The annual emissions of GHG from on-road traffic for waste delivery under current conditions is estimated to be 3,795 MTCO₂e/yr.

009130.11 Rev. July 2022

EO N-79-20 requires that 100% on and off-road vehicles be zero emission by 2045, "where feasible." Therefore, 60% of vehicles which are zero emission were selected as a conservatively low percentage, to provide a conservatively high emissions estimate. Sixty percent was selected as it represents the requirement of 60% of renewable energy by 2030 from SB 100; a previously used milestone.

¹⁶ 2050 is the last future year for which EMFAC2017 provides EFs.

¹⁷ For any given calendar year, EMFAC2017 provides EFs for an "aggregate" of the anticipated vehicle model years (unless specifically selected). In addition, the aggregated speed and aggregated annual (versus seasonal) were selected when downloading EFs.

- The average annual emissions of GHG from on-road traffic for waste delivery under the Proposed Project is estimated to be 2,982 MTCO₂e/yr.
- Average Change: 813 MTCO₂e/yr average decrease over the life of the Landfill.

Table U1 in **Attachment** U shows the projected change in emissions over time. The emission would increase initially as a result of increased traffic and then would decrease over time as emissions technology improves. Over the life of the project, there would be a decrease when compared to the baseline condition.

Table E4 in **Attachment E** shows the mileages assuming that the local trips would continue to a transfer station at the Landfill site and that the waste would be taken to Marina Landfill in Monterey County. Table E4 shows that the mileage would be slightly higher than the Proposed Project and hence GHG emissions would likely also be slightly higher assuming that a transfer station would be implemented at the conclusion of the baseline project in roughly 2036 should the proposed project not be approved.

4.2.3. Criteria Pollutants from Waste Delivery

Compliance with MBARD CEQA Guidance

Criteria pollutant emissions from traffic traveling to the Landfill to deliver waste is not included in the categories of "operational impacts" or "construction impacts" in terms of criteria for significance with CEQA as described in the MBARD CEQA Guidelines. Emissions from these vehicle trips are considered a potential "indirect" impacts as described in Table 5-3 of the MBARD CEQA guidance. VOC (assumed to be equivalent to ROG) and NO_X as NO₂ from indirect sources would be summed with direct sources from operation to evaluate the operational impacts from the project.

Per Table 5-3, for PM₁₀, the CAAQS or NAAQS must not be exceeded along unpaved roads offsite and MBARD recommends dispersion modeling for those roads. For the Proposed Project, the known traffic entering the Landfill follows paved roads, therefore, this analysis is not required or provided.

Per Table 5-3 MBARD CEQA Guidelines (and the text on page 5-4), CO emissions may be considered significant if the project traffic degrades the level of service (LOS) at an intersection or road segment:

- from a D or better to an E or F, or;
- V/C ratio at an LOS E or F increases by 0.05 or more, or;
- a delay at intersection at LOS E or F increases by 10 seconds or more, or:
- reserve capacity at unsignalized intersection at LOS E or F decreases by 50 or more.

If any of these apply, modeling should be undertaken to determine if the project would substantially contribute (550 lb/day) to exceedance of the CO AAQS. If not, the project would not have a significant impact. According to the traffic consultant for the project, none of these thresholds are exceeded and modeling is not required nor provided.

Analysis

Analysis of criteria pollutants from delivered waste trips was based on peak annual traffic assuming that at all other times the emissions would be less. Peak traffic was calculated for both (1) the peak-trip day which occurs on weekends, consisting mostly of local traffic, and has the highest number of trips, but would have lower EFs for those vehicles and (2) the peak tonnage day during which the heavier out-of-County truck trips with higher EFs would prevail. The 2020 (baseline) trips and peak trips for these two categories were obtained from Attachment I of the Design Basis Report and are summarized in **Table B7**.

Table B7
Baseline and Projected Peak Waste Delivery Trips

| Category | Baseline Peak Traffic Day Trips | Projected Peak Traffic Day Trips | Change | Baseline Peak Tonnage Day Trips | Projected Peak Tonnage Trips | Change |
|---|--|---|--------|--|---------------------------------------|--------|
| Year | 2020 | 2070 | | 2020 | 2042 | |
| In-County Residential/Self Haul including HHW, employees and visitors | 433 | 533 | 100 | 155 | 177 | 22 |
| In-County Commercial | 9 | 11 | 2 | 31 | 35 | 4 |
| Subtotal | 442 | 544 | 102 | 219 | 212 | 26 |
| Out-of-County Commercial | 27 | 34 | 7 | 73 | 151 | 78 |
| Total | 469 | 578 | 109 | 259 | 363 | 107 |

Attachment K shows the mileage calculations similar to those shown in Attachment E described above, except the milage for out-of-County trips are measured to the northern edge of Air District (MBARD) as the criteria for evaluating impacts are whether they would contribute to and exceedance of a State or Federal air quality objective for the Air District. Because most of the out-of-County waste is from the Bay Area, it is assumed that the northern district Boundary is the boundary used for measuring distance from the Landfill entrance to the district Boundary. For the baseline, the distance to the district boundary is 17.05 miles one-way (34.1 miles round trip).

For the Proposed Project, it is assumed that out-of-County waste loads will enter via highway 25 to Fairview Road and exit via the current path (16.17 miles and 16.58 miles respectively for a total of 32.8 miles and average of the new entrance is closer to the boundary by 0.47 miles). The

Google Earth measurements are included in **Attachment K** and summarized on **Figure B2**. As shown on **Figure B2**, another, shorter route using McCloskey Road may also be used. However, the longer path is assumed to provide a conservatively high estimate. For in-County traffic, the distance to the center of Hollister (City Hall) of 5.8 miles is used for the average distance from the City of Hollister and the distance to the Center of the County of 36.8 miles is assumed as the average distance for loads from areas outside of the City of Hollister (**Figure B3**). ¹⁸

Attachment L provides criteria pollutant calculations for current operations. Attachment M provides the criteria pollutant calculations for the Proposed Project. Tables L1 and M1 summarize the totals. Emissions were calculated for both the 2020 baseline peak tonnage days and peak traffic days. If the peak tonnage day trips are based on the out-of-County truck trips, then the tonnage days would reach a maximum in 2042 after which out-of-County Truck traffic would diminish slightly in 2069, after which out-of-County truck trips would cease. Based on peak traffic days, trips reach a maximum in 2069. It is assumed that project emissions on all other days would be lower. Table B8 summarizes the results.

Table B8
Off-Site Waste Delivery Vehicle Emissions Within MBARD (Indirect)

| | рм 3 | рм 3 | SO (SO) | | | |
|-------------------------------------|---------------------------|------------------|-----------------------------|--|---|------------------------------------|
| Analyzed Condition | NOx ¹ (lb/day) | ROG¹ (lb/day) | CO ² (lb/day) | PM ₁₀ ³ (lb/day) | PM _{2.5} ³ (lb/day) | SOx (SO ₂) (lb/day) |
| Baseline Peak Traffic Day | 12.87 | 1.65 | 30.67 | 16.77 | 4.66 | 0.18 |
| Baseline Peak Tonnage Day | 23.22 | 0.95 | 14.48 | 25.07 | 6.59 | 0.15 |
| Proposed Peak Traffic Day (2069) | 6.51 | 0.15 | 3.75 | 18.98 | 4.99 | 0.15 |
| Proposed Peak Tonnage Day (2042) | 22.57 | 0.29 | 6.02 | 46.88 | 11.98 | 0.16 |
| Change in Peak Traffic Day | -6.36 | -1.5 | -26.91 | 2.21 | 0.34 | -0.03 |
| Change in Peak Tonnage Day | -0.65 | -0.66 | -8.46 | 21.81 | 5.39 | 0.01 |

^{1:} Used summer emissions factors per MBARD CEQA Guidelines.

For NOx ROG, and CO, the emissions from the Proposed Project would be lower than the base-line condition under either the 2042 (peak tonnage) or 2069 (peak traffic) scenarios because of improving vehicle emissions efficiencies over time. The increase in PM₁₀ and PM_{2.5} would result from tire wear, brake wear, and primarily road dust from increased trips. Based on the Appendix A of the Design Basis Report, under the peak traffic option, 96% of the trips are from in-County locations and the increase is related to population increase over time. For the peak

009130.11 Rev. July 2022

^{2:} Used winter emissions factors per MBARD CEQA Guidelines.

^{3:} Includes exhaust, brake wear, tire wear, and road dust.

¹⁸ Emissions from mileage for waste delivery within the landfill property are included in the operations emissions.

tonnage day option 59% of the trips would be from in County and 42% of the trips would be from out-of-County commercial loads. In this case, the increase would be from a combination of population increase and increased out-of-County tonnage.

The Proposed Project peak tonnage trips emissions are higher than Proposed Project peak emissions because the peak tonnage day has a higher proportion of large trucks. Most of the PM₁₀ and PM_{2.5} emissions come from road dust and higher average vehicle weight produces higher emissions based on the equations in **Attachments L** and **M**.

The baseline project assumes all out-of-County truck traffic follows the same route both to and from the JSRL and the Proposed Project assumes two different routes (Figure B2). During the initial post-expansion period, inbound truck traffic must turn from John Smith Road onto Fairview in a northbound direction and vice versa when travelling to JSRL. During this period, incoming out-of-County trucks would travel to the site via the McCloskey Road route shown on Figure B2 and leave via the existing route on Fairview Road to Shore Road. When the intersection of John Smith Road and Fairview Road is realigned, truck traffic would approach on Fairview from the south and exiting traffic would depart northward on Fairview Road. San Benito County, however, has indicated that intersection realignment has been postponed indefinitely, and the McClosky Road or Shore to Fairview Routes will be used for the foreseeable future. Project emissions from out-of-County truck traffic may be split between the current route and a route using McClosky Road. Residential/self-haul traffic can turn either way from John Smith Road onto Fairview Road and emissions would be split between the two dimensions. Residential/self-haul traffic may also travel via Best Road and not travel on most of John Smith Road. Emissions from the Proposed Project would be higher than the baseline condition on John Smith Road because all of the truck traffic and the majority of the residential/self-haul traffic travels that path.

As requested by the County Planning Department, the emissions from vehicles traveling to the Landfill along John Smith Road were estimated. **Table B9**, on the following page, summarizes the peak trip day, peak tonnage day, and average emissions from the 1.81-mile (each way) road from the intersection of Fairview Road to the Landfill entrance. John Smith Road, north of Best Road, is the only location where all of the traffic converges and uses the same route ultimately to JSRL.

| Estimated Emissions from John Smith Road | | | | | | | |
|---|--|-------------------------------------|---|--|--|---|--|
| Emissions Source | Daily Total NOx Emissions (lbs/day) | Daily Total ROG Emissions (lbs/day) | Daily Total PM ₁₀ Emissions (lbs/day) ¹ | Daily Total PM2.5 Emissions (lbs/day) ¹ | DPM Emissions (lbs/day) ² | Daily Total CO Emissions (lbs/day) | Daily Total SO ₂ Emissions (lbs/day) |
| Peak Traffic Day Baseline | 2.46 | 0.21 | 25.90 | 6.43 | 0.0009 | 5.75 | 0.05 |
| Peak Traffic Day Proposed Project | 2.30 | 0.30 | 31.99 | 7.93 | 0.0007 | 5.58 | 0.01 |
| Difference | (-0.46) | -0.09 | 6.09 | 1.50 | -0.0002 | 0.65 | -0.04 |
| Peak Tonnage Day Baseline | 3.46 | 2.00 | 30.50 | 7.54 | 0.0026 | 2.88 | 0.03 |
| Peak Tonnage Day Proposed Project | 4.26 | 0.13 | 51.72 | 12.76 | 0.0032 | 2.81 | 0.02 |
| Difference | 0.8 | -0.19 | 21.22 | 5.22 | 0.0006 | -0.07 | -0.01 |
| Average Baseline Average Proposed Project | 2.89 | 0.15 | 23.64 | 5.85 8.59 | 0.0015 | 3.20 | 0.01 |
| Difference MBARD | -1.17 | -0.12 | 11.18 | 2.74 | 0.0019 | 0.55 | 0.02 |

Table B9

Thresholds

137

South of Best Road, the traffic and concentrations would be slightly less. However, for simplicity, it was assumed that all of the traffic travels on John Smith Road. Because diesel particulate matter (DPM) is the only constituent that has an associated health-risk factor (as described further in Section 9 of this report), the PM_{2.5} emissions from diesel vehicles were summed and included in Table B10. According to CARB, DPM is a subset of PM_{2.5} comprising, on average Statewide 8% of PM_{2.5} which was assumed in **Table B10**.¹⁹ Modeling using the data from **Table B10** is described in Section 9 of this report.

4.3. Landfill Operation Emissions

Compliance with MBARD CEQA Guidance

The Emissions from operations were evaluated based on the sum of criteria pollutant emissions from operation within the Landfill property and "indirect" emission of NOx and ROG from traffic travelling from the NCCAB to the entrance of the Landfill as required by Table 5-3 of the MBARD CEQA Guidelines including the sum of the following sources:

VOC (ROG) and NOx as NO₂ from off-site indirect traffic above.

550

150

¹³⁷ 1: Includes exhaust, brake wear, tire wear, and road dust (road dust assumes dry pavement).

^{2:} Assuming 8% of PM_{2.5} from diesel exhaust is DPM.

¹⁹ CARB: https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health

- Fugitive emissions from uncollected LFG as described above.
- Flare emissions from above.
- Emissions from on- and off-road equipment related to landfill operations within the Landfill boundary.
- Emissions from on-road landfill-support equipment.
- Emissions from traffic entering the facility to recycle or dispose of waste.

Miles Within the Site for Waste Delivery

Figure B7 shows the travel distance from the entrance to the farthest disposal area and represents the baseline condition with an average one-way length of approximately 1,020 feet of paved road and 4,040 feet of graveled road for a round trip of approximately 0.38 miles of paved road and 1.53 miles of graveled road round trip.

Figures B8 through **B12** show one-way travel distances for various Proposed Project alternatives overlayed on the sequencing plans from the Design Basis Report. The longest path would be 2.8 miles of paved road (round trip) and 0.51 miles of graveled road. This distance was assumed to represent a conservatively long travel distance for the Proposed Project for "typical" operating emissions. The mileages were multiplied by the peak trip day trips in **Attachment K** to calculate baseline emissions on Tables L6 and L9 in **Attachment L** and the Proposed Project emissions on Tables M6 and M8 in **Attachment M**. The results are summarized on **Table B12** at the end of this section.

Emissions from Off-Road Landfill Operation Support Equipment

The following describes the results of analysis for GHG and criteria pollutants from off-road and on-road equipment used for landfill operations for both the current (baseline) and Proposed Project.

Typical landfill operations include waste placement, burial, and general site maintenance and emissions from both off-road equipment and on-road. The equipment properties (such as horsepower, make and model, tier, model year, and hours per day) were obtained from the Design Basis Report provided by the Landfill fleet service contractor and estimated by the Landfill Operator.^{20,21} **Table B10** (on the following page), lists the equipment currently (as of the end of 2020) used at the Landfill as the baseline condition.

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Load Factors were taken from Table D-7 of Appendix D from *Tables for Emission Reduction and Cost-Effectiveness Calculations*, or value of 1 used when data is unavailable.

Greenhouse Gas Factors Acquired from Table 3.4 of Appendix D Default Data Tables from CalEEMod (2017).

Table B10
Current Equipment for Landfill Operations

| r | Current Equi | pinent io | Landini | peracions | | ı |
|------------------|--------------------------------------|--------------|----------------------|------------------------|--------------------------|-------------------|
| Equipment | Manufacturer / Model ¹ | Quan. | HP/Tier | Mainline or Support | Av Hours per Day | Hours per Year |
| | Off-Ro | ad Diesel Ed | quipment (>5 | 0 hp) | | |
| Bulldozer | Caterpillar D6T LGP ² | 1 | 255 / 4 | Mainline ³ | 8 | 2,888 |
| Bulldozer | Caterpillar D8T ² | 1 | 310 / 4 | Mainline | 8 | 2,888 |
| Motor Grader | Caterpillar 140G | 1 | 150 / 2 | Support | 2 | 618 |
| Wheeled Loader | Caterpillar 938M ² | 1 | 182 / 3 | Support | 2 | 618 |
| Trash Compactor | Caterpillar 826K ² | 1 | 426 / 4 | Mainline | 8 | 2,888 |
| Backhoe | Caterpillar 426C | 1 | 81.8 / 2 | Support | 2 | 618 |
| Excavator | John Deere 350 | 1 | 283 / 4 | Mainline | 6 | 1,854 |
| Dump/Haul Truck | John Deere 350 | 1 | 380 / 4 | Mainline | 6 | 1,854 |
| Truck Tipper | Columbia | 1 | 156 / 2 | Support | 8 | 2,472 |
| Street Sweeper | Elgin, 2019 | 1 | 74 / 4F | Mainline | 2 | 722 |
| | | On-Road E | Equipment | | | |
| Equipment | Manufacturer / Model ¹ | Quan. | HP/ Model Year | Mainline or Support | Typ. Miles per Day | Miles per Year |
| Water Truck | Peterbilt ² | 1 | 330 / 06 | Mainline | 50 ⁵ | 11,3725 |
| Mechanic Truck | Ford F550 gasoline | 1 | 330 / 09 | Support | 20 | 7,300 |
| Fuel Truck | GMC Utility Truck | 1 | 330 / 10 | Support | 10 | 3,610 |
| Roll-off | Volvo K0317 Roll Off Truck | 1 | 300 / 00 | Support | 0 | 0 |
| | Incidental Equ | ipment (<50 |) hp or infre | quently used) | | |
| Air Compressor | Ingersoll Rand 185 | 1 | 13 | Support | 2 | |
| Storm-Water Pump | 6-inch Trash Pump | 1 | 30 | Support | <1 | |
| Pressure Washer | Pressure Washer | 1 | <3 | Support | <1 | |
| Trash Pump | 3-inch Trash Pump | 1 | <10 | Support | <1 | |
| Generator | Generator | 1 | <10 | Support | <1 | |

Source: Waste Connections, 2021. Notes:

- 1. The manufacturer or model may change over time as equipment is substituted or replaced.
- 2. White noise back-up alarms are installed and utilized on this equipment.
- 3. Mainline equipment are typically considered the minimum equipment needed to operate the Landfill.
- 4. Support equipment is considered supplemental and may or may not be present at any given time.

5.

Table B11, on the following page, lists the equipment for the Proposed Project. The Operator assumes that the equipment would be phased in over a 15-year period as waste received gradually increases between 2022 and 2037 and would be used through 2070 after which the quantity would reduce to approximately the baseline for 15 years.

Table B11
Future Equipment for Landfill Operations

| | Future Equi | pment for | Landfill C | Operations | | |
|----------------------------|-----------------------------------|--------------|----------------------|-----------------------|--------------------------|------------------------|
| Equipment | Manufacturer / Model ¹ | Quan. | HP/Tier ⁵ | Mainline or Support | Av Hours per Day | Hours per Year |
| • | | ad Diesel Ed | uipment (>5 | | | |
| Bulldozer | Caterpillar D6T LGP ² | 1 | 255 / 4F | Mainline ³ | 8 | 2,888 |
| Bulldozer | Caterpillar D8T ² | 1 | 310 / 4F | Mainline | 8 | 2,888 |
| Bulldozer | Caterpillar D8T ² | 1 | 310 / 4F | Support | 4 | 1,444 |
| Motor Grader | Caterpillar 140G | 1 | 150 / 4F | Support | 2 | 722 |
| Wheeled Loader | Caterpillar 950M ² | 1 | 182 / 4F | Support | 2 | 722 |
| Trash Compactor | Caterpillar 826K² | 1 | 426 / 4F | Mainline | 8 | 2,888 |
| Trash Compactor | Caterpillar 826A ² | 1 | 426 / 4F | Support | 4 | 1,444 |
| Backhoe | Caterpillar 426C | 1 | 81.8 / 4F | Support | 2 | 722 |
| Excavator | John Deere 350 | 1 | 283 / 4F | Mainline | 6 | 2,166 |
| Dump/Haul Truck | John Deere 350D | 1 | 380 / 4F | Mainline | 8 | 2,888 |
| Dump/Haul Truck | John Deere 350D | 1 | 380 / 4F | Support | 6 | 2,166 |
| Truck Tipper | Columbia | 1 | 156 / 4F | Support | 8 | 2,888 |
| Street Sweeper | Elgin, 2019 | 1 | 74 / 4F | Mainline | 4 | 1,440 |
| | | On-Road E | Quipment | | | |
| Equipment | Manufacturer / Model ¹ | Quan. | HP/ Model Year | Mainline or Support | Typ. Miles per Day | Miles per Year Each |
| Water Truck | Peterbilt ² | 2 | 330 / 06 | Mainline | 50^{6} | 6,7666 |
| Mechanic Truck | Ford F550 gasoline | 1 | 330 / 09 | Support | 20 | 7,300 |
| Fuel Truck | GMC Utility Truck | 1 | 330 / 10 | Support | 10 | 3,610 |
| RNG Tube Truck | GNG Powered Tractor | 1 | 330 / 23 | Mainline | 1205 | 43,800 ⁵ |
| Roll-off | Volvo K0317 Roll Off Truck | 1 | 300 / 00 | Support | 20 | 7,300 |
| | Incidental Equ | ipment (<50 | hp or infred | quently used) | | 1 |
| Air compressor Storm-Water | Ingersoll Rand 185 | 1 | 13 | Support | 2 | |
| Pump | 6-inch Trash Pump | 1 | 30 | Support | <1 | |
| Pressure Washer | Pressure Washer | 1 | <3 | Support | <1 | |
| Trash Pump | 3-inch Trash Pump | 1 | <10 | Support | <1 | |
| | 1 | | 1 | 1 | 1 | i e |

Source: Waste Connections, 2021. Notes:

Generator

- 1. The manufacturer or model may change over time as equipment is substituted or replaced.
- 2. White noise back-up alarms are installed and utilized on this equipment.
- 3. Mainline equipment are typically considered the minimum equipment needed to operate the Landfill.

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<10

Support

- 4. Support equipment is considered supplemental and may or may not be present at any given time.
- 5. Assumes peak in 2071 miles within MBARD, mileage will change over time as LFG/RNG production changes.
- 6. Mileage varies seasonally. Assumes 9 loads per day 6 miles round trip. Annual mileage based on water usage from Table B25 divided by 3,600 gal/load x 6 miles round trip.

Generator

<1

Emissions from incidental equipment are considered negligible in comparison to other equipment and are not included in the emissions analysis. Not listed above is the occasional use of a grinder the shred greenwaste. A green-waste grinder is used several times per year with a duration of a few days and is not considered part of normal operations.

4.3.1. GHG

The GHG analysis for the Proposed Project assumes that all Tier 4F off-road equipment will be phased in within 15 years after expansion or sooner (2035) and EFs for an aggregate 2035 calendar year (CalEEMod Table 4.3 for CO₂ and CH₄) are assumed to represent the point at which waste acceptance reaches the projected average. For the Proposed Project, it is assumed that California Executive Order (EO N-79-20) would be implemented and by 2045 and thereafter (until 2070, when the tonnage is reduced to in-County waste only and the emissions would be less) 60% of all vehicles will be net zero emissions (as described in Section 4.2.2, above). Because GHG is based on long term emissions, the weighted average of pre- and post-EO N-79-20 was calculated to obtain the Proposed Project annual GHG emissions below. For GHG analysis, the trip milage for on-road vehicles is assumed to be to and from the point of origin whether within the MBARD or not. Trucks hauling tube trailers from the proposed RNG facility will be operated using RNG (renewable). The analysis indicates that GHG emissions will increase as additional equipment is added, but that the increase will be offset by improving technology.

The data from **Tables B10** and **B11** were used in Tables F2 and G2 in **Attachments F** and **G**, for calculation of the current operation and Proposed Project GHGs, respectively. The average emissions over the proposed project site life are presented in **Attachment U**.

- The annual emissions of GHG from operations equipment under the current condition is estimated to be 1,201 MTCO₂e/yr.
- The average annual emissions of GHG from operations equipment under the Proposed Project would be 980 MTCO₂e/yr.
- Average change over site life: Decrease of 221 MTCO₂e/yr.

4.3.2. Criteria Pollutants

The criteria pollutant analysis for the Proposed Project (**Attachment M**) assumes that all Tier 4F off-road equipment will be phased in within 15 years after expansion or sooner. For the on-road equipment it is assumed that within 15 years of expansion or sooner the average calendar year for on-road equipment would be 2020 (an aggregate of model years) or newer. The emissions include mileage for CNG powered tube trailers to export RNG to the northern MBARD

boundary with a final destination of San Jose assuming that a CNG pipeline injection point will be found within that distance.

Table B12 summarizes the baseline emissions, proposed project emissions and the difference between the two. Both the net change and total proposed project criteria pollutants except PM_{10} would be below the thresholds of significance.

Table B12
Summary of Baseline and Proposed Project On-Site Emissions from Operations and Indirect Emissions

| Source | NOx (lb/day) | ROG (lb/day) | CO (lb/day) | PM10¹ (lb/day) | PM2.5 ¹ (lb/day) | SOx (SO ₂) (lb/day) |
|-----------------------------------|-----------------|-----------------|----------------|-------------------|-----------------------------|------------------------------------|
| Baseline Site Operations (Att. L) | 19.46 | 1.48 | 36.64 | 66.58 | 19.4 | 0.24 |
| Baseline LFG (Att. C) | 9.1 | 9.7^{3} | < 0.54 | 0.08 | 0.08 | 39.2 |
| Baseline Indirect (Att. L) | 23.22 | 0.95 | NA | NA | NA | NA |
| Total | 51.78 | 12.16 | 36.64 | 66.66 | 19.48 | 39.44 |
| Project Site Operations (Att. M) | 14.44 | 1.58 | 35.66 | 67.03 | 17.45 | 0.13 |
| Project LFG Peak (Att. C) | 49.89 | 13.92^{3} | <2.27 | 0.45 | 0.45 | 214.91 |
| Project Indirect (Att. M) | 22.57 | 0.29 | NA | NA | NA | NA |
| Total | 86.90 | 15.79 | 35.66 | 67.48 | 17.9 | 215.04 |
| Difference | 35.12 | 3.63 | -0.98 | 0.82 | -1.58 | 175.6 |
| Threshold ² | 137 | 137 | 550 | 82 | NA | 150 |

Notes: 1: Includes, exhaust, brake wear, tire wear, and road dust.

- 2: Thresholds of significance from Table 5-3, MBARD CEQA Guidelines, 2008
- 3: Assumes detection limit for flare emissions plus fugitive emissions.

For the existing and Proposed projects, all of the emission except PM₁₀ and SO_x falls below the MBARD thresholds. The baseline assumes a 75% dust control efficiency for both paved and graveled roads (infrequent road watering; one or two times per day during dry periods). For the Proposed Project, 75% dust control efficiency is assumed for paved roads and 90% for unpaved roads.

According to the USEPA (1988) vacuum sweeping of paved roads alone (without watering) provides up to 37% dust control efficiency for paved roads. A dust control efficiency of up to 96% can be achieved by water repeated flushing at 0.48 gal/yd² followed by vacuum sweeping.

According to NIOSH, 2019, 74% dust control efficiency can be maintained on unpaved (soil) haul roads by watering every 3 to 4 hours (varying with wind and temperature conditions) and 95% control efficiency can be obtained by watering every half hour. Polymer soil treatment can achieve 94% to 100% control efficiency when applied once a week or less and 74% to 81% when applied every 4 weeks or less. According to the water application equation described earlier in this report, 95% dust control efficiency can likely be maintained on soil roads with

hourly watering and 90% can be maintained with watering every two hours during dry weather (assuming July).

A significant amount of the particulate matter emissions from operations (emissions from module construction are described separately below) is reduced on peak traffic days during dry periods using the following current management practices/design features:

- Minimize vehicle speed by posting speed limits on paved and unpaved roadways.
- Use rumble plates or speed bumps.
- Provide dust control on graveled and unpaved roads by watering as needed for temperature and wind conditions.
- Paved roads create less dust than graveled or unpaved roads. The Figures showing sequencing in the Design Basis Report indicate that paved roads will be lengthened as the Landfill expands and most other roads will be graveled.
- Dust generation is proportional to vehicle trips. The Design Basis Report indicated that a public tipping area will be located near the entrance to reduce length of on-site travel and reduce trips over graveled and paved surfaces.
- The Landfill currently implements a wheel wash for large trucks during muddy conditions. The Design Basis Report indicates that one will be used for the Proposed Project.
- Rumble strips will be provided and maintained at the end of the paved roads where they turn to gravel or unpaved roads.
- Sweep paved roads daily or as needed to reduce dust loading.
- Water paved roads during dry weather, peak traffic, times to reduce dust mobility.
- When using road graders simultaneously with other earthwork, keep the average speed below 5 mph.
- Water active bulk excavation areas at least twice daily. Frequency should be based on the type of operation, soil, and wind exposure.
- Prohibit all grading activities (bulk excavation or road grading does not include excavation of soil for, and covering waste) during periods of sustained high wind (over 15 mph) as measured at the Landfill.
- Hydroseed or place straw cover over cut and fill areas related to bulk excavation as soon feasible after work completion.
- Cover intermediate soil cover (12-inches soil in locations not anticipated to receive waste 180 days) on final outside slopes and long-term internal slopes with processed green waste, if available. If not available, apply straw at a minimum of 3 tons per acre prior to winter.
- Haul trucks bringing gravel or loose soil materials to the site on public roads shall maintain at least 2'0" of freeboard or be covered.

• Post a publicly visible sign which specifies the telephone number to contact regarding dust complaints. This respondent (typically the landfill manager) responds to complaints and takes corrective action within 48 hours.

It is assumed that the operator currently implements these management practices/design features or will as part of the project. These management practices/design features are not considered mitigations. Many of the management practices/design features need not be implemented during wet, foggy, high-moisture, or low-traffic conditions when there is no observable wind-blown dust without them.

4.4. Construction Emissions

4.4.1. Assumptions

Based on the Design Basis Report, the remaining construction for the current project would be for installation of the Final Closure Cap and would occur during a single summer construction season in approximately 2037 if the Landfill is not expanded. For the Proposed Project construction projects would include the following:

- Construction of Landfill Modules every one to three years.
- Construction of the Landfill Entrance and RNG Facility Infrastructure.²²
- Class I Area Clean Closure.
- Construction of the Final Closure Cap.

Tables B13 through **B16**, on the following pages, summarize the construction equipment for each of these projects as described in the Design Basis Report. The information from these tables was used in the corresponding tables in **Attachment H** to estimate GHG emissions and in **Attachment N** to calculate criteria pollutant emissions as summarized after the following tables.

009130.11 Rev. July 2022

²² The building pad & utilities for the RNG facility would be established during construction of the entrance. Placement of the equipment will be performed later.

Table B13
Construction Equipment per Module

| | Construction Equipment per Module | | | | | | | |
|-----------------------------|-------------------------------------|-------|-------|---|-----------------------------|---|-------------------------|--|
| Equipment | Manufacturer/ Model ¹ | Quan. | НР | Use | Average Hours per Day | Working Days Per Project ² | Hours per Project | |
| | | | Off-H | lighway Diesel | | | | |
| Bulldozer | Caterpillar D6T LGP | 1 | 165 | LCRS, ops layer | 8 | 15 | 120 | |
| Bulldozer | Caterpillar D8T | 1 | 310 | Clearing, ripping, spreading | 8 | 50 | 2,888 | |
| Bulldozer | Caterpillar D6R | 1 | 140 | Feeding screen | 8 | 25 | 200 | |
| Motor Grader | Caterpillar 140G | 1 | 150 | Fine grading | 8 | 5 | 40 | |
| Wheeled Loader | Caterpillar 938M | 1 | 190 | Moving LCRS gravel, loading screened soil | 2 | 30 | 60 | |
| Pad-Foot Compactor | Caterpillar 826C | 1 | 341 | Compacting structural fills & clay layer | 8 | 10 | 80 | |
| Smooth Drum Compactor | Caterpillar CS34 | 1 | 74 | Compacting top of clay & road surfaces | 8 | 5 | 40 | |
| Backhoe | Caterpillar 426C | 1 | 88 | Trenches | 8 | 5 | 40 | |
| Excavator | John Deere 350 | 2 | 271 | 3, hauling screened soil, boulder breaking | 8 | 50 | 800 | |
| Dump/Haul Truck | Caterpillar 740 | 3 | 453 | Bulk excavation, hauling screened soil | 8 | 50 | 1,200 | |
| Screening Plant | Spyder 514TS | 1 | 74 | Screening soil | 8 | 25 | 200 | |
| Extended Loader | JCB 20TC | 1 | 74 | Unload geomembranes | 8 | 5 | 40 | |

Continued on the Next Page

Table B13 Construction Equipment per Module (continued)

| | | | | hway Diesel | , | | |
|--------------------|----------------------|-------|-----|--------------------|--|---|--------------------|
| Equipment | Type¹ | Quan. | НР | Use | Miles/ Round Trip Each ³ | Working Days Per Project ² | Miles / Project |
| Belly Dump | Peterbilt | 8 | 380 | Aggregate | 60 | 2 | 960 |
| Low Boy | Peterbilt | 6 | 380 | Equipment Mob | 200 | 2 | 2,400 |
| Flat Bed or Van | Peterbilt | 8 | 380 | Materials Delivery | 200 | 1 | 1,600 |
| Water Truck | 50,000 GVW | 1 | 330 | Dust control | 963 | 94 | 9,024 |
| Mechanic Truck | Ford F350 | 1 | 215 | Support | 4 | 94 | 376 |
| Fuel Truck | GMC Utility Truck | 1 | 215 | Support | 20 | 94 | 1,880 |
| Forman Truck | Ford F350 | 1 | 215 | Support | 20 | 94 | 1,880 |
| Light Truck | Ford F350 or equal | 2 | 215 | Support | 60 | 120 | 14,400 |

Notes:

- 1. The manufacturer or model may be different based on specific contractor.
- 2. Assumes: Bulk excavation of 200,000 CY at 5,000 CY/day. Assumes 15 workdays for screening.
 - a. Clearing: 2 days
 - b. Bulk Excavation: 200,000 CY at 4,000 CY/Day = 50 days
 - c. Screening: 25,000 CY at 1,000 CY/Day = 25 days concurrently with bulk excavation
 - d. Clay Placement: 8,000 CY at 1,000 CY/day = 8 days after bulk excavation
 - e. Geomembrane and GCL Placement: 10 days
 - f. HDPE Piping: 4 days
 - g. LCRS & Drainage gravel: 5 days
 - h. Operations Layer: 5 days
 - i. Drainage & Erosion Control: 10 days
 - j. Total Workdays: 94 = 131.6 Calendar Days = 4.32 months
- 3. Includes miles only within San Benito County.

For criteria pollutants from off-road equipment EFs for NOx, ROG, and PM₁₀ were obtained from Carl Moyer Table D9 and were assumed to have Tier 4F emissions as lower Tier equipment is being phased out (Tier 3 ended production in 2018). EFs for criteria pollutants PM_{2.5}, CO, and SOx were obtained from CalEEMod Table 3.4 assuming 2010 model year or better.²³

For on-road equipment EFs were obtained from EMFAC2017 assuming a 2023 calendar year with aggregate model years. This provides a conservatively high estimate of emissions assuming that future modules would have newer vehicles and emissions would be lower over time.

009130.11 Rev. July 2022

On-road PM₁₀ and PM_{2.5} emissions include exhaust, brake wear, tire wear, and fugitive dust emissions for all of the analyses described herein.

Table B14
Construction Equipment for Entrance Project

| | Const | Tuction 1 | - quipi | Hent for Entrance i | roject | ı | |
|-----------------------------|-------------------------------------|-----------|---------|---|-----------------------------|---|-------------------------|
| Equipment | Manufacturer/ Model ¹ | Quan. | HP | Use | Average Hours per Day | Working Days Per Project ² | Hours per Project |
| | | | Off-H | lighway Diesel | | | |
| Bulldozer | Caterpillar D8T | 2 | 310 | Clearing, ripping, spreading | 8 | 78 | 1,248 |
| Motor Grader | Caterpillar 140G | 1 | 150 | Fine grading roads | 8 | 5 | 40 |
| Wheeled Loader | Caterpillar 938M | 1 | 190 | Moving pavement gravel | 2 | 30 | 60 |
| Water Truck | Peterbilt | 1 | 330 | Soil moisture & dust | 6 | 98 | 588 |
| Pad-Foot Compactor | Caterpillar 826C | 2 | 341 | Compacting structural fills | 8 | 68 | 1,088 |
| Smooth Drum Compactor | Caterpillar CS34 | 1 | 74 | Compacting & road prior to pavement Surfaces | 8 | 5 | 40 |
| Backhoe | Caterpillar 426C | 1 | 88 | Trenches footings | 8 | 10 | 80 |
| Excavator | John Deere 350 | 2 | 271 | Excavating soil and loading, boulder breaking | 8 | 50 | 800 |
| Dump/Haul Truck | Caterpillar 740 | 3 | 453 | Bulk excavation, hauling soil | 8 | 98 | 2,352 |

Continued on next page

Table B14
Construction Equipment for Entrance & RNG Project (continued)

| | | | | | ` | ĺ | |
|---|----------------------|-------|------|-------------------------|--|----------------------|--------------------|
| F | Manufacturer/ | 0 | ш | W | Average Hours | Working Days Per | Hours per |
| Equipment | Model ¹ | Quan. | HP | Use | per Day | Project ² | Project |
| | 1 | | | y Diesel (continued) | _ | 1 | T |
| Extended Loader | JCB 20TC | 1 | 74 | Scale placement | 8 | 5 | 40 |
| Paving Machine | CAT AP655F | 1 | 173 | Paving | 8 | 2 | 16 |
| | | | On-H | ighway Diesel | | | |
| Equipment | Type ¹ | Quan. | HP | Use | Miles/ Round Trip Each ³ | Trips | Miles / Project |
| Crane | Terex RS 70100 | 1 | 450 | Scale placement | 200 | 2 | 400 |
| Belly Dump | Peterbilt | 8 | 380 | Aggregate pr asphalt | 30 | 30 | 7,200 |
| Low Boy | Peterbilt | 12 | 380 | Equipment mob | 200 | 2 | 4,800 |
| Hydroseed | FINN T330 | 1 | 380 | Seed & mulch | 20 | 20 | 400 |
| Water Truck | Peterbilt | 1 | 380 | Soil moisture | 10 | 800 | 8,000 |
| Flat Bed, concrete truck, or Van | Peterbilt | 8 | 380 | Materials delivery | 200 | 1 | 1,600 |
| Mechanic Truck | Ford F350 | 1 | 215 | Support | 10 | 129 | 1,290 |
| Fuel Truck | GMC Utility Truck | 1 | 215 | Support | 10 | 129 | 1,290 |
| Forman Truck | Ford F350 | 1 | 215 | Support | 10 | 129 | 1,290 |
| Light Truck | Ford F350 or equal | 2 | 215 | Support | 60 | 129 | 15,480 |

Notes:

- 1. The manufacturer or model may be different based on specific contractor.
- 2. Assumes: bulk excavation of 230,000 CY at 4,000 CY/day.
 - a. Clearing: 5 days.
 - b. RCP Culvert placement (under visual berm): 5 days, concurrently with clearing.
 - c. Phase 1 bulk excavation, basin backfill, and new basin embankment: 230,000 CY at 4,000 CY/Day = 58 days.
 - d. Phase 2 pavement demolition: 5 days.
 - e. Phase 2 structural fill 20,000 CY & 1,000 CY/Day = 20 days.
 - f. Underground utilities, upgrade electrical for RNG, wheel wash & misc. work: 10 days.
 - g. Scale footings, RNG equipment pads & curbs: 10 days, part concurrently with underground & part after scale pad demolition.
 - h. Base and paving: 7 days.
 - i. Office trailer & scalehouse installation: 2 days.
 - j. Move scale decks: 2 days.
 - k. Demolish old scale footings: 5 days.
 - 1. Drainage & Erosion Control: 5 days.
 - m. Total Workdays: 129 = 181 Calendar Days = 5.9 months.

Table B15
Construction Equipment for Class I Area Clean Closure

| | Manufacturer | | | | Average Hours | Working Days Per | Hours |
|--|----------------------------|-------|-------|--|----------------------|----------------------|----------------|
| Equipment | /Model ¹ | Quan. | HP | Use | per Day | Project ² | per Project |
| | • | | Off-H | lighway Diesel | | | |
| Bulldozer | Caterpillar D8T | 1 | 310 | Clearing, ripping, spreading | 8 | 73 | 56 |
| Backhoe | Caterpillar 426C | 1 | 88 | Misc. Clean-up and sampling | 8 | 23 1,2,3 | 184 |
| Excavator | John Deere 350 | 1 | 271 | Excavation & loading soil. | 8 | 23 ^{1,2,3} | 184 |
| Dump/Haul Truck | Caterpillar 740 | 2 | 453 | Hauling non- hazardous soil to landfill working face | 8 | 14 ^{1,3} | 224 |
| | | | On-H | lighway Diesel | | | |
| | Manufacturer / Model or | | | | Average Miles per | Working Days Per | Miles per |
| Equipment | weight ¹ | Quan. | HP | Use | Day | Project ² | Project |
| Water Truck | 50,000 GVW | 1 | 330 | Dust control | 96^{4} | 23 | 2,208 |
| Maintenance | 50 000 OTT | | | | | l i | |
| Truck | 50,000 GW | 1 | 330 | Fueling & lubricating equipment | 12 | 23 | 276 |
| Truck Flatbed for Mobilization | 80,000 GVW | 4 | 330 | | 12 | 23 | 276 800 |
| Flatbed for | | | | equipment | | | |
| Flatbed for Mobilization End Dump Soil | 80,000 GVW | 4 | 334 | equipment Equipment hauling | 100 | 2 | 800 |

- 1. Assuming closure cap and clean fill soil removal at 6,400 cy/1,000 cy/day, round up = 7 days.
- 2. Assuming hazardous waste excavation and loading of 3,500 cy (13 cy/load, 15 min/load 32 loads/day 416 cy/day), rounded up = 9 days.
- 3. Assuming 13,000 cy non-hazardous soil at 2,000 CY/day, rounded up = 7 days.
- 4. Assume two loads per hour for 8 hours at 6 miles per load = 96 miles.
- 5. Assume 1.5 trips per day per truck assuming average of 50 mph for 137 miles one way = 411 miles/day.

Table B16
Construction Equipment for Closure Project per Year

| | | | | | 1 | XX71 * | TT |
|--------------------------|-------------------------------------|-------|-------|---|------------------------|---------------------|--------------------|
| | Manuela Manuel | | | | Average Hours | Working | Hours |
| Equipment | Manufacturer/ Model ¹ | Quan. | НР | Use | per Day | Days Per Project | per Project |
| Equipment | Model | Quan. | | ighway Diesel | per Day | Froject | Froject |
| Bulldozer | Caterpillar D8T | 2 | 310 | Clearing, ripping, | 8 | 100 | 1,600 |
| | | | | spreading | | | , |
| Motor Grader | Caterpillar 140G | 1 | 150 | Fine grading roads, ditches | 8 | 50 | 400 |
| Wheeled Loader | Caterpillar 938M | 1 | 190 | Moving pavement gravel, ditch soil | 8 | 10 | 60 |
| Pad-Foot Compactor | Caterpillar 826C | 2 | 341 | Compacting structural fills | 8 | 68 | 1,088 |
| Smooth Drum Compactor | Caterpillar CS34 | 1 | 74 | Compacting & road prior to pavement surfaces | 8 | 5 | 40 |
| Backhoe | Caterpillar 426C | 1 | 88 | Trenches footings | 8 | 10 | 80 |
| Excavator | John Deere 350 | 1 | 271 | Excavating soil and loading, boulder breaking | 8 | 10 | 80 |
| Earth Mover | Caterpillar 637K | 6 | 860 | Bulk excavation, hauling soil | 8 | 100 | 4,800 |
| | | | On-Hi | ghway Diesel | • | • | |
| Equipment | Type ¹ | Quan. | HP | Use | Miles/ Trip Each | Trips | Miles / Project |
| Belly Dump | Peterbilt | 8 | 380 | Aggregate | 30 | 2 | 480 |
| Low Boy | Peterbilt | 15 | 380 | Equipment Mob | 200 | 2 | 4,800 |
| Flat Bed or Van | Peterbilt | 8 | 380 | Materials delivery | 200 | 1 | 1,600 |
| Hydroseed | FINN T330 | 2 | 380 | Seed & mulch | 20 | 20 | 800 |
| Water Truck | Peterbilt | 2 | 380 | Soil moisture | 10 | 960 | 19,200 |
| Mechanic Truck | Ford F350 | 1 | 215 | Support | 10 | 120 | 1,200 |
| Fuel Truck | GMC Utility Truck | 1 | 215 | Support | 10 | 120 | 1,200 |
| Forman Truck | Ford F350 | 1 | 215 | Support | 10 | 120 | 1,200 |
| Light Truck | Ford F350 or equal | 2 | 215 | Support | 60 | 120 | 14,400 |

Notes:

- 1. The manufacturer or model may be different based on specific contractor.
 - a. Assumes: bulk excavation of 1,000,000 CY/year at 10,000 CY/day = 100 workdays or =140 calendar days.
 - b. Clearing: 5 days concurrently with bulk excavation.
 - c. Base for road on cap 5 days.
 - d. Drainage & Erosion Control: 10 days.
 - e. Total Workdays: 120 = 161 Calendar Days = 5.3 months.

4.4.2. GHG Emissions

GHG emissions were calculated for each of the projects described in **Tables B13** through **B16**. For module construction, EFs for off-road vehicles were obtained from CalEEMod Table 3.4, assuming a 2010 model year or newer. For on-road vehicles EFs for each vehicle and fuel type were obtained from EMFAC 2017 assuming a 2023 calendar year with aggregate model year and speed. These assumptions are based on the first Module being constructed as early as 2023. GHG emissions would decrease somewhat during later modules. Module construction projects would be constructed every one to three years and for modeling purposes, it is assumed that a Module would be constructed every other year and the two-year averaged is assumed for average annual GHG emissions.

For the entrance project, a 2025 construction year was assumed with 2015 or newer model year for off-road equipment and a 2025 calendar year and aggregate model year for each type and fuel type on-road vehicle.

Based on the discussion in the Design Basis Report, it is likely that the clean closure would occur sometime around or after 2037. Therefore a 2030 or newer model year was assumed for off-road equipment. For on-road equipment, the emissions were calculated using a 2037 calendar year with an aggregate model year for each type and fuel type on-road vehicle.

Based on the discussion in the Design Basis Report, if the Landfill does not expand, 58 acres would be closed in approximately 2037. Therefore a 2030 or newer model year was assumed for off-road equipment. For on-road equipment, a 2037 calendar year with aggregate model year was selected. For final closure of the Proposed Project, it is assumed that the final cap would be 253 acres or 4.36 times the size of the 58-acre project. For GHG analysis, the EFs don't change significantly after 2030 and the same assumptions for a 2037 closure are assumed for final closure. For on-road equipment, the 2037 calendar year and aggregate model year was used. Except that because final closure will occur after 2045, 40% of the calculated emissions was used assuming that 60% of vehicle emissions would be carbon neutral.

For the existing operation, only the closure project remains per Table H3 in **Attachment H**. For the Proposed Project, the following assumptions were made:

- 1. Calculating the MTCO₂e emissions per construction project using Tables H5 and H6 as summarized in Table H1.
- 2. Multiplying the result from Table H1 x 29 construction projects (over the 65-year site life).

- 3. Calculating the MTCO₂e emissions for the closure cap by multiplying the emissions from Table 2 x 4.36 (253 Proposed Project acres/58 current operation acres) to estimate the Proposed Project closure cap emissions.
- 4. Summing items 2 through 4 and dividing by a site life of 65 years as shown in Table H4 in **Attachment H**.

Table B17 summarizes the projected current and Proposed Project GHG construction emissions. **Attachment H** contain the detailed analyses.

Table B17
GHG Analyses from Construction Projects

| Project | Current Operation, MTCO2e | Proposed Project, MTCO2e | | |
|------------------------------|---------------------------|-------------------------------|--|--|
| Module Construction | None Remaining | 116/project ¹ | | |
| Entrance Construction | NA | 227/project | | |
| Class I Area Clean Closure | NA | 73/project | | |
| Final Closure | 695/project ² | 3,031/7 projects ³ | | |
| Total Average Over Site Life | 41/year ⁴ | 86/year ⁵ | | |

Notes:

- 1. Assumed to be 29 construction projects over 65 years of the site life.
- 2. 58-acre closure in one year.
- 3. See Table U-1 in **Attachment U**. Assume 6 partial final closures and one final closure project for the purposes of modeling.
- 4. Assuming average over 17 remaining years in Table U-1.
- 5. Average of all projects from Table U-1 averaged over the roughly 65-year site life.

Table U-1 in **Attachment U** shows a typical sequence of construction projects for the life of the current landfill and Proposed Project. The final sequence will be different. On average, emissions would increase by 77 MTCO₂e/yr.

4.4.3. Criteria Pollutants

For the construction projects described in **Tables B13** through **B17** above, the emissions from the anticipated highest phase of construction for a representative project were estimated. The highest emissions phase of construction occurs when the greatest quantity of high-horsepower heavy equipment is operating. Bulk excavation during Module construction is anticipated to use the most equipment. During the bulk-excavation phase of module construction at JSRL, the bedrock is ripped using a dozer, loaded into off-road dump trucks and taken to a stockpile where it is dumped and spread by another dozer. Concurrently excavated, ripped rock is taken to a screening plant dumped in a pile and either pushed into a screen hopper by a loader or small dozer and the screen material stockpiled for later use in the low hydraulic clay layer or operations layer. This phase of construction typically occurs starting in mid-April and lasting 2 to 2-1/2 months. It is assumed that the earliest module construction would occur in 2023 and every two years thereafter.

Load factors for all emissions were obtained from the Carl Moyer Program, Table D-7. EFs for NOx, ROG, and PM₁₀ for off-road vehicles were obtained from the Carl Moyer Table D-9, assuming Tier 4F engines for all vehicles over 200 hp, and Tier 3 engines for all other equipment EFs for PM_{2.5}, CO, and SOx were obtained from CalEEMod Table 3.4 assuming a 2010 or newer model year. It is assumed that emissions equipment will improve over time and that emissions will gradually diminish in the future. Therefore, the analyzed value for vehicle exhaust is considered conservatively high. The PM₁₀ and PM_{2.5} results for off-road equipment include fugitive dust from unpaved travel to and from the excavation area to a stockpile or to the screening plant, dust from dozers and loaders, and dust from loading and unloading the haul trucks and screening plant. PM₁₀ and PM_{2.5} emissions from off-road vehicle exhaust are negligible in comparison to fugitive dust.

For on-road vehicles the EFs for each vehicle and fuel type were obtained from EMFAC2017 assuming a 2023 calendar year, with aggregate model year and aggregate speed. For on-road vehicles PM₁₀ and PM_{2.5} included exhaust emissions, brake wear, tire wear and fugitive emissions from paved and unpaved road dust.

In addition, bulk excavation emissions from paving the new entrance area were also estimated. Paving would not occur concurrently with bulk excavation and should not be summed with the typical construction project but would contribute to VOC emissions during the later stages of the entrance construction project.

Table B18 summarizes the estimated criteria pollutant emissions for the typical construction project from **Attachment N**.

Table B18
Peak Criteria Pollutant Analyses from Typical Construction Project, lb/day

| Project | NOx | ROG | СО | PM ₁₀ | PM _{2.5} | SOx |
|---------------------------------|-------|------|-------|------------------|-------------------|------|
| Typical Construction Project | 11.79 | 1.23 | 56.75 | 61.93 | 22.74 | 0.14 |
| Entrance Paving | | 4.85 | | | | |
| MBARD Thresholds | 137 | 137 | 500 | 82 | 82 | 82 |

In this case, construction emissions are considered short term impacts for comparison to MBARD thresholds of significance per MBARD CEQA guidelines.

As modeled, the control factor for off-road dust from off-road haul trucks is assumed to be 95% and will require hourly watering during dry summer days or the application and maintenance of dust palliatives on the unpaved soil haul path, or both. The following management practices/design features are assumed as part of the Proposed Project as the project proponent has agreed to implement them as part of the project:

- Require that construction equipment reduce speed to 15 mph or less unless the Contractor provides a dust control plan for higher speeds.
- Suspend bulk hauling on unpaved roads when sustained wind speeds are over 15 mph.
- Require the Contractor to provide a dust control plan to ensure that they understand the importance of careful dust control.
- After establishing off-road dump-truck or scraper routes, apply dust palliative, or provide frequent watering with the frequency depending on temperature, humidity and wind speed.
- Water graveled roads accessed by construction support equipment.
- Water soil in ripping, loading, and unloading areas.
- Provide water mist on screening plant as needed without interfering with production.
- Water all active construction areas at least twice daily. Frequency should be based on the type of operation, soil, and wind exposure.
- Haul trucks bringing gravel or loose soil materials to the site on public roads shall maintain at least 2'0" of freeboard or be covered.

The degree to which these management practices/design features would be implemented will depend on conditions and may not need to be implemented during wet, foggy, or high-moisture conditions during periods where no visible windblown dust is observed.

The modeled emissions assume that exhaust emissions are reduced:

- Limit idling to 5 minutes (as currently required).
- Require all equipment over 200 hp to be Tier 4F or an equivalent of using the average of all off-road equipment (e.g., a 200 hp Tier 3 piece of equipment may be used if numerous smaller ones are Tier 4).

4.5. Emissions from Combined Scenarios

While estimates of typical emissions for both operations during peak traffic days and described control measures to reduce dust emissions are described above, the combination of operations emissions, flare emissions, fugitive GHG emissions, and construction emissions can occur simultaneously and have the potential to exceed MBARD thresholds on a combined (summed) basis. Because of that potential, L&A developed scenarios for five projects that would be the closest to property boundaries and/or surrounding receptors. Additionally, the combined scenarios provide the ability to model PM₁₀.

Each scenario includes the following categories:

- Emissions from both support traffic (e.g., water truck, maintenance truck, carpool van), and peak tonnage day waste delivery (peak tonnage day have a high proportion of heavy vehicles that produce higher calculated EFs for PM₁₀) on the paved portion of the on-site road at the time of a construction project.
- Emissions from both support traffic, and peak tonnage day waste delivery on the graveled portion of the on-site road that extends from the paved road to the landfill working face.
- Emissions from construction support vehicles from the end of the paved road along an unpaved road to a module construction area.
- Emissions for haul tucks from a module construction area to the anticipated stockpile.
- Waste filling and daily cover operations at the landfill working face, assuming one acre.
- Excavation activities at the construction site including ripping, excavating, and loading soil.
- Activities at the stockpile area, including unloading and spreading soil, and screening soil to make clay.
- Peak emissions from the flare and fugitive LFG emissions (not likely to occur simultaneously with module construction but are included to provide conservatively high analysis).
- Indirect (off-site) emissions for ROG and NOx for comparison to the MBARD thresholds of significance (not included in dispersion modeling)
- Emissions from Entrance Queuing (not included in dispersion modeling).

Bulk excavation typically occurs in the spring starting in April and ending in June or July. To the degree feasible, soil is excavated for daily cover from the next Module to be constructed and the landfill working face tends to be near the next module as that is where waste will be filled next. Scenarios 1 and 5 are the exception to this rule, as excavation of the entrance and clean closure of the Class I Area would occur at different location than the working face at the time. Figures B8 through B12 shows the configuration of each scenario. Figure B7 shows the baseline condition summary as of late 2020/early 2021. The above scenarios assume that the mitigation measures for operation and construction described above will be incorporated. Attachments O.1 through O.6 include the calculation spreadsheets for the baseline and the five scenarios shown on the Figures. The closure scenario was not calculated as the Landfill would not be operating at the time and the closure scenario would have lower emissions than the alternatives.

Tables B19 through **B24** show the emissions summary and the baseline (2021) condition and for each scenario, a comparison to the baseline condition, and a comparison the MBARD CEQA thresholds of significance. The calculation worksheets are in **Attachment O**.

Table B19
Combined Operations and Construction – Baseline Scenario

| Location | PM ₁₀ , lb/day | PM _{2.5} , lb/day | ROG (VOC), lb/day | NOx, lb/day | CO, lb/ | SO ₂ , lb/day |
|---------------------------------------|------------------------------|-------------------------------|-------------------------|-------------|---------|-----------------------------|
| Emissions from Paved Road | 16.77 | 2.58 | 2.12 | 1.53 | 3.53 | 0.03 |
| Emissions from Graveled Road | 50.34 | 6.01 | 8.47 | 6.11 | 14.12 | 0.12 |
| Emissions from Unpaved Road | 6.95 | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 |
| Emissions from Soil Haul Path | 0.00 | 0.00 | 0.17 | 4.43 | 4.44 | 0.02 |
| Emissions from Waste Disposal Area | 6.64 | 4.98 | 1.21 | 17.80 | 40.88 | 0.07 |
| Emissions from Construction Area | 0.00 | 0.00 | 0.07 | 0.37 | 2.95 | 0.01 |
| Emissions from Stockpile | 0.00 | 0.00 | 0.00 | 0.39 | 0.00 | 0.00 |
| Flare or IC (current) ¹ | 0.09 | 0.09 | 2.96 | 9.88 | 0.54 | 42.55 |
| Current LFG Fugitive Emissions | NA | NA | 3.93 | NA | NA | NA |
| Indirect (peak offsite traffic) App L | NA | NA | 0.95 | 23.22 | NA | NA |
| Total | 80.80 | 14.35 | 19.88 | 63.73 | 66.46 | 42.79 |
| MBARD Significance Thresholds | 82 | 82 | 137 | 137 | 550 | 150 |

Notes: 1 – Values for CO and VOC are the detection limit.

Table B20 Combined Operations and Construction – Scenario 1 - Entrance

| Location | PM ₁₀ , lb/day | PM _{2.5} , lb/day | ROG (VOC), lb/day | NOx, lb/ day | CO, lb/ day | SO ₂ , lb/day |
|---------------------------------------|------------------------------|-------------------------------|-------------------------|-----------------|----------------|-----------------------------|
| Emissions from Paved Road | 6.61 | 1.06 | 0.20 | 0.96 | 1.57 | 0.02 |
| Emissions from Graveled Road | 9.61 | 1.11 | 0.03 | 0.15 | 0.25 | 0.00 |
| Emissions from Unpaved Road | 3.55 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| Emissions from Soil Haul Path | 28.45 | 2.84 | 0.70 | 3.66 | 28.65 | 0.02 |
| Emissions from Waste Disposal Area | 6.40 | 4.62 | 1.13 | 11.68 | 31.51 | 0.06 |
| Emissions from Construction Area | 4.70 | 3.37 | 0.63 | 5.62 | 26.64 | 0.06 |
| Emissions from Stockpile | 2.38 | 2.78 | 0.21 | 0.39 | 6.05 | 0.01 |
| Flare or IC (peak) ¹ | 0.44 | 0.45 | 4.22 | 49.89 | 2.27 | 214.91 |
| Peak LFG Fugitive Emissions | NA | NA | 10.81 | NA | NA | NA |
| Indirect (peak offsite traffic) App L | NA | NA | 0.29 | 22.57 | NA | NA |
| Entrance Queuing | 0.00 | 0.00 | 0.10 | 1.05 | 1.45 | 0.00 |
| Total | 62.14 | 16.59 | 18.33 | 95.97 | 98.39 | 215.07 |
| Baseline (2021) | 80.80 | 14.35 | 19.88 | 63.73 | 66.46 | 42.79 |
| Change from Baseline | -18.65 | 2.24 | -1.55 | 32.23 | 31.93 | 172.28 |
| MBARD Significance Thresholds | 82 | 82 | 137 | 137 | 550 | 150 |

Notes: 1 – Values for CO and VOC are the detection limit.

Table B21
Combined Operations and Construction – Scenario 2 – Westernmost Construction

| Combined Operations and Construction – Sectian to 2 – Westerninost Construction | | | | | | |
|---|------------------------------|-------------------------------|-------------------------|-----------------|----------------|-----------------------------|
| Location | PM ₁₀ , lb/day | PM _{2.5} , lb/day | ROG (VOC), lb/day | NOx, lb/ day | CO, lb/ day | SO ₂ , lb/day |
| Emissions from Paved Road | 8.96 | 1.38 | 2.42 | 2.12 | 2.06 | 0.04 |
| Emissions from Graveled Road | 15.21 | 1.74 | 0.45 | 0.39 | 0.38 | 0.01 |
| Emissions from Unpaved Road | 5.95 | 0.72 | 0.68 | 0.60 | 0.58 | 0.01 |
| Emissions from Soil Haul Path | 17.68 | 1.77 | 0.70 | 3.66 | 16.63 | 0.02 |
| Emissions from Waste Disposal Area | 3.20 | 1.91 | 1.08 | 8.97 | 22.65 | 0.06 |
| Emissions from Construction Area | 4.70 | 1.02 | 0.63 | 5.62 | 18.90 | 0.06 |
| Emissions from Stockpile | 1.34 | 1.30 | 0.21 | 0.39 | 5.29 | 0.01 |
| Flare or IC (peak) ¹ | 0.44 | 0.45 | 4.22 | 49.89 | 2.27 | 214.91 |
| Peak LFG Fugitive Emissions | NA | NA | 10.81 | NA | NA | NA |
| Indirect (peak offsite traffic) App M | NA | NA | 0.29 | 22.57 | NA | NA |
| Entrance Queuing | 0.00 | 0.00 | 0.10 | 1.05 | 1.45 | 0.00 |
| Total | 57.48 | 10.30 | 21.60 | 95.25 | 70.22 | 215.11 |
| Baseline (2021) | 80.80 | 14.35 | 19.88 | 63.73 | 66.46 | 42.79 |
| Change from Baseline | -23.31 | -4.06 | 1.72 | 31.51 | 3.76 | 172.32 |
| MBARD Significance Thresholds | 82 | 82 | 137 | 137 | 550 | 150 |

Notes: 1 – Values for CO and VOC are the detection limit.

Table B22
Combined Operations and Construction – Scenario 3 – Northernmost Construction

| Location | PM10, lb/day | PM2.5, lb/day | ROG (VOC), lb/day | NOx, lb/ day | CO, lb/ | SO2, lb/day |
|---------------------------------------|-----------------|------------------|-------------------------|-----------------|---------|----------------|
| Emissions from Paved Road | 16.73 | 2.67 | 2.04 | 2.19 | 1.74 | 0.03 |
| Emissions from Graveled Road | 10.51 | 1.21 | 0.14 | 0.15 | 0.12 | 0.00 |
| Emissions from Unpaved Road | 6.31 | 0.70 | 0.14 | 0.15 | 0.12 | 0.00 |
| Emissions from Soil Haul Path | 35.79 | 3.58 | 0.70 | 3.66 | 16.63 | 0.02 |
| Emissions from Waste Disposal Area | 3.20 | 1.91 | 1.08 | 8.97 | 22.65 | 0.06 |
| Emissions from Construction Area | 4.70 | 1.02 | 0.63 | 5.62 | 18.90 | 0.06 |
| Emissions from Stockpile | 1.34 | 1.30 | 0.21 | 0.39 | 5.29 | 0.01 |
| Flare or IC (peak) ¹ | 0.44 | 0.45 | 4.22 | 49.89 | 2.27 | 214.91 |
| Peak LFG Fugitive Emissions | NA | NA | 10.81 | NA | NA | NA |
| Indirect (peak offsite traffic) App M | NA | NA | 0.29 | 22.57 | NA | NA |
| Entrance Queuing | 0.00 | 0.00 | 0.10 | 1.05 | 1.45 | 0.00 |
| Total | 79.03 | 12.84 | 20.38 | 94.63 | 69.18 | 215.09 |
| Baseline (2021) | 80.80 | 14.35 | 19.88 | 63.73 | 66.46 | 42.79 |
| Change from Baseline | -1.77 | -1.52 | 0.49 | 30.90 | 2.72 | 172.29 |
| MBARD Significance Thresholds | 82 | 82 | 137 | 137 | 550 | 150 |

Notes: 1 – Values for CO and VOC are the detection limit.

Table B23
Combined Operations and Construction – Scenario 4– Easternmost Construction

| • | | | ROG | | | |
|---------------------------------------|--------------------|---------------------|--------|--------|--------|-------------------|
| Lagation | PM ₁₀ , | PM _{2.5} , | (VOC), | NOx, | CO, | SO ₂ , |
| Location | lb/day | lb/day | lb/day | lb/day | lb/day | lb/day |
| Emissions from Paved Road | 9.43 | 1.45 | 2.42 | 2.12 | 2.06 | 0.04 |
| Emissions from Graveled Road | 15.22 | 1.74 | 0.45 | 0.39 | 0.38 | 0.01 |
| Emissions from Unpaved Road | 5.95 | 0.72 | 0.68 | 0.60 | 0.58 | 0.01 |
| Emissions from Soil Haul Path | 17.68 | 1.77 | 0.70 | 3.66 | 16.63 | 0.02 |
| Emissions from Waste Disposal | | | | | | |
| Area | 3.20 | 1.91 | 1.08 | 8.97 | 22.65 | 0.06 |
| Emissions from Construction Area | 4.70 | 1.02 | 0.63 | 5.62 | 18.90 | 0.06 |
| Emissions from Stockpile | 1.34 | 1.30 | 0.21 | 0.39 | 5.29 | 0.01 |
| Flare or IC (peak) ¹ | 0.44 | 0.45 | 4.22 | 49.89 | 2.27 | 214.91 |
| Peak LFG Fugitive Emissions | NA | NA | 10.81 | NA | NA | NA |
| Indirect (peak offsite traffic) App M | NA | NA | 0.29 | 22.57 | NA | NA |
| Entrance Queuing | 0.00 | 0.00 | 0.10 | 1.05 | 1.45 | 0.00 |
| Total | 57.96 | 10.37 | 21.60 | 95.25 | 70.22 | 215.11 |
| Baseline (2021) | 80.80 | 14.35 | 19.88 | 63.73 | 66.46 | 42.79 |
| Change from Baseline | -22.83 | -3.99 | 1.72 | 31.51 | 3.76 | 172.32 |
| MBARD Significance Thresholds | 82 | 82 | 137 | 137 | 550 | 150 |

Notes: 1 – Values for CO and VOC are the detection limit.

Table B24
Combined Operations and Construction – Scenario 5 – Southernmost Construction

| Location | PM ₁₀ , lb/day | PM _{2.5} , lb/day | ROG (VOC), lb/day | NOx, lb/day | CO, lb/day | SO ₂ , lb/day |
|---|------------------------------|-------------------------------|-------------------------|----------------|---------------|-----------------------------|
| Emissions from Paved Road | 16.48 | 23.74 | 4.41 | 4.24 | 3.77 | 0.07 |
| Emissions from Graveled Road | 27.02 | 3.10 | 0.79 | 0.76 | 0.68 | 0.01 |
| Emissions from Unpaved Road | 7.78 | 0.86 | 0.45 | 0.44 | 0.39 | 0.01 |
| Emissions from Soil Haul Path Emissions from Waste Disposal | 42.28 | 4.23 | 0.70 | 3.66 | 16.63 | 0.02 |
| Area | 3.20 | 1.91 | 1.08 | 8.97 | 22.65 | 0.06 |
| Emissions from Construction Area | 4.70 | 1.02 | 0.63 | 5.62 | 18.90 | 0.06 |
| Emissions from Stockpile | 1.55 | 1.50 | 0.21 | 0.39 | 5.29 | 0.01 |
| Flare or IC (peak) ¹ | 0.44 | 0.45 | 4.22 | 49.89 | 2.27 | 214.91 |
| Peak LFG Fugitive Emissions | NA | NA | 10.81 | NA | NA | NA |
| Indirect (peak offsite traffic) App M | NA | NA | 0.29 | 22.57 | NA | NA |
| Entrance Queuing | 0.00 | 0.00 | 0.10 | 1.05 | 1.45 | 0.00 |
| Total | 103.46 | 36.81 | 23.72 | 97.58 | 72.03 | 215.14 |
| Baseline (2021) | 80.80 | 14.35 | 19.88 | 63.73 | 66.46 | 42.79 |
| Change from Baseline | 22.66 | 22.46 | 3.83 | 33.85 | 5.57 | 172.34 |
| MBARD Significance Thresholds | 82 | 82 | 137 | 137 | 550 | 150 |

Notes: 1 – Values for CO and VOC are the detection limit.

All of the scenarios except Scenario 5 for PM₁₀ and all scenarios for SO₂ (because of flare emissions) fall below the MBARD CEQA thresholds of significance. As described later in this report, dispersion analysis was performed to determine whether the resulting PM₁₀ and SO₂ concentrations at the point of maximum impact (PMI), and maximally exposed individual resident (MEIR) receptors would cause an exceedance of the CAAQS and NAAQS for these constituents. Therefore, no mitigations in addition to the Proposed Project management practices/design features are required.

5. Electrical Related GHG Emissions

Increased electricity use associated with the proposed project may include electricity used to power additional or larger blowers for the flare system, and pumps for five additional leachate collection sumps. Electricity usage per year is based on the number of new blowers in operation, motor horsepower, assumed motor efficiency of 90 percent, and the assumption that the blowers would operate 24 hours per day, 365 days per year. Electricity used to power landfill facilities, including offices, scale house, scales, and site lighting is not expected to increase due to operation of the proposed project, therefore emissions were not calculated for those sources. Calculations of indirect GHG from energy usage, excluding the proposed RNG Facility are included in **Attachment I** and summarized in **Attachment U**.

SB 100 requires 50 percent renewable energy in California by December 31, 2026, and 60 percent by December 31, 2030, and recommends planning for 100 percent renewable and zero carbon resources by December 31, 2045. Because PG&E electricity is already at 85% non-GHG (PG&E, 2021a) for the purposes of GHG analysis, a relatively low emissions factor of 2.68 lbCO₂/MWh (PG&E, 2021b, and The Climate Registry, 2021) was used to calculate operational emissions for the life of the project.

The following summarizes the estimated baseline and future:

- GHG Emissions from current power usage: 0.53 MTCO₂e/yr
- GHG Emissions from Proposed Project at buildout: 1.05 MTCO₂e/yr
- Average increase over project life (Table U1 in **Attachment U**): 0.33 MTCO₂e/yr.

The above emissions include only operational emissions separate from the proposed RNG facility. GHG emissions from electricity used to operate the RNG facility are included in the emissions analysis for that facility. The RNG facility would bypass the LFG blowers during operation and reduce the proposed project operation emissions below the proposed project emissions described above.

Water and Sewer Related GHG Emissions

Historically, the Landfill obtains water from the Sunnyslope Water District and hauls it to the Landfill using a water truck when on-site retained stormwater is not available. **Table B24** summarizes the historical and projected future average seasonal water usage from Table 2 in the "Water-Use Memo" in **Attachment Y**. However, the amount of water use varies significantly depending on traffic and weather. As described in **Attachment Y**, L&A obtained the historical water quantity information for JSRL and another similar landfill (Avenal Regional Landfill) Loads on any given day will be higher or lower depending weather conditions and traffic. The average annual water use is used to estimate GHG emissions.

Table B25
Modeled Current and Projected Water Usage for Operations

| Modeled Cuffellt allu 110 | jecteu water Osa | ge for Operations |
|---------------------------|-------------------------------------|--|
| Season | Loads Per Day (Ave) ¹ | Seasonal Average Gal/day ² |
| | Current (2021) | |
| Spring | 2 | 5,600 |
| Summer | 4 | 13,100 |
| Fall | 3 | 5,600 |
| Winter | 1 | 1,900 |
| Gallons per Year | | 2,441,000 |
| Acre-Feet per Year | | 7.5 |
| | Project | |
| Spring | 3 | 12,100 |
| Summer | 8 | 28,300 |
| Fall | 3 | 12,100 |
| Winter | 1 | 4,000 |
| Gallons per Year | | 5,258,000 |
| Acre-Feet per Year | | 16.1 |

Notes:

- 1. Assuming 3,600 gal/load (rounded). Will be more or less on any given day.
- 2. Assuming averaged over 365 days per year.

In addition to the above water usage, water is used for dust control during construction projects. Dust control for a typical construction project is anticipated to require 2.16 million gallons (6.64 acre feet). It is assumed that water would be used for future module construction periods roughly every other year (plus the entrance construction, and partial final closure projects).

Historical and proposed project wastewater, including domestic wastewater from the office, leachate, LFG, condensate, and the groundwater extraction system, in average gpm, were obtained from the Design Basis Report used to calculate the totals in **Table B26** on the following page.

Table B26
Summary of Baseline and Project Projected Wastewater

| Usage | Average Gal/Year ¹ | Average gpd ² | Average gpm ³ |
|----------------------|----------------------------------|-----------------------------|--------------------------|
| Current | | | |
| Domestic Wastewater | 89,352 | 245 | 0.17 |
| Leachate (2020) | 289,080 | 792 | 0.55 |
| Condensate (2020) | 147,168 | 403 | 0.28 |
| GW Extraction (2020) | 1,881,648 | 5,155 | 3.58 |
| Total | 2,407,248 | 6,595 | 4.58 |
| Proposed (at peak) | | | |
| Domestic Wastewater | 110,376 | 302 | 0.21 |
| Leachate | 2,323,152 | 6,365 | 4.42 |
| Condensate from LFG | 262,800 | 720 | 0.50 |
| Condensate from RNG | 199,728 | 547 | 0.38 |
| GW Extraction | 1,881,648 | 5,155 | 3.58 |
| Total | 4,777,704 | 13,090 | 9.09 |
| Difference | 2,370,456 | 6,495 | 4.51 |

Notes:

- 1. Based on average gpm from design basis report x 365 days per year x 1440 minutes per day. Totals are slightly different from the Design Basis Report because of rounding.
- 2. Based on average gpm from design basis report x 1440 minutes per day.
- 3. From L&A 2021 Design Basis Report.

Indirect emissions from the use of water and disposal of domestic wastewater, leachate, condensate, and extraction well discharge to a municipal sewer system were calculated as shown in **Attachment J**. The calculations assume that all of the water is obtained from a public water system and will not be offset by use of leachate for dust control. Use of pond water for dust control will likely reduce the GHG emissions, but would require electricity to pump the water, so no reduction in GHG has been assumed for pond water use (assumes conservatively high GHG emissions). The emissions are summarized in Table U1 in **Attachment 1** and shown below:

- GHG Emissions from current operation: 19 MTCO₂e
- GHG Emissions from Proposed Project at buildout: 36 MTCO₂e
- Average increase over project life: 13 MTCO₂e/yr

The project proponent may reinject part or all of the leachate and condensate into the Landfill in the future to promote quicker decay of the waste and reduce the indirect GHGs related to sewer use, but potentially would increase the direct LFG emissions from the Landfill during injection but reduce the duration of emissions from the mass in which the liquid has been injected. The net change in the mass of CO₂e emissions is difficult to project, but in the long term would be near neutral.

7. Summary of GHG Emissions

7.1. Non-LFG GHG Emissions

Table B27, on the following **page**, summarizes the GHG emissions described above for all of the operational and construction-related emissions, excluding LFG emissions. Excluding LFG emissions, over the life of the Landfill, the operational and construction related emissions would be less than the baseline assuming vehicle emissions will decrease until 2024 based on currently projected emissions reductions described by EMFAC2017 and CalEEMod. After 2025 a conservatively low proportion of 60% vehicles would be non GHG generating per EO N-79-20. **Table B27** also assumes that recycling will increase with population growth and help offset GHG emissions.

Table B27
Summary of GHG Emissions During Operating Site Life Excluding LFG¹

| Emissions Category | Current Operation, MTCO ₂ e/yr (Baseline) | Proposed Project Average, MTCO2e/yr ² | Average Change, MTCO2e/yr ² |
|---------------------------------|---|---|---|
| Road Traffic for Waste Delivery | 3,795 | 2,982 | -813 |
| Landfill Operations | 1,201 | 980 | -221 |
| Construction Projects | 41 (9) ³ | 86 | 77 |
| Electrical | 0.53 | 0.86 | 0.33 |
| Water/Sewer | 19 | 32 | 13 |
| Recycling | -240 | -280 | -40 |
| Totals | 4,817 | 3,8022 | -984 |

Notes:

7.2. LFG & Combined GHG Emissions

As described above, the projected GHG emission from LFG account for implementation of state law (SB 1383) and the following Project features:

- A gas-extraction system with both vertical and horizontal wells with no less than one well per every two acres.
- 80% LFG collection efficiency initially.
- Oxidation of 10% of the fugitive methane in the cover soil.
- The landfill would operate until 2086 after which it would close, but LFG would continue to be collected.
- RNG tube trailers will be powered by RNG and will be carbon neutral.
- Biogenic CO₂ is not included as a GHG as it is part of the carbon cycle.

^{1:} GHG emissions from LFG are addressed separately below, assumed average change over life of proposed project.

^{2:} Average from Table U-1 in **Attachment U**.

^{3:} Averaged over 17 years (9 MTCO₂e when averaged over 65 years for average change calculation).

Without additional LFG control and other indirect GHG emissions reductions, the projected GHG emissions from LFG combined with operation emissions would increase to a peak of approximately 74,000 MTCO₂e in approximately 2070 (Tables in **Attachment A**), unless additional control measures to reduce GHG emissions are implemented.

The landfill operator has indicated that they will implement an RNG facility combined with improved LFG collection efficiency. **Attachment A** provides a plan for implementing an RNG facility to reduce peak GHG emissions to less than a peak of approximately 12,000 MTCO₂e in 2028 by implementing an RNG facility to control annual GHG emissions (sum of LFG-related and operational), further reductions would occur with improved collection efficiency and improving emissions technology over time. The following steps were assumed in **Attachment A**:

- Before 2028: Implement the RNG facility to remove methane for reuse to limit GHG emissions to approximately 9,200 MTCO₂e.
- Between 2030 and 2035: Increase LFG collection efficiency from 80% to 90%.
- Between 2035 and 2038: Increase LFG collection efficiency to 95%.
- Approximately 2045: Vehicle emissions drop below baseline as shown in Appendix U and help reduce total GHG emissions below baseline thereafter.
- Approximately 2068: Methane generation peaks and GHG emissions peak at approximately 11,600 MTCO₂e and start declining.
- Between 2071 and approximately 2085: out-of-County trips cease, and vehicle emissions drop below the baseline (see **Attachment U**), further reducing GHG emissions.
- After 2085: The Landfill ceases accepting waste, traffic is negligible, the Landfill is closed, and the LFG generation rate drops more quickly.

Because the final rate of waste acceptance will be different than the rate used in the model, the time of the above steps could be sooner or later than shown, and a periodic assessment of GHG emissions is recommended.

It is recommended that within two years of issuance of the use permit, the operator prepare a plan and schedule for implementing the RNG Facility and subsequent LFG collection efficiency improvements. Once the RNG facility is operational, prepare a GHG Evaluation and Mitigation Plan every 5 years, concurrently with (but not tied to) the Title V Air Quality permit renewal for the LFG Flare or RNG facility. The 5-year evaluation would include the following:

- Update the LandGEM Model to project the LFG generation rate.
- Estimate the LFG collection system efficiency.

- Identify areas of potentially higher surface (fugitive) emissions that can be addressed by adding vertical wells, horizontal collectors, or other LFG collection mechanisms to improve collection efficiency.
- If needed, perform a surface emissions scan to identify locations on the landfill surface to either increase LFG extraction or provide temporary cover to reduce surface emissions in a focused manner.
- Review the LFG collection system coverage, recommend improvements to the existing system, if any, and plan horizontal collectors and vertical wells, if feasible based on available information.
- Recommend methods to reduce fugitive emissions if the updated modeling shows it is necessary.
- Provide or update a 10-year plan for LFG extraction system expansion and incremental
 placement of temporary geomembrane cover, temporary thickened soil cover, placement
 of processed greenwaste, incremental closure, and/or other methods to reduce surface
 emissions.
- Update air model for GHG emissions current landfill operations, support equipment, and waste delivery trips.
- Provide updated LandGem modeling of projected GHG emissions from LFG.
- Provide a 10-year schedule for RNG facility expansion (if expansion is required within a 10-year window, to accommodate increasing LFG generation.
- If the updated modeling shows emissions are higher than anticipated or the RNG facility becomes infeasible, implement additional onsite and offsite mitigation measures, if feasible.
- Optional Items
 - o If feasible, based on available LFG generation rate and waste profile and calculation methodology, estimate the benefit of carbon sequestration.
- Estimate the benefits from continued recycling, beneficial re-use of green and wood waste, conversion of vehicles to zero emissions, RNG or biofuel.

According to CEC (**Attachment A**), and as described in the schedule above, the emissions will be reduced by a combination of project control measures including the following:

- Implement an RNG Facility (**Figures B14** through **B16**).
- Phase-in increase of collection efficiency from the current 80% to 95% between 2028 and 2035 to reduce fugitive emissions of methane by one or more of the following methods:
 - o Temporary geosynthetic membrane covers to reduce surface emissions.
 - Early closure using a thick ET cap or cap containing a geomembrane to reduce surface emissions.

- o Increase oxidation of methane fugitive emissions by adding 12" of processed greenwaste to areas with intermediate cover or a final ET closure cap, where feasible.
- Increase thickness of temporary soil cover or stockpiling where feasible to reduce emissions and increase methane oxidation.
- O Perform aerial (drone or aircraft) or surface mapping of methane emissions to identify and then correct areas of higher emissions, if useful.

Feasibility of the RNG facility depends on the availability of a cost effective market with demand for the RNG. Based on conversations with RNG facility developers by CEC, implementation of an RNG facility appears feasible under the current conditions. It is possible that at some point in the future the feasibility of RNG could diminish, resulting in RNG being infeasible, although future changes in feasibility cannot be predicted at this time.

Other methods to reduce GHG emissions could include (Summarized in Table U1 in **Attachment U**):

- Early adoption of increased control efficiency prior to 2035. Attachment A includes a table showing reductions in GHG emissions by early adoption of a 95% collection efficiency between 2024 and 2034 would provide an average GHG reduction of 1,381 MTCO₂e for those years. If extensive use of temporary tarps are implemented, a review of the existing drainage system is suggested to evaluate the potential for increased peak stormwater runoff.
- Include infrastructure for electric vehicle (EV) charging in the entrance design. As described in Table X-1 in **Attachment X**, five EV charging stations would provide a reduction of 36 MTCO₂e/year when used for employee commute and could also be used for visitors or public.
- Replace smaller "light duty" vehicles with EV versions. Technology to replace light-duty vehicles is currently or imminently available. Table X-2 in **Attachment X** shows that replacing two all-terrain vehicles and two ½ ton pickup trucks would reduce GHG emissions by 5 MTCO₂e/yr.
- Replace medium duty vehicles with EV versions. The technology for EV versions of medium duty vehicles, such as water trucks, service, and fuel trucks is emerging, but not widespread yet. Vehicles for landfill use, required exceptional durability and capability of maneuvering on steep graveled roads. As described in Table G5.2.1 in Attachment G, replacing the water truck, equipment service truck, and fuel truck would reduce GHG emissions by 25 MTCO₂e.
- Install solar or use renewable electricity. Because the current carbon intensity of PG&E electricity is relatively low, buying 100% renewable-based electricity would only result

- in a reduction of approximate 1 MTCO₂e/year. The current state of California goal is 100% renewable energy prior 2045 and this reduction would only apply before then.
- Convert on-site heavy vehicles to RNG, once an RNG facility is implemented and the technology becomes available convert heavier equipment to renewable fuel source. As described above, a 60% reduction in GHG emissions is already assumed in the project based current executive orders and regulations. Early adoption (before 2045) would provide the greatest reduction in GHG emissions compared to the emissions modeled for the project. After 2045 a reduction of 40% would be assumed. The reductions from early adoption of renewable fuel for heaver equipment cannot be estimated at this time.
- Increase Recycling. As shown on Table U1 in **Attachment** U, the project assumes that recycling will increase over time in proportion the increase in population. At 2.89 MTCO₂e per ton of potential waste recycled, increasing recycling above the currently projected tonnage would provide GHG reductions.^{24,25}
- Accept previously landfilled green waste for off-site composting at 0.23 MTCO₂e per ton.²⁶

Potential reductions from these additional measures are summarized in Table U1 in **Attachment** U. For vehicle-related emissions, the full reduction is applied until 2045. After that 40% of the reduction is shown. On average, when fully implemented, the potential reductions would provide an average reduction of 244 MTCO₂e/year, but would only reduce modeled peak emissions from 11,575 MTCO₂e to 11,541 MTCO₂e as most of the reductions would occur early in the project.

Sequestration

Emissions of GHGs from fuel use and organic matter decomposition is an inevitable consequence of management of the solid waste produced by society. However, the disposal of waste in landfills also causes substantial amounts of carbon to be removed from the carbon cycle and permanently sequestered.

The IPCC (2006) and CEC (California Energy Commission) recognize landfills as carbon sinks and quantify such storage in national and state-wide GHG budgets. The IPCC approach in the 2006 Guidelines for National Greenhouse Gas Inventories, Volume 5, Chapter 3, page 3.23 covers waste, including carbon stored in solid waste disposal sites (SWDS): "Some carbon will

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²⁴ Based on USEPA WARM Website for mixed recyclables in California. https://www.epa.gov/warm

The Proposed Project includes a public waste tipping area adjacent to the recycling area. This configuration improves the convenience of recycling, but the quantity of additional recycling cannot be quantified.

From CARB, 2017, excluding avoided methane component of 0.33 MTCO₂e, as these are accounted for in the SB 1383 reductions in LFG generation, if any.

be stored over long time periods in SWDS. Wood and paper decay very slowly and accumulate in the SWDS (long-term storage). Carbon fractions in other waste types decay over varying time periods (see Half-life under Section 3.2.3.). The amount of carbon stored in the SWDS can be estimated using the [first order decay] model (see Annex 3A.1). The long-term storage of carbon in paper and cardboard, wood, garden and park waste is of special interest as the changes in carbon stock in waste originating from harvested wood products which is reported in the AFOLU volume (see Chapter 12, Harvested Wood Products)."

The 2006 Inventory of California GHG Emissions and Sinks (CEC, 2006, page 47) similarly considers this sequestration. CEC indicates that, "Lumber and urban wood wastes disposed at landfills contain significant amounts of lignins, which contain carbon, which is sequestered in anaerobic landfills." Quantification of storage for wood products and other organics was included in the 2006 Inventory.

Unfortunately, neither of these methodologies is adequate for analysis of a site-specific carbon balance. Again, the purpose for both was to produce national or state-wide GHG inventories without assigning emissions to particular locations. A comprehensive analysis of landfill storage using these references would require combining procedures from multiple sections, including the noted landfill discussions, and portions of agriculture, forestry, and other land use analyses (IPCC, 2006).

SCS Engineers (SCS, 2008) recommended procedures for analysis of carbon storage in landfills, combining data from EPA, IPCC, various researchers, and other sources. Estimates can be calculated regarding content and long-term storage of carbon for individual and combined waste streams. Using the referenced methodology, at buildout, the Proposed Project (39.7 million short tons of waste) would have sequestered 11.91 million MTCO₂e (MMTCO₂e) or an average of 0.11 MMTCO₂e per year over the lifespan of the Landfill (including previous waste), and would more than offset the increased GHG emissions describe above.

8. Air Toxic Pollutants and Health Risk Assessment

8.1. Summary

As required by the MBARD CEQA Guidelines, this health risk assessment (HRA) was prepared in accordance with the California Office of Environmental Health Hazard Assessment (OEHHA) Risk Assessment Guidelines Guidance Manual for the Preparation of Health Risk Assessments, Air Toxics Hot Spot Program (February 2015). In addition, the USEPA Guidelines to Quality Models (Appendix W to CFR Part 51) was referenced. Appendix W is intended "for use by air quality management agencies that conduct air quality modeling as part of State Implementation Plan (SIP) submittals and revisions, New Source Review (NSR) permitting (including new or

modifying industrial sources under Prevention of Significant Deterioration (PSD)), conformity, and other air quality assessments required under EPA regulation," and as such, contains useful information but does not supersede the OEHHA Manual.

The objectives of this HRA are to provide upper bound, health conservative of the potential human health impacts that may be attributable to chemicals present in the LFG and diesel exhaust emissions, including the baseline risk from LFG emissions and DPM.

8.2. Methodology

In summary, the following steps were performed:

- The emissions sources of TACs and DPM were identified, and the emissions estimated as shown above.
- The following receptors were identified:
 - o Residences within a mile of the waste footprint.
 - Nearest residences adjacent to John Smith Road and a grid in Santana Ranch Subdivision.
 - Nearest known worker locations.
 - o Schools that requested being modeled in the responses to the NOP.
 - Nearest potential receptors including every 100 feet along the property line and on a cartesian grid around the Landfill.
- A dispersion model was selected to calculate emissions at a distance from the Landfill (AERMOD BREEZE).
- Terrain data was obtained from the USGS and processed for uploading into the AERMOD BREEZE model.
- Three years of meteorological data was obtained and preprocessed for loading into the model.
- The concentrations, characteristics and locations of emissions to be modeled were input into the model.
- The model generated a deposition rate (ug/m³) at each grid location for each monitored parameter for each data year (2018, 2019, and 2020) for each scenario and the following receptors with the highest concentrations were selected for health-risk analysis:
 - o Maximum exposure impact residential (MEIR).
 - o Maximum exposure impact worker (MEIW).
 - o Point of Maximum Exposure intensity (PEI), typically along the property boundary.
 - School receptors.

- o There were no hospitals, day cares, or retirement homes found within the vicinity of the Landfill.
- The MBARD was consulted for preferences regarding modeling effort.
- Analyses were performed for excess cancer risk, chronic health risk, and acute health risk for the above highest receptors for DPM (only cancer and chronic could be calculated for DPM) and HAPs from the flare.²⁷
- For all receptors, the 70-year excess cancer risk was found to be below the MBARD threshold of significance of 10 in one million.
- The chronic Hazard Index (HI) was found to be below the MBARD standard of one at all monitored locations. ²⁸
- The acute Hazard Index (HI) was found to be below the MBARD standard of one at all monitored locations.

8.3. Consultation

After establishing the framework for risk identification and modeling, the MBARD staff was contacted, the site conditions and modeling strategy was described, and input was received. Evaluation and modeling of landfills provides unique challenges that do not occur in typical land development projects encountered by air districts and the specific requirements of landfills was described to the MBARD staff with regard to modeling. Items discussed in consultation included the following:

- Methods of calculating emissions inventory for criteria pollutants, DPM, and flare emissions.
- The Landfill layout, sequencing, surrounding land use,
- Description of seasonal wind patterns.
- Emissions configurations to be modeled.
- Existing residential, worker, critical (two schools), and potential receptors (property line and surrounding grid) to be modeled.

In addition, background concentrations and potential dispersion modeling for PM_{10} were discussed:

- Existing ambient air monitoring at the Fairview Station.
- Surrounding topography and land use including recent construction around the Fairview monitoring station.

009130.11 Rev. July 2022

²⁷ "Excess" means in addition to other pre-existing or future risks unrelated to the Proposed Project.

The MBARD CEQA Guidelines do not list thresholds for chronic or acute health risk. A HI value of one (1) is used by the Bay Area Air Quality Management District (BAAQMD) for their threshold of significance in their CEQA Guidance, page 2-2, Table 2-1.

- Proposed method for developing background concentrations for criteria pollutants.
- Nonattainment causes.
- Potential methods and mitigation methods to meet CAAQS and NAAQS.

8.4. Hazard Identification

The hazards identified for analyses include the following:

- HAPS in LFG that diffuses through the Landfill surface.
- Remaining uncombusted HAPs in the LFG flare emissions.
- DPM emissions from landfill, construction, and waste delivery equipment over the life of the Landfill.

No other releases that would cause air emissions such as spills, leaking pumping and pouring, emptying, leaching, emitting, dumping, injecting, or disposing of a substance into the area have been documented and none were modeled.

8.5. Hazard Assessment

8.5.1. Information on the Facility and its Surroundings

- Facility Name: John Smith Road Landfill
- Location: 2650 John Smith Road, Hollister, CA
- Local Topography: Rolling hills
- Facility Plot Plan: **Figure B5** showing source locations, property line, scale, and emissions sources. Also see **Figures B20** through **B24** showing scenarios analyzed.

8.5.2. Source and Emissions Inventory

HAP Emissions from Flare and Fugitive LFG Emissions

In 2020, SCS Engineers was retained to collect duplicate samples for trace gases that are commonly present in landfill gas (**Attachment C**) in parts per million by volume (ppmv) or parts per billion by volume (ppbv) depending on the substance. **Table B28**, on the following page, summarizes the detected constituents and the CAS numbers. Where LFG data was not available, the default values from AP-42 were used.

DPM from Vehicle Emissions

DPM is subset of PM_{2.5} from diesel emissions, comparison on average in California 8% of PM_{2.5} emissions from diesel emissions. Because DPM is inherently transient, based on vehicle-emissions technology and intensity of on-road and off-road vehicle use, DPM was estimated based on anticipated long-term vehicle use as described below.

Table B28
Potentially Hazardous Air Pollutants Detected in LFG from JSRL

| 100 | Hitany Hazaruous Air Fonutants Detection | cu iii Er G ii o | |
|-----------|--|--------------------------------|---|
| CAS No. | HAPs Compounds | Molecular weight (g/Mol) | Average Concentration of Compounds Found in LFG at Inlet (ppmv) |
| 100-41-4 | Ethylbenzene | 106.16 | 5.62E+00 |
| 106-46-7 | Dichlorobenzene (1, 4-dichlorobenzene) | 147 | 4.36E-01 |
| 106-93-4 | Ethylene dibromide (1, 2-dibromoethane) | 187.88 | 4.60E-02 |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 98.96 | 4.58E-01 |
| 107-13-1 | Acrylonitrile | 53.06 | - |
| 108-88-3 | Toluene | 92.13 | 3.00E+01 |
| 108-90-7 | Chlorobenzene | 112.56 | 1.05E-01 |
| 110-54-3 | Hexane | 86.18 | 1.94E+00 |
| 127-18-4 | Perchloroethylene (tetrachloroethene) | 165.83 | 3.46E-01 |
| 1330-20-7 | Xylenes | 106.16 | 1.32E+01 |
| 56-23-5 | Carbon tetrachloride | 153.84 | - |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 60.11 | 8.04E+01 |
| 67-66-3 | Chloroform | 119.39 | - |
| 71-43-2 | Benzene | 78.11 | 1.72E+00 |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | 133.41 | - |
| 7439-97-6 | Mercury (total)(e) | 200.59 | 1.22E-04 |
| 75-00-3 | Chlorodifluoromethane | 86.47 | 7.96E-01 |
| 75-01-4 | Vinyl chloride | 62.5 | 7.03E-02 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 84.94 | 1.99E-01 |
| 75-15-0 | Carbon disulfide | 76.13 | 3.47E-01 |
| 75-34-3 | 1,1-Dichloroethane (ethylidene dichloride) | 98.97 | - |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 96.94 | - |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | 36.46 | 4.20E+01 |
| 78-87-5 | 1,2-Dichloropropane (propylene dichloride) | 112.99 | 2.30E-02 |
| 78-93-3 | Methyl ethyl ketone | 72.11 | 4.01E+00 |
| 79-01-6 | Trichloroethylene (trichloroethane) | 131.4 | 1.69E-01 |
| 79-34-5 | 1, 1, 2, 2-Tetrachloroethane | 167.85 | - |

Note: yellow highlighted values are default values from AP-42.

8.6. Exposure Assessment

8.6.1. Exposed Population and Receptor Location (all analyses)

See Section 8.10.1 below.

8.6.2. Potential Exposure Pathways

To determine the extent and magnitude of exposures to human populations, the pathways of exposure to those populations were analyzed. This analysis considered the sources of contaminants, release mechanisms, fate and transport in different media, receiving media, exposure points, exposure routes, and targeted populations. EPA describes an exposure pathway as generally consisting of four necessary elements (EPA, 1989):

- 1. A source and mechanism of chemical release.
- 2. A retention or transport medium (or media).
- 3. A point of potential human contact with the contaminated medium (exposure point).
- 4. An exposure route at the exposure point.

Each of these four elements exists for the exposure scenarios, which include LFG and DPM emissions and inhalation exposure.

The off-site residential population is exposed to contaminants through inhalation of contaminants in LFG and DPM. The receptors analyzed were selected based on the following criteria.

- Existing residential receptors within a mile of the proposed future waste boundary.
- Nearest existing residential receptors north and south of John Smith Road (DPM).
- Nearest Worker receptors.
- Sensitive Receptors: two schools that requested modeling. There are no known day care centers, rest homes, hospitals or other critical receptors within a mile of the Landfill.
- Potential receptors: Every 100 feet along the property boundary and in a 500' x 500' grid within a mile of the Landfill.
- **Figures B3** through **B5** show the locations of the receptors analyzed.
- Table P-1 in **Attachment Q** provides a table listing the receptor descriptor coordinates and elevation.
- All of the receptors were modeled using the AERMOD default of no flagpole, unless otherwise stated.²⁹ Head-height is assumed to be a 1.5 m flagpole.
- Spatial averaging was not used for receptors.
- The analyses to be analyzed for cancer and non-cancer risks are listed in the Tables in **Attachment P**.

8.6.3. Evaluation of Exposure Pathways

Exposure pathways other than inhalation exposure potentially include the following:

Soil

With the exception of the Class I Area, for purposes of this HRA, it has been assumed that soil used for cover on the existing and Proposed Project have been and will be derived from on-site soil borrow areas, which have not been impacted by waste disposal activities. The soil is expected to have chemical concentrations similar to that of native soils, such that the soils can be considered uncontaminated or "background." Contaminated soil containing pesticides is present

009130.11 Rev. July 2022

²⁹ Per South Coast AQMD Modeling Guidance for AERMOD.

in the Class I Area that will be clean closed in the future. It is anticipated that as part of the specific clean-closure project, the workplan to excavate and mitigate the project will be prepared by experts retained by the Landfill Operator and/or Owner, will be reviewed by the California Department of Toxics, and will include a dust control plan. It is also anticipated that the construction would require less than several months and does not have the potential to provide a chronic or long-term health risk.

Based on this information, the (1) incidental soil ingestion, (2) dermal contact with impacted soils, and (3) inhalation of contaminants present in fugitive dust exposure pathways were considered incomplete for the purposes of this HRA. No further evaluation of these pathways was conducted or is necessary for existing or Project receptor scenarios.

Groundwater

Because any Project expansion scenario for the Project site will have to be performed in compliance with Resource, Conservation, and Recovery Act (RCRA) Subtitle D, and the California equivalent regulations under Title 27 of the California Code of Regulations (27 CCR), for purposes of this HRA, potential impacts to groundwater were assumed not to occur or would be mitigated by the regulatory requirements for installation of a groundwater monitoring network. An existing downgradient groundwater release from an unlined portion of the existing Landfill is currently being controlled with extraction wells and is expected to continue to do so with or without the proposed landfill expansion. The expanded Landfill will be lined and would not contribute to the existing release. Based on this information, the exposure pathways associated with the potable uses of groundwater were considered incomplete for the purposes of this HRA, including: (1) ingestion as a drinking water source; (2) incidental ingestion during showering or bathing; (3) dermal contact with impacted groundwater during showering or bathing; and (4) inhalation of VOCs in groundwater during showering, bathing, and cooking. No further evaluation of these pathways was conducted or is necessary for current or Project scenario receptors.

Surfacewater

Because the Proposed Project Operation will have to be performed in compliance with RCRA, Subtitle D, Title 27 CCR, and the California Statewide National Pollutant Discharge Elimination System (NPDES) permits for both construction and industrial stormwater, for purposes of this HRA, impacts to surface water were not expected to occur due to future landfill operations.

Based on this information, the exposure pathways associated with the potential uses of surface water were considered incomplete for the purposes of this HRA, including: (1) ingestion as a drinking water source; (2) incidental ingestion during showering, bathing, or swimming; (3)

dermal contact with impacted surface water during showering, bathing, or swimming; and (4) inhalation of VOCs in surface water during showering, bathing, cooking; or swimming. No further evaluation of these pathways was conducted or is necessary for existing or future receptor scenarios.

Food Chain Exposures

Use for growing food cropper within the expanded Landfill property will not be allowed as part of the Proposed Project and no crops will be produced on the Landfill site for human consumption. There are no on-site water bodies that could support food fish or other aquatic food sources for humans, and the Proposed Project is not expected to have any impacts on nearby water bodies.

Cattle grazing is currently allowed on the unused portion of the Landfill property. As the Landfill footprint expands on the property, a 50-foot setback between the waste boundary and grazing cattle will be maintained, similar to the separation required between the waste and property line by the current landfill Waste Discharge Requirements (Order No. R3-2013-0047, Prohibition No. 6). With this setback implemented, no food chain exposures to human are expected, and all food chain pathways were considered incomplete, as part of this HRA.

Inhalation

With the elimination of the above exposure pathways, the only remaining pathway that was considered complete as part of this HRA included the inhalation in LFG and emissions of DPM from vehicles.

8.6.4. Multipathway Evaluation

Because no exposure pathway other than inhalation was found and because none of the detected constituents are on the list of constituents requiring multipathway analyses (e.g., crops, soil ingestion, mother's milk), inhalation was considered the primary pathway and a multipathway analysis was not performed.

8.7. Calculation of Exposure Concentrations at Receptors

8.7.1. Meteorological Data

Dispersion models are used to estimate the potential off-site impact of project emissions. For this dispersion analysis, the United States Environmental Protection Agency (USEPA)-approved AERMOD model was used with processed on-site meteorological data for calendar years 2018 through 2020. The AERMOD model uses a combination of on-site, off-site surface, and off-site upper air meteorological data to better represent dispersion at the Proposed Project site. The

meteorological data were processed with the USEPA-approved AERMET processor by Trinity Consultants (the software developer) with upper air and surface data from the Salinas Airport (the closest source with usable data).

8.7.2. Topographical Data

A digital elevation model (DEM) was developed by the U.S. Geological Survey, and model-ready data was obtained from Lakes Environmental Software in a format compatible for importing into AERMOD.

8.7.3. Model Selection and Rationale

Health risk was assessed by performing an air-quality dispersion model. Dispersion modeling uses mathematical formulations to characterize the atmospheric processes that disperse a pollutant emitted by a source. Based on emissions, geographical and meteorological inputs, a dispersion model can be used to predict concentrations at selected downwind receptor locations (USEPA, 2020). For the Proposed Project assessments described above, USEPA and American Meteorological Society (AMS) preferred regulatory model "AERMOD" was used. In this case a user-friendly shell program called Breeze AERMOD version 10.0 by Trinity Consultants was used. AERMOD uses the configuration of the source (such as a smokestack, line source or an area source), topography, National Weather Service (NWS) data, locations of sensitive receptors, and source emissions concentrations. The modeling effort was performed in the following steps:

- 1. A digital elevation model (DEM) was developed by the U.S. Geological Survey, and model-ready data was obtained from Lakes Environmental Software.
- 2. Meteorological data was loaded into the model via a preprocessor called AERMET. For this modeling effort, the Salinas Airport was used as the closest source with usable data. The raw meteorological data was processed and obtained from Trinity Consultants and used in AERMOD-ready files for modeling.
- 3. For each model run, the type and characteristics of the emissions source were entered (stack for LFG flare; area for fugitive LFG emission, idling, and traffic).
- 4. For each model run, the coordinates for the sensitive receptors were entered into the model.
- 5. A steady-state, unit emission rate of 1 ton/year was used for all vertical point sources (*i.e.*, the landfill flare) and area sources in all modeling runs. Emissions were assumed to occur 8,760 hr/yr with no downtime. Use of the unit emission rate allows the air modeling output (the ambient air concentration) to be expressed on a unit emission rate basis (*i.e.*, μg/m³ per tons/year). The unit emission rate (*aka*, dispersion factor or χ/Q) is not chemical specific, and its use precludes having to run the model for each individual chemical emitted. To calculate the ambient air concentration of a particular chemical (in

- $\mu g/m^3$), the χ/Q (in $\mu g/m^3$ per tons/year) is simply multiplied by the chemical emission rate (in tons/year).
- 6. For each model run, χ/Q in (μg/m³)/tpy or (μg/m³)/(lb/hr-sf) for each sensitive receptor was determined by entering source emissions rate of 1 ton/year (for the flare) or 1 lb/hr (divided by area of analysis to obtain units of lb/hr-sf) for area sources, such as LFG fugitive emissions into the model. The receptor with the highest χ/Q value will have the highest concentrations and was selected for calculation of constituent concentrations and health-risk calculations.³⁰
- 7. The source emissions rate from each source and substance modeled were entered into a spreadsheet, multiplied by χ/Q to obtain the concentration at that location, and converted to units required for health-risk analysis. The emissions rate was multiplied by the OEHHA/CARB approved risk assessment values (*aka*, "risk factors" or cancer potency values; CP, for cancer risk), Combined Exposure Factor (CEF; where appropriate to convert to lifetime average for cancer risk), and the risks from each constituent summed to calculated total risk as shown on the tables in **Attachment P** (CARB, 2020). The risks for the following were calculated:
 - a. Maximum Individual Cancer Risk, Resident (MICRr): For a resident present at the sensitive receptor location for a 70-year exposure period.
 - b. Chronic Non-Cancer Hazard Index (HIC) Residential: The ratio of the estimated exposure level of an air toxic compound to a scientifically derived reference exposure level (REL) for the same compound. RELs generally represent the highest exposure level where no adverse effect has been observed or the lowest exposure level where the onset of an adverse effect has been observed, with the inclusion of a safety factor ranging from 10 to 1000, depending on the source and quality of the scientific data.
 - c. Acute Non-Cancer Hazard Index Residential: Similar to chronic (AHI), but for a short (1-hour duration).
 - d. Similar risks for off-site workers were calculated for the nearest work site, approximately 2 miles to the north. They were well below thresholds of significance and are not reported herein.

As described above and in **Attachment A**, the landfill-gas generation is anticipated (based on the assumptions described above) to peak at approximately 2,447 cfm (at 50% methane) in 2071. Assuming a maximum of 98% can be collected, approximately 2,400 cfm would be combusted in an LFG flare and the remaining 47 cfm would escape as fugitive emissions in a diffused

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³⁰ Also known as atmospheric dispersion parameter, X/Q is widely used for dispersion modeling. It allows recalculation of the concentration at a specific receptor using different source emission rates without rerunning the dispersion model each time.

manner through the landfill surface. If a lower collection efficiency is achieved, more LFG would escape as fugitive emissions.

To calculate emissions of hazardous air pollutants (HAPs) from LFG data and 98% destruction efficiency were assumed for the analysis. HAPs for which there are OEHHA/ARB-approved risk assessment health values (CARB, 2020) are listed in **Attachment P** along with the resulting concentrations after flare combustion. For HAPs that were not analyzed, the default concentrations for LFG constituents from AP-42 were used (USEPA, 2008).

AERMOD was used to model the emissions from the flare stack and from diffused emissions through the landfill cap. The following were entered into the model for flare emissions:

- Release type: Horizontal Point source for the LFG flare stack. The coordinates for the flare site were entered into the model.
- Release Height: A flare stack height of 40 feet and diameter of 10 feet was assumed for the Proposed Project flare.
- Release Elevation: 692 feet MSL.
- Release flow of 2,400 cfm (peak for life of landfill per **Attachment** C, Table C3) converted to combusted flow in a 10-foot diameter 40-foot-tall stack with a 1.8 m/sec exhaust velocity.
- Release constitutes, 2% of VOCs.
- Operating schedule 24-hours per day, 7 days per week for both analyses.
- As described above, the coordinates for the receptors were input into the model and χ/Q calculated for each receptor and are further described in **Attachments P** and **Q**.
- Receptor elevation: Ground level.

For fugitive emissions, the following were entered into the model:

- Release type: Area source including the entire Proposed Project Landfill footprint.
- Release Elevation: The average Proposed Project Landfill surface elevation of 850 feet MSL was assumed for the fugitive emissions.
- Release constituents: Emissions as described above in pounds per hour calculated from the VOC concentrations and the flow rates over the 253-acre Proposed Project landfill surface at or near buildout.
- Assumes no oxidation of TACs in landfill cover (conservatively high assumption).
- Release flow: Calculated the flow that would provide less than 10-in one million excess cancer risk at the PMI: 160 cfm at 50% methane (93% collection efficiency).
- Release geometry 253-acre landfill footprint at or near buildout.
- Operating schedule 24-hours per day 7 days per week.

- The χ/Q value was calculated for the area source and the same receptor as the flare was found to have the highest χ/Q and was further analyzed for health risk. The equations and calculations are included in Appendices P-1 and P-2. The health risks for the two LFG-related sources were summed and are presented in **Tables B29** and **B30**.
- Receptor elevation ground level.

Long-term (life of the project) DPM from off-site and on-site vehicle emissions, including John Smith Road, were estimated as shown in **Attachment R**. In summary, the following assumptions were included:

- Overall: DPM is based on the state average of 8% of PM_{2.5} emissions from diesel-powered equipment as described above.
- The emissions will be averaged over a 64-year site life plus one year for the closure cap.
- On-site emission will be averaged over the 253-acre expanded Landfill, as operation of the expanded Landfill will overlap over the existing Landfill. Emissions were modeled as a ground surface area source with deposition at ground level.³¹
- Emissions on JSRL were modeled as a line source with the emissions distributed evenly over the 1.81 mile road length from Fairview Road to the new landfill entrance (includes emission for both in and out) and assuming the discharge is at diesel truck exhaust height of 3 meters. With deposition at ground level.
- Average Emissions from Construction
 - o Assume one entrance construction project.
 - O Assume 29 approximately 7-acre construction projects with the average haul path lengths from Scenarios 2 through 5.
 - Assume four closure cap installation projects, one of which will be performed the year after the Landfill closes.
 - O Assume that after 2045, 60% of vehicles will be zero emissions and the other 40% will have a 2050 model year.
 - o Assume that prior to 2045 all off-road equipment over 200 hp will be Tier 4F and below 200 hp will be Tier 3. After 2045 assume all are Tier 4F.
- Average Emissions from Operation
 - o Assume that prior to 2045 all off-road equipment over 200 hp will be Tier 4F and below 200 hp will be Tier 3. After 2045 assume all are Tier 4F.
 - o Assume that prior to 2045 all on-road support equipment will have 2025 calendar year or newer aggregate EF (as average of 2020 to 2045). Assume 2050 calendar year after 2045.

The default for dispersion modeling is ground level as it typically provides the highest concentration at the receptor. Head height (1.5 m) is sometimes requested. Other heights are sometimes used in urban settings where residences are elevated above ground level.

- O Assume that after 2045, 60% of vehicles will be zero emissions and the other 40% will have a 2050 model year.
- For Waste Delivery Traffic, on-site
 - Assume the Proposed Project average traffic (it assumes 95 large diesel trucks per day).
 - O Assume EF with an average 2025 calendar year from 2023 to 2045 and assume a 2050 model year after 2045.
 - O Assume that after 2045, 60% of vehicles will be zero emissions and the other 40% will have a 2050 model year.
- For Waste Delivery Traffic on John Smith Road
 - Assume the Proposed Project average traffic (it assumes 95 large diesel trucks per day).
 - o Assume 3.62 mile round trip from Fairview Road to the new landfill entrance.
 - o Assume average of 2042 emissions technology for life of landfill.
 - Assume full traffic occurs for 65-year life of landfill for simplicity of calculation (out-of-County diesel tuck trips would end after 50 years under the project waste acceptance rate).
 - O Assume that the traffic occurs for a full 70-year lifespan (a conservative approximation as the duration will likely be less).

The CAS Number and concentrations from DPM is in **Attachment P**. DPM has risk assessment health values for chronic inhalation and lifetime cancer.³² There is no acute recommended exposure limit for (REL) for DPM and acute risk was not evaluated.

8.8. Toxicity Assessment

8.8.1. Selecting Receptors for Risk Evaluation

AERMOD output a list of the concentration at each receptor and the data was sorted to identify the PMI, MEIR, and MEIW. Respondents to the NOP requested modeling of the new School on Fairview Avenue and a potential future high school on Best Road. Separate model runs were performed for LFG emissions from the Flare point source and fugitive emissions, both baseline under the baseline condition and the Proposed Project. DPM emissions were modeled only under the Proposed Project as, under the baseline, the Landfill would close in roughly 15 years, and would not contribute significantly to an excess lifetime cancer risk. All model runs were performed for each year for which meteorological data was obtained (2018-2020). **Attachment**

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³² https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf

Q contains tables showing the receptor designator, coordinates, elevation, receptor type, and deposition rate for each analyzed constituent. The PMI and sensitive receptors MEIR, MEIW, and schools are highlighted on each spreadsheet. The spreadsheets include the results of flare emissions and fugitive LFG modeling and estimated landfill-life DPM.

8.8.2. Cancer Risk

The analyses include a sum risk of cancer as a result of the lifetime dose of the compounds modeled. A residential lifetime is considered 70 years living at the same place, a worker lifetime is considered 25 years working at the same place.

The health risk assessment for the inhalation exposure (all of the compounds analyzed herein) pathway includes adjustments for variable breathing rates throughout a person's life as children breath more rapidly than adults. The adjustments include age sensitivity for the third trimester of pregnancy, 0 to less than (<)2 years, 2 years to <9 years, 9 years to <16 years, and 16 years to <30 years, and 10 years to <70 years. The combined adjustment for these breathing rates, called a "combined exposer factor" "CEF." The South Coast Air Quality Management District has developed CEF values for residential receptors, assuming a lifespan of 70 years at the same locations, and worker assuming 25 years working at the same location. For schools, the CEF value for a child for 24 hr per day, 350 days year per year was used to simulate 8 hours per day for 15 years and is considered conservatively high. The CEF for a worker for 8 hours per day 250 days per week for 25 years is 14% of the child CEF and has a significantly lower exposure factor. The CEF is lower for workers because adult workers have a slower breathing rate than children and, in this case, are assumed to be exposed fewer days per year.

For each analyzed compound, the OEHHA has developed cancer potency (CP) factors used to calculate the potential for cancer related to a specific compound.

For chronic (long-term; 70-years for residential and 25-years for worker) cancer risk, the following simplified equation is used (SCAQMD, 2017):

MICR = SUM [
$$CP * Q * CEF * MP * 10^{-6}$$
]

Where:

MICR = Maximum Individual Cancer Risk (called RISK in OEHHA Guidance).

SUM = Indicates that all of the calculated risk from different compounds are summed.

CP = Cancer potency (mg/kg-day)⁻¹ obtained for OEHHA cancer inhalation potency tables.

Q (or Dose) = Concentration rate of a compound in $\mu g/m^3$ for a compound produced by dispersion modeling for a specific receptor.

- CEF = Combined exposure factor (L/kg/day) (factor combined age sensitivity, averaging time, and fraction of time spent at home) obtained from SCAQMD, 2017, Table 4.1.
- MP = Multipathway adjustment factor (dimensionless) for compound with more than one pathway from SCAQMD, 2017 Tables 3.1 (cancer) or 3.2 (chronic).
- 10^{-6} = Micrograms to milligrams and liters to m^3 conversion.

The MBARD CEQA threshold of significance for cancer risk is ten in one million.

8.8.3. Chronic Hazard

Chronic hazard is a measure of lifetime non-cancer health effects from exposure to a compound. A chronic hazard index is calculated by dividing the annual average concentration of a toxic pollutant by the chronic reference exposure level for that pollutant. The following equation is used to calculate the Chronic Hazard Index (HIC):

$$HIC = SUM (Q * MWAF * MP * (1/REL))$$

Where:

HIC = Hazard Index – Chronic (dimensionless).

SUM Indicates that the hazard from all of the analyzed pollutants and target organs is summed.

Q = Deposition rate or Dose (ug/m3) from the dispersion model.

MWAF = Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table.

MP: Multipathway Adjustment Factor (dimensionless) from SCAQMD, 2017 Table 3.0; assume 1 when no value is specified.

REL: Reference Exposure Level (REL) - Chronic (μg/m³), from CARB.

Chronic RELs are designed to address continuous exposures for up to a lifetime. The exposure metric used for chronic exposure is the annual average exposure. The RELs are evaluated for individual target organs for which the OEHHA/CARB have developed RELs and may include one or more of the following: alimentary (gut), cardiovascular, eye, immune, nervous, reproductive, and/or respiratory.

8.8.4. Acute Hazard

Acute RELs are designed to address short-term exposure of 8 hours. An equation similar to the one used for chronic hazard except acute RELs are used.

8.9. Health Values Used in Dose-Response and Dose Estimates

The tables in **Attachment P** provide tables of the acute, 8-hour and chronic inhalation RELs, chronic oral RELs, and cancer potency factors for each substance that is quantified in the HRA. The tables list the route for each constituent. The factors were obtained from the OEHHA Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values.³³ The tables list the dose by exposure pathway at the Critical Receptors, PMI, MEIR and MEIW.

8.10. Risk Characterization

As described above, the AERMOD Model produced concentrations at each of the receptors, including nearest "potential receptors," along the property line and on the grid shown on **Figure B4**. The residence (MEIR), business (MEIW) and the potential receptor (PMI) with the highest concentrations were selected for health risk calculation.

8.10.1. Landfill Gas

The risks for fugitive and flare emissions were calculated separately as described above and summed for **Table B29** on the following page. As described above, the flare was modeled assuming 2,400 cfm (assuming a maximum 98% of the 2,477 cfm is collected and combusted to provide a conservatively high flare flow) and fugitive emissions from LFG were modeled at 160 cfm (93% of 2,477 cfm is collected and the remainder escapes through the landfill surface to estimate higher fugitive emissions).

Table B29
Peak Excess Cancer & Non-Cancer (Acute and Chronic) Health Hazards from Fugitive and Flare LFG Emissions⁵

| Location | Receptor(s) | Met. Data Year ¹ | Excess Cancer Risk per million | Chronic Hazard Index | Acute Hazard Index |
|----------------------------|-----------------|--------------------------------|--------------------------------------|----------------------------|--------------------------|
| PMI ⁴ | P40 | 2020, 2020 | 9.90^{2} | 0.0315 | 0.000075 |
| NPR ⁴ | G68 | 2018, 2020 | 4.95 | 0.0158 | 0.000038 |
| MEIR | RP-H31 | 2019, 2020 | 2.39 | 0.0076 | 0.000020 |
| MEIW | CR_WP_2 | 2019, 2020 | 0.15 | 0.0076 | 0.000015 |
| Rancho Santana School | CR_SC_13 | 2018, 2018 | 0.20^{6} | 0.00086 | 0.0000043 |
| Potential Future School | CR_SC-14 | 2020, 2018 | 0.15^{6} | 0.00048 | 0.0000034 |
| Threshold o | of Significance | | 10 | 13 | 13 |

Notes:

- 1. Meteorological year with highest risk for flare emissions, fugitive emissions.
- 2. Modeled to determine the highest fugitive emissions that would fall below the limit.
- 3. The highlighted cells indicate the best available data for evaluating chronic and acute health hazard significance thresholds adopted from the BAAQMD.

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³³ https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf

- 4. The PMI is at the Landfill property line adjacent to JSRL and is not a potential receptor. Grid Point G68 is across the street from property line point P40.
- 5. At 2,400 cfm flare flow and 160 cfm fugitive emissions.
- 6. Assumes a child exposed for 15 years. The risk for a worker would be approximately 1/7th of this value for 25-years exposure.

The health risk is driven by excess cancer risk from fugitive emissions of LFG escaping through the Landfill surface. The emission from the flare stack produces between one and two orders of magnitude less risk and is negligible by comparison (0.01 per million excess cancer risk at the PMI). The fugitive emissions were modeled at 160 cfm equaling less than 10-in-one-million excess cancer risk at the PMI. However, the risk is based on a PMI that is on the property line along John Smith Road and is not a potential receptor. At the MEIR (RP_H3, southeast of the landfill), the fugitive emissions could reach 670 cfm and remain below the 10-in-one-million threshold (73% collection efficiency). Fugitive emissions of up to 322 cfm would remain below the 10-in-one-million threshold nearest offsite grid point, G68 (87% collection efficiency). Therefore, based on the MEIR the flow through the flare could be increased above the anticipated peak flow, if needed, as long as the collection efficiency is controlled so that the fugitive emission remains below 670 cfm with no receptor at G68 and 322 cfm if a residence is ever constructed in the vicinity of G68. The risk calculations do not assume that the TACs would be filtered or oxidized when passing through the cap are considered conservatively high.

As described above, minimizing fugitive emissions will be required to control GHG emissions. Assuming a peak LFG generation rate of 2,447, and a 95% collection efficiency the fugitive emissions would remain well below a rate that would approach the 10-in-one-million threshold of significance. The health risk analysis for the flare emissions assumes a conservatively high peak flow for the entire 70-year averaging period. The flow would be less at other times and the actual risk from flare emissions lower. Because the project would include an RNG facility, only a portion of the LFG would be combusted in a flare and the full flow would be passed through the flare during maintenance of the RNG system. Because the flare would be used intermittently the health risk from flare would be significantly less than estimated.

8.10.2. Diesel Particulate Matter

The analysis of DPM as summarized in **Table B30** includes the sum of (1) emissions from operations, construction, and waste delivery traffic within the Proposed Project (**Attachment R**), and (2) emissions along John Smith Road (**Attachment O**). As described above, the emissions for landfill operations were calculated assuming that prior to 2045 gradually improving emissions technology, as projected by EMFAC2017 and CalEEMod would gradually reduce

DPM emissions. After 2045, 60% of vehicles would be carbon neutral with further associated reduction in DPM.

The average traffic on John Smith Road would occur for a 50-year period and then the out-of-County diesel emitting heavy trucks would end and lighter vehicles and local heavy trucks would continue for another 15 to 16 years. However, as described above, emissions were calculated assuming the highest average diesel traffic for the life of the landfill occurring over a 70-year period.

Table B30 summarizes the results of DPM modeling. The analysis for the PMI and MEIR assume a 70-year exposure (longer than the site life) and provides a conservatively high risk. The PMI (P40) is along the property line south of the Landfill adjacent to John Smith Road and as such is not a potential receptor. Therefore, the nearest offsite grid point to the PMI (G68) was analyzed and included in **Table B30** on the following page. The excess cancer risk for all of the receptors nearest to John Smith Road were all well below the threshold, the highest being 0.193 excess cancer risk per million at RP_H42. All of the risks are below the thresholds of significance.

Table B30

Excess Cancer & Non-Cancer (Chronic) Health Hazards from DPM for the Life of the Proposed Project Including John Smith Road

| the Proposed Project merading John Sinth Road | | | | | | | |
|---|----------|--------------------|--------------------------------------|----------------------|---------------------------------------|--|--|
| Location | Receptor | Met. Data Year¹ | Excess Cancer Risk per million | Chronic Hazard Index | Acute Hazard Index ³ | | |
| PMI | P40 | 2020, 2018 | 4.98 | 0.0018 | NA | | |
| NPR ³ | G68 | 2018, 2020 | 2.49 | 0.00059 | NA | | |
| MEIR | RP_H31 | 2018, 2020 | 1.20 | 0.00029 | NA | | |
| MEIW | CR_WP_2 | 2020, 2020 | 0.07 | 0.00024 | NA | | |
| Rancho Santana School | CR SC 13 | 2020, 2018 | 0.07^{5} | 0.000035 | NA | | |
| Potential Future School | CR_SC_14 | 2018, 2018 | 0.045 | 0.000018 | NA | | |
| Threshold of Significance | | | 10 | 12 | 1^{2} | | |

Notes:

- 1. Meteorological year with highest risk summed for JSRL, Landfill.
- 2. The highlighted cells indicate the best available data for evaluating chronic and acute health hazard significance thresholds adopted from the BAAQMD.
- There is no acute hazard index for DPM.
- 4. The PMI is at the landfill property line adjacent to JSRL and is not a potential receptor. Grid Point G68 is across the street from property line point P40.
- 5. Assumes a child exposed for 15 years. The risk for a worker would be approximately 1/7th of this value for 25-years exposure.

Because the PMI at Receptor P40 is not a potential receptor, the nearest grid point to P40, G68 was analyzed and was found to have a sum of excess cancer risk below the threshold of significance. When including the risk from DPM, the fugitive emissions of LFG would need to be less than 242 cfm based on the risk at the nearest potential receptor (G68) and 588 cfm based on the risk at the MEIR. Based on the anticipated fugitive emissions in Table A2 in **Attachment A**, the projected fugitive emissions would be below these limits. Because the risk from flare emissions is negligible and maximum fugitive LFG emissions well above the projected emissions, there is flexibility to accommodate LFG generation higher than expected as well as the associated fugitive emissions remain within the 588 cfm limit based on the MEIR (76% collection efficiency at a peak LFG generation rate of 2,477 cfm), or if a residence is constructed near G68 in the future the 242 cfm limit would apply (90% collection efficiency at a peak LFG generation rate of 2,477 cfm).

8.10.3. Combined Risk

Table B31 summarizes the sum of health risks for both landfill gas related emissions and DPM.

Table B31
Sum of Excess Cancer & Non-Cancer (Chronic) Health Hazards from DPM and LFG Emissions⁵

| Location | Receptor | Met. Data Year ¹ | Excess Cancer Risk per million | Chronic Hazard Index | Acute Hazard Index ³ |
|----------------------------|--------------|-----------------------------|---|----------------------------|------------------------------------|
| PMI ⁴ | P40 | 2018, 2020, 2020, 2020 | 14.88 | 0.033 | NA |
| NPR ⁴ | G68 | 2018, 2020, 2020, 2018 | 7.44 | 0.016 | NA |
| MEIR | RP_H31 | 2018, 2020, 2020, 2019 | 3.59 | 0.0079 | NA |
| MEIW | CR_WP_2 | 2018, 2020, 2020, 2019 | 0.22 | 0.0079 | NA |
| Rancho Santana School | CR_SC_13 | 2020, 2018, 2018, 2018 | 0.27^{6} | 0.00089 | NA |
| Potential Future School | CR_SC_14 | 2020, 2018, 2018, 2020 | 0.19^{6} | 0.00050 | NA |
| Threshold of | Significance | | 10 | 12 | 12 |

Notes:

- 1. Meteorological year with highest risk used for summing for, JSR DPM, LF DPM, Flare LFG, Fugitive LFG.
- 2. The highlighted cells indicate the best available data for evaluating chronic and acute health hazard significance thresholds adopted from the BAAQMD.
- 3. There is no acute hazard index for DPM.
- 4. The PMI is at the landfill property line adjacent to JSRL and is not a potential receptor. Grid Point G68 is across the street from P40.
- 5. Assumes 2,400 cfm from the flare and 160 cfm fugitive emissions at buildout.
- 6. Assumes a child exposed for 15 years. The risk for a worker would be approximately 1/7th of this value for 25-years exposure.

8.11. Uncertainties in Health Risk Assessments

According the OEHHA, 2015, page 1-6, "Risk Assessments generated by an HRA should not be interpreted as the expected rates of disease on the exposed population, but rather as estimates of potential for disease based on current knowledge and a number of assumptions." Uncertainty in the toxicity criteria such as lack of CPs and RELs for some chemicals, and the lack of an adequate toxicological basis for some chemicals, introduces uncertainty. The concentrations at a given location are based on meteorological information that tend to be transitory and concentration of chemicals that may change over time. These uncertainties can result in both under- and overestimation of health risks. However, conservative assumptions are made during emissions modeling and are expected to overestimate the health risk.

9. Dispersion Modeling for PM₁₀

As described in the MBARD CEQA Guidelines, dust emissions can be evaluated based on a dispersion analysis:

"Projects which could generate 82 pounds per day or more of PM10 at the project site (e.g., quarries, truck stops) would result in substantial air emissions and have a significant impact on local air quality. However, District-approved dispersion modeling can be used to refute (or validate) this determination. If modeling demonstrates that emissions would not cause an exceedance of the State PM10 standard (50 μ g/m3) at an existing or reasonably foreseeable receptor as averaged over 24 hours, the impact would not be considered significant.

If ambient PM10 levels already exceed the State AAQS [Ambient Air Quality Standards] in the project area, the project would contribute substantially to the violation if it would emit more than 82 pounds per day. This would be considered a significant individual and cumulative impact on local air quality, since the background concentration reflects the collective contribution of PM10 from nearby sources.

If there are existing PM10 emissions in the project area, dispersion modeling should be undertaken to determine if project plus existing emissions would cause a violation of the State PM10 standard."

JSRL is located 2.5 miles southeast of the background Fairview monitoring station. As shown in the monthly wind roses in **Attachment S**, during August and September the predominant wind direction is from the west and northwest, blowing towards the Landfill and from numerous farm fields to the northwest. During October, the predominant wind direction is from the northwest with wind also coming from the southwest. During November, the predominant wind direction is from the southeast from the direction of the Landfill and from the construction area of the subdivision adjacent to the monitoring station. Because of the distance from the Landfill, the Landfill is not a likely contributor to the PM_{10} background observed at the monitoring station. Regardless, dust generation estimates from landfill operations for scenario 5 (described previously) was modeled for comparison to the CAAQS (50 μ g/m³) and NAAQS (150 μ g/m³) for PM_{10} and the background data at the Fairview station assuming that the data from the Fairview station represents background conditions at or near the Landfill.

As required by the MBARD CEQA Guidelines the following steps were taken to model PM10 emissions from the combined sources described above.

1. Describe the proposed operation and process(es), including hours of operation.

Currently, the JSRL is open for commercial refuse disposal operations seven days a week during the daylight hours, meaning that portion of the day between sunrise and sunset. The Landfill receives refuse from the public Monday through Friday from 8:00 a.m. to 4:00 p.m. and Saturday and Sunday from 9:00 a.m. to 3:00 p.m. The JSRL is closed on the following holidays: New Year's Day, Easter Sunday, Thanksgiving Day, and Christmas Day. The majority of the landfill operations personnel work the hours of 7:00 a.m. to 5:00 p.m., Monday through Sunday. However, some employees work staggered shifts to cover the early and late hours, as well as peak waste delivery periods. Landfill staff may be present for two hours before and after the Landfill is open to the public to perform regular maintenance and cover the waste. For the purposes of equipment usage, including breaks, an 8-hour day is assumed. On weekends equipment usage will be less.

Construction is typically performed on weekdays on 8 to 10 hour shifts of which 15 minutes to a half hour in the morning, half hour for lunch and 15 minutes in the evening are taken for safety meetings, fueling and cleanup. For the purposes of modeling, 8 hours of equipment operation per day are assumed.

2. Describe all on-site sources of stationary and mobile source emissions (e.g., equipment types, truck travel, storage piles).

The mobile emissions from construction operations and stationary emissions from the landfillgas flare and fugitive emissions are described above.

3. Describe how an emissions inventory will be developed for all sources associated with the Proposed Project. In particular, the basis of the emission factors to be used should be explained (e.g., source tests, AP-42, etc.).

The methods of emissions inventory calculation are described in detail above and are summarized in **Tables B20** through **B25**, above.

4. Explicitly state that the linkage between the emissions inventory (i.e., source categories, averaging times) and emission rates used in modeling will be clearly defined. Emissions should be based on maximum operational rates expected within the time frames of the particular AAQS being assessed.

As described above and summarized in **Tables B20** through **B20**, the PM₁₀ emissions for each category and each scenario were calculated and the emissions from each category summed to obtain the total emissions at each receptor for each scenario. Only the scenarios where combined PM₁₀ emissions could not be mitigated to below the threshold of 82 lb/day were analyzed. The emissions were averaged over a 24-hour day.

5. The fraction of PM₁₀ in total particulate matter should be based on a materials analysis of samples taken from proposed source operations and activity areas, if possible.

Silt soil particles range from 3.9 to 62.5 micrometers (passing a No. 200 standard sieve) and mostly within the range of PM₁₀ (10 micrometers). Clay particles range from 0.98 to 3.9 micrometers and are in the ranges of PM_{2.5} (2.5 micrometers). The silt contains weathered sand and claystone bedrock containing 40% or more silt or smaller particles (silt and clay) although in bulk excavation much of that silt is tied up in rock particles until pulverized.

6. The fraction of other air contaminants (e.g., crystalline silica, asbestos) in total particulate matter should also be based on a material analysis of appropriate samples.

The Landfill does not have a process that uses or generates asbestos or crystalline silica. If present, they would occur in the native soils. The Panoche Formation from which the soil is derived does not contain ultramafic rocks (serpentine) from which asbestos is derived and the presence of measurable quantities of asbestos is negligible.

Respirable Crystalline Silica – Respirable crystalline silica (RCS) refers to crystalline silicon dioxide with an aerodynamic diameter less than four (4) microns (i.e., 0.0004 cm). Crystalline silica or quartz is ubiquitous in nature. Most dust generated by construction and mining activities including blasting produces dust particles larger than 4 microns. These particles are too large to reach the alveoli of the lungs which are the target organ. Thus, RCS constitutes a tiny fraction of the dust from these sources and does not represent a significant health risk to neighbors of these types of projects. In order to result in toxic effects, the silica needs to be crystalline, smaller than 4 microns, inhaled, and not exhaled.

The chronic REL for crystalline silica is 3.0 ug/m³. In 2002 a 24-hour value of 3.4 ug/m³ on a hot dry windy day was recorded (MBARD, 2005).

As described above, the project will include numerous dust control management practices. These management practices would minimize fugitive dust impacts, including dust containing crystalline silica to a less-than-significant level.

7. Identify the screening and/or detailed dispersion model(s) to be used with a brief statement as to why the selected model(s) is appropriate for the subject application.

L&A used BREEZE AERMOD by Trinity Consultants to model the emissions. AERMOD is the preferred model of the U.S. EPA for near-field air dispersion modeling. The model parameters are described in more detail above.

8. Identify an appropriate background concentration that reflects ambient PM₁₀ levels at the project site based on the MBARD protocol.

As described in the introduction, background data was obtained from the third highest PM₁₀ reading from the Fairview Station. Because the highest readings occurred in September through November and bulk excavation typically occurs in April through July, the third highest reading from April through July was obtained as a more applicable background.

9. Identify the location of existing or reasonably foreseeable sensitive receptors (e.g., residences, hospitals, schools) near the project site.

Figure B4 shows the locations of the surrounding sensitive receptors analysis points along the property boundary. Locations along the property boundary nearest to all of the scenarios are a conservative assessment of potential receptors.

10. At a minimum, estimate the maximum head level (1.5-meters default in AERMOD) ground-level PM₁₀ concentrations at existing or reasonably foreseeable sensitive receptors for comparison with applicable AAQS.

The ground-level and head-level modeling results are presented in **Table B32** below. The ground level results were slightly higher than the head-level results.

11. Determine whether PM₁₀ generated by the project would cause a violation of applicable PM₁₀ AAQS at any existing or reasonably foreseeable sensitive receptor location. If ambient concentrations already exceeded the State 24-hour AAQS, determine if the project would substantially contribute to the existing or projected violation.

Table B32 summarizes the results of PM₁₀ dispersion modeling for Scenario 5.

Table B32 PM₁₀ Dispersion Modeling Results for Scenario 5

| Location | Receptor | Met. Data Year ¹ | Ground Level µg/m³ | Head Level μg/m³ | Yearly Background ¹ μg/m ³ | Spring Background ¹ µg/m ³ | CAAQS | NAAQS |
|----------|----------|-----------------------------------|--------------------------|------------------------|--|--|-------|-------|
| PMI | P37 | 2020 | 4.66 | 4.68 | 111.7 | 42.9 | 50 | 150 |
| MEIR | RP_H1 | 2020 | 0.66 | 0.66 | 111.7 | 42.9 | 50 | 150 |

Notes: 1: The third highest value for background was during 2020.

When compared to the third highest background (that occurred in the fall of 2020) the additional PM₁₀ contribution from the Proposed Project at the property line would amount to 4.2% of the background and is not anticipated to be a significant contributor to an exceedance. When added to the third highest background for April, May, June, and July ("Spring" in **Table B31**), the total

would fall below both the CAAQS and NAAQS and would not contribute to an exceedance. The change in PM_{10} would be negligible. The low off-site fugitive dust results suggest some flexibility in the limits for the other scenarios but does not warrant additional monitoring.

10. Dispersion Modeling for SO₂

As described in the MBARD design manual, dust emissions can be evaluated based on a dispersion analysis:

"Sources which directly emit 150 pounds or more per day of oxides of sulfur as sulfur dioxide (SO2) (e.g., industrial operations) would result in substantial air emissions and have a significant impact on air quality. However, modeling can be used to refute (or validate) this determination. If modeling demonstrates that the source would not cause a violation of State or national AAQS at existing or reasonably foreseeable receptors, the project would not have a significant impact on air quality"

As described in **Table B3** above, there are no known background data within the MBARD, therefore the modeled SO₂ is compared to the CAAQS and NAAQS described in **Table B1** above and repeated here in **Table B33**, for convenience.

| Table B33 Current State and Federal Ambient Air Quality Standards for SO₂ | | | | | | | |
|--|---------------------------|----------------------|--|--------------------------|--|--|--|
| Averaging California National Standards ² | | | | | | | |
| Pollutant | Time | Concentration | Primary | Secondary | | | |
| Sulfur Dioxide (SO ₂) | 1-hour | 0.25 ppm (655 µg/m³) | 75 ppb (196 µg/m³) | - | | | |
| | 3-hour | - | - | 0.5 ppm (1,300 µg/m³) | | | |
| | 24-hour | 0.04 ppm (104 µg/m³) | 0.14 ppm (367 µg/m³) (for certain areas) 11 | - | | | |
| | Annual Arithmetic Mean | - | 0.030 ppm (77 µg/m ³⁾ (for certain areas) 11 | - | | | |

Note: See Table B1 for footnotes.

As required by the MBARD CEQA Guidelines the following steps were taken to model SO₂ emissions from the combined sources described above.

1. Describe the proposed operation and process(es), including hours of operation.

The SO₂ emissions are from an LFG flare and it is assumed that vehicle emissions are negligible in comparison to the flare emissions. The flare currently produces less than the MBARD threshold of significance of 150 lb/day. However, once the LFG generation rate passes approximately 1,709 cfm and assuming 98% of the LFG passes through the flare, the MBARD

threshold could be exceeded. The Project proponent is proposing installing a RNG facility which would result in flaring a fraction of the LFG during normal operation. However, during system maintenance, all of the LFG would be combusted in the flare potentially producing peak SO₂ emissions of 214.91 lb/day in 2071 for limited time periods (hours to weeks).

2. Describe all on-site sources of stationary and mobile source emissions (e.g., equipment types, truck travel, storage piles).

The mobile emissions from construction operations and stationary emissions from the landfillgas flare and fugitive emissions are described above.

3. Describe how an emissions inventory will be developed for all sources associated with the Proposed Project. In particular, the basis of the emission factors to be used should be explained (e.g., source tests, AP-42, etc.).

The methods of emissions inventory calculation are described in detail above and are summarized in **Tables B20** through **B25**, above.

4. Explicitly state that the linkage between the emissions inventory (i.e., source categories, averaging times) and emission rates used in modeling will be clearly defined. Emissions should be based on maximum operational rates expected within the time frames of the particular AAQS being assessed.

As described in Item 1, above, the SO₂ emission analysis is based on the estimated peak for the life of the landfill.

5. The fraction of SO₂ should be based on a materials analysis of samples taken from proposed source operations and activity areas, if possible.

The SO₂ in the LFG Flare exhaust is based on the tested stack emissions as described in **Attachment C**.

6. Identify the screening and/or detailed dispersion model(s) to be used with a brief statement as to why the selected model(s) is appropriate for the subject application.

L&A used BREEZE AERMOD by Trinity Consultants to model the emissions. AERMOD is the preferred model of the U.S. EPA for near-field air dispersion modeling. The model parameters are described in more detail above.

7. Identify an appropriate background concentration that reflects ambient SO₂ levels at the project site based on the MBARD protocol.

As described in the introduction, there is no available background data for SO₂ from the MBARD monitoring stations.

8. Identify the location of existing or reasonably foreseeable sensitive receptors (e.g., residences, hospitals, schools) near the project site.

Figure B4 shows the locations of the surrounding sensitive receptors analysis points along the property boundary. Locations along the property boundary nearest to all of the scenarios are a conservative assessment of potential receptors.

9. At a minimum, estimate the maximum head level (1.5-meters default in AERMOD) ground-level concentrations at existing or reasonably foreseeable sensitive receptors for comparison with applicable AAQS.

The ground-level and head-level modeling results are presented in **Table B34** below. The ground level results were slightly higher than the head-level results.

10. Determine whether SO₂ generated by the project would cause a violation of applicable AAQS at any existing or reasonably foreseeable sensitive receptor location. If ambient concentrations already exceeded the State 24-hour AAQS, determine if the project would substantially contribute to the existing or projected violation.

Table B34 on the following page summarizes the results of SO₂ for each averaging period.

Table B34 SO₂ Dispersion Modeling Results

| Location | Receptor ¹ | Met. Data Year ² | Ground Level μg/m ³ | Head Level µg/m³ | CAAQS | NAAQS | | |
|----------|-----------------------|--------------------------------|--------------------------------------|------------------------|-----------------------------------|--|--|--|
| 2000000 | 1-hour | | | | | | | |
| PMI | P23, P9 | 2018, 2020 | 27.1 | 28.9 | 0.25 ppm (655 µg/m³) | 75 ppb (196 µg/m³)³ | | |
| MEIR | RP_H9 | 2019 | 7.9 | 7.9 | 0.25 ppm (655 µg/m ³) | 75 ppb (196 µg/m³)³ | | |
| | 3-hour | | | | | | | |
| PMI | G80 | 2018, 2020 | 16.5 | 16.8 | NA | $0.5 \text{ ppm } (1300 \text{ µg/m}^3)^4$ | | |
| MEIR | RP_H1 | 2019 | 6.2 | 6.3 | NA | $0.5 \text{ ppm } (1300 \text{ µg/m}^3)^4$ | | |
| | | | | 24-hour | | | | |
| PMI | P46 | 2019, 2018 | 4.92 | 4.96 | 0.04 ppm (105 µg/m³) | 0.14 ppm (364 µg/m ³) ³ (for certain areas) | | |
| MEIR | RP_H1 | 2018, 2019 | 1.44 | 0.66 | 0.04 ppm (105 µg/m³) | 0.14 ppm (364 µg/m ³) ³ (for certain areas | | |
| | Annual Average | | | | | | | |
| PMI | P46 | 2020 | 1.415 | 1.470 | 0.04 ppm (105 μg/m3) | 0.14 ppm (364 µg/m³)³ | | |
| MEIR | RP_H1 | 2019 | 0.246 | 0.250 | 0.04 ppm (105 μg/m3) | 0.14 ppm (364 µg/m³)³ | | |

Notes: 1: Ground-Level Receptor Location, Head Level-Receptor Location, when different.

- 2: Ground-Level Receptor Highest Data Year, Head-Level Receptor Location Highest Data Year, when different.
- 3: Primary Standard.
- 4: Secondary Standard.

The concentrations of SO₂ at the highest PMI and MEIR are well below both the CAAQS and NAAQS and a discharge concentration of 214.91lb/day from the LFG flare would not contribute to a violation of the applicable standards.

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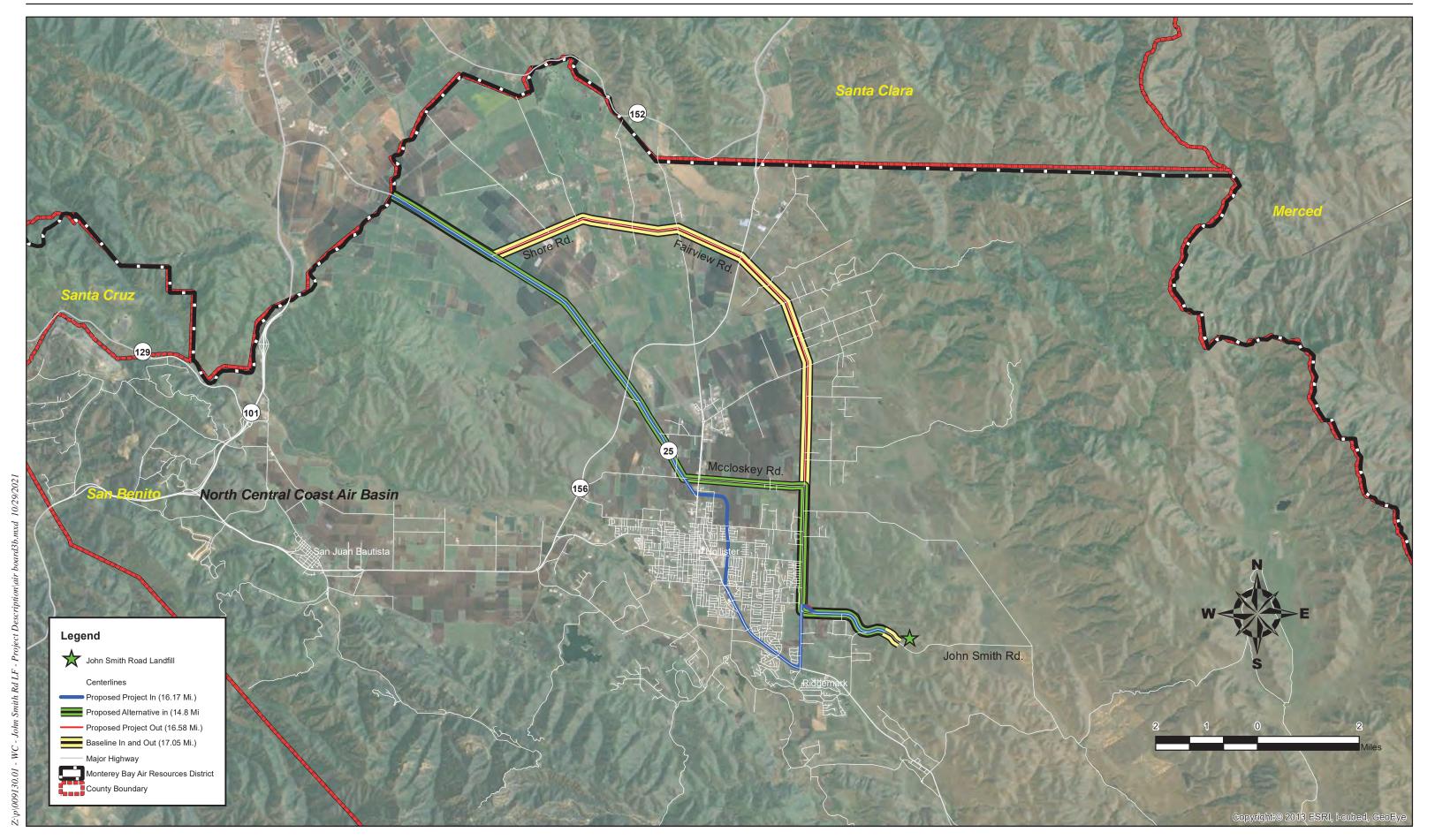
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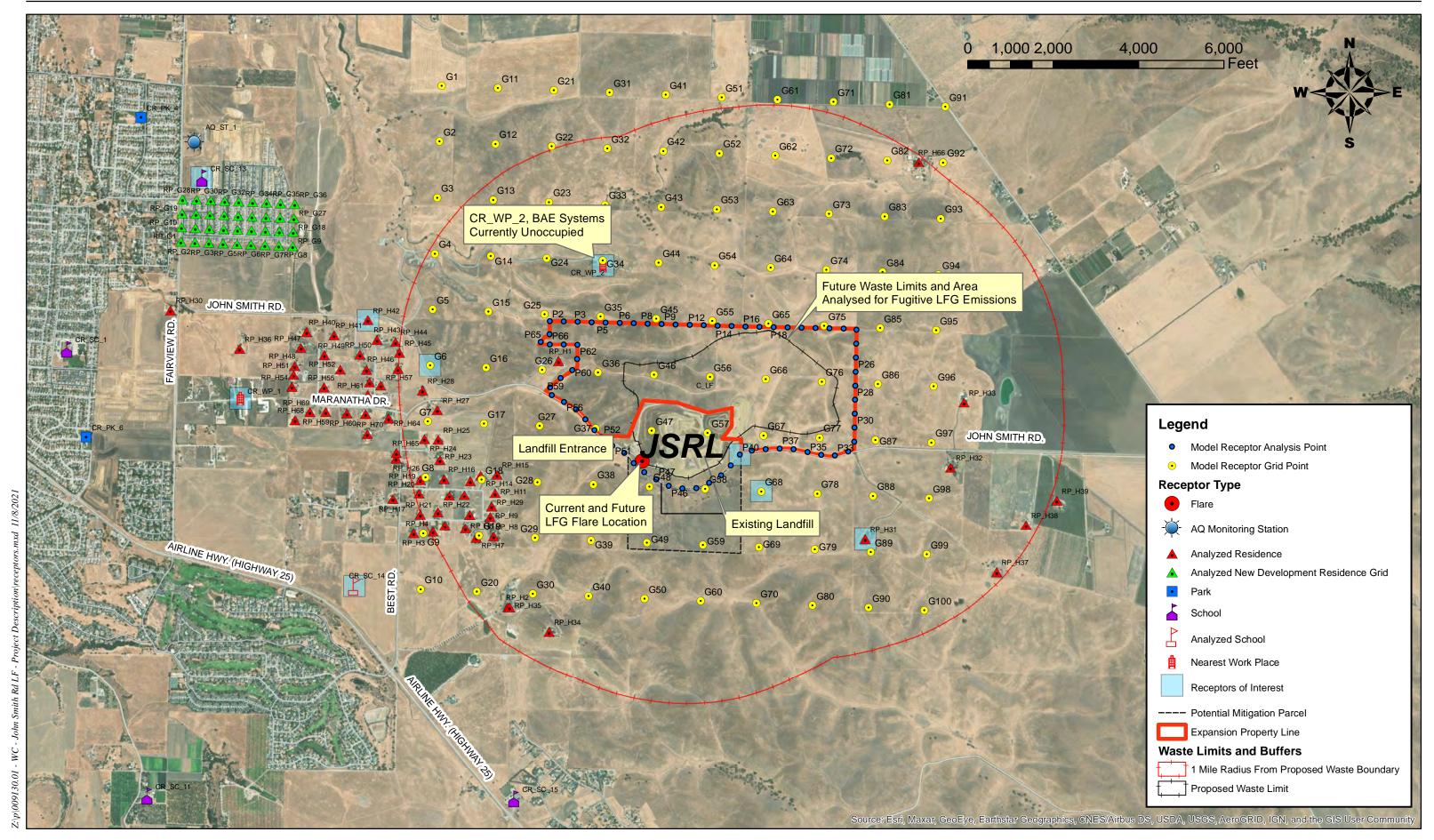
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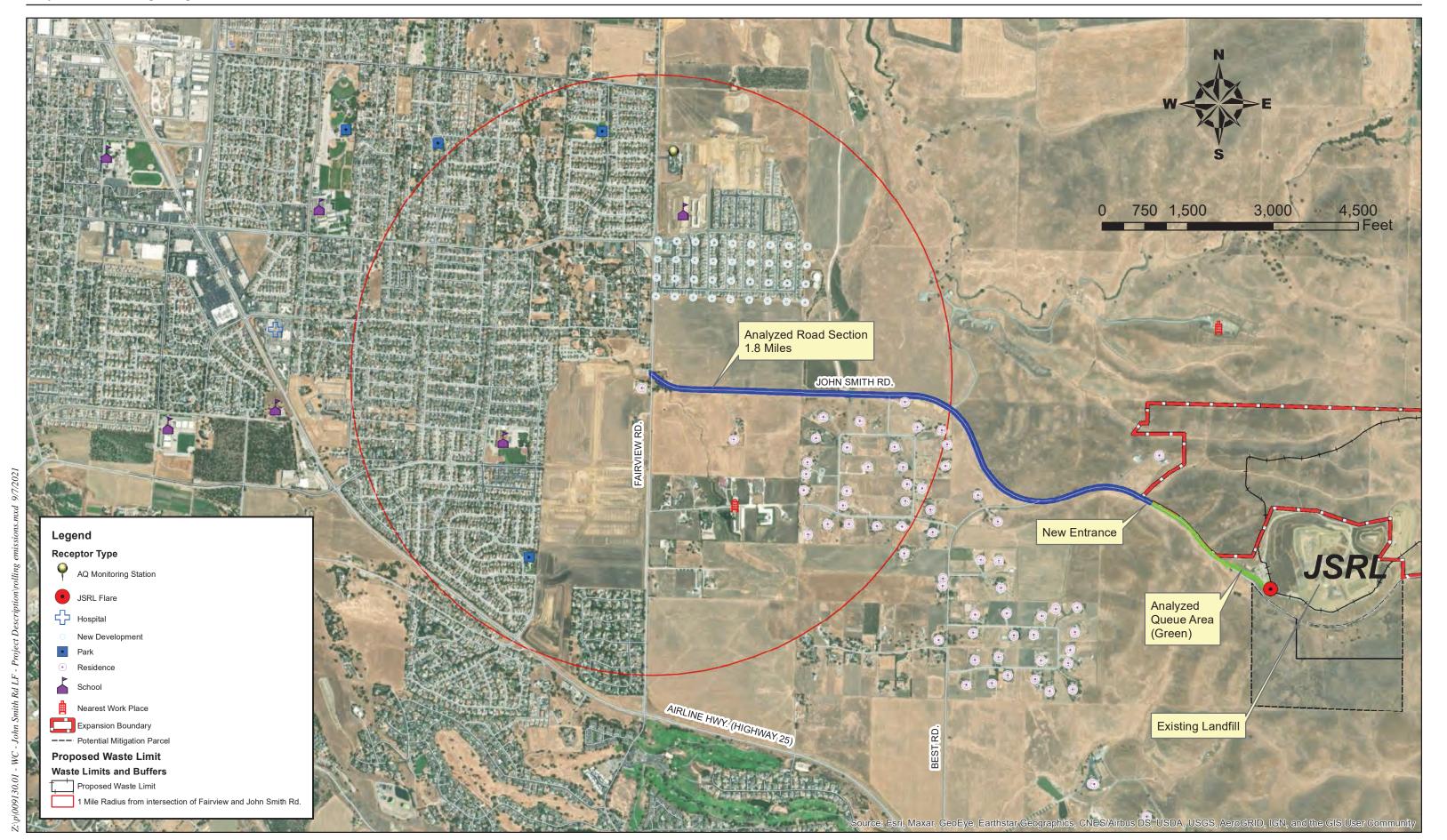
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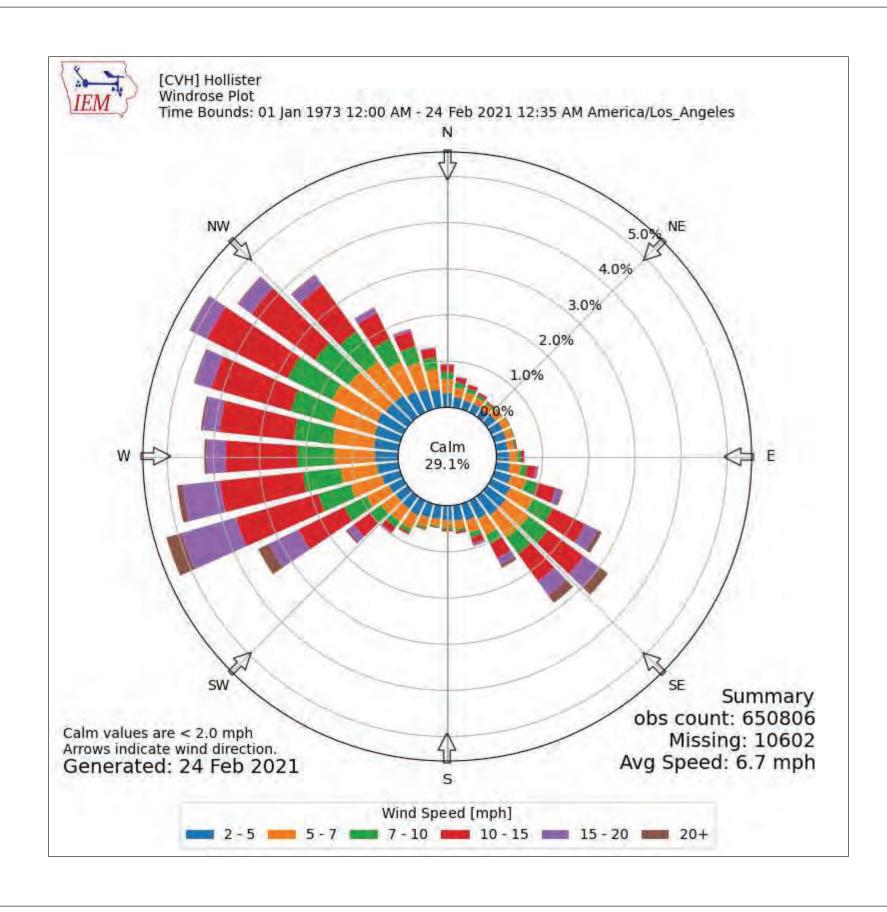
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List Hazardous Air Pollutants (HAPs) per Title III Clean Air Act Amendments, 1990, and include compounds found in landfill gas, per AP-42 Table 2.4-1 "Default Concentrations for LFG Constituents."

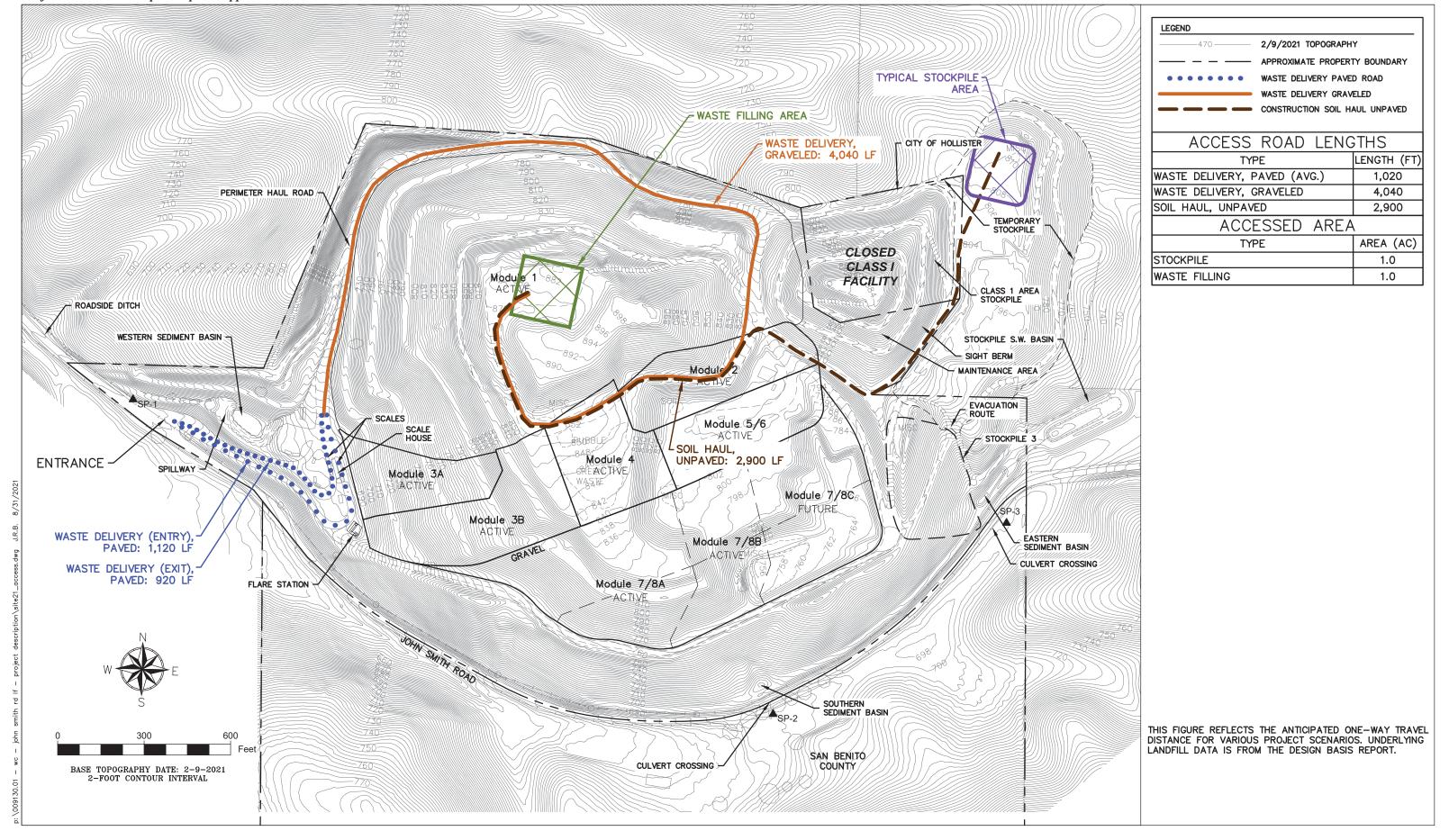








REFERENCE: IOWA STATE UNIVERSITY
IOWA ENVIRONMENTAL MESONET



BASE TOPOGRAPHY DATE: 2-9-2021 10-FOOT CONTOUR INTERVAL

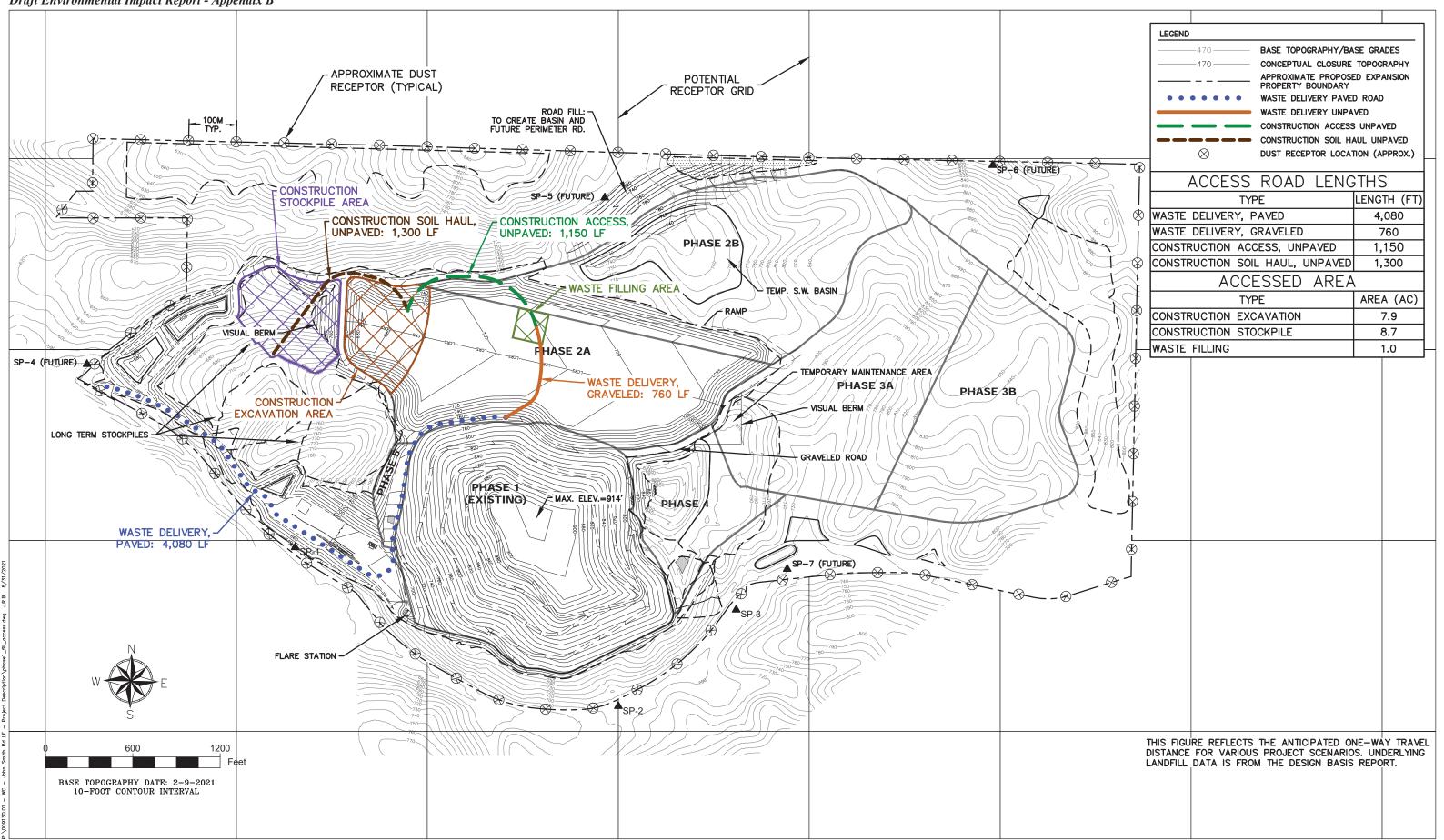
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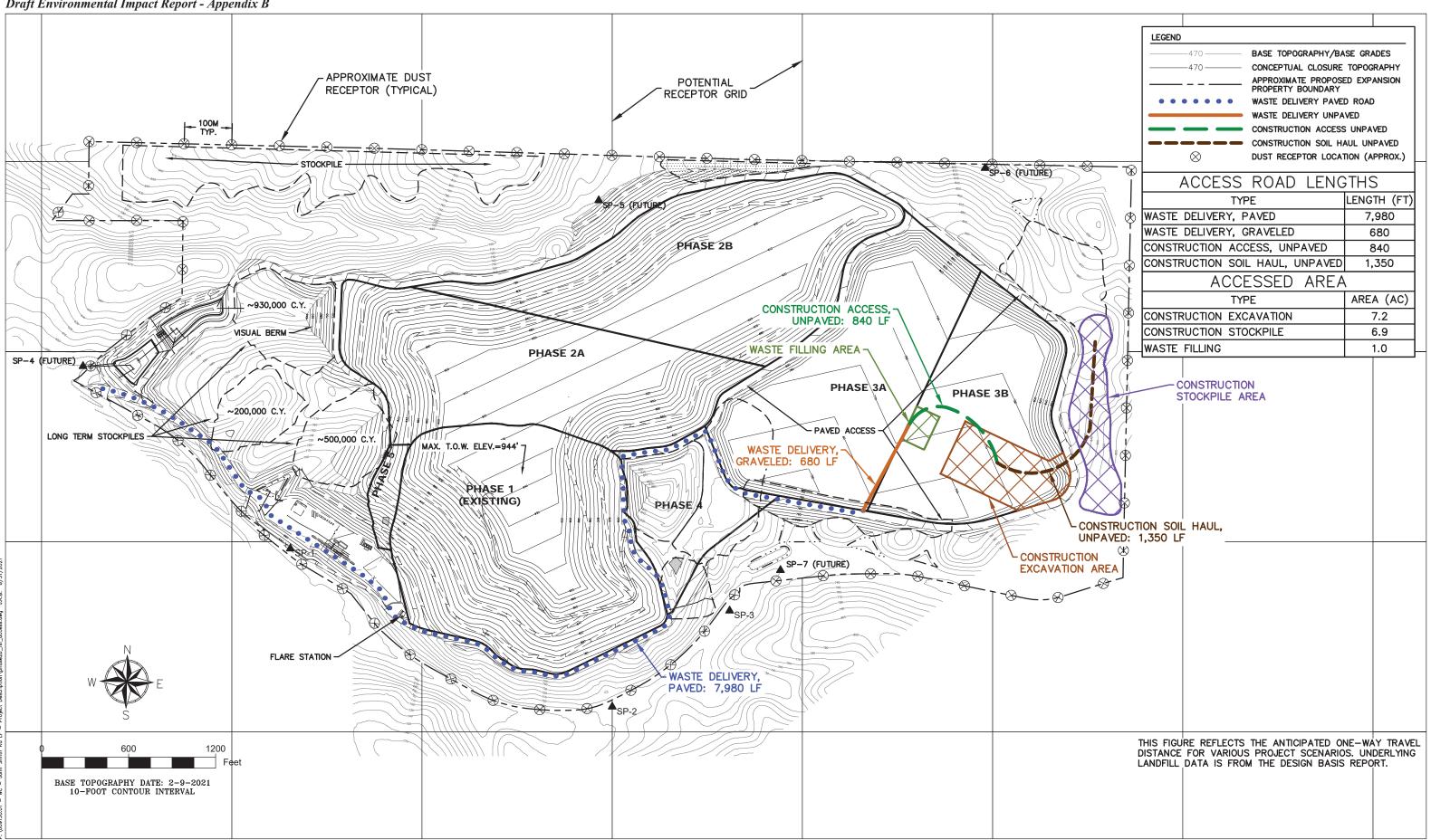
THIS FIGURE REFLECTS THE ANTICIPATED ONE—WAY TRAVEL DISTANCE FOR VARIOUS PROJECT SCENARIOS. UNDERLYING

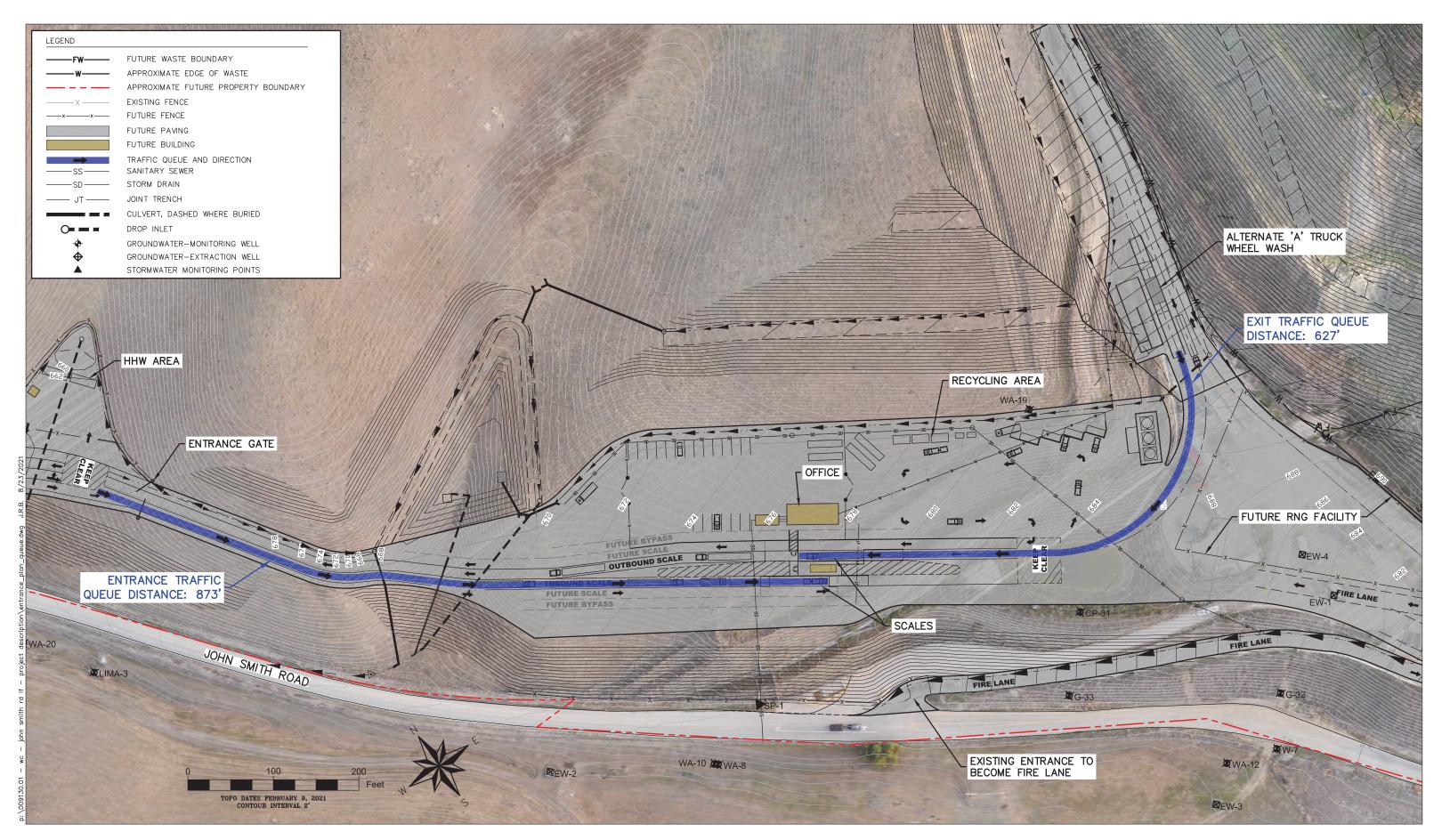
LANDFILL DATA IS FROM THE DESIGN BASIS REPORT.

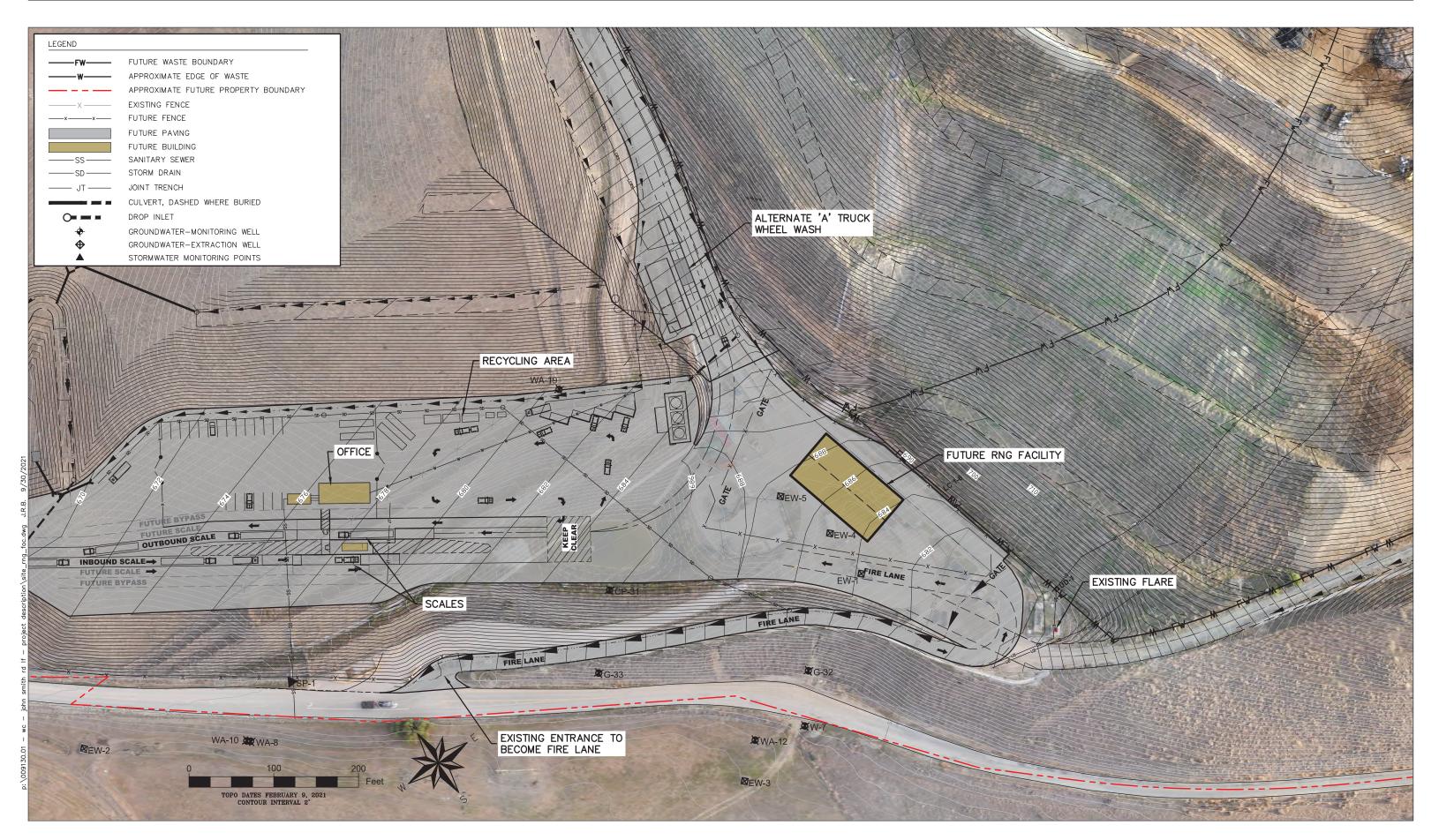
THIS SCENARIO INCLUDES THE BASELINE (EXISTING) ENTRANCE AND WESTERLY STOCKPILE DEVELOPMENT. CONSTRUCTION SOIL HAUL PATH ANTICIPATE USING THE

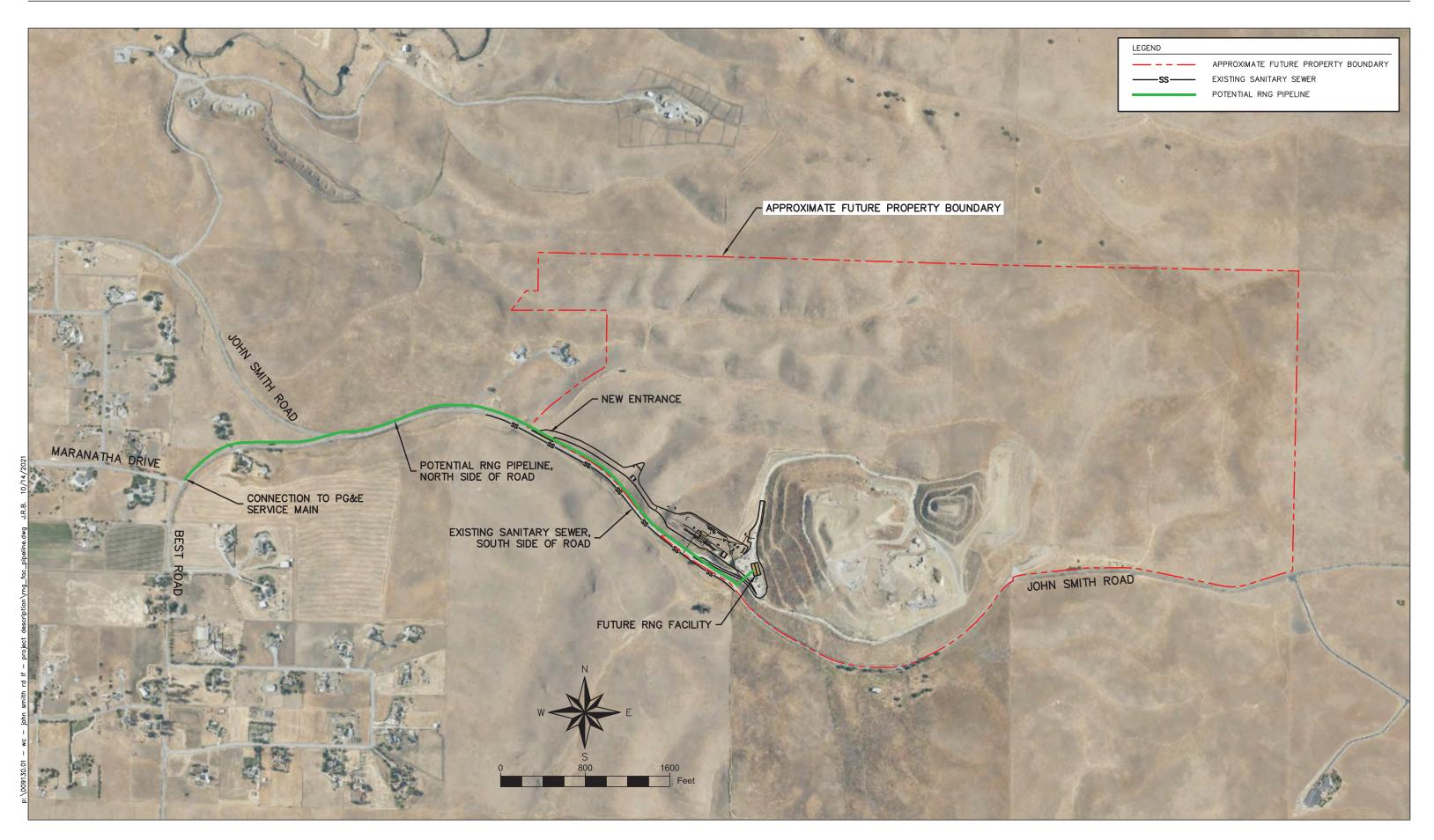
CLOSEST AVAILABLE STOCKPILE.











BIOGAS: 45-50% CH $_4$; 0-3% O $_2$; 7,000 ppmv H $_2$ S ; 5-20% N $_2$ 200,000 TONS OF WASTE PER YEAR



BIOGAS: 40-50% CH $_4$; 0-3% O $_2$; 300 ppmv H $_2$ S ; 5-20% N $_2$ 600,000 TONS OF WASTE PER YEAR

PHOTOS COURTESY OF WAGA ENERGY

Table A1
John Smith Road Landfill
Historical and Proposed Project

Projected Annual Tonnage

Historical Data Ramp Up Period

In County Only Period

| county c | iny i eriod | Metric |
|----------|-------------------|--------|
| Year | Short Tons | Tons |
| 1968 | 0 | 0 |
| 1969 | 6,993 | 6,344 |
| 1970 | 7,384 | 6,699 |
| 1971 | 7,788 | 7,065 |
| 1972 | 8,217 | 7,454 |
| 1973 | 8,690 | 7,883 |
| 1974 | 9,152 | 8,303 |
| 1975 | 9,669 | 8,772 |
| 1976 | 10,208 | 9,261 |
| 1977 | 10,769 | 9,769 |
| 1978 | 11,374 | 10,318 |
| 1979 | 12,001 | 10,887 |
| 1980 | 12,705 | 11,526 |
| 1981 | 13,310 | 12,075 |
| 1982 | 14,190 | 12,873 |
| 1983 | 14,850 | 13,472 |
| 1984 | 15,730 | 14,270 |
| 1985 | 16,610 | 15,068 |
| 1986 | 17,490 | 15,867 |
| 1987 | 18,480 | 16,765 |
| 1988 | 19,470 | 17,663 |
| 1989 | 20,680 | 18,761 |
| 1990 | 21,670 | 19,659 |
| 1991 | 22,990 | 20,856 |
| 1992 | 22,770 | 20,657 |
| 1993 | 21,230 | 19,260 |
| 1994 | 28,490 | 25,846 |
| 1995 | 31,020 | 28,141 |
| 1996 | 44,330 | 40,216 |
| 1997 | 70,620 | 64,065 |
| 1998 | 105,710 | 95,899 |
| 1999 | 82,390 | 74,743 |
| 2000 | 81,180 | 73,645 |
| 2001 | 64,350 | 58,377 |
| 2002 | 62,260 | 56,481 |
| 2003 | 60,610 | 54,984 |
| 2004 | 54,560 | 49,496 |

| | | Metric |
|--------------|--------------------|--------------------|
| Year | Short Tons | Tons |
| 2005 | 73,260 | 66,460 |
| 2006 | 73,260 | 66,460 |
| 2007 | 89,425 | 81,125 |
| 2008 | 115,926 | 105,166 |
| 2009 | 113,664 | 103,114 |
| 2010 | 85,133 | 77,232 |
| 2011 | 83,984 | 76,189 |
| 2012 | 90,210 | 81,837 |
| 2013 | 116,961 | 106,105 |
| 2014 | 128,968 | 116,998 |
| 2015 | 234,289 | 212,543 |
| 2016 | 315,121 | 285,873 |
| 2017 | 308,406 | 279,781 |
| 2018 | 290,641 | 263,665 |
| 2019 | 307,622 | 279,070 |
| 2020 | 303,000 | 274,877 |
| 2021 | 333,203 | 302,277 |
| 2022 | 362,081 | 328,474 |
| 2023 | 390,958 | 354,671 |
| 2024 | 419,836 | 380,869 |
| 2025 | 448,713 | 407,066 |
| 2026 | 477,591 | 433,263 |
| 2027 | 506,469 | 459,461 |
| 2028 | 535,346 | 485,658 |
| 2029 | 564,224 | 511,855 |
| 2030 | 593,101 | 538,053 |
| 2031 2032 | 621,979 650,857 | 564,250 500 447 |
| 2032 | 679,734 | 590,447 616,645 |
| 2034 | 708,612 | 642,842 |
| 2035 | 737,489 | 669,039 |
| 2036 | 766,367 | 695,237 |
| 2037 | 766,367 | 695,237 |
| 2038 | 766,367 | 695,237 |
| 2039 | 766,367 | 695,237 |
| 2040 | 766,367 | 695,237 |
| 2041 | 766,367 | 695,237 |
| 2042 | 766,367 | 695,237 |
| 2043 | 766,367 | 695,237 |
| 2044 | 766,367 | 695,237 |
| 2045 | 766,367 | 695,237 |
| 2046 | 766,367 | 695,237 |
| 2047 | 766,367 | 695,237 |
| 2048 | 766,367 | 695,237 |
| 2049 | 766,367 | 695,237 |

| | | Metric |
|------|------------|---------|
| Vear | Short Tons | Tons |
| 2050 | 766,367 | 695,237 |
| 2051 | 766,367 | 695,237 |
| 2052 | 766,367 | 695,237 |
| 2053 | 766,367 | 695,237 |
| 2054 | 766,367 | 695,237 |
| 2055 | 766,367 | 695,237 |
| 2056 | 766,367 | 695,237 |
| 2057 | 766,367 | 695,237 |
| 2058 | 766,367 | 695,237 |
| 2059 | 766,367 | 695,237 |
| 2060 | 766,367 | 695,237 |
| 2061 | 766,367 | 695,237 |
| 2062 | 766,367 | 695,237 |
| 2063 | 766,367 | 695,237 |
| 2064 | 766,367 | 695,237 |
| 2065 | 766,367 | 695,237 |
| 2066 | 766,367 | 695,237 |
| 2067 | 766,367 | 695,237 |
| 2068 | 766,367 | 695,237 |
| 2069 | 766,367 | 695,237 |
| 2070 | 536,457 | 486,666 |
| 2071 | 86,815 | 78,757 |
| 2072 | 87,035 | 78,957 |
| 2073 | 87,256 | 79,157 |
| 2074 | 87,478 | 79,359 |
| 2075 | 87,700 | 79,560 |
| 2076 | 87,923 | 79,762 |
| 2077 | 88,146 | 79,965 |
| 2078 | 88,370 | 80,168 |
| 2079 | 88,594 | 80,372 |
| 2080 | 88,819 | 80,576 |
| 2081 | 89,045 | 80,780 |
| 2082 | 89,271 | 80,985 |
| 2083 | 89,498 | 81,191 |
| 2084 | 89,725 | 81,397 |
| 2085 | 89,953 | 81,604 |
| 2086 | 90,182 | 81,811 |

Table A2 Projected Total LFG Generation Rate John Smith Road Landfill Proposed Project Assuming Ramp-Up to 98%

LFG Generation Assuming Existing Lo = 60 m3/Mg and From CEC Consultants 9/29/2021

80% Collection Efficiency (current)

Transition from 80% to 98% Collection Efficiency

98% Collection Efficiency

| Year | Collected LFG | Fugitive CO2 | Fugitive Methane | Fugitive LFG | Total LFG |
|------|------------------|-----------------|---------------------|-----------------|-----------|
| | cfm | cfm | cfm | cfm | cfm |
| 2021 | 360 | 45 | 41 | 86 | 446 |
| 2022 | 396 | 50 | 45 | 94 | 490 |
| 2023 | 425 | 53 | 48 | 101 | 526 |
| 2024 | 455 | 57 | 51 | 108 | 563 |
| 2025 | 486 | 61 | 55 | 115 | 601 |
| 2026 | 519 | 65 | 58 | 123 | 642 |
| 2027 | 554 | 69 | 62 | 132 | 686 |
| 2028 | 590 | 74 | 66 | 140 | 730 |
| 2029 | 668 | 59 | 53 | 112 | 780 |
| 2030 | 751 | 42 | 38 | 79 | 830 |
| 2031 | 797 | 44 | 40 | 84 | 881 |
| 2032 | 844 | 47 | 42 | 89 | 933 |
| 2033 | 894 | 50 | 45 | 94 | 988 |
| 2034 | 965 | 42 | 38 | 80 | 1045 |
| 2035 | 1,052 | 28 | 25 | 53 | 1105 |
| 2036 | 1,108 | 29 | 26 | 55 | 1163 |
| 2037 | 1,203 | 12 | 11 | 23 | 1226 |
| 2038 | 1,252 | 13 | 11 | 24 | 1276 |
| 2039 | 1,300 | 13 | 12 | 25 | 1325 |
| 2040 | 1,347 | 14 | 12 | 26 | 1373 |
| 2041 | 1,393 | 14 | 13 | 27 | 1420 |
| 2042 | 1,438 | 15 | 13 | 28 | 1466 |
| 2043 | 1,483 | 15 | 14 | 29 | 1512 |
| 2044 | 1,526 | 16 | 14 | 30 | 1556 |
| 2045 | 1,568 | 16 | 14 | 30 | 1598 |
| 2046 | 1,610 | 16 | 15 | 31 | 1641 |
| 2047 | 1,651 | 17 | 15 | 32 | 1683 |
| 2048 | 1,691 | 17 | 16 | 33 | 1724 |
| 2049 | 1,730 | 18 | 16 | 34 | 1764 |

| _ | | <u> </u> | | | 1 |
|------|------------------|-----------------|---------------------|-----------------|-----------|
| Year | Collected LFG | Fugitive CO2 | Fugitive Methane | Fugitive LFG | Total LFG |
| | cfm | cfm | cfm | cfm | cfm |
| 2050 | 1,769 | 18 | 16 | 34 | 1803 |
| 2051 | 1,807 | 18 | 17 | 35 | 1842 |
| 2052 | 1,844 | 19 | 17 | 36 | 1880 |
| 2053 | 1,880 | 19 | 17 | 36 | 1916 |
| 2054 | 1,915 | 20 | 18 | 37 | 1952 |
| 2055 | 1,950 | 20 | 18 | 38 | 1988 |
| 2056 | 1,984 | 20 | 18 | 38 | 2022 |
| 2057 | 2,018 | 21 | 19 | 39 | 2057 |
| 2058 | 2,050 | 21 | 19 | 40 | 2090 |
| 2059 | 2,083 | 21 | 19 | 40 | 2123 |
| 2060 | 2,114 | 22 | 19 | 41 | 2155 |
| 2061 | 2,145 | 22 | 20 | 42 | 2187 |
| 2062 | 2,175 | 22 | 20 | 42 | 2217 |
| 2063 | 2,205 | 22 | 20 | 43 | 2248 |
| 2064 | 2,234 | 23 | 21 | 43 | 2277 |
| 2065 | 2,263 | 23 | 21 | 44 | 2307 |
| 2066 | 2,290 | 23 | 21 | 44 | 2334 |
| 2067 | 2,318 | 24 | 21 | 45 | 2363 |
| 2068 | 2,345 | 24 | 22 | 45 | 2390 |
| 2069 | 2,371 | 24 | 22 | 46 | 2417 |
| 2070 | 2,397 | 24 | 22 | 46 | 2443 |
| 2071 | 2,400 | 24 | 22 | 47 | 2447 |
| 2072 | 2,361 | 24 | 22 | 46 | 2407 |
| 2073 | 2,322 | 24 | 21 | 45 | 2367 |
| 2074 | 2,285 | 23 | 21 | 44 | 2329 |
| 2075 | 2,248 | 23 | 21 | 44 | 2292 |
| 2076 | 2,212 | 23 | 20 | 43 | 2255 |
| 2077 | 2,176 | 22 | 20 | 42 | 2218 |
| 2078 | 2,141 | 22 | 20 | 42 | 2183 |
| 2079 | 2,107 | 22 | 19 | 41 | 2148 |
| 2080 | 2,074 | 21 | 19 | 40 | 2114 |
| 2081 | 2,041 | 21 | 19 | 40 | 2081 |
| 2082 | 2,010 | 21 | 18 | 39 | 2049 |
| 2083 | 1,978 | 20 | 18 | 38 | 2016 |
| 2084 | 1,948 | 20 | 18 | 38 | 1986 |
| 2085 | 1,917 | 20 | 18 | 37 | 1954 |
| 2086 | 1,888 | 19 | 17 | 37 | 1925 |
| 2087 | 1,859 | 19 | 17 | 36 | 1895 |
| 2088 | 1,831 | 19 | 17 | 35 | 1866 |

| | ı | | | | |
|--------------|------------------|-----------------|---------------------|-----------------|--------------|
| Year | Collected LFG | Fugitive CO2 | Fugitive Methane | Fugitive LFG | Total LFG |
| | cfm | cfm | cfm | cfm | cfm |
| 2089 | 1,795 | 18 | 16 | 35 | 1830 |
| 2090 | 1,759 | 18 | 16 | 34 | 1793 |
| 2091 | 1,724 | 18 | 16 | 33 | 1757 |
| 2092 | 1,690 | 17 | 16 | 33 | 1723 |
| 2093 | 1,657 | 17 | 15 | 32 | 1689 |
| 2094 | 1,624 | 17 | 15 | 31 | 1655 |
| 2095 | 1,592 | 16 | 15 | 31 | 1623 |
| 2096 | 1,560 | 16 | 14 | 30 | 1590 |
| 2097 | 1,529 | 16 | 14 | 30 | 1559 |
| 2098 | 1,499 | 15 | 14 | 29 | 1528 |
| 2099 | 1,469 | 15 | 13 | 28 | 1497 |
| 2100 | 1,440 | 15 | 13 | 28 | 1468 |
| 2101 | 1,412 | 14 | 13 | 27 | 1439 |
| 2102 | 1,384 | 14 | 13 | 27 | 1411 |
| 2103 | 1,356 | 14 | 12 | 26 | 1382 |
| 2104 | 1,330 | 14 | 12 | 26 | 1356 |
| 2105 | 1,303 | 13 | 12 | 25 | 1328 |
| 2106 | 1,277 | 13 | 12 | 25 | 1302 |
| 2107 | 1,252 | 13 | 11 | 24 | 1276 |
| 2108 | 1,227 | 13 | 11 | 24 | 1251 |
| 2109 | 1,203 | 12 | 11 | 23 | 1226 |
| 2110 | 1,179 | 12 | 11 | 23 | 1202 |
| 2111 | 1,156 | 12 | 11 | 22 | 1178 |
| 2112 | 1,133 | 12 | 10 | 22 | 1155 |
| 2113 2114 | 1,111 | 11 11 | 10 10 | 22 21 | 1133 |
| 2114 | 1,089 1,067 | 11 | 10 | 21 | 1110 1088 |
| 2116 | 1,046 | 11 | 10 | 20 | 1066 |
| 2117 | 1,025 | 10 | 9 | 20 | 1045 |
| 2117 | 1,005 | 10 | 9 | 19 | 1024 |
| 2119 | 985 | 10 | 9 | 19 | 1004 |
| 2120 | 965 | 10 | 9 | 19 | 984 |
| 2121 | 946 | 10 | 9 | 18 | 964 |
| 2122 | 928 | 9 | 9 | 18 | 946 |
| 2123 | 909 | 9 | 8 | 18 | 927 |
| 2124 | 891 | 9 | 8 | 17 | 908 |
| 2125 | 874 | 9 | 8 | 17 | 891 |
| 2126 | 856 | 9 | 8 | 17 | 873 |
| 2127 | 839 | 9 | 8 | 16 | 855 |
| 2128 | 823 | 8 | 8 | 16 | 839 |
| 2129 | 806 | 8 | 7 | 16 | 822 |

| Year | Collected LFG | Fugitive CO2 | Fugitive Methane | Fugitive LFG | Total LFG |
|------|------------------|-----------------|---------------------|-----------------|-----------|
| | cfm | cfm | cfm | cfm | cfm |
| 2130 | 790 | 8 | 7 | 15 | 805 |
| 2131 | 775 | 8 | 7 | 15 | 790 |
| 2132 | 759 | 8 | 7 | 15 | 774 |
| 2133 | 744 | 8 | 7 | 14 | 758 |
| 2134 | 730 | 7 | 7 | 14 | 744 |
| 2135 | 715 | 7 | 7 | 14 | 729 |
| 2136 | 701 | 7 | 6 | 14 | 715 |
| 2137 | 687 | 7 | 6 | 13 | 700 |
| 2138 | 674 | 7 | 6 | 13 | 687 |
| 2139 | 660 | 7 | 6 | 13 | 673 |
| 2140 | 647 | 7 | 6 | 13 | 660 |
| 2141 | 634 | 6 | 6 | 12 | 646 |
| 2142 | 622 | 6 | 6 | 12 | 634 |
| 2143 | 609 | 6 | 6 | 12 | 621 |
| 2144 | 597 | 6 | 5 | 12 | 609 |
| 2145 | 586 | 6 | 5 | 11 | 597 |
| 2146 | 574 | 6 | 5 | 11 | 585 |
| 2147 | 563 | 6 | 5 | 11 | 574 |
| 2148 | 551 | 6 | 5 | 11 | 562 |
| 2149 | 541 | 6 | 5 | 10 | 551 |
| 2150 | 530 | 5 | 5 | 10 | 540 |
| 2151 | 519 | 5 | 5 | 10 | 529 |
| 2152 | 509 | 5 | 5 | 10 | 519 |
| 2153 | 499 | 5 | 5 | 10 | 509 |
| 2154 | 489 | 5 | 4 | 9 | 498 |
| 2155 | 479 | 5 | 4 | 9 | 488 |
| 2156 | 470 | 5 | 4 | 9 | 479 |
| 2157 | 461 | 5 | 4 | 9 | 470 |
| 2158 | 452 | 5 | 4 | 9 | 461 |
| 2159 | 443 | 5 | 4 | 9 | 452 |
| 2160 | 434 | 4 | 4 | 8 | 442 |
| 2161 | 425 | 4 | 4 | 8 | 433 |

Table A3 Projected Total LFG Generation Rate John Smith Road Landfill Proposed Project Assuming Ramp-Up to 95% Collection Eff.

LFG Generation Assuming Existing Lo = 60 m3/Mg and From CEC Consultants 6/29/2022

80% Collection Efficiency (current)

Transition from 80% to 95% Collection Efficiency

95% Collection Efficiency

| Year | Collected LFG | Fugitive CO2 | Fugitive Methane | Fugitive LFG | Total LFG |
|------|------------------|-----------------|---------------------|-----------------|-----------|
| | cfm | cfm | cfm | cfm | cfm |
| 2021 | 360 | 45 | 41 | 86 | 446 |
| 2022 | 396 | 50 | 45 | 94 | 490 |
| 2023 | 425 | 53 | 48 | 101 | 526 |
| 2024 | 455 | 57 | 51 | 108 | 563 |
| 2025 | 486 | 61 | 55 | 115 | 601 |
| 2026 | 519 | 65 | 58 | 123 | 642 |
| 2027 | 554 | 69 | 62 | 132 | 686 |
| 2028 | 590 | 74 | 66 | 140 | 730 |
| 2029 | 668 | 59 | 53 | 112 | 780 |
| 2030 | 709 | 63 | 56 | 119 | 828 |
| 2031 | 753 | 66 | 60 | 126 | 879 |
| 2032 | 844 | 47 | 42 | 89 | 933 |
| 2033 | 894 | 50 | 45 | 94 | 988 |
| 2034 | 944 | 52 | 47 | 100 | 1,044 |
| 2035 | 1,052 | 28 | 25 | 53 | 1,105 |
| 2036 | 1,108 | 29 | 26 | 55 | 1,163 |
| 2037 | 1,166 | 31 | 28 | 58 | 1,224 |
| 2038 | 1,214 | 32 | 29 | 61 | 1,275 |
| 2039 | 1,260 | 33 | 30 | 63 | 1,323 |
| 2040 | 1,306 | 34 | 31 | 65 | 1,371 |
| 2041 | 1,351 | 36 | 32 | 68 | 1,419 |
| 2042 | 1,394 | 37 | 33 | 70 | 1,464 |
| 2043 | 1,437 | 38 | 34 | 72 | 1,509 |
| 2044 | 1,479 | 39 | 35 | 74 | 1,553 |
| 2045 | 1,520 | 40 | 36 | 76 | 1,596 |
| 2046 | 1,561 | 41 | 37 | 78 | 1,639 |
| 2047 | 1,600 | 42 | 38 | 80 | 1,680 |
| 2048 | 1,639 | 43 | 39 | 82 | 1,721 |
| 2049 | 1,677 | 44 | 40 | 84 | 1,761 |

| Year | Collected LFG | Fugitive CO2 | Fugitive Methane | Fugitive LFG | Total LFG |
|------|------------------|-----------------|---------------------|-----------------|-----------|
| | cfm | cfm | cfm | cfm | cfm |
| 2050 | 1,715 | 45 | 41 | 86 | 1,801 |
| 2051 | 1,751 | 46 | 41 | 88 | 1,839 |
| 2052 | 1,787 | 47 | 42 | 89 | 1,876 |
| 2053 | 1,822 | 48 | 43 | 91 | 1,913 |
| 2054 | 1,857 | 49 | 44 | 93 | 1,950 |
| 2055 | 1,890 | 50 | 45 | 95 | 1,985 |
| 2056 | 1,923 | 51 | 46 | 96 | 2,019 |
| 2057 | 1,956 | 51 | 46 | 98 | 2,054 |
| 2058 | 1,988 | 52 | 47 | 99 | 2,087 |
| 2059 | 2,019 | 53 | 48 | 101 | 2,120 |
| 2060 | 2,049 | 54 | 49 | 102 | 2,151 |
| 2061 | 2,079 | 55 | 49 | 104 | 2,183 |
| 2062 | 2,109 | 55 | 50 | 105 | 2,214 |
| 2063 | 2,137 | 56 | 52 | 107 | 2,244 |
| 2064 | 2,166 | 57 | 51 | 108 | 2,274 |
| 2065 | 2,193 | 58 | 52 | 110 | 2,303 |
| 2066 | 2,220 | 58 | 53 | 111 | 2,331 |
| 2067 | 2,247 | 59 | 53 | 112 | 2,359 |
| 2068 | 2,273 | 60 | 54 | 114 | 2,387 |
| 2069 | 2,298 | 60 | 54 | 115 | 2,413 |
| 2070 | 2,323 | 61 | 55 | 116 | 2,439 |
| 2071 | 2,327 | 61 | 55 | 116 | 2,443 |
| 2072 | 2,289 | 60 | 54 | 114 | 2,403 |
| 2073 | 2,251 | 59 | 53 | 113 | 2,364 |
| 2074 | 2,215 | 58 | 52 | 111 | 2,326 |
| 2075 | 2,179 | 57 | 52 | 109 | 2,288 |
| 2076 | 2,144 | 56 | 51 | 107 | 2,251 |
| 2077 | 2,110 | 56 | 50 | 105 | 2,215 |
| 2078 | 2,076 | 55 | 49 | 104 | 2,180 |
| 2079 | 2,043 | 54 | 48 | 102 | 2,145 |
| 2080 | 2,011 | 53 | 48 | 101 | 2,112 |
| 2081 | 1,979 | 52 | 47 | 99 | 2,078 |
| 2082 | 1,948 | 51 | 46 | 97 | 2,045 |
| 2083 | 1,918 | 50 | 45 | 96 | 2,014 |
| 2084 | 1,888 | 50 | 45 | 94 | 1,982 |
| 2085 | 1,859 | 49 | 44 | 93 | 1,952 |
| 2086 | 1,830 | 48 | 43 | 92 | 1,922 |
| 2087 | 1,802 | 47 | 43 | 90 | 1,892 |
| 2088 | 1,775 | 47 | 42 | 89 | 1,864 |

| Year | Collected LFG | Fugitive CO2 | Fugitive Methane | Fugitive LFG | Total LFG |
|------|------------------|-----------------|---------------------|-----------------|------------|
| | cfm | cfm | cfm | cfm | cfm |
| 2089 | 1,740 | 46 | 41 | 87 | 1,827 |
| 2090 | 1,705 | 45 | 40 | 85 | 1,790 |
| 2091 | 1,672 | 44 | 40 | 84 | 1,756 |
| 2092 | 1,638 | 43 | 39 | 82 | 1,720 |
| 2093 | 1,606 | 42 | 38 | 80 | 1,686 |
| 2094 | 1,574 | 41 | 37 | 79 | 1,653 |
| 2095 | 1,543 | 41 | 37 | 77 | 1,620 |
| 2096 | 1,513 | 40 | 36 | 76 | 1,589 |
| 2097 | 1,483 | 39 | 35 | 74 | 1,557 |
| 2098 | 1,453 | 38 | 34 | 73 | 1,526 |
| 2099 | 1,424 | 37 | 34 | 71 | 1,495 |
| 2100 | 1,396 | 37 | 33 | 70 | 1,466 |
| 2101 | 1,369 | 36 | 32 | 68 | 1,437 |
| 2102 | 1,341 | 35 | 32 | 67 | 1,408 |
| 2103 | 1,315 | 35 | 31 | 66 | 1,381 |
| 2104 | 1,289 | 34 | 31 | 64 | 1,353 |
| 2105 | 1,263 | 33 | 30 | 63 | 1,326 |
| 2106 | 1,238 | 33 | 29 | 62 | 1,300 |
| 2107 | 1,214 | 32 | 29 | 61 | 1,275 |
| 2108 | 1,190 | 31 | 28 | 59 | 1,249 |
| 2109 | 1,059 | 28 | 25 | 53 | 1,112 |
| 2110 | 1,038 | 27 | 25 | 52 | 1,090 |
| 2111 | 1,018 | 27 | 24 | 51 | 1,069 |
| 2112 | 998 | 26 | 24 | 50 | 1,048 |
| 2113 | 978 | 26 | 23 | 49 | 1,027 |
| 2114 | 959 | 25 | 23 | 48 | 1,007 |
| 2115 | 940 | 25 | 22 | 47 | 987 |
| 2116 | 921 | 24 | 22 | 46 | 967 |
| 2117 | 903 | 24 | 21 | 45 | 948 |
| 2118 | 885 | 23 | 21 | 44 | 929 |
| 2119 | 867 | 23 | 21 | 43 | 910 |
| 2120 | 850 | 22 | 20 | 43 | 893 |
| 2121 | 833 | 22 | 20 | 42 | 875 |
| 2122 | 817 | 21 | 19 | 41 | 858 |
| 2123 | 801 | 21 | 19 | 40 | 841 |
| 2124 | 785 | 21 | 19 | 39 | 824 |
| 2125 | 769 754 | 20 | 18 | 38 | 807 |
| 2126 | 754 720 | 20 | 18 | 38 | 792 776 |
| 2127 | 739 724 | 19 | 18 | 37 | 776 760 |
| 2128 | 724 | 19 | 17 | 36 | 760 |

| Year | Collected LFG | Fugitive CO2 | Fugitive Methane | Fugitive LFG | Total LFG |
|------|------------------|-----------------|---------------------|-----------------|-----------|
| | cfm | cfm | cfm | cfm | cfm |
| 2129 | 710 | 19 | 17 | 36 | 746 |
| 2130 | 696 | 18 | 16 | 35 | 731 |
| 2131 | 682 | 18 | 16 | 34 | 716 |
| 2132 | 669 | 18 | 16 | 33 | 702 |
| 2133 | 655 | 17 | 16 | 33 | 688 |
| 2134 | 643 | 17 | 15 | 32 | 675 |
| 2135 | 630 | 17 | 15 | 31 | 661 |
| 2136 | 617 | 16 | 15 | 31 | 648 |
| 2137 | 605 | 16 | 14 | 30 | 635 |
| 2138 | 593 | 16 | 14 | 30 | 623 |
| 2139 | 581 | 15 | 14 | 29 | 610 |
| 2140 | 570 | 15 | 13 | 28 | 598 |
| 2141 | 559 | 15 | 13 | 28 | 587 |
| 2142 | 548 | 14 | 13 | 27 | 575 |
| 2143 | 537 | 14 | 13 | 27 | 564 |
| 2144 | 526 | 14 | 12 | 26 | 552 |
| 2145 | 516 | 14 | 12 | 26 | 542 |
| 2146 | 505 | 13 | 12 | 25 | 530 |
| 2147 | 495 | 13 | 12 | 25 | 520 |
| 2148 | 486 | 13 | 12 | 24 | 510 |
| 2149 | 476 | 13 | 11 | 24 | 500 |
| 2150 | 467 | 12 | 11 | 23 | 490 |
| 2151 | 457 | 12 | 11 | 23 | 480 |
| 2152 | 448 | 12 | 11 | 22 | 470 |
| 2153 | 439 | 12 | 10 | 22 | 461 |
| 2154 | 431 | 11 | 10 | 22 | 453 |
| 2155 | 422 | 11 | 10 | 21 | 443 |
| 2156 | 414 | 11 | 10 | 21 | 435 |
| 2157 | 406 | 11 | 10 | 20 | 426 |
| 2158 | 398 | 10 | 9 | 20 | 418 |
| 2159 | 390 | 10 | 9 | 19 | 409 |
| 2160 | 382 | 10 | 9 | 19 | 401 |
| 2161 | 374 | 10 | 9 | 19 | 393 |

John Smith Road Landfill Greenhouse Gas Emissions

The following analysis was prepared by Civil & Environmental Consultants, Inc. (CEC). The primary purpose of this analysis is to determine the net increase in Greenhouse Gas (GHG) emissions from a proposed landfill expansion at the John Smith Road Landfill. Data (historical and projected annual waste-disposal tonnage, current LFG flow rate, landfill-gas test data, etc.), and for this analysis was provided principally by Lawrence & Associates, Inc. The analysis utilizes existing site data (where available) and employs typical industry values where site data could not be obtained. Reductions in GHG emissions are calculated based on modern methane control methods including processing of landfill gas for beneficial use and flaring of excess gas. Applicable regulations that require landfill gas emission controls are assumed to be implemented throughout the landfill operating period (40 CFR§60 Subpart XXX). Where reported, GHG emissions are stated in terms of GHG equivalents or GHGe, referenced to a baseline carbon dioxide value of 1.0. For this analysis, methane is assigned a Global Warming Potential (GWP) value of 25 consistent with that published in 40 CFR§98 Subpart HH.

Greenhouse Gas (GHGe) emissions for the John Smith Road Landfill (JSRL) were evaluated to define the impact of a proposed landfill expansion to forward looking GHGe emissions. This evaluation necessarily includes a specific delineation of emissions that may be attributed to the existing landfill baseline as well as the emissions specifically attributed to the proposed expansion. Current GHGe emissions associated with the existing landfill are hereinafter referred to as "baseline" emissions, and may be considered as the emission profile for the existing facility in the current operating year as of the Notice of Preparation for the Draft Environmental Impact Report (DEIR) dated February 2021.

Evaluated GHGe emissions were segregated into two broad classes, namely "direct" and "indirect" emissions. Direct emissions generally include all those resulting from generation of landfill gas (LFG) attributed to biological degradation of organic materials deposited within the landfill. Typical components of direct emissions include fugitive LFG (LFG that escapes through the landfill surface), by-products of LFG combustion (typically flare operation) and various slipstreams or residuals associated with processing of LFG for beneficial use.

Indirect emissions are generally categorized as those associated with support or operation of the landfill. Typical examples are waste collection and transport, landfill construction and landfill operation. These are emissions resulting from combustion of fuels not sourced from landfill generated LFG.

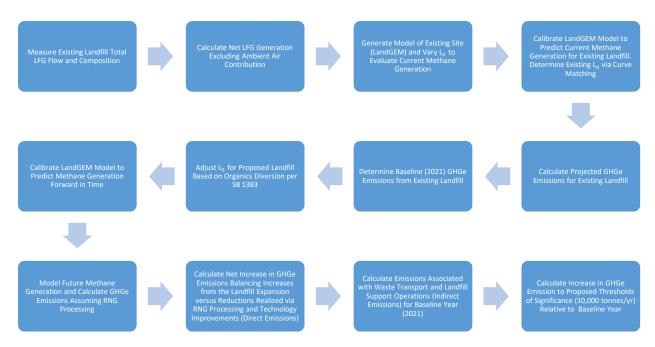
For the purposes of this analysis, operation of an LFG collection system is assumed (as required by Federal landfill regulations, namely 40 CFR§60 Subpart XXX). Furthermore, collected LFG is assumed to be processed for off-site use either as renewable natural gas (RNG), or as a compressed renewable natural gas (CRNG) to be used as vehicle fuel.

A number of critical assumptions are also required for this analysis. These include:

- LFG generated from the existing landfill as well as the proposed expansion will be gathered in a common collection system;
- LFG collection efficiency will be increased through improvements to the LFG collection system;
- Generated LFG is composed of 50% methane and 50% carbon dioxide (CO2) with trace nonmethane organic compounds (NMOC);
- The decay constant ("k") for in-place waste is assumed at 0.02 consistent with arid climates;
- The carbon dioxide component of the LFG is considered biogenic and part of the modern carbon cycle, and thus is not added to GHGe emission totals;

- The Global Warming Potential (GWP) of methane is assigned a value of 25, consistent with current GHG reporting obligations for landfills set forth in 40 CFR§98 Subpart HH;
- The forward-looking gas generating potential of waste received at the landfill will decrease, consistent with current organics diversion requirements set forth in California Senate Bill 1383. A reduction of 30% is assumed in this analysis beginning in 2022. Per 40 CFR§987 Subpart HH, Table HH-1, the estimated degradable organic content (DOC) of mixed municipal waste is 0.31 (fractionwet basis). Food waste is assigned a value of 0.15 (approximately 48% of the total DOC). Assuming SB 1383 is implemented at an effective organics diversion rate of 75%, we may expect an approximate 30% reduction in the DOC of mixed waste, which is expected to reduce L₀ by a similar percentage.

The general process through which GHGe emissions were evaluated is illustrated as follows:



LFG generation was calculated using the U.S. EPA Landfill Gas Emission Model (ver. 3.02) which is also referred to as LandGEM. LandGEM is based on a first-order decomposition rate equation for quantifying emissions from the decomposition of landfilled waste in municipal solid waste (MSW) landfills. Parameters used for this analysis included a combination of recommended LandGEM default values as well as site specific values derived from calibration of the LandGEM model to current measured conditions at the Landfill.

The most critical value associated with LandGEM is the LFG generation potential or " L_0 ". Measured in units of cubic meters per megagram of waste, this value reflects the amount of LFG that can be generated per volume unit of waste disposed in the Landfill. Indirectly, L_0 also measures bioavailable carbon present in waste that can be accessed and digested by methanogenic bacteria during the course of anaerobic digestion, which is the primary mode of waste degradation in modern landfills. It can be logically assumed, that as bioavailable carbon decreases (due to waste composition variance or regulatory policy) the value of L_0 will also decrease in response to this decrease.

The initial phase of this analysis included calibration of the LandGEM Model to currently measured LFG generation. Data from the facility reports indicate a current average (as of August 2021) total LFG flow rate of approximately 625 cubic feet per minute (cfm). Methane content within this LFG was measured at 38%. Assuming LFG is generated with a methane to carbon dioxide ratio of 1:1, this suggests 76% of

the measured flow rate is LFG, with the balance (24%) comprised ambient air drawn into the LFG collection system. Assuming 50% of the LFG is methane and 76% of the flow is LFG, the landfill produces approximately 3,250,000 cubic meters of methane per year. This volume of methane can be compared to the modeled LFG generation rate assuming various values of L_0 as shown on the following figure. Based on an evaluation of the current LFG system and waste-cover types, approximately 80% of the LFG is currently collected and flared and the remainder escapes through the landfill surface via fugitive emissions. These are current conditions and the associated direct emissions of GHGe from the "baseline" condition under California Environmental Quality Act (CEQA).

To provide a means of modeling the future LFG generation for the proposed project, the LandGEM model was evaluated at various L_0 from values ranging from 100 to 40 cubic meters per megagram to determine the L_0 that best fits the current LFG generation rate. Based on data presented above, assuming a current L_0 of 60, model data correlates very well with measured methane generation data thus suggesting an actual L_0 in this range. Graphically, the calibration data is presented as Figure 1:

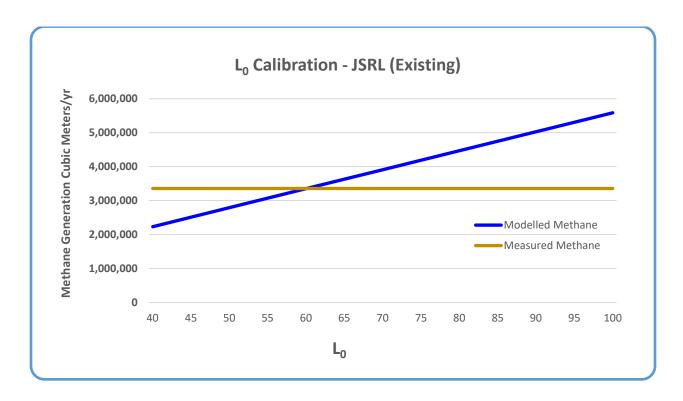


Figure 1

California Senate Bill 1383 mandates reduction in organics directed to landfills for disposal by 50% of 2014 levels by 2020 and 75% by 2025. While the actual percentage reduction may vary by region within the State, a reduction of 30% in L_0 is a reasonable assumption given the reduction of bioavailable carbon due to diversion or organics such as food wastes. Given this assumption, model data for the proposed landfill expansion assumed a reduction in L_0 to 40 cubic meters per megagram from the current calibrated value of 60 cubic meters per megagram.

Total modelled methane generation for the existing and future waste is illustrated in Figure 2. As shown, peak methane generation is generally correlated to the year of closure for a given facility, at which time

no "new" or additional carbon is admitted to the system.¹ Figure 2 also illustrates the "baseline" methane generation from the existing landfill that will also be an important in the following narrative. Numerically, this baseline methane generation is estimated (by model) for calendar year 2021 at approximately 2,230 tonnes per year.

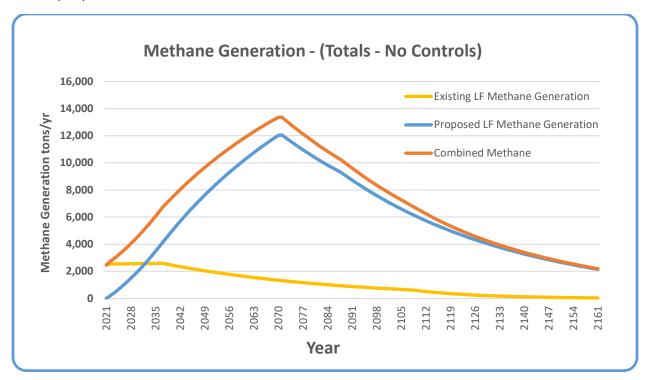


Figure 2

Modern methane or LFG control systems are quite effective and have demonstrated collection efficiencies of 75% or more. Although evaluation of methane emissions for the purposes of CEQA review are based on a "life-cycle" analysis (and include direct as well as indirect GHGe emissions), analysis of "landfill-only" emissions reveal that through application of conventional LFG controls, generated methane may be effectively captured and processed as a renewable resource. Figure 3 illustrates the impact of conventional controls. This graph illustrates the amount of methane proposed to be captured and thus made available for use as a renewable energy source.

¹ In the case of the JSRL, the waste acceptance rate would drop from an average of 2,123 tons per day to approximately 240 tons per day in approximately 2070 and the LFG generation rate would start decreasing in 2071.

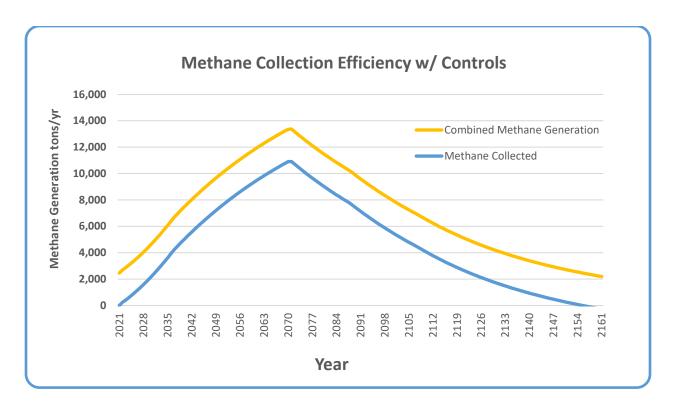


Figure 3

Proceeding to Figure 4, again looking at the landfill only, we can see that if collected methane is then processed for renewable energy use (and therefore not simply combusted as a waste gas on the landfill site), very significant reductions in site specific GHGe emission can be obtained. This use of methane as an energy source can (and often does) displace fossil fuel use for other indirect uses. Figure 4 illustrates (for the landfill only) the amount of methane generated versus the amount emitted following collection and processing of LFG for renewable energy use (note that values illustrated are "total" values, and do not discount baseline landfill emissions).

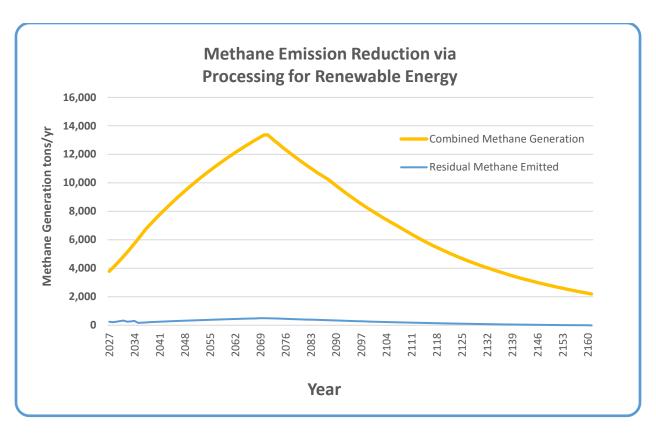


Figure 4

Proceeding to the more specific requirements of the Draft Environmental Impact Report (DEIR), we understand that the Monterey Bay Air Resources District (MBARD) does not have a GHGe threshold of significance established by regulation. Therefore, for the purposes of this analysis, the threshold established is based on operating practices, and more specifically, best operating practices to reduce sitewide GHGe emissions.

In addition, typical assessment protocol involves a life cycle analysis that not only includes emissions from the proposed source (in this case the waste disposed in the landfill), but also indirect emissions supporting that source. These may include vehicular traffic, power consumption, water consumption, waste disposal etc. etc. Finally, the prior DEIR protocol for GHGe emission analysis included establishment of a "baseline" from which emission increases (or decreases) will be quantified. As previously indicated, landfill emissions as of February 2021 have been assigned as this baseline, with future emissions compared against this value to determine "net" projected changes.

To identify the level of control realized at the landfill, both direct (landfill) and indirect (landfill support) emissions were calculated, projected into future years and summed to allow comparison with the baseline emission rate. As all future emissions are compared to a 2021 baseline, it is possible that future emissions may be either a positive value (increase) or a negative value (decrease). For example, if current use of diesel engines transforms to use of a lower carbon intensity fuel (or powerplant) in the future (a reasonable and expected assumption), indirect emissions may decrease relative to the 2021 baseline. Similarly, at the landfill, as methane collection increases from 80% (as estimated in 2021) to 95% (as projected in 2035) the increase in methane generation realized through the increase in biodegrade carbon volume (i.e., waste receipt) can be offset to some degree by increasing the amount methane collected and processed for use.

Indirect emissions for both the baseline year and future projections were obtained via data summarized in Attachment U to Appendix B of the DEIR. These data were developed by and obtained from Lawrence & Associates and added to the direct landfill emissions estimated via modeling by CEC.

The combination of direct and indirect emissions, per year, were then tabulated to calculate the potential increase in GHGe emissions relative to the established baseline. Key data used in this tabulation are presented in Table 1.

Table 1

| Value | Unit | Parameter |
|-----------|--------------------------|--|
| 80 to 95 | % | Landfill Gas Collection Efficiency Range |
| 92 | % | RNG Plant Processing Efficiency |
| 2027 | yr | RNG Plant Startup |
| 10 | % | Fugitive Methane Oxidation |
| 25 | Unit | Methane GWP |
| 117 | lb/MMBtu | CO2 Emission Rate for Methane Combustion |
| 23,811 | Btu/lb | Btu/lb Methane |
| 625 | cfm | Current Measured Total LFG Flare Flow |
| 17.698 | meters ³ /min | Current Measured Total LFG Flare Flow |
| 9,302,069 | meters ³ /yr | Current Measured Total LFG Flare Flow |
| 38 | % | Current Measured Methane Fraction |
| 3,534,786 | meters ³ /yr | Current Measured Methane Generation |
| 3,349,564 | meters ³ /yr | Modelled Current Methane Generation |
| 16.04 | MW | Molecular Weight of CH₄ |
| 44.01 | MW | Molecular Weight of CO ₂ |
| 2.744 | ratio | CH4 to CO2 MW Ratio via Combustion |
| 1,020 | Btu/scf | Methane Heat Content |

Net GHGe emissions resulting from this tabulation are presented graphically in Figure 5. As shown, the net increase in emissions is held at or below 20,000 tonnes per year. Tabulated data is presented as an Attachment. Figure 5 assumes the following control measures or best management practices (BMPs) are implemented according to the following general timeline:

- 1. Installation of an RNG facility in 2027.
- 2. Operation of the RNG facility at an average processing efficiency of 92%
- 3. On-site flaring of all RNG residuals (slipstreams, purge gases, etc.)
- 4. Operation of the landfill's gas collection and control systems to exceed applicable regulatory emission control protocol (40 CFR§60 Subpart XXX) beginning in 2029 (such as adding more wells than the rule requires, thicker cover, etc.).
- 5. Increases in LFG collection efficiency will be implemented from 80% (2021) to 95% (2035) to maximize RNG processing and methane beneficial use.
- 6. Methane generation projections will be updated at 5-year intervals to periodically assess effectiveness of BMPs and modeling assumptions.
- 7. Implementation of low emission vehicle use consistent with anticipated technology and regulatory trends (primarily beginning in 2045).

- 8. Maximization of methane collection through the expected year of peak gas yield (2071) after which the landfill accepts only in-County with an accompanying decrease in LFG generation rate.
- 9. Between 2071 and approximately 2085, reduce of out-of-County trips (reduce landfill gate receipts) thereby reducing vehicle emissions below baseline (2021) levels.
- 10. After 2085: The landfill ceases accepting waste, traffic is negligible, the landfill is closed, and the LFG generation rate continues a predicted decline.

These control efforts and/or BMPs may be implemented in any order to mitigate life-cycle GHGe emissions. Alternatively, carbon credits could be purchased to more economically address GHGe emissions either in combination with other BMPs or alone. Figure 6 illustrates the significant reduction in potential landfill GHGe emissions projected through implementation of the proposed BMPs.

Because LFG generation will vary with the rate of waste placement, and organic content, we recommended reassessing GHGe generation and updating the plan for compliance starting with approval of the expansion permit and end every five years thereafter concurrent with review of the Title V operating permit for the LFG system.

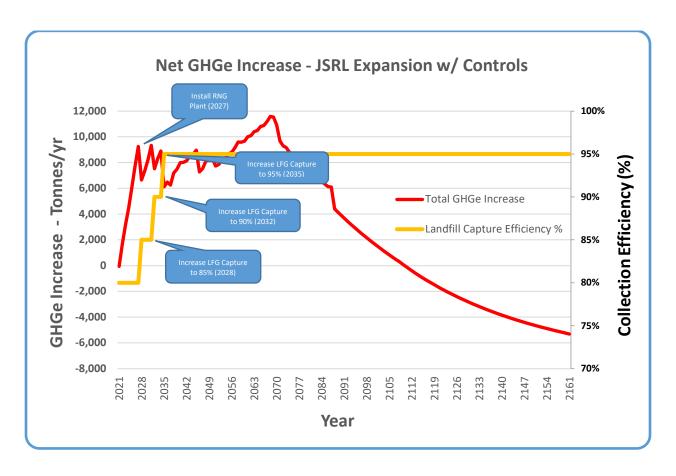


Figure 5

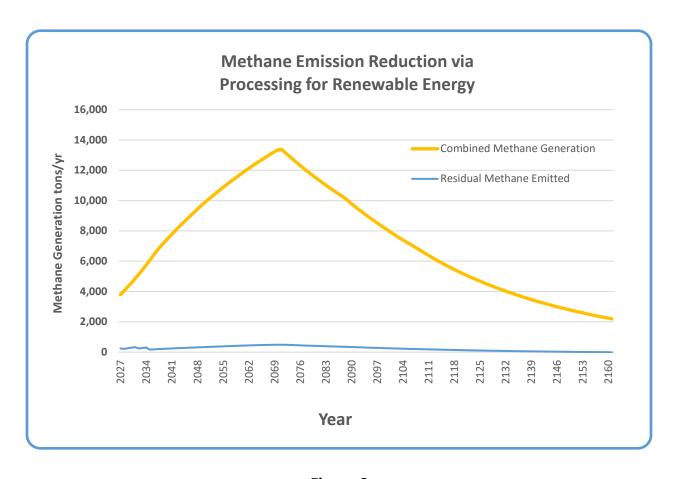


Figure 6

| | | | Landfill Methane E | | Combined Landfill | Combined | Net Methane | Landfill | | itive Emissions | Fugiitve | Net Fugitive |
|----------------------|---------------------------|---------------------------|--|----------------------|----------------------|------------------------|---------------------------|-----------------------|---------------------|-------------------------|---------------------|--------------------|
| Year | Existing Landfill Gate | Proposed Landfill Gate | Existing Landfill Methane Emissions | Methane Emissions | Methane Emissions | Landfill Methane | Increase Due to Expansion | Capture Efficiency | Fugitive Methane | Soil Cover Oxidation | Methane Oxidized | Methane Emitted |
| 2021 | Short tons/yr 151,138 | Short tons/yr 333,203 | Short tons/yr 2,458 | Short tons/yr | Tonnes/yr 2,230 | Short tons/yr 2,458 | Short tons/yr | % 80% | Short tons/yr | % 10% | Short tons/yr | Short tons/yr |
| 2022 | 69,312 69,312 | 362,080 390,958 | 2,529 2,534 | 176 364 | 2,454 2,630 | 2,706 2,899 | 247 440 | 80% 80% | 49 88 | 10% | 5 | 45 79 |
| 2024 | 69,312 | 419,835 | 2,539 | 564 | 2,815 | 3,103 | 645 | 80% | 129 | 10% | 13 | 116 |
| 2025 | 69,312 69,312 | 448,713 477,591 | 2,544 | 775 997 | 3,011 3,216 | 3,319 3,545 | 860 1,087 | 80% | 172 217 | 10% | 17 22 | 155 196 |
| 2027 2028 | 69,312 69,312 | 506,468 535,346 | 2,553 2,557 | 1,230 1,473 | 3,432 3,656 | 3,783 4,031 | 1,324 1,572 | 80% 85% | 265 236 | 10% 10% | 26 24 | 238 212 |
| 2029 2030 | 69,312 69,312 | 564,223 593,101 | 2,562 2,566 | 1,727 1,991 | 3,891 4,134 | 4,289 4,557 | 1,831 2,099 | 85% 85% | 275 315 | 10% 10% | 27 31 | 247 283 |
| 2031 | 69,312 | 621,978 | 2,570 | 2,266 | 4,387 | 4,836 5,124 | 2,378 2,666 | 85% 90% | 357 267 | 10% 10% | 36 27 | 321 240 |
| 2032 2033 | 69,312 69,312 | 650,856 679,734 | 2,574 2,578 | 2,550 2,844 | 4,649 4,919 | 5,422 | 2,964 | 90% | 296 | 10% | 30 | 267 |
| 2034 | 69,312 69,312 | 708,611 737,489 | 2,582 2,586 | 3,147 3,459 | 5,197 5,484 | 5,729 6,045 | 3,271 3,587 | 90% 95% | 327 179 | 10% 10% | 33 18 | 294 161 |
| 2036 2037 | 69,312 0 | 766,366 766,366 | 2,590 2,594 | 3,781 4,111 | 5,780 6,083 | 6,371 6,705 | 3,913 4,247 | 95% 95% | 196 212 | 10% 10% | 20 21 | 176 191 |
| 2038 | 0 | 766,366 | 2,542 | 4,435 | 6,330 6,572 | 6,978 | 4,520 | 95% | 226 | 10% | 23 | 203 |
| 2040 | 0 | 766,366 766,366 | 2,492 | 4,753 5,064 | 6,810 | 7,245 | 4,787 5,049 | 95% 95% | 239 252 | 10% | 24 25 | 215 227 |
| 2041 2042 | 0 | 766,366 766,366 | 2,394 2,347 | 5,369 5,668 | 7,043 7,271 | 7,763 8,015 | 5,305 5,557 | 95% 95% | 265 278 | 10% 10% | 27 28 | 239 250 |
| 2043 2044 | 0 | 766,366 766,366 | 2,300 2,255 | 5,961 6,249 | 7,495 7,714 | 8,262 8,504 | 5,804 6,045 | 95% 95% | 290 302 | 10% 10% | 29 30 | 261 272 |
| 2045 2046 | 0 | 766,366 766,366 | 2,210 2,166 | 6,530 6,806 | 7,929 8,140 | 8,741 8,973 | 6,282 6,515 | 95% 95% | 314 326 | 10% 10% | 31 33 | 283 293 |
| 2047 2048 | 0 | 766,366 766,366 | 2,123 2,081 | 7,077 7,342 | 8,347 8,549 | 9,201 9,424 | 6,742 6,966 | 95% 95% | 337 348 | 10% 10% | 34 35 | 303 313 |
| 2049 | 0 | 766,366 | 2,040 | 7,602 | 8,748 | 9,642 | 7,184 | 95% | 359 | 10% | 36 | 323 |
| 2050 2051 | 0 | 766,366 766,366 | 2,000 1,960 | 7,857 8,107 | 8,942 9,133 | 9,857 10,067 | 7,399 7,609 | 95% 95% | 370 380 | 10% 10% | 37 38 | 333 342 |
| 2052 | 0 | 766,366 766,366 | 1,921 1,883 | 8,352 8,592 | 9,320 9,503 | 10,273 10,475 | 7,815 8,017 | 95% 95% | 391 401 | 10% 10% | 39 40 | 352 361 |
| 2054 2055 | 0 | 766,366 766,366 | 1,846 1,810 | 8,827 9,058 | 9,682 9,858 | 10,673 10,867 | 8,215 8,409 | 95% 95% | 411 420 | 10% 10% | 41 42 | 370 378 |
| 2056 2057 | 0 | 766,366 766,366 | 1,774 1,739 | 9,284 9,505 | 10,031 10,200 | 11,057 | 8,599 | 95% | 430 | 10% | 43 | 387 |
| 2058 | 0 | 766,366 | 1,704 | 9,722 | 10,366 | 11,244 11,426 | 8,786 8,968 | 95% 95% | 439 448 | 10% 10% | 44 45 | 395 404 |
| 2059 | 0 | 766,366 766,366 | 1,670 1,637 | 9,935 | 10,528 10,688 | 11,605 11,781 | 9,147 9,323 | 95% 95% | 457 466 | 10% | 46 47 | 412 420 |
| 2061 2062 | 0 | 766,366 766,366 | 1,605 1,573 | 10,348 10,549 | 10,844 10,997 | 11,953 12,122 | 9,495 9,664 | 95% 95% | 475 483 | 10% 10% | 47 48 | 427 435 |
| 2063 2064 | 0 | 766,366 766,366 | 1,542 1,511 | 10,745 10,938 | 11,147 11,294 | 12,287 12,449 | 9,829 9,991 | 95% 95% | 491 500 | 10% 10% | 49 50 | 442 450 |
| 2065 2066 | 0 | 766,366 766,366 | 1,481 1,452 | 11,127 11,312 | 11,438 11,579 | 12,608 12,764 | 10,150 10,306 | 95% 95% | 507 515 | 10% 10% | 51 52 | 457 464 |
| 2067 | 0 | 766,366 | 1,423 | 11,493 | 11,718 | 12,916 | 10,458 | 95% | 523 | 10% | 52 | 471 |
| 2068 | 0 | 766,366 766,366 | 1,395 1,368 | 11,671 11,845 | 11,853 11,986 | 13,066 13,213 | 10,608 10,755 | 95% 95% | 530 538 | 10% | 53 54 | 477 484 |
| 2070 2071 | 0 | 536,456 86,814 | 1,341 1,314 | 12,016 12,062 | 12,117 12,134 | 13,356 13,376 | 10,898 10,918 | 95% 95% | 545 546 | 10% 10% | 54 55 | 490 491 |
| 2072 2073 | 0 | 87,035 87,256 | 1,288 1,262 | 11,869 11,680 | 11,936 11,741 | 13,157 12,942 | 10,699 10,484 | 95% 95% | 535 524 | 10% 10% | 53 52 | 481 472 |
| 2074 2075 | 0 | 87,478 87,700 | 1,237 1,213 | 11,495 11,313 | 11,550 11,364 | 12,732 12,526 | 10,274 10,068 | 95% 95% | 514 503 | 10% 10% | 51 50 | 462 453 |
| 2076 | 0 | 87,923 88,146 | 1,189 1,165 | 11,136 10,962 | 11,181 11,002 | 12,325 12,127 | 9,867 9,669 | 95% 95% | 493 483 | 10% 10% | 49 48 | 444 435 |
| 2078 | 0 | 88,370 | 1,142 | 10,791 | 10,826 | 11,934 | 9,475 | 95% | 474 | 10% | 47 | 426 |
| 2079 2080 | 0 | 88,594 88,819 | 1,120 1,098 | 10,624 10,461 | 10,654 10,486 | 11,744 11,558 | 9,286 9,100 | 95% 95% | 464 455 | 10% 10% | 46 46 | 418 410 |
| 2081 2082 | 0 | 89,045 89,271 | 1,076 1,054 | 10,301 10,144 | 10,321 10,159 | 11,376 11,198 | 8,918 8,740 | 95% 95% | 446 437 | 10% 10% | 45 44 | 401 393 |
| 2083 2084 | 0 | 89,498 89,725 | 1,034 1,013 | 9,990 9,840 | 10,001 9,846 | 11,024 10,853 | 8,566 8,395 | 95% 95% | 428 420 | 10% 10% | 43 42 | 385 378 |
| 2085 2086 | 0 | 89,953 90,182 | 993 973 | 9,692 9,548 | 9,694 9,545 | 10,685 10,521 | 8,227 8,063 | 95% 95% | 411 403 | 10% 10% | 41 40 | 370 363 |
| 2087 | 0 | 90,411 | 954 | 9,407 | 9,399 | 10,361 | 7,903 | 95% | 395 | 10% | 40 | 356 |
| 2088 2089 | 0 | 0 | 935 917 | 9,268 9,085 | 9,256 9,073 | 10,203 10,001 | 7,745 7,543 | 95% 95% | 387 377 | 10% 10% | 39 38 | 349 339 |
| 2090 2091 | 0 | 0 | 899 881 | 8,905 8,728 | 8,893 8,717 | 9,803 9,609 | 7,345 7,151 | 95% 95% | 367 358 | 10% 10% | 37 36 | 331 322 |
| 2092 2093 | 0 | 0 | 863 846 | 8,556 8,386 | 8,545 8,376 | 9,419 9,232 | 6,961 6,774 | 95% 95% | 348 339 | 10% 10% | 35 34 | 313 305 |
| 2094 2095 | 0 | 0 | 829 813 | 8,220 8,057 | 8,210 8,047 | 9,050 8,870 | 6,591 6,412 | 95% 95% | 330 321 | 10% | 33 32 | 297 289 |
| 2096 | 0 | 0 | 797 | 7,898 | 7,888 | 8,695 | 6,237 | 95% | 312 | 10% | 31 | 281 |
| 2097 2098 | 0 | 0 | 781 766 | 7,741 7,588 | 7,732 7,578 | 8,523 8,354 | 6,064 5,896 | 95% 95% | 303 295 | 10% 10% | 30 29 | 273 265 |
| 2099 2100 | 0 | 0 | 751 736 | 7,438 7,291 | 7,428 7,281 | 8,188 8,026 | 5,730 5,568 | 95% 95% | 287 278 | 10% 10% | 29 28 | 258 251 |
| 2101 2102 | 0 | 0 | 721 707 | 7,146 7,005 | 7,137 6,996 | 7,867 7,712 | 5,409 5,253 | 95% 95% | 270 263 | 10% 10% | 27 26 | 243 236 |
| 2103 2104 | 0 | 0 | 693 679 | 6,866 6,730 | 6,857 6,722 | 7,559 7,409 | 5,101 4,951 | 95% 95% | 255 248 | 10% 10% | 26 25 | 230 223 |
| 2105 2106 | 0 | 0 | 666 652 | 6,597 6,466 | 6,588 6,458 | 7,262 7,119 | 4,804 4,661 | 95% 95% | 240 233 | 10% 10% | 24 23 | 216 210 |
| 2107 2108 | 0 | 0 | 640 627 | 6,338 6,213 | 6,330 6,205 | 6,978 6,840 | 4,520 4,381 | 95% 95% | 226 219 | 10% | 23 | 203 197 |
| 2109 | 0 | 0 | 596 | 6,090 | 6,065 | 6,685 | 4,227 | 95% | 211 | 10% | 21 | 190 |
| 2110 | 0 | 0 | 566 537 | 5,969 5,851 | 5,928 5,795 | 6,535 6,388 | 4,077 3,930 | 95% 95% | 204 197 | 10% | 20 | 183 177 |
| 2112 2113 | 0 | 0 | 511 485 | 5,735 5,621 | 5,666 5,540 | 6,246 6,107 | 3,787 3,648 | 95% 95% | 189 182 | 10% 10% | 19 18 | 170 164 |
| 2114 2115 | 0 | 0 | 461 438 | 5,510 5,401 | 5,417 5,297 | 5,971 5,839 | 3,513 3,381 | 95% 95% | 176 169 | 10% 10% | 18 17 | 158 152 |
| 2116 2117 | 0 | 0 | 416 395 | 5,294 5,189 | 5,180 5,066 | 5,710 5,584 | 3,252 3,126 | 95% 95% | 163 156 | 10% 10% | 16 16 | 146 141 |
| 2118 2119 | 0 | 0 | 375 357 | 5,086 4,986 | 4,955 4,846 | 5,462 5,342 | 3,004 2,884 | 95% 95% | 150 150 144 | 10% | 15 14 | 135 |
| 2120 2121 | 0 | 0 | 339 322 | 4,887 4,790 | 4,741 4,638 | 5,226 5,112 | 2,768 2,654 | 95% 95% | 138 133 | 10% | 14 14 13 | 125 119 |
| 2122 | 0 | 0 | 306 | 4,695 | 4,537 | 5,001 | 2,543 | 95% | 127 | 10% | 13 | 114 |
| 2123 | 0 | 0 | 290 276 | 4,602 4,511 | 4,439 4,343 | 4,893 4,787 | 2,435 2,329 | 95% 95% | 122 116 | 10% | 12 12 | 110 105 |
| 2125 2126 | 0 | 0 | 262 249 | 4,422 4,334 | 4,249 4,158 | 4,684 4,583 | 2,226 2,125 | 95% 95% | 111 106 | 10% 10% | 11 11 | 100 96 |
| 2127 2128 | 0 | 0 | 237 225 | 4,249 4,164 | 4,069 3,982 | 4,485 4,389 | 2,027 1,931 | 95% 95% | 101 97 | 10% 10% | 10 10 | 91 87 |
| 2129 2130 | 0 | 0 | 214 203 | 4,082 4,001 | 3,897 3,814 | 4,295 4,204 | 1,837 1,746 | 95% 95% | 92 87 | 10% | 9 | 83 79 |
| 2131 2132 | 0 | 0 | 193 183 | 3,922 3,844 | 3,733 3,654 | 4,115 | 1,656 | 95% | 83 | 10% | 8 | 75 71 |
| 2133 | 0 | 0 | 174 | 3,768 | 3,576 | 4,027 3,942 | 1,569 1,484 | 95% 95% | 78 74 | 10% | 8 7 | 67 |
| 2134 2135 | 0 | 0 | 165 157 | 3,694 3,620 | 3,501 3,427 | 3,859 3,777 | 1,401 1,319 | 95% 95% | 70 66 | 10% 10% | 7 | 63 59 |
| 2136 2137 | 0 | 0 | 149 142 | 3,549 3,478 | 3,355 3,284 | 3,698 3,620 | 1,240 1,162 | 95% 95% | 62 58 | 10% 10% | 6 | 56 52 |
| 2138 2139 | 0 | 0 | 135 128 | 3,410 3,342 | 3,215 3,148 | 3,544 3,470 | 1,086 1,012 | 95% 95% | 54 51 | 10% 10% | 5 | 49 46 |
| 2140 2141 | 0 | 0 | 121 115 | 3,276 3,211 | 3,082 3,018 | 3,397 3,326 | 939 | 95% 95% | 47 43 | 10% | 5 | 42 39 |
| 2142 | 0 | 0 | 110 | 3,147 | 2,955 | 3,257 | 799 | 95% | 40 | 10% | 4 | 36 |
| 2143 | 0 | 0 | 104 99 | 3,085 3,024 | 2,893 2,833 | 3,189 3,123 | 731 665 | 95% 95% | 37 33 | 10% | 3 | 33 |
| 2145 2146 | 0 | 0 | 94 89 | 2,964 2,905 | 2,774 2,717 | 3,058 2,995 | 600 537 | 95% 95% | 30 27 | 10% 10% | 3 | 27 24 |
| 2147 2148 | 0 | 0 | 85 81 | 2,848 2,792 | 2,661 2,606 | 2,933 2,872 | 475 414 | 95% 95% | 24 21 | 10% 10% | 2 2 | 21 19 |
| 2149 2150 | 0 | 0 | 77 73 | 2,736 2,682 | 2,552 2,499 | 2,813 2,755 | 355 297 | 95% 95% | 18 15 | 10% | 2 | 16 13 |
| 2151 | 0 | 0 | 69 | 2,629 | 2,448 | 2,698 | 240 | 95% | 12 | 10% | 1 | 11 |
| 2152 2153 | 0 | 0 | 66 62 | 2,577 2,526 | 2,397 2,348 | 2,643 2,588 | 184 130 | 95% 95% | 9 7 | 10% 10% | 1 | 8 |
| 2154 2155 | 0 | 0 | 59 56 | 2,476 2,427 | 2,300 2,253 | 2,535 2,483 | 77 25 | 95% 95% | 4 | 10% 10% | 0 | 3 |
| 2156 | 0 | 0 | 53 51 | 2,379 2,332 | 2,206 2,161 | 2,432 2,382 | -26 -76 | 95% 95% | -1 -4 | 10% 10% | 0 | -1 -3 |
| 2157 | | 0 | 48 | 2,285 | 2,117 | 2,334 | -124 | 95% | -6 | 10% | -1 | -5 -6 |
| 2157 2158 2159 | 0 | 0 | 46 | 2,240 | 2,074 | 2,286 | -172 | 95% | -9 | 10% | -1 | -8 |

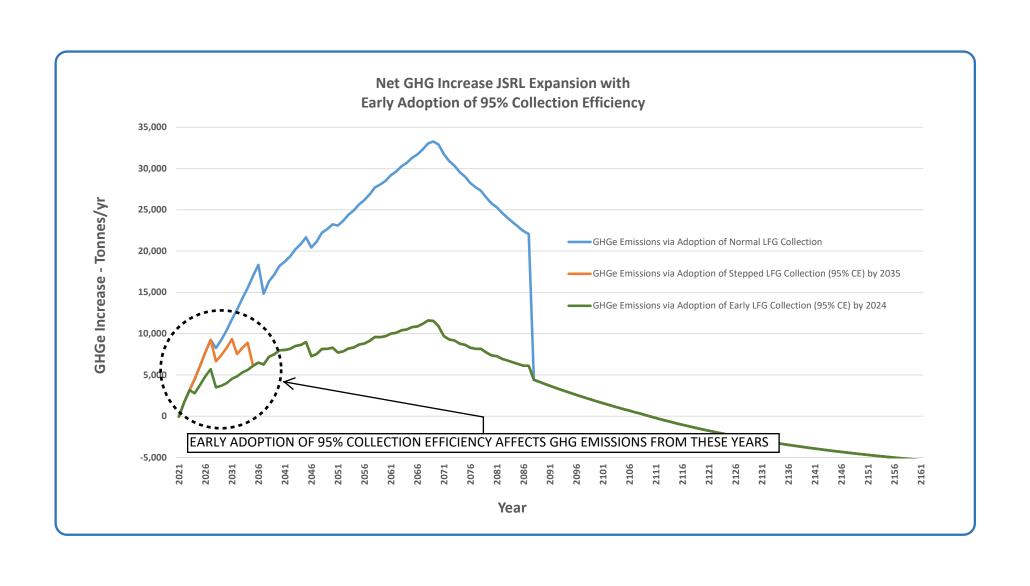
| | Landfill | Soil Cover | Generated Methane (Existing | Air Toxics Emiss | Collected | Collected LFG | Fugitive CO2 | Fugitive Methane | Fugitive LFG |
|----------------------|-----------------------|-------------------|--------------------------------------|--------------------------|--------------------------------------|-------------------|-----------------|---------------------|-----------------|
| Year | Capture Efficiency | Oxidation | Methane (Existing Landfill) | (Proposed Landfill) | Methane (Total) | (Total) | (Total) | (Total) | (Total) |
| 2021 | 80% | 10% | meters ³ /yr 3,349,564 | meters³/yr 0 | meters ³ /yr 2,679,651 | cfm 360 | cfm 45 | cfm 41 | cfm 86 |
| 2022 | 80% | 10% | 3,446,642 3,453,331 | 240,162 496,383 | 2,949,443 3,159,771 | 396 425 | 50 53 | 45 48 | 94 101 |
| 2024 2025 | 80% 80% | 10% 10% | 3,459,887 3,466,313 | 768,344 1,055,734 | 3,382,584 3,617,638 | 455 486 | 57 61 | 51 55 | 108 115 |
| 2026 2027 | 80% 80% | 10% 10% | 3,472,613 3,478,787 | 1,358,247 1,675,584 | 3,864,688 4,123,497 | 519 554 | 65 69 | 58 62 | 123 132 |
| 2028 2029 | 85% 85% | 10% 10% | 3,484,839 3,490,772 | 2,007,451 2,353,562 | 4,668,447 4,967,683 | 627 668 | 55 59 | 50 53 | 105 112 |
| 2030 2031 | 85% 85% | 10% 10% | 3,496,586 3,502,286 | 2,713,632 3,087,387 | 5,278,686 5,601,222 | 709 753 | 63 66 | 56 60 | 119 126 |
| 2032 | 90% 90% | 10% 10% | 3,507,873 3,513,349 | 3,474,555 3,874,871 | 6,284,185 6,649,398 | 844 894 | 47 50 | 42 45 | 89 94 |
| 2034 | 90% | 10% | 3,518,717 | 4,288,074 | 7,026,112 | 944 | 52 | 47 | 100 |
| 2035 2036 | 95% 95% | 10% 10% | 3,523,979 3,529,136 | 4,713,909 5,152,126 | 7,825,993 8,247,199 | 1,052 1,108 | 28 29 | 25 26 | 53 55 |
| 2037 2038 | 95% 95% | 10% 10% | 3,534,191 3,464,210 | 5,602,480 6,043,916 | 8,679,837 9,032,719 | 1,166 1,214 | 31 32 | 28 29 | 58 61 |
| 2039 2040 | 95% 95% | 10% 10% | 3,395,614 3,328,376 | 6,476,611 6,900,738 | 9,378,613 9,717,658 | 1,260 1,306 | 33 34 | 30 31 | 63 65 |
| 2041 2042 | 95% 95% | 10% 10% | 3,262,470 3,197,869 | 7,316,467 7,723,964 | 10,049,990 10,375,741 | 1,351 1,394 | 36 37 | 32 33 | 68 70 |
| 2043 2044 | 95% 95% | 10% 10% | 3,134,546 3,072,478 | 8,123,392 8,514,910 | 10,695,041 11,008,019 | 1,437 1,479 | 38 39 | 34 35 | 72 74 |
| 2045 2046 | 95% 95% | 10% 10% | 3,011,639 2,952,005 | 8,898,676 9,274,843 | 11,314,800 11,615,506 | 1,520 1,561 | 40 41 | 36 37 | 76 78 |
| 2047 2048 | 95% 95% | 10% 10% | 2,893,551 2,836,255 | 9,643,562 10,004,979 | 11,910,257 12,199,172 | 1,600 1,639 | 42 43 | 38 39 | 80 82 |
| 2049 2050 | 95% 95% | 10% | 2,780,093 2,725,044 | 10,359,240 10,706,486 | 12,482,367 12,759,953 | 1,677 1,715 | 44 | 40 41 | 84 86 |
| 2051 2052 | 95% 95% | 10% | 2,671,084 | 11,046,856 | 13,032,043 | 1,751 | 46 47 | 41 42 | 88 89 |
| 2053 | 95% | 10% | 2,618,193 2,566,350 | 11,380,486 11,707,510 | 13,298,746 13,560,167 | 1,787 1,822 | 48 | 43 | 91 |
| 2054 | 95% 95% | 10% | 2,515,532 2,465,722 | 12,028,059 12,342,260 | 13,816,411 14,067,582 | 1,857 1,890 | 49 50 | 44 | 93 95 |
| 2056 | 95% 95% | 10% | 2,416,897 2,369,039 | 12,650,239 12,952,120 | 14,313,779 14,555,102 | 1,923 1,956 | 51 51 | 46 46 | 96 98 |
| 2058 | 95% 95% | 10% | 2,322,129 2,276,148 | 13,248,024 13,538,068 | 14,791,645 15,023,505 | 1,988 2,019 | 52 53 | 47 | 99 101 |
| 2060 2061 | 95% 95% | 10% | 2,231,077 2,186,899 | 13,822,369 14,101,040 | 15,250,774 15,473,542 | 2,049 2,079 | 54 55 | 49 49 | 102 104 |
| 2062 2063 | 95% 95% | 10% 10% | 2,143,595 2,101,149 | 14,374,194 14,641,938 | 15,691,900 15,905,933 | 2,109 2,137 | 55 56 | 50 51 | 105 107 |
| 2064 2065 | 95% 95% | 10% 10% | 2,059,544 2,018,762 | 14,904,381 15,161,627 | 16,115,729 16,321,370 | 2,166 2,193 | 57 58 | 51 52 | 108 110 |
| 2066 2067 | 95% 95% | 10% 10% | 1,978,788 1,939,605 | 15,413,780 15,660,939 | 16,522,939 16,720,517 | 2,220 2,247 | 58 59 | 53 53 | 111 112 |
| 2068 2069 | 95% 95% | 10% | 1,901,199 1,863,552 | 15,903,204 16,140,672 | 16,914,183 17,104,013 | 2,273 | 60 60 | 54 54 | 114 115 |
| 2070 2071 | 95% 95% | 10% | 1,826,651 1,790,481 | 16,373,438 16,435,883 | 17,290,085 17,315,046 | 2,323 2,327 | 61 61 | 55 55 | 116 116 |
| 2072 | 95% 95% | 10% | 1,755,027 1,720,276 | 16,173,004 15,915,489 | 17,031,630 16,753,977 | 2,289 2,251 | 60 59 | 54 53 | 114 113 |
| 2074 2075 | 95% 95% | 10% | 1,686,212 1,652,823 | 15,663,233 15,416,131 | 16,481,972 16,215,506 | 2,215 2,179 | 58 57 | 52 52 | 111 109 |
| 2076 | 95% | 10% | 1,620,095 | 15,174,083 | 15,954,468 | 2,144 | 56 | 51 | 107 |
| 2077 | 95% 95% | 10% | 1,588,015 1,556,570 | 14,936,988 14,704,748 | 15,698,752 15,448,252 | 2,110 2,076 | 56 55 | 50 49 | 105 104 |
| 2079 2080 | 95% 95% | 10% 10% | 1,525,748 1,495,536 | 14,477,269 14,254,456 | 15,202,866 14,962,492 | 2,043 2,011 | 54 53 | 48 48 | 102 101 |
| 2081 2082 | 95% 95% | 10% 10% | 1,465,922 1,436,895 | 14,036,217 13,822,462 | 14,727,032 14,496,389 | 1,979 1,948 | 52 51 | 47 46 | 99 97 |
| 2083 2084 | 95% 95% | 10% 10% | 1,408,443 1,380,553 | 13,613,103 13,408,052 | 14,270,468 14,049,176 | 1,918 1,888 | 50 50 | 45 45 | 96 94 |
| 2085 2086 | 95% 95% | 10% 10% | 1,353,217 1,326,421 | 13,207,226 13,010,541 | 13,832,421 13,620,114 | 1,859 1,830 | 49 48 | 44 | 93 92 |
| 2087 2088 | 95% 95% | 10% 10% | 1,300,156 1,274,411 | 12,817,915 12,629,269 | 13,412,168 13,208,496 | 1,802 1,775 | 47 47 | 43 42 | 90 89 |
| 2089 2090 | 95% 95% | 10% 10% | 1,249,176 1,224,441 | 12,379,192 12,134,068 | 12,946,950 12,690,584 | 1,740 1,705 | 46 45 | 41 | 87 85 |
| 2091 2092 | 95% 95% | 10% | 1,200,196 1,176,430 | 11,893,797 11,658,284 | 12,439,293 12,192,979 | 1,672 1,638 | 44 | 40 | 84 82 |
| 2093 2094 | 95% 95% | 10% | 1,153,135 1,130,302 | 11,427,435 11,201,156 | 11,951,541 11,714,885 | 1,606 1,574 | 42 | 38 37 | 80 79 |
| 2095 2096 | 95% 95% | 10% | 1,107,920 | 10,979,359 | 11,482,915 | 1,543 | 41 40 | 37 | 77 |
| 2097 | 95% | 10% | 1,085,982 1,064,478 | 10,761,953 10,548,852 | 11,255,538 | 1,513 1,483 | 39 | 36 35 | 76 74 |
| 2098 | 95% 95% | 10% | 1,043,400 1,022,739 | 10,339,971 10,135,225 | 10,814,202 10,600,066 | 1,453 1,424 | 38 37 | 34 | 73 71 |
| 2100 2101 | 95% 95% | 10% 10% | 1,002,488 982,637 | 9,934,535 9,737,818 | 10,390,171 10,184,432 | 1,396 1,369 | 37 36 | 33 32 | 70 68 |
| 2102 2103 | 95% 95% | 10% 10% | 963,179 944,107 | 9,544,996 9,355,992 | 9,982,767 9,785,095 | 1,341 1,315 | 35 35 | 32 31 | 67 66 |
| 2104 2105 | 95% 95% | 10% 10% | 925,413 907,088 | 9,170,731 8,989,139 | 9,591,337 9,401,416 | 1,289 1,263 | 34 33 | 31 30 | 64 63 |
| 2106 2107 | 95% 95% | 10% 10% | 889,127 871,521 | 8,811,142 8,636,669 | 9,215,255 9,032,781 | 1,238 1,214 | 33 32 | 29 29 | 62 61 |
| 2108 2109 | 95% 95% | 10% 10% | 854,264 0 | 8,465,652 8,298,021 | 8,853,920 7,883,120 | 1,190 1,059 | 31 28 | 28 25 | 59 53 |
| 2110 2111 | 95% 95% | 10% 10% | 0 | 8,133,709 7,972,651 | 7,727,023 7,574,018 | 1,038 1,018 | 27 27 | 25 24 | 52 51 |
| 2112 2113 | 95% 95% | 10% 10% | 0 | 7,814,782 7,660,039 | 7,424,043 7,277,037 | 998 978 | 26 26 | 24 23 | 50 49 |
| 2114 2115 | 95% 95% | 10% | 0 | 7,508,360 7,359,684 | 7,132,942 6,991,700 | 959 940 | 25 25 | 23 | 48 |
| 2116 2117 | 95% 95% | 10% | 0 | 7,213,953 7,071,107 | 6,853,255 6,717,552 | 921 903 | 24 | 22 | 46 45 |
| 2118 2119 | 95% 95% | 10% | 0 | 6,931,090 6,793,845 | 6,584,535 6,454,153 | 885 867 | 23 | 21 21 | 44 |
| 2120 2121 | 95% 95% | 10% | 0 | 6,659,318 6,527,454 | 6,326,352 6,201,082 | 850 833 | 22 | 20 20 | 43 42 |
| 2121 2122 2123 | 95% 95% 95% | 10% 10% 10% | 0 | 6,398,202 | 6,078,292 5,957,934 | 817 801 | 21 21 | 19 19 | 42 41 40 |
| 2124 | 95% | 10% | 0 | 6,271,509 6,147,325 | 5,839,959 | 785 | 21 | 19 | 39 |
| 2125 2126 | 95% 95% | 10% 10% | 0 | 6,025,600 5,906,285 | 5,724,320 5,610,971 | 769 754 | 20 | 18 18 | 38 38 |
| 2127 | 95% 95% | 10% | 0 | 5,789,333 5,674,696 | 5,499,866 5,390,961 | 739 724 | 19 19 | 18 17 | 37 36 |
| 2129 2130 | 95% 95% | 10% | 0 | 5,562,330 5,452,188 | 5,284,213 5,179,579 | 710 696 | 19 | 17 16 | 36 35 |
| 2131 2132 | 95% 95% | 10% | 0 | 5,344,228 5,238,405 | 5,077,016 4,976,485 | 682 669 | 18 18 | 16 16 | 34 33 |
| 2133 2134 | 95% 95% | 10% 10% | 0 | 5,134,677 5,033,004 | 4,877,944 4,781,354 | 655 643 | 17 17 | 16 15 | 33 32 |
| 2135 2136 | 95% 95% | 10% 10% | 0 | 4,933,344 4,835,657 | 4,686,677 4,593,874 | 630 617 | 17 16 | 15 15 | 31 31 |
| 2137 2138 | 95% 95% | 10% 10% | 0 | 4,739,905 4,646,048 | 4,502,909 4,413,746 | 605 593 | 16 16 | 14 14 | 30 30 |
| 2139 2140 | 95% 95% | 10% 10% | 0 | 4,554,050 4,463,874 | 4,326,348 4,240,680 | 581 570 | 15 15 | 14 13 | 29 28 |
| 2141 2142 | 95% 95% | 10% | 0 | 4,375,483 4,288,843 | 4,156,709 4,074,401 | 559 548 | 15 14 | 13 | 28 |
| 2143 2144 | 95% 95% | 10% | 0 | 4,203,918 4,120,675 | 3,993,722 3,914,641 | 537 526 | 14 | 13 | 27 26 |
| 2144 2145 2146 | 95% 95% 95% | 10% 10% 10% | 0 | 4,039,080 | 3,914,641 3,837,126 3,761,146 | 526 516 505 | 14 14 13 | 12 12 12 | 26 26 25 |
| 2147 | 95% | 10% | 0 | 3,959,101 3,880,706 | 3,686,670 | 495 | 13 | 12 | 25 |
| 2148 | 95% 95% | 10% | 0 | 3,803,863 3,728,541 | 3,613,669 3,542,114 | 486 476 | 13 | 12 11 | 24 |
| 2150 2151 | 95% 95% | 10% | 0 | 3,654,711 3,582,343 | 3,471,975 3,403,226 | 467 457 | 12 | 11 11 | 23 |
| 2152 2153 | 95% 95% | 10% 10% | 0 | 3,511,408 3,441,877 | 3,335,837 3,269,783 | 448 439 | 12 12 | 11 10 | 22 22 |
| 2154 2155 | 95% 95% | 10% 10% | 0 | 3,373,723 3,306,919 | 3,205,037 3,141,573 | 431 422 | 11 11 | 10 10 | 22 21 |
| 2156 2157 | 95% 95% | 10% | 0 | 3,241,438 3,177,253 | 3,079,366 3,018,390 | 414 406 | 11 11 | 10 10 | 21 |
| 2158 2159 | 95% 95% | 10% | 0 | 3,114,339 3,052,671 | 2,958,622 2,900,038 | 398 390 | 10 | 9 | 20 19 |
| 2160 | 95% 95% | 10% | 0 | 2,992,224 2,932,974 | 2,842,613 2,786,326 | 382 374 | 10 10 | 9 | 19 19 |

| | Collected | Collected | Collected | GHGe RNG Plant | Gas Processing Pl Methane | ant Emissions RNG Plant | RNG Plant | RNG Plant | Landfill | |
|----------------------|-------------------------|-------------------------|-------------------------|----------------------------|---------------------------|--------------------------|----------------------------|-------------------------|----------------------------|----------------------------|
| Year | Methane to RNG Plant | Methane to RNG Plant | Methane to RNG Plant | Methane Processing Eff. | Diverted by RNG Plant | Methane Combusted | Power Consumed | Supplied Power | Baseline Supplied Power | RNG Plant CO2 Emissions |
| 2021 | % 0% | Short tons/yr | cfm 0 | % 92% | Short tons/yr | Short tons/yr | Mwh/yr 0 | tonnes/yr 0.00 | tonnes/yr 0.53 | Short tons/yr |
| 2022 2023 | 0% 0% | 0 | 0 | 92% 92% | 0 | 0 | 0 | 0.00 | 0.53 0.53 | 0 |
| 2024 2025 | 0% 0% | 0 | 0 | 92% 92% | 0 | 0 | 0 | 0.00 | 0.53 0.53 | 0 |
| 2026 2027 | 0% 0% | 0 | 0 | 92% 92% | 0 | 0 | 0 | 0.00 | 0.53 0.53 | 0 |
| 2028 | 100% | 1,337 | 627 | 92% | 1,230 | 107 | 3,708 | 4.51 | 0.53 | 293 |
| 2029 | 100% | 1,556 | 668 | 92% | 1,432 | 124 | 3,945 | 4.80 | 0.53 | 342 |
| 2030 | 100% | 1,784 | 709 | 92% | 1,642 | 143 | 4,192 | 5.10 | 0.53 | 392 |
| 2031 | 100% | 2,021 | 753 | 92% | 1,859 | 162 | 4,448 | 5.41 | 0.53 | 444 |
| 2032 | 100% | 2,399 | 844 | 92% | 2,207 | 192 | 4,991 | 6.07 | 0.53 | 527 |
| 2033 | 100% | 2,667 | 894 | 92% | 2,454 | 213 | 5,281 | 6.42 | 0.53 | 586 |
| 2034 | 100% | 2,944 | 944 | 92% | 2,708 | 236 | 5,580 | 6.78 | 0.53 | 646 |
| 2035 | 100% | 3,408 | 1,052 | 92% | 3,135 | 273 | 6,215 | 7.56 | 0.53 | 748 |
| 2036 | 100% | 3,717 | 1,108 | 92% | 3,420 | 297 | 6,550 | 7.96 | 0.53 | 816 |
| 2037 | 100% | 4,035 | 1,166 | 92% | 3,712 | 323 | 6,893 | 8.38 | 0.53 | 886 |
| 2038 | 100% | 4,294 | 1,214 | 92% | 3,950 | 343 | 7,174 | 8.72 | 0.53 | 942 |
| 2039 | 100% | 4,547 | 1,260 | 92% | 4,184 | 364 | 7,448 | 9.05 | 0.53 | 998 |
| 2040 | 100% | 4,796 | 1,306 | 92% | 4,413 | 384 | 7,718 | 9.38 | 0.53 | 1,053 |
| 2041 | 100% | 5,040 | 1,351 | 92% | 4,637 | 403 | 7,982 | 9.70 | 0.53 | 1,106 |
| 2042 | 100% | 5,279 | 1,394 | 92% | 4,857 | 422 | 8,240 | 10.02 | 0.53 | 1,159 |
| 2043 | 100% | 5,513 | 1,437 | 92% | 5,072 | 441 | 8,494 | 10.33 | 0.53 | 1,210 |
| 2044 | 100% | 5,743 5,968 | 1,479 1,520 | 92% | 5,284 5,491 | 459 477 | 8,742 8,986 | 10.63 | 0.53 | 1,261 |
| 2046 | 100% | 6,189 6,405 | 1,561 1,600 | 92% 92% | 5,694 5,893 | 495 512 | 9,225 9,459 | 11.21 11.50 | 0.53 | 1,358 |
| 2048 | 100% 100% | 6,617 6,825 | 1,639 1,677 | 92% 92% | 6,088 6,279 | 529 546 | 9,688 9,913 | 11.78 12.05 | 0.53 | 1,453 1,498 |
| 2050 2051 2052 | 100% 100% | 7,029 7,229 | 1,715 1,751 | 92% 92% 92% | 6,467 6,650 | 562 578 594 | 10,134 | 12.32 12.58 | 0.53 | 1,543 1,587 |
| 2053 2054 | 100% 100% 100% | 7,424 7,616 7,804 | 1,787 1,822 1,857 | 92% 92% | 6,830 7,007 7,180 | 609 624 | 10,562 10,769 10,973 | 12.84 13.09 13.34 | 0.53 0.53 0.53 | 1,630 1,672 1,713 |
| 2055 2056 | 100% | 7,988 8,169 | 1,890 1,923 | 92% 92% | 7,349 7,516 | 639 654 | 11,172 11,368 | 13.58 13.82 | 0.53 0.53 | 1,713 1,753 1,793 |
| 2057 | 100% | 8,346 | 1,956 | 92% | 7,679 | 668 | 11,559 | 14.05 | 0.53 | 1,832 |
| 2058 | 100% | 8,520 | 1,988 | 92% | 7,838 | 682 | 11,747 | 14.28 | 0.53 | 1,870 |
| 2059 | 100% | 8,690 | 2,019 | 92% | 7,995 | 695 | 11,931 | 14.50 | 0.53 | 1,907 |
| 2060 | | 8,857 | 2,049 | 92% | 8,148 | 709 | 12,112 | 14.72 | 0.53 | 1,944 |
| 2061 | 100% | 9,020 | 2,079 | 92% | 8,299 | 722 | 12,289 | 14.94 | 0.53 | 1,980 |
| 2062 | 100% | 9,180 | 2,109 | 92% | 8,446 | 734 | 12,462 | 15.15 | 0.53 | 2,015 |
| 2063 | 100% | 9,338 | 2,137 | 92% | 8,591 | 747 | 12,632 | 15.36 | 0.53 | 2,050 |
| 2064 | 100% | 9,492 | 2,166 | 92% | 8,732 | 759 | 12,799 | 15.56 | 0.53 | 2,083 |
| 2065 | 100% | 9,642 | 2,193 | 92% | 8,871 | 771 | 12,962 | 15.76 | 0.53 | 2,117 |
| 2066 | 100% | 9,790 | 2,220 | 92% | 9,007 | 783 | 13,122 | 15.95 | 0.53 | 2,149 |
| 2067 | 100% | 9,935 | 2,247 | 92% | 9,141 | 795 | 13,279 | 16.14 | 0.53 | 2,181 |
| 2068 | 100% | 10,077 | 2,273 | 92% | 9,271 | 806 | 13,433 | 16.33 | 0.53 | 2,212 |
| 2069 | 100% | 10,217 | 2,298 | 92% | 9,399 | 817 | 13,584 | 16.51 | 0.53 | 2,243 |
| 2070 | 100% | 10,353 | 2,323 | 92% | 9,525 | 828 | 13,732 | 16.69 | 0.53 | 2,273 |
| 2071 | 100% | 10,372 10,164 | 2,327 2,289 | 92% 92% | 9,542 9,351 | 830 813 | 13,751 13,526 | 16.72 16.44 | 0.53 | 2,277 |
| 2073 | 100% | 9,960 9,760 | 2,251 2,215 | 92% 92% | 9,163 8,979 | 797 781 | 13,306 13,090 | 16.17 15.91 | 0.53 | 2,186 2,142 |
| 2075 2076 2077 | 100% 100% 100% | 9,565 9,373 | 2,179 2,144 | 92% 92% 92% | 8,800 8,623 | 765 750 735 | 12,878 12,671 12,468 | 15.66 15.40 | 0.53 0.53 0.53 | 2,099 2,057 |
| 2077 2078 2079 | 100% | 9,186 9,002 8,822 | 2,110 2,076 2,043 | 92% 92% 92% | 8,451 8,282 8,116 | 720 706 | 12,269 12,074 | 15.16 14.91 14.68 | 0.53 0.53 | 2,016 1,976 1,936 |
| 2080 2081 | 100% | 8,645 8,472 | 2,043 2,011 1,979 | 92% 92% | 7,954 7,795 | 692 678 | 11,883 11,696 | 14.45 14.22 | 0.53 0.53 | 1,898 1,860 |
| 2082 | 100% | 8,303 | 1,948 | 92% | 7,639 | 664 | 11,513 | 14.00 | 0.53 | 1,823 |
| | 100% | 8,137 | 1,918 | 92% | 7,486 | 651 | 11,333 | 13.78 | 0.53 | 1,786 |
| 2084 | 100% | 7,975 7,816 | 1,888 1,859 | 92% 92% | 7,337 7,191 | 638 625 | 11,158 10,986 | 13.56 13.35 | 0.53 0.53 | 1,751 1,716 |
| 2086 | 100% | 7,660 | 1,830 | 92% | 7,047 | 613 | 10,817 | 13.15 | 0.53 | 1,681 |
| 2087 | 100% | 7,507 | 1,802 | 92% | 6,907 | 601 | 10,652 | 12.95 | 0.53 | 1,648 |
| 2088 | 100% | 7,358 | 1,775 | 92% | 6,769 | 589 | 10,490 | 12.75 | 0.53 | 1,615 |
| 2089 | 100% | 7,166 | 1,740 | 92% | 6,593 | 573 | 10,282 | 12.50 | 0.53 | 1,573 |
| 2090 | 100% | 6,978 | 1,705 | 92% | 6,420 | 558 | 10,079 | 12.25 | 0.53 | 1,532 |
| 2091 | 100% | 6,794 | 1,672 | 92% | 6,250 | 543 | 9,879 | 12.01 | 0.53 | 1,491 |
| 2092 | 100% | 6,613 | 1,638 | 92% | 6,084 | 529 | 9,684 | 11.77 | 0.53 | 1,452 |
| 2093 | 100% | 6,436 | 1,606 | 92% | 5,921 | 515 | 9,492 | 11.54 | 0.53 | 1,413 |
| 2094 | 100% | 6,262 | 1,574 | 92% | 5,761 | 501 | 9,304 | 11.31 | 0.53 | 1,374 |
| 2095 | 100% | 6,092 | 1,543 | 92% | 5,604 | 487 | 9,120 | 11.09 | 0.53 | 1,337 |
| 2096 | 100% | 5,925 | 1,513 | 92% | 5,451 | 474 | 8,939 | 10.87 | 0.53 | 1,301 |
| 2097 | 100% | 5,761 | 1,483 | 92% | 5,300 | 461 | 8,762 | 10.65 | 0.53 | 1,265 |
| 2098 | 100% | 5,601 5,444 | 1,453 1,424 | 92% 92% | 5,153 5,008 | 448 | 8,589 8,418 | 10.44 | 0.53 | 1,229 1,195 |
| 2100 | 100% 100% | 5,290 5,139 | 1,396 1,369 | 92% 92% | 4,867 4,728 | 423 411 | 8,252 8,088 | 10.03 9.83 | 0.53 | 1,161 1,128 |
| 2102 2103 2104 | 100% 100% 100% | 4,991 4,846 4,704 | 1,341 1,315 | 92% 92% 92% | 4,592 4,458 | 399 388 376 | 7,928 7,771 | 9.64 9.45 9.26 | 0.53 | 1,095 1,064 |
| 2104 2105 2106 | 100% | 4,704 4,564 4,428 | 1,289 1,263 1,238 | 92% 92% 92% | 4,327 4,199 4,073 | 365 354 | 7,617 7,466 7,319 | 9.26 9.08 8.90 | 0.53 0.53 0.53 | 1,032 1,002 972 |
| 2107 | 100% | 4,294 | 1,214 | 92% | 3,950 | 343 | 7,174 | 8.72 | 0.53 | 942 |
| 2108 | | 4,162 | 1,190 | 92% | 3,829 | 333 | 7,032 | 8.55 | 0.53 | 914 |
| 2109 | 100% | 4,016 | 1,059 | 92% | 3,694 | 321 | 6,261 | 7.61 | 0.53 | 881 |
| 2110 | 100% | 3,873 | 1,038 | 92% | 3,563 | 310 | 6,137 | 7.46 | 0.53 | 850 |
| 2111 | 100% | 3,734 3,598 | 1,018 998 | 92% 92% | 3,435 3,310 | 299 288 | 6,015 5,896 | 7.31 7.17 | 0.53 | 820 790 |
| 2113 | 100% | 3,466 | 978 | 92% | 3,189 | 277 | 5,779 | 7.03 | 0.53 | 761 |
| 2114 | 100% | 3,337 | 959 | 92% | 3,070 | 267 | 5,665 | 6.89 | 0.53 | 733 |
| 2115 | 100% | 3,212 | 940 | 92% | 2,955 | 257 | 5,553 | 6.75 | 0.53 | 705 |
| 2116 | 100% | 3,089 | 921 | 92% | 2,842 | 247 | 5,443 | 6.62 | 0.53 | 678 |
| 2117 | 100% | 2,970 | 903 | 92% | 2,732 | 238 | 5,335 | 6.49 | 0.53 | 652 |
| 2118 | 100% | 2,854 | 885 | 92% | 2,625 | 228 | 5,229 | 6.36 | 0.53 | 626 |
| 2119 | 100% | 2,740 | 867 | 92% | 2,521 | 219 | 5,126 | 6.23 | 0.53 | 601 |
| 2120 | 100% | 2,629 | 850 | 92% | 2,419 | 210 | 5,024 | 6.11 | 0.53 | 577 |
| 2121 | 100% | 2,521 | 833 | 92% | 2,320 | 202 | 4,925 | 5.99 | 0.53 | 553 |
| 2122 | | 2,416 | 817 | 92% | 2,223 | 193 | 4,827 | 5.87 | 0.53 | 530 |
| 2123 | 100% | 2,313 | 801 | 92% | 2,128 | 185 | 4,732 | 5.75 | 0.53 | 508 |
| 2124 | | 2,213 | 785 | 92% | 2,036 | 177 | 4,638 | 5.64 | 0.53 | 486 |
| 2125 | 100% | 2,115 | 769 | 92% | 1,945 | 169 | 4,546 | 5.53 | 0.53 | 464 |
| 2126 | 100% | 2,019 | 754 | 92% | 1,858 | 162 | 4,456 | 5.42 | | 443 |
| 2127 | 100% | 1,926 | 739 | 92% | 1,772 | 154 | 4,368 | 5.31 | 0.53 | 423 |
| 2128 | 100% | 1,835 | 724 | 92% | 1,688 | 147 | 4,281 | 5.20 | | 403 |
| 2129 | 100% | 1,746 | 710 | 92% | 1,606 | 140 | 4,197 | 5.10 | 0.53 | 383 |
| 2130 | 100% | 1,659 | 696 | 92% | 1,526 | 133 | 4,114 | 5.00 | 0.53 | 364 |
| 2131 2132 2133 | 100% 100% | 1,574 1,491 | 682 669 | 92% 92% | 1,448 1,371 | 126 119 | 4,032 3,952 3,874 | 4.90 4.80 | 0.53 0.53 | 345 327 309 |
| 2134 2135 | 100% 100% 100% | 1,410 1,331 1,253 | 655 643 630 | 92% 92% 92% | 1,297 1,224 1,153 | 113 106 100 | 3,874 3,797 3,722 | 4.71 4.62 4.52 | 0.53 0.53 0.53 | 309 292 275 |
| 2136 2137 | 100% | 1,253 1,178 1,104 | 617 | 92% 92% 92% | 1,083 1,016 | 94 | 3,648 3,576 | 4.44 4.35 | 0.53 0.53 | 259 242 |
| 2138 2139 | 100% | 1,104 1,032 961 | 593 581 | 92% 92% | 949 884 | 83 77 | 3,505 3,436 | 4.26 4.18 | 0.53 0.53 | 226 211 |
| 2140 | 100% | 892 | 570 | 92% | 821 | 71 | 3,368 | 4.09 | 0.53 | 196 |
| 2141 | | 825 | 559 | 92% | 759 | 66 | 3,301 | 4.01 | 0.53 | 181 |
| 2142 | 100% | 759 | 548 | 92% | 698 | 61 | 3,236 | 3.93 | 0.53 | 167 |
| 2143 | | 695 | 537 | 92% | 639 | 56 | 3,172 | 3.86 | 0.53 | 152 |
| 2144 | 100% | 632 | 526 | 92% | 581 | 51 | 3,109 | 3.78 | 0.53 | 139 |
| 2145 | 100% | 570 | 516 | 92% | 524 | 46 | 3,047 | 3.70 | 0.53 | 125 |
| 2146 | 100% | 510 | 505 | 92% | 469 | 41 | 2,987 | 3.63 | 0.53 | 112 |
| 2147 | 100% | 451 | 495 | 92% | 415 | 36 | 2,928 | 3.56 | 0.53 | 99 |
| 2148 | 100% | 393 | 486 | 92% | 362 | 31 | 2,870 | 3.49 | 0.53 | 86 |
| 2149 | 100% | 337 | 476 | 92% | 310 | 27 | 2,813 | 3.42 | 0.53 | 74 |
| 2150 | 100% | 282 | 467 | 92% | 259 | 23 | 2,757 | 3.35 | 0.53 | 62 |
| 2151 | 100% | 228 | 457 | 92% | 210 | 18 | 2,703 | 3.29 | 0.53 | 50 |
| 2152 | 100% | 175 | 448 | 92% | 161 | 14 | 2,649 | 3.22 | 0.53 | 38 |
| 2153 | | 124 | 439 | 92% | 114 | 10 | 2,597 | 3.16 | 0.53 | 27 |
| 2154 2155 | 100% | 73 24 | 431 422 | 92% 92% | 67 22 | 6 2 | 2,545 2,495 | 3.09 | 0.53 0.53 | 16 |
| 2156 | 100% | -25 | 414 | 92% | (23) | -2 | 2,446 | 2.97 | 0.53 | -5 |
| 2157 | 100% | -72 | 406 | 92% | (66) | -6 | 2,397 | 2.91 | 0.53 | -16 |
| 2158 2159 | 100% | -118 -163 | 398 390 | 92% 92% | (109) (150) | -9 -13 | 2,350 2,303 | 2.86 | 0.53 0.53 | -26 -36 |
| 2160 | 100% | -208 | 382 | 92% | (191) | -17 | 2,258 | 2.74 | 0.53 | -46 |
| 2161 | 100% | -251 | 374 | 92% | (231) | -20 | 2,213 | 2.69 | 0.53 | -55 |

| GHO | Ge Landfill Flare E | | | | RNG | Landfill Flare | GHGe La | ndfill (Direct) Emiss | sions Flare Methane | | l | |
|----------------------|--------------------------------|-------------------------|----------------|----------------------------|-------------------------|-------------------------|----------------------------|-----------------------------|-----------------------------|-------------------------------------|-------------------------------------|----------------------------------|
| Year | Combusted in Landfill Flare | CO2 Emissions | Methane GWP | Fugitive LFG CO2e | Combustion CO2 | Combustion CO2 | Methane No Mitigation | Emissions No Mitigation' | Emissions No Mitigation' | Net No Mitigation GHGe Emissions | Net No Mitigation GHGe Emissions | Direct Landfill GHGe Increase |
| 2021 | Short tons/yr | Short tons/yr | Unit 25 | GHGe tons/yr | GHGe tons/yr | GHGe tons/yr | GHGe tons/yr | GHGe tons/yr | GHGe tons/yr | GHGe tons/yr | GHGe tonnes/yr | tons/yr |
| 2022 2023 2024 | 198 352 516 | 543 967 1,415 | 25 25 25 | 1,114 1,982 2,902 | 0 0 | 543 967 1,415 | 1,237 2,202 3,224 | 538 957 1,401 | 44 91 141 | 1,819 3,250 4,766 | 1,650 2,949 4,324 | 1,657 2,949 4,317 |
| 2025 2026 | 688 870 | 1,415 1,889 2,386 | 25 25 25 | 3,872 4,892 | 0 | 1,415 1,889 2,386 | 4,302 5,435 | 1,401 1,870 2,362 | 194 249 | 6,366 8,047 | 5,775 7,300 | 5,761 7,278 |
| 2027 2028 | 1,060 0 | 2,907 0 | 25 25 | 5,960 5,307 | 0 293 | 2,907 0 | 6,622 7,862 | 2,878 3,417 | 307 368 | 9,808 11,648 | 8,898 10,567 | 8,867 5,600 |
| 2029 2030 | 0 | 0 | 25 25 | 6,179 7,085 | 342 392 | 0 | 9,154 10,497 | 3,979 4,562 | 432 498 | 13,565 15,557 | 12,306 14,113 | 6,521 7,477 |
| 2031 2032 | 0 | 0 | 25 25 | 8,025 5,999 | 444 527 | 0 | 11,889 13,330 | 5,168 5,794 | 566 637 | 17,623 19,762 | 15,987 17,927 | 8,469 6,525 |
| 2033 2034 | 0 | 0 | 25 25 | 6,669 7,360 | 586 646 | 0 | 14,819 16,355 | 6,441 7,109 | 711 787 | 21,971 24,250 | 19,932 22,000 | 7,254 8,006 |
| 2035 | 0 | 0 | 25 25 | 4,036 4,402 | 748 816 | 0 | 17,937 19,564 | 7,796 8,503 | 865 945 | 26,598 29,012 | 24,129 26,319 | 4,784 5,218 |
| 2037 2038 2039 | 0 0 0 | 0 0 | 25 25 25 | 4,778 5,084 5,385 | 942 998 | 0 0 0 | 21,235 22,598 23,934 | 9,230 9,822 10,403 | 1,028 1,109 1,188 | 31,492 33,529 35,525 | 28,569 30,417 32,227 | 5,663 6,027 6,383 |
| 2040 | 0 | 0 | 25 25 25 | 5,680 5,969 | 1,053 1,106 | 0 | 25,243 26,527 | 10,403 10,972 11,530 | 1,266 1,342 | 37,481 39,399 | 34,002 35,742 | 6,733 7,075 |
| 2042 | 0 | 0 | 25 25 | 6,252 6,529 | 1,159 1,210 | 0 | 27,785 29,018 | 12,077 12,613 | 1,417 1,490 | 41,279 43,121 | 37,448 39,119 | 7,410 7,739 |
| 2044 2045 | 0 | 0 | 25 25 | 6,801 7,068 | 1,261 1,310 | 0 | 30,227 31,412 | 13,138 13,653 | 1,562 1,633 | 44,928 46,698 | 40,758 42,364 | 8,062 8,378 |
| 2046 | 0 | 0 | 25 25 | 7,329 7,585 | 1,358 1,406 | 0 | 32,574 33,712 | 14,158 14,653 | 1,702 1,769 | 48,433 50,134 | 43,938 45,481 | 8,688 8,991 |
| 2048 2049 2050 | 0 0 0 | 0 0 0 | 25 25 25 | 7,836 8,082 8,324 | 1,453 1,498 1,543 | 0 0 0 | 34,828 35,922 36,994 | 15,138 15,613 16,079 | 1,836 1,901 1,964 | 51,801 53,436 55,038 | 46,994 48,476 49,929 | 9,289 9,581 9,866 |
| 2051 | 0 | 0 | 25 25 25 | 8,560 8,792 | 1,543 1,587 1,630 | 0 | 38,045 39,075 | 16,536 16,984 | 2,027 2,088 | 56,608 58,147 | 51,354 52,750 | 10,147 10,421 |
| 2053 2054 | 0 | 0 | 25 25 | 9,019 9,242 | 1,672 1,713 | 0 | 40,085 41,074 | 17,423 17,853 | 2,148 2,207 | 59,655 61,134 | 54,119 55,460 | 10,691 10,955 |
| 2055 2056 | 0 | 0 | 25 25 | 9,460 9,674 | 1,753 1,793 | 0 | 42,045 42,995 | 18,275 18,688 | 2,264 2,321 | 62,584 64,004 | 56,775 58,064 | 11,214 11,467 |
| 2057 2058 | 0 | 0 | 25 25 | 9,884 10,089 | 1,832 1,870 | 0 | 43,928 44,841 | 19,093 19,490 | 2,376 2,431 | 65,397 66,762 | 59,327 60,565 | 11,716 11,959 |
| 2059 2060 2061 | 0 0 0 | 0 0 0 | 25 25 25 | 10,291 10,488 10,682 | 1,907 1,944 1,980 | 0 0 0 | 45,737 46,615 47,475 | 19,879 20,261 20,635 | 2,484 2,536 2,587 | 68,100 69,411 70,697 | 61,779 62,969 64,135 | 12,198 12,432 12,662 |
| 2062 2063 | 0 | 0 | 25 25 25 | 10,872 11,058 | 2,015 2,050 | 0 | 47,475 48,318 49,145 | 21,002 21,361 | 2,637 2,686 | 71,957 73,192 | 65,278 66,399 | 12,887 13,107 |
| 2064 2065 | 0 | 0 | 25 25 | 11,240 11,419 | 2,083 2,117 | 0 | 49,955 50,750 | 21,713 22,058 | 2,734 2,782 | 74,403 75,590 | 67,497 68,574 | 13,323 13,535 |
| 2066 2067 | 0 | 0 | 25 25 | 11,594 11,766 | 2,149 2,181 | 0 | 51,528 52,291 | 22,397 22,728 | 2,828 2,873 | 76,753 77,893 | 69,629 70,663 | 13,743 13,946 |
| 2068 2069 | 0 | 0 | 25 25 | 11,934 12,099 | 2,212 2,243 | 0 | 53,039 53,773 | 23,054 23,372 | 2,918 2,961 | 79,011 80,106 | 71,677 72,671 | 14,146 14,341 |
| 2070 2071 2072 | 0 0 | 0 | 25 25 25 | 12,261 12,282 12,036 | 2,273 2,277 2,231 | 0 | 54,491 54,588 53,493 | 23,685 23,727 23,251 | 3,004 3,015 2,967 | 81,180 81,330 79,711 | 73,645 73,781 72,313 | 14,533 14,559 14,267 |
| 2072 2073 2074 | 0 | 0 | 25 25 | 11,795 11,558 | 2,186 2,142 | 0 | 52,421 51,370 | 22,785 22,328 | 2,920 2,874 | 78,125 76,572 | 70,874 69,465 | 13,981 13,701 |
| 2075 2076 | 0 | 0 | 25 25 | 11,327 11,100 | 2,099 2,057 | 0 | 50,341 49,333 | 21,881 21,442 | 2,828 2,784 | 75,050 73,559 | 68,084 66,731 | 13,426 13,157 |
| 2077 2078 | 0 | 0 | 25 25 | 10,878 10,660 | 2,016 1,976 | 0 | 48,345 47,377 | 21,013 20,593 | 2,740 2,698 | 72,098 70,668 | 65,407 64,109 | 12,894 12,636 |
| 2079 2080 | 0 | 0 | 25 25 | 10,447 10,238 | 1,936 1,898 | 0 | 46,430 45,501 | 20,181 19,777 | 2,656 2,615 | 69,266 67,893 | 62,837 61,592 | 12,383 12,135 |
| 2081 2082 2083 | 0 0 0 | 0 0 0 | 25 25 | 10,033 9,833 9,636 | 1,860 1,823 1,786 | 0 0 0 | 44,592 43,701 42,828 | 19,382 18,995 | 2,575 2,536 | 66,549 65,231 | 60,372 59,177 | 11,893 11,655 11,423 |
| 2084 2085 | 0 | 0 | 25 25 25 | 9,444 9,256 | 1,751 1,716 | 0 | 42,828 41,973 41,136 | 18,615 18,244 17,880 | 2,498 2,460 2,423 | 63,941 62,677 61,439 | 58,006 56,860 55,737 | 11,423 11,195 10,971 |
| 2086 2087 | 0 | 0 | 25 25 | 9,071 8,890 | 1,681 1,648 | 0 | 40,316 39,513 | 17,523 17,174 | 2,387 2,352 | 60,227 59,039 | 54,637 53,559 | 10,753 10,538 |
| 2088 2089 | 0 | 0 | 25 25 | 8,713 8,486 | 1,615 1,573 | 0 | 38,726 37,716 | 16,832 16,393 | 2,317 2,271 | 57,876 56,381 | 52,504 51,148 | 10,329 10,059 |
| 2090 2091 | 0 | 0 | 25 25 | 8,263 8,045 | 1,532 1,491 | 0 | 36,726 35,755 | 15,963 15,541 | 2,226 2,182 | 54,915 53,479 | 49,818 48,515 | 9,795 9,536 |
| 2092 2093 2094 | 0 0 0 | 0 0 0 | 25 25 25 | 7,831 7,621 7,415 | 1,452 1,413 1,374 | 0 0 0 | 34,804 33,871 32,957 | 15,128 14,722 14,325 | 2,139 2,097 | 52,070 50,690 49,337 | 47,238 45,985 44,758 | 9,282 9,034 |
| 2095 2096 | 0 | 0 | 25 25 25 | 7,413 7,214 7,016 | 1,374 1,337 1,301 | 0 | 32,061 31,183 | 13,935 13,554 | 2,055 2,014 1,974 | 48,011 46,711 | 43,555 42,376 | 8,790 8,551 8,317 |
| 2097 2098 | 0 | 0 | 25 25 | 6,823 6,633 | 1,265 1,229 | 0 | 30,322 29,479 | 13,180 12,813 | 1,935 1,897 | 45,437 44,188 | 41,220 40,087 | 8,087 7,862 |
| 2099 2100 | 0 | 0 | 25 25 | 6,447 6,264 | 1,195 1,161 | 0 | 28,651 27,841 | 12,453 12,101 | 1,859 1,823 | 42,964 41,764 | 38,977 37,888 | 7,642 7,425 |
| 2101 2102 | 0 0 0 | 0 0 0 | 25 25 | 6,085 5,910 | 1,128 1,095 | 0 0 0 | 27,046 26,267 | 11,756 11,417 | 1,787 1,751 | 40,588 39,435 | 36,821 35,775 | 7,213 7,006 |
| 2103 2104 2105 | 0 | 0 | 25 25 25 | 5,738 5,570 5,405 | 1,064 1,032 1,002 | 0 | 25,504 24,755 24,022 | 11,085 10,760 10,441 | 1,717 1,683 1,649 | 38,305 37,198 36,112 | 34,750 33,745 32,760 | 6,802 6,602 6,407 |
| 2106 2107 | 0 | 0 | 25 25 | 5,243 5,085 | 972 942 | 0 | 23,303 22,598 | 10,129 9,822 | 1,617 1,585 | 35,048 34,005 | 31,795 30,849 | 6,215 6,027 |
| 2108 2109 | 0 | 0 | 25 25 | 4,929 4,755 | 914 881 | 0 | 21,907 21,135 | 9,522 9,186 | 1,553 1,522 | 32,982 31,844 | 29,921 28,889 | 5,843 5,637 |
| 2110 2111 | 0 | 0 | 25 25 | 4,586 4,421 | 850 820 | 0 | 20,383 19,651 | 8,860 8,541 | 1,492 1,463 | 30,735 29,655 | 27,883 26,903 | 5,436 5,241 |
| 2112 2113 2114 | 0 0 0 | 0 0 0 | 25 25 25 | 4,261 4,104 3,952 | 790 761 733 | 0 0 0 | 18,937 18,242 | 8,231 7,929 | 1,434 1,405 | 28,602 27,576 | 25,948 25,017 | 5,051 4,865 |
| 2114 2115 2116 | 0 | 0 | 25 25 25 | 3,803 3,658 | 705 678 | 0 | 17,564 16,903 16,259 | 7,634 7,347 7,067 | 1,378 1,350 1,324 | 26,576 25,601 24,650 | 24,109 23,225 22,362 | 4,684 4,508 4,336 |
| 2117 2118 | 0 | 0 | 25 25 | 3,517 3,379 | 652 626 | 0 | 15,631 15,019 | 6,794 6,528 | 1,297 1,272 | 23,722 22,818 | 21,521 20,700 | 4,169 4,006 |
| 2119 2120 | 0 | 0 | 25 25 | 3,245 3,114 | 601 577 | 0 | 14,421 13,838 | 6,268 6,015 | 1,246 1,222 | 21,936 21,075 | 19,900 19,119 | 3,846 3,691 |
| 2121 2122 2123 | 0 0 0 | 0 0 0 | 25 25 25 | 2,986 2,861 2,739 | 553 530 508 | 0 0 0 | 13,270 12,715 | 5,768 5,527 5,291 | 1,198 1,174 | 20,235 19,416 | 18,357 17,613 | 3,539 3,391 3,247 |
| 2123 2124 2125 | 0 | 0 0 | 25 25 25 | 2,739 2,620 2,504 | 486 464 | 0 | 12,174 11,645 11,130 | 5,291 5,062 4,838 | 1,151 1,128 1,105 | 18,616 17,835 17,073 | 16,888 16,180 15,488 | 3,247 3,106 2,968 |
| 2126 2127 | 0 | 0 | 25 25 | 2,391 2,280 | 443 423 | 0 | 10,627 10,135 | 4,619 4,405 | 1,084 1,062 | 16,329 15,602 | 14,813 14,154 | 2,834 2,703 |
| 2128 2129 | 0 | 0 | 25 25 | 2,172 2,067 | 403 383 | 0 | 9,655 9,187 | 4,197 3,993 | 1,041 1,020 | 14,893 14,200 | 13,511 12,882 | 2,575 2,450 |
| 2130 2131 | 0 | 0 | 25 25 | 1,964 1,864 | 364 345 | 0 | 8,729 8,282 | 3,794 3,600 | 1,000 980 | 13,524 12,863 | 12,269 11,669 | 2,328 2,209 |
| 2132 2133 2134 | 0 0 0 | 0 0 0 | 25 25 25 | 1,765 1,669 1,576 | 327 309 292 | 0 0 0 | 7,846 7,420 7,003 | 3,410 3,225 3,044 | 961 942 923 | 12,217 11,587 10,970 | 11,083 10,511 9,952 | 2,093 1,979 1,868 |
| 2135 2136 | 0 | 0 | 25 25 25 | 1,484 1,395 | 275 259 | 0 | 6,596 6,198 | 2,867 2,694 | 905 887 | 10,368 9,780 | 9,406 8,872 | 1,759 1,653 |
| 2137 2138 | 0 | 0 | 25 25 | 1,307 1,222 | 242 226 | 0 | 5,810 5,430 | 2,525 2,360 | 870 852 | 9,205 8,643 | 8,350 7,840 | 1,550 1,448 |
| 2139 2140 | 0 | 0 | 25 25 | 1,138 1,057 | 211 196 | 0 | 5,059 4,696 | 2,199 2,041 | 836 819 | 8,093 7,556 | 7,342 6,855 | 1,349 1,252 |
| 2141 2142 | 0 | 0 | 25 25 | 977 899 | 181 167 | 0 | 4,341 3,995 | 1,887 1,736 | 803 787 | 7,031 6,518 | 6,378 5,913 | 1,158 1,065 |
| 2143 2144 2145 | 0 0 0 | 0 0 0 | 25 25 25 | 822 748 675 | 152 139 125 | 0 0 0 | 3,655 3,324 3,000 | 1,589 1,445 1,304 | 771 756 741 | 6,016 5,525 5,045 | 5,457 5,012 4,577 | 975 887 800 |
| 2145 2146 2147 | 0 | 0 | 25 25 25 | 604 534 | 112 99 | 0 | 2,683 2,373 | 1,304 1,166 1,031 | 741 726 712 | 4,575 4,116 | 4,151 3,734 | 716 633 |
| 2148 2149 | 0 | 0 | 25 25 | 466 399 | 86 74 | 0 | 2,070 1,773 | 900 771 | 698 684 | 3,667 3,228 | 3,327 2,928 | 552 473 |
| 2150 2151 | 0 | 0 | 25 25 | 334 270 | 62 50 | 0 | 1,483 1,200 | 645 521 | 671 657 | 2,798 2,378 | 2,539 2,157 | 396 320 |
| 2152 2153 | 0 | 0 | 25 25 | 207 146 | 38 27 | 0 | 922 650 | 401 283 | 644 631 | 1,967 1,565 | 1,784 1,419 | 246 173 |
| 2154 2155 2156 | 0 0 0 | 0 | 25 25 | 87 28 | 16 5 -5 | 0 0 0 | 385 125 | 167 54 | 619 607 | 1,171 786 | 1,062 713 | 103 33 |
| 2156 2157 2158 | 0 0 | 0 0 0 | 25 25 25 | -29 -85 -140 | -5 -16 -26 | 0 0 | -130 -378 -622 | -56 -164 -270 | 595 583 571 | 409 40 -321 | 371 36 -291 | -35 -101 -166 |
| 2159 | 0 | 0 | 25 25 | -194 -246 | -36 -46 | 0 | -860 -1,094 | -374 -475 | 560 549 | -674 -1,020 | -612 -925 | -229 -292 |
| 2160 | U | | | | | | | | | | | |

| | | | (Indirect) and I | andfill Operations (Direc | | | | Ge Emission Tot | als |
|----------------------|---|------------------------------------|-------------------------|---|--|---------------------------------|---------------------------------|----------------------------|--------------------------------|
| Year | Total Estimated CO2e Existing plus Expansion LF | Total Mobile Collection CO2e | Facility Ops CO2e | Percent of Ops Emission Attributed to Proposed Landfill | Out of County Mobile Collection CO2e | Indirect Increase Total CO2e | Direct (LF) GHGe Increase | Indirect GHGe Increase | Total GHGe Increase |
| 2021 | tonnes/yr 5,075 | tonnes/yr 3,698 | tonnes/yr 1,377 | % 69% | tonnes/yr | tonnes/yr -57 | tonnes/yr | tonnes/yr -57 | tonnes/yr |
| 2022 | 5,300 5,511 | 3,875 4,038 | 1,425 1,472 | 84% 85% | 1,620 1,571 | 168 495 | 1,503 2,675 | 168 495 | 1,671 3,169 |
| 2024 2025 | 5,709 5,893 | 4,189 4,325 | 1,520 1,568 | 86% 87% | 1,522 1,472 | 577 876 | 3,916 5,226 | 577 876 | 4,493 6,101 |
| 2026 2027 | 6,063 6,218 | 4,447 4,555 | 1,615 1,663 | 87% 88% | 1,423 1,374 | 1,156 1,200 | 6,602 8,044 | 1,156 1,200 | 7,758 9,244 |
| 2028 | 6,358 6,484 | 4,647 4,725 | 1,711 1,758 | 89% 89% | 1,324 1,275 | 1,571 1,464 | 5,081 5,915 | 1,571 1,464 | 6,655 7,384 |
| 2030 | 6,595 6,671 | 4,788 4,837 | 1,806 1,834 | 90% | 1,225 1,176 | 1,459 1,650 | 6,783 7,683 | 1,459 1,650 | 8,246 9,338 |
| 2032 | 6,732 6,739 | 4,870 4,849 | 1,862 1,890 | 90% 91% 91% | 1,127 1,077 | 1,595 1,717 | 5,920 6,581 7,263 | 1,595 1,717 1,634 | 7,520 8,304 |
| 2034 2035 2036 | 6,772 6,790 6,884 | 4,854 4,844 4,956 | 1,918 1,946 1,927 | 91% 91% 92% | 1,028 979 980 | 1,634 1,767 1,743 | 4,340 4,733 | 1,767 1,743 | 8,903 6,114 6,484 |
| 2037 | 6,832 6,779 | 4,923 4,889 | 1,909 1,890 | 100% 100% | 980 981 | 1,743 1,111 1,707 | 5,138 5,468 | 1,743 1,111 1,707 | 6,256 7,183 |
| 2039 2040 | 6,725 6,672 | 4,854 4,819 | 1,871 1,853 | 100% 100% | 982 983 | 1,697 1,873 | 5,791 6,108 | 1,697 1,873 | 7,496 7,990 |
| 2041 2042 | 6,616 6,560 | 4,782 4,744 | 1,834 1,816 | 100% 100% | 984 984 | 1,585 1,412 | 6,418 6,723 | 1,585 1,412 | 8,012 8,144 |
| 2043 | 6,504 6,447 | 4,707 4,668 | 1,797 1,778 | 100% 100% | 985 986 | 1,470 1,296 | 7,021 7,313 | 1,470 1,296 | 8,501 8,620 |
| 2045 2046 2047 | 6,389 4,529 4,519 | 4,630 2,780 2,783 | 1,760 1,748 1,737 | 100% 100% 100% | 987 592 592 | 1,354 -624 -634 | 7,600 7,881 8,157 | 1,354 -624 -634 | 8,964 7,268 7,533 |
| 2048 | 4,510 4,501 | 2,785 2,787 | 1,725 1,714 | 100% | 592 592 | -297 -538 | 8,427 8,691 | -297 -538 | 8,141 8,164 |
| 2050 2051 | 4,491 3,579 | 2,789 2,791 | 1,702 788 | 100% | 592 592 | -665 -1,492 | 8,951 9,205 | -665 -1,492 | 8,298 7,725 |
| 2052 2053 | 3,581 3,561 | 2,793 2,773 | 788 788 | 100% 100% | 592 592 | -1,606 -1,511 | 9,454 9,699 | -1,606 -1,511 | 7,860 8,200 |
| 2054 2055 | 3,563 3,565 | 2,775 2,777 | 788 788 | 100% 100% | 592 592 | -1,626 -1,508 | 9,938 10,173 | -1,626 -1,508 | 8,325 8,677 |
| 2056 2057 | 3,568 3,569 | 2,779 2,781 | 788 788 | 100% 100% | 592 592 | -1,623 -1,506 | 10,403 10,628 | -1,623 -1,506 | 8,793 9,136 |
| 2058 | 3,571 3,573 | 2,783 2,785 | 788 788 | 100% 100% | 592 592 | -1,273 -1,503 | 10,849 11,066 | -1,273 -1,503 | 9,590 9,577 |
| 2060 2061 2062 | 3,575 3,577 3,579 | 2,787 2,788 2,790 | 789 789 789 | 100% 100% 100% | 592 592 592 | -1,618 -1,501 -1,616 | 11,278 11,487 11,691 | -1,618 -1,501 -1,616 | 9,674 10,000 10,090 |
| 2062 2063 2064 | 3,579 3,581 3,583 | 2,790 2,792 2,794 | 789 789 789 | 100% 100% 100% | 592 592 592 | -1,616 -1,498 -1,613 | 11,891 11,891 12,087 | -1,616 -1,498 -1,613 | 10,407 10,489 |
| 2065 2066 | 3,585 3,587 | 2,796 2,798 | 789 789 | 100% 100% | 592 592 | -1,496 -1,611 | 12,279 12,467 | -1,496 -1,611 | 10,798 10,872 |
| 2067 2068 | 3,589 3,591 | 2,800 2,802 | 789 789 | 100% 100% | 592 592 | -1,493 -1,261 | 12,652 12,833 | -1,493 -1,261 | 11,174 11,588 |
| 2069 | 3,593 2,895 | 2,803 2,106 | 790 790 | 100% | 592 592 | -1,491 -2,305 | 13,010 13,184 | -1,491 -2,305 | 11,535 10,895 |
| 2071 2072 2073 | 1,542 1,544 | 752 754 756 | 790 790 790 | 100% 100% | 592 592 | -3,543 -3,658 | 13,208 12,943 | -3,543 -3,658 | 9,680 9,300 |
| 2074 2075 | 1,546 1,548 1,550 | 758 760 | 790 790 790 | 100% 100% 100% | 592 592 592 | -3,541 -3,656 -3,538 | 12,683 12,429 12,180 | -3,541 -3,656 -3,538 | 9,158 8,789 8,657 |
| 2076 2077 | 1,552 1,554 | 762 764 | 790 790 | 100% | 592 592 | -3,653 -3,536 | 11,936 11,697 | -3,653 -3,536 | 8,298 8,176 |
| 2078 2079 | 1,556 1,558 | 766 768 | 791 791 | 100% 100% | 592 592 | -3,303 -3,533 | 11,463 11,234 | -3,303 -3,533 | 8,174 7,715 |
| 2080 2081 | 1,560 1,562 | 770 772 | 791 791 | 100% 100% | 592 592 | -3,648 -3,531 | 11,009 10,789 | -3,648 -3,531 | 7,375 7,272 |
| 2082 | 1,564 1,566 | 773 775 | 791 791 | 100% | 592 592 | -3,645 -3,644 | 10,573 10,362 | -3,645 -3,644 | 6,942 6,731 |
| 2084 | 1,568 1,570 | 777 779 781 | 791 791 791 | 100% 100% 100% | 592 592 592 | -3,643 -3,642 | 10,156 9,953 9,755 | -3,643 -3,642 | 6,526 6,324 |
| 2086 2087 2088 | 1,572 181 181 | 0 0 | 181 181 | 100% 100% 100% | 0 0 | -3,641 -3,470 -4,983 | 9,560 9,370 | -3,641 -3,470 -4,983 | 6,127 6,103 4,399 |
| 2089 2090 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 9,125 8,886 | -4,983 -4,983 | 4,154 3,915 |
| 2091 2092 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 8,651 8,421 | -4,983 -4,983 | 3,679 3,449 |
| 2093 2094 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 8,195 7,974 | -4,983 -4,983 | 3,223 3,002 |
| 2095 2096 | 181 181 | 0 | 181 181 | 100% | 0 | -4,983 -4,983 | 7,757 | -4,983 -4,983 | 2,785 2,572 |
| 2097 2098 2099 | 181 181 181 | 0 0 0 | 181 181 181 | 100% 100% 100% | 0 0 0 | -4,983 -4,983 -4,983 | 7,337 7,132 6,932 | -4,983 -4,983 -4,983 | 2,364 2,159 1,959 |
| 2100 2101 | 181 181 | 0 | 181 | 100% 100% 100% | 0 | -4,983 -4,983 | 6,736 6,544 | -4,983 -4,983 | 1,763 1,570 |
| 2102 2103 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 6,355 6,171 | -4,983 -4,983 | 1,381 1,197 |
| 2104 2105 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 5,990 5,812 | -4,983 -4,983 | 1,015 838 |
| 2106 2107 | 181 181 | 0 | 181 181 | 100% | 0 | -4,983 -4,983 | 5,638 5,468 | -4,983 -4,983 | 663 493 |
| 2108 2109 2110 | 181 181 181 | 0 0 0 | 181 181 181 | 100% 100% 100% | 0 0 0 | -4,983 -4,983 -4,983 | 5,300 5,114 4,932 | -4,983 -4,983 -4,983 | 325 138 -44 |
| 2111 2111 2112 | 181 181 | 0 | 181 | 100% 100% 100% | 0 | -4,983 -4,983 | 4,755 4,582 | -4,983 -4,983 | -222 -394 |
| 2112 2113 2114 | 181 181 | 0 | 181 181 | 100% 100% 100% | 0 | -4,983 -4,983 | 4,414 4,250 | -4,983 -4,983 | -563 -727 |
| 2115 2116 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 4,090 3,934 | -4,983 -4,983 | -887 -1,043 |
| 2117 2118 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 3,782 3,634 | -4,983 -4,983 | -1,195 -1,343 |
| 2119 2120 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 3,489 3,348 | -4,983 -4,983 | -1,488 -1,629 |
| 2121 2122 2123 | 181 181 181 | 0 0 0 | 181 181 181 | 100% 100% 100% | 0 0 0 | -4,983 -4,983 -4,983 | 3,211 3,076 2,945 | -4,983 -4,983 -4,983 | -1,767 -1,901 -2,032 |
| 2124 2125 | 181 181 181 | 0 | 181 181 | 100% 100% 100% | 0 | -4,983 -4,983 -4,983 | 2,818 2,693 | -4,983 -4,983 -4,983 | -2,032 -2,160 -2,285 |
| 2126 2127 | 181 181 | 0 | 181 181 | 100% 100% 100% | 0 | -4,983 -4,983 -4,983 | 2,571 2,452 | -4,983 -4,983 | -2,283 -2,407 -2,526 |
| 2128 2129 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 2,336 2,223 | -4,983 -4,983 | -2,642 -2,756 |
| 2130 2131 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 2,112 2,004 | -4,983 -4,983 | -2,867 -2,975 |
| 2132 2133 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 1,898 1,795 | -4,983 -4,983 | -3,080 -3,184 |
| 2134 2135 2136 | 181 181 181 | 0 0 0 | 181 181 181 | 100% 100% 100% | 0 0 0 | -4,983 -4,983 -4,983 | 1,694 1,596 1,500 | -4,983 -4,983 -4,983 | -3,285 -3,383 -3,479 |
| 2136 2137 2138 | 181 181 181 | 0 | 181 181 181 | 100% 100% 100% | 0 | -4,983 -4,983 -4,983 | 1,500 1,406 1,314 | -4,983 -4,983 -4,983 | -3,479 -3,574 -3,666 |
| 2139 2140 | 181 181 | 0 | 181 181 | 100% 100% 100% | 0 | -4,983 -4,983 | 1,224 1,136 | -4,983 -4,983 | -3,755 -3,843 |
| 2141 2142 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 1,050 966 | -4,983 -4,983 | -3,929 -4,013 |
| 2143 2144 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 884 804 | -4,983 -4,983 | -4,095 -4,176 |
| 2145 2146 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 726 649 | -4,983 -4,983 | -4,254 -4,331 |
| 2147 2148 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | 574 501 | -4,983 -4,983 | -4,406 -4,479 |
| 2149 2150 2151 | 181 181 181 | 0 0 0 | 181 181 | 100% 100% | 0 0 0 | -4,983 -4,983 | 429 359 | -4,983 -4,983 | -4,551 -4,621 |
| 2151 2152 2153 | 181 181 181 | 0 0 | 181 181 181 | 100% 100% 100% | 0 0 | -4,983 -4,983 -4,983 | 290 223 157 | -4,983 -4,983 -4,983 | -4,690 -4,757 -4,823 |
| 2154 2155 | 181 181 181 | 0 | 181 181 | 100% 100% 100% | 0 | -4,983 -4,983 -4,983 | 93 | -4,983 -4,983 -4,983 | -4,823 -4,887 -4,950 |
| 2156 2157 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | -31 -92 | -4,983 -4,983 | -5,012 -5,072 |
| 2158 | 181 | 0 | 181 | 100% | 0 | -4,983 | -150 | -4,983 | -5,131 |
| 2159 2160 | 181 181 | 0 | 181 181 | 100% 100% | 0 | -4,983 -4,983 | -208 -265 | -4,983 -4,983 | -5,189 -5,245 |





JSRL
Reduction in GHG Emissions from Early Adoption of 95% CE

| | LFG Collection | GHGe Emissions via Adoption of Normal LFG | LFG Collection | GHGe Emissions via Adoption of Stepped LFG Collection (95% | LFG Collection | GHGe Emissions via Adoption of Early LFG Collection (95% CE |
|------|----------------|---|----------------|--|----------------|---|
| Year | Efficiency (%) | Collection | Efficiency (%) | CE) by 2035 | Efficiency (%) | by 2024 |
| 2021 | 80% | -57 | 80% | -57 | 80% | -57 |
| 2022 | 80% | 1,671 | 80% | 1,671 | 80% | 1,671 |
| 2023 | 80% | 3,169 | 80% | 3,169 | 80% | 3,169 |
| 2024 | 80% | 4,493 | 80% | 4,493 | 95% | 2,759 |
| 2025 | 80% | 6,101 | 80% | 6,101 | 95% | 3,788 |
| 2026 | 80% | 7,758 | 80% | 7,758 | 95% | 4,836 |
| 2027 | 80% | 9,244 | 80% | 9,244 | 95% | 5,683 |
| 2028 | 80% | 8,244 | 85% | 6,655 | 95% | 3,477 |
| 2029 | 80% | 9,234 | 85% | 7,384 | 95% | 3,684 |
| 2030 | 80% | 10,367 | 85% | 8,246 | 95% | 4,003 |
| 2031 | 80% | 11,740 | 85% | 9,338 | 95% | 4,532 |
| 2032 | 80% | 12,908 | 90% | 7,520 | 95% | 4,826 |
| 2033 | 80% | 14,294 | 90% | 8,304 | 95% | 5,309 |
| 2034 | 80% | 15,514 | 90% | 8,903 | 95% | 5,597 |
| 2035 | 80% | 16,989 | 95% | 6,114 | 95% | 6,114 |
| 2036 | 80% | 18,346 | 95% | 6,484 | 95% | 6,484 |
| 2037 | 85% | 14,840 | 95% | 6,256 | 95% | 6,256 |
| 2038 | 85% | 16,317 | 95% | 7,183 | 95% | 7,183 |
| 2039 | 85% | 17,171 | 95% | 7,496 | 95% | 7,496 |
| 2040 | 85% | 18,193 | 95% | 7,990 | 95% | 7,990 |
| 2041 | 85% | 18,735 | 95% | 8,012 | 95% | 8,012 |
| 2042 | 85% | 19,375 | 95% | 8,144 | 95% | 8,144 |
| 2043 | 85% | 20,231 | 95% | 8,501 | 95% | 8,501 |
| 2044 | 85% | 20,838 | 95% | 8,620 | 95% | 8,620 |
| 2045 | 85% | 21,662 | 95% | 8,964 | 95% | 8,964 |
| 2046 | 85% | 20,435 | 95% | 7,268 | 95% | 7,268 |
| 2047 | 85% | 21,160 | 95% | 7,533 | 95% | 7,533 |
| 2048 | 85% | 22,219 | 95% | 8,141 | 95% | 8,141 |
| 2049 | 85% | 22,685 | 95% | 8,164 | 95% | 8,164 |
| 2050 | 85% | 23,251 | 95% | 8,298 | 95% | 8,298 |
| 2051 | 85% | 23,104 | 95% | 7,725 | 95% | 7,725 |
| 2052 | 85% | 23,655 | 95% | 7,860 | 95% | 7,860 |
| 2053 | 85% | 24,403 | 95% | 8,200 | 95% | 8,200 |
| 2054 | 85% | 24,928 | 95% | 8,325 | 95% | 8,325 |
| 2055 | 85% | 25,673 | 95% | 8,677 | 95% | 8,677 |
| 2056 | 85% | 26,173 | 95% | 8,793 | 95% | 8,793 |
| 2057 | 85% | 26,892 | 95% | 9,136 | 95% | 9,136 |
| 2058 | 85% | 27,716 | 95% | 9,590 | 95% | 9,590 |
| 2059 | 85% | 28,064 | 95% | 9,577 | 95% | 9,577 |
| 2060 | 85% | 28,517 | 95% | 9,674 | 95% | 9,674 |
| 2061 | 85% | 29,190 | 95% | 10,000 | 95% | 10,000 |
| 2062 | 85% | 29,621 | 95% | 10,090 | 95% | 10,090 |
| 2063 | 85% | 30,272 | 95% | 10,407 | 95% | 10,407 |
| 2064 | 85% | 30,681 | 95% | 10,489 | 95% | 10,489 |
| 2065 | 85% | 31,312 | 95% | 10,798 | 95% | 10,798 |
| 2066 | 85% | 31,701 | 95% | 10,872 | 95% | 10,872 |
| 2067 | 85% | 32,311 | 95% | 11,174 | 95% | 11,174 |
| 2068 | 85% | 33,028 | 95% | 11,588 | 95% | 11,588 |
| 2069 | 85% | 33,271 | 95% | 11,535 | 95% | 11,535 |
| 2070 | 85% | 32,922 | 95% | 10,895 | 95% | 10,895 |
| 2071 | 85% | 31,746 | 95% | 9,680 | 95% | 9,680 |
| 2072 | 85% | 30,923 | 95% | 9,300 | 95% | 9,300 |
| 2073 | 85% | 30,347 | 95% | 9,158 | 95% | 9,158 |

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LABORATORY ANALYSIS REPORT

Speciated Hydrocarbons Analysis in SUMMA Canister Sample

Report Date: July 6, 2020 Client: SCS Engineers Project Name: John Smith Landfill

Project No.: Not Given

Date Received: June 22, 2020 Date Analyzed: June 22, 2020

ANALYSIS DESCRIPTION

Hydrocarbon Speciation analysis was performed by flame ionization detection/gas chromatography (FID/GC), modified EPA-18.

| AtmAA Lab No.: | 21740-1 | (repeat) | 21740-2 |
|--------------------------|--------------|---------------|-------------|
| Sample ID: | Flare Inlet | Flare Inlet | Flare Inlet |
| | Can 192 | Can 192 | Can 418 |
| Component | (Concentrat | tion in ppmv, | component) |
| Methane | 363000 | 361000 | 360000 |
| Ethene | 6.45 | 5.87 | 6.55 |
| Acetylene | < 0.05 | < 0.05 | < 0.05 |
| Ethane | 3.15 | 3.15 | 2.96 |
| non-methane hydrocarbons | | | |
| analysis by carbon | | | |
| number grouping | | | |
| C3 | 54.5 | 54.3 | 55.1 |
| C4 | 64.8 | 67.6 | 61.8 |
| C5 | 64.7 | 66.7 | 62.6 |
| C6 | 81.7 | 83.2 | 76.8 |
| C7 | 29.3 | 27.8 | 26.8 |
| C8 | 39.0 | 39.4 | 36.2 |
| C9 | 71.1 | 70.8 | 70.1 |
| C10 | 60.6 | 62.7 | 58.5 |
| C11 | 10.6 | 11.4 | 10.1 |
| C12 | 4.40 | 5.40 | 4.13 |
| C13 | 0.33 | 0.42 | 0.36 |
| C14 | 0.11 | 0.12 | 0.16 |
| TNMHC | 3194 | 3256 | 3066 |

TNMHC - total non-methane hydrocarbons as ppmvC.

Brian W. Fung Laboratory Director

Calculated values for Specific Volume, BTU and F (factor)

Report Date: July 6, 2020

Client: SCS Engineers

Project Location: John Smith Landfill Date Received: June 22, 2020 Date Analyzed: June 22, 2020

AtmAA Lab No.: 21740-1 Flare Inlet (192)

Specific volume, BTU, and F-factor are calculated using labortatory analysis results for methane, carbon dioxide, nitrogen, oxygen, TNMHC, and sulfur compounds in equations that include gross/net heating and specific gas volume values taken from the GPA-2145 Midstream Standard, and represents dry "ideal" gas at 60°F and 1 atm. The F-factor is calculated according to the equation in EPA Method 19.

| Component | Mole % | Wt % | C,H,O,N,S | , Wt.% | |
|---------------------------------|--------|-------|-----------|--------|------|
| Methane | 36.2 | 20.0 | Carbon | 28.7 | |
| Carbon dioxide | 32.6 | 49.6 | Hydrogen | 5.03 | |
| Nitrogen | 28.5 | 27.53 | Oxygen | 38.6 | |
| Oxygen | 2.29 | 2.53 | Nitrogen | 27.5 | |
| Argon | 0.10 | 0.14 | Argon | 0.14 | |
| Hydrogen | 0.00 | 0.00 | Sulfur | 0.04 | |
| (CH ₂) _n | 0.049 | 0.16 | | | |
| Specific Volume | | 13.06 | | | |
| BTU/ft ³ | | 369 | (HHV) | 332 | (LHV |
| BTU/ lb. | | 4814 | (HHV) | 4335 | (LHV |
| F (factor) | | 10034 | (HHV) | 11142 | (LHV |
| Wobbe Index | | 369 | (HHV) | | |
| Specific Gravity | | 0.999 | | | |

| Specific volume reference values * | | | | |
|---------------------------------------|--------------------------------------|--|--|--|
| 23.7 | (ft³/lb) | | | |
| 8.62 | | | | |
| 13.5 | | | | |
| 11.9 | | | | |
| 9.52 | | | | |
| 188.2 | | | | |
| | 23.7 8.62 13.5 11.9 9.52 | | | |

^{*} reference, Rev. 2016, GPA-2145 Midstream Standard, Selected Hydrocarbons 60°F



Calculated values for Specific Volume, BTU and F (factor)

Report Date: July 6, 2020

Client: SCS Engineers

Project Location: John Smith Landfill Date Received: June 22, 2020 Date Analyzed: June 22, 2020

AtmAA Lab No.: 21740-2 Flare Inlet (418)

Specific volume, BTU, and F-factor are calculated using labortatory analysis results for methane, carbon dioxide, nitrogen, oxygen, TNMHC, and sulfur compounds in equations that include gross/net heating and specific gas volume values taken from the GPA-2145 Midstream Standard, and represents dry "ideal" gas at 60°F and 1 atm. The F-factor is calculated according to the equation in EPA Method 19.

| Component | Mole % | Wt % | C,H,O,N,S, | Wt.% | I |
|---------------------------------|--------|-------|------------|-------|-------|
| Methane | 36.0 | 20.0 | Carbon | 28.7 | |
| Carbon dioxide | 32.8 | 49.9 | Hydrogen | 5.02 | |
| Nitrogen | 28.1 | 27.21 | Oxygen | 38.9 | |
| Oxygen | 2.31 | 2.56 | Nitrogen | 27.2 | |
| Argon | 0.10 | 0.14 | Argon | 0.14 | |
| Hydrogen | 0.00 | 0.00 | Sulfur | 0.04 | |
| (CH ₂) _n | 0.047 | 0.15 | | | |
| Specific Volume | | 13.04 | | | |
| BTU/ft° | | 367 | (HHV) | 330 | (LHV) |
| BTU/ lb. | | 4779 | (HHV) | 4304 | (LHV) |
| F (factor) | | 10075 | (HHV) | 11187 | (LHV) |
| Wobbe Index | | 367 | (HHV) | | 35566 |
| Specific Gravity | | 0.996 | 31 | | |

| Component | Specific reference | volume e values * |
|----------------|-----------------------|----------------------|
| Methane | 23.7 | (ft³/lb) |
| Carbon dioxide | 8.62 | |
| Nitrogen | 13.5 | |
| Oxygen | 11.9 | |
| Argon | 9.52 | |
| Hydrogen | 188.2 | |

^{*} reference, Rev. 2016, GPA-2145 Midstream Standard, Selected Hydrocarbons 60°F





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LABORATORY ANALYSIS REPORT

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TO-15 Component Analysis in Silco Canister Sample, by GC/MS Method EPA TO afmaa.com

Report Date: July 6, 2020
Client: SCS Engineers
Project Location: John Smith Landfill
Project No.: Not Given
Date Received: June 22, 2020
Date Analyzed: June 22, 2020

| AtmAA Lab No.: Sample ID: | L | 21740-1 Flare Inlet (192) | 21740-2 Flare Inlet (418) |
|------------------------------|---|------------------------------|--------------------------------|
| Components | | (Concenta | tions in ppbv) |
| Freon 12 | | 345 | 336 |
| Chloromethane | | 76.3 | 70.3 |
| Freon 114 | | <40 | <40 |
| Vinyl Chloride | | 78.6 | 70.3 |
| 1,3-Butadiene | | <60 | <60 |
| Bromomethane | | <60 | <60 |
| Chloroethane | | 143 | 144 |
| Acetone | | 23900 | 25650 |
| Freon 11 | | 294 | 310 |
| Isopropyl Alcohol | | 78200 | 80350 |
| 1,1-Dichloroethene | | <60 | <60 |
| Methylene Chloride | | 209 | 194 |
| Carbon Disulfide | | 333 | 347 |
| Freon 113 | | <40 | <40 |
| trans-1,2-Dichloroethene | | <60 | <60 |
| 1,1-Dichloroethane | | <60 | <60 |
| MTBE | | <60 | <60 |
| | | 1.55 | |
| Vinyl Acetate | | <60 | <60 |
| 2-Butanone | | 31900 | 38600 |
| cis-1,2-Dichloroethene | | 265 | 258 |
| n-Hexane | | 2720 | 1940 |
| Chloroform | | <40 | <40 |
| Ethyl Acetate | | 1840 | 1755 |
| Tetrahydrofuran | | 1370 | 1520 |
| 1,2-Dichloroethane | | 434 | 458 |
| 1,1,1-Trichloroethane | | <40 | <40 |
| Benzene | | 1750 | 1715 |
| Carbon Tetrachloride | | <40 | <40 |
| Cyclohexane | | <60 | <60 |
| 1,2-Dichloropropane | | <60 | <60 |
| Bromodichloromethane | | <60 | <60 |
| Trichloroethene | | 168 | 169 |
| 1,4-Dioxane | | <60 | <60 |
| 2,2,4-Trimethyl Pentane | | <60 | <60 |
| | | <60 | <60 |
| n-Heptane | | | |
| cis-1,3-Dichloropropene | | <60 | <60 |
| 4-Methyl-2-pentanone | | 3300 | 2820 |
| trans-1,3-Dichloropropene | | <60 | <60 |
| 1,1-2-Trichloroethane | | <60 | <60 |
| Toluene | | 27400 | 30000 |
| 2-Hexanone | | <60 | <60 |
| Dibromochloromethane | | <60 | <60 |
| 1,2-Dibromomethane | | <40 | <40 |
| Tetrachloroethene | | 354 | 346 |
| Chlorobenzene | | 116 | 105 |
| Ethylbenzene | | 6020 | 5615 |
| m,p-Xylene | | 10800 | 9895 |
| Bromoform | | <40 | <40 |
| CI. | | 746 | 654 |
| Styrene | | <60 | <60 |
| 1,1,2,2-Tetrachloroethane | | | |
| o-Xylene | | 3600 | 3260 |
| Benzyl Chloride | | <60 | <60 |
| 4-Ethyl Toluene | | 2180 | 1900 |
| 1,3,5-Trimethyl Benzene | | 844 | 717 |
| 1,2,4-Trimethyl Benzene | | 2090 | 1760 |
| 1,3-Dichlorobenzene | | <40 | <40 |
| 1,4-Dichlorobenzene | | 542 | 436 |
| 1,2-Dichlorobenzene | | <40 | <40 |
| 1,2,4-Trichlorobenzene | | <120 | <120 |
| Hexachlorobutadiene | | <60 | <60 |

Brian W Fung Laboratory Director

QUALITY ASSURANCE SUMMARY (Repeat Analyses)

Project Location: John Smith Landfill Date Received: June 22, 2020 Date Analyzed: June 22, 2020

| | Sample | Repeat | Analysis | Mean | % Diff. |
|--------------------------|-------------------|--------|--------------|------------------|-----------|
| | ID | Run #1 | Run #2 | Conc. | From Mean |
| Components | | (Cond | entration in | ppbv) | |
| Freon-12 | Flare Inlet (192) | 336 | 336 | 336 | 0.00 |
| Chloromethane | Flare Inlet (192) | 73,4 | 67.1 | 70.3 | 4.5 |
| Freon 114 | Flare Inlet (192) | <40 | <40 | - 1, | - Caper. |
| Vinyl Chloride | Flare Inlet (192) | 78.6 | 62.0 | 70.3 | 12 |
| 1,3-Butadiene | Flare Inlet (192) | <60 | <60 | | ** |
| Bromomethane | Flare Inlet (192) | <60 | <60 | | |
| Chloroethane | Flare Inlet (192) | 166 | 121 | 144 | 16 |
| Acetone | Flare Inlet (192) | 26300 | 25000 | 25650 | 2.5 |
| Freon 11 | Flare Inlet (192) | 327 | 292 | 310 | 5.7 |
| sopropyl Alcohol | Flare Inlet (192) | 84300 | 76400 | 80350 | 4.9 |
| 1,1-Dichloroethene | Flare Inlet (192) | <60 | <60 | | - |
| Methylene Chloride | Flare Inlet (192) | 190 | 198 | 194 | 2.1 |
| Carbon Disulfide | Flare Inlet (192) | 350 | 343 | 347 | 1.0 |
| Freon 113 | Flare Inlet (192) | <40 | <40 | | |
| trans-1,2-Dichloroethene | Flare Inlet (192) | <60 | <60 | - | - |
| 1,1-Dichloroethane | Flare Inlet (192) | <60 | <60 | - | 24 |
| МТВЕ | Flare Inlet (192) | <60 | <60 | | |
| Vinyl Acetate | Flare Inlet (192) | <60 | <60 | | 1444 |
| 2-Butanone | Flare Inlet (192) | 37700 | 39500 | 38600 | 2.3 |
| cis-1,2-Dichloroethene | Flare Inlet (192) | 263 | 253 | 258 | 1.9 |
| n-Hexane | Flare Inlet (192) | 2060 | 1820 | 1940 | 6.2 |



QUALITY ASSURANCE SUMMARY (Repeat Analyses) (continued)

| | Sample | Repeat Analysis | | Mean | % Diff. |
|---------------------------|-------------------|-----------------|---------------|-------|-----------------|
| | ID | Run #1 | Run #2 | Conc. | From Mean |
| Components | | (Cond | centration in | ppbv) | |
| Chloroform | Flare Inlet (192) | <40 | <40 | | - |
| Ethyl Acetate | Flare Inlet (192) | 1760 | 1750 | 1755 | 0.28 |
| Tetrahydrofuran | Flare Inlet (192) | 1680 | 1360 | 1520 | 11 |
| 1,2-Dichloroethane | Flare Inlet (192) | 500 | 415 | 458 | 9.3 |
| 1,1,1-Trichloroethane | Flare Inlet (192) | <40 | <40 | | |
| Benzene | Flare Inlet (192) | 1740 | 1690 | 1715 | 1.5 |
| Carbon Tetrachloride | Flare Inlet (192) | <40 | <40 | | |
| Cyclohexane | Flare Inlet (192) | <60 | <60 | + | - - |
| 1,2-Dichloropropane | Flare Inlet (192) | <60 | <60 | | |
| Bromodichloromethane | Flare Inlet (192) | <60 | <60 | - | - |
| Trichloroethene | Flare Inlet (192) | 174 | 163 | 169 | 3.3 |
| 1,4-Dioxane | Flare Inlet (192) | <60 | <60 | 244 | 24 |
| 2,2,4-Trimethyl Pentane | Flare Inlet (192) | <60 | <60 | - | - |
| n-Heptane | Flare Inlet (192) | <60 | <60 | | |
| cis-1,3-Dichloropropene | Flare Inlet (192) | <60 | <60 | | |
| 4-Methyl-2-pentanone | Flare Inlet (192) | 2810 | 2830 | 2820 | 0.35 |
| trans-1,3-Dichloropropene | Flare Inlet (192) | <60 | <60 | 3,444 | - |
| 1,1-2-Trichloroethane | Flare Inlet (192) | <60 | <60 | - | |
| Toluene | Flare Inlet (192) | 30800 | 29200 | 30000 | 2.7 |
| 2-Hexanone | Flare Inlet (192) | <60 | <60 | 545 | 4 |
| Dibromochloromethane | Flare Inlet (192) | <60 | <60 | - | |
| 1,2-Dibromomethane | Flare Inlet (192) | <40 | <40 | ÷ | |
| | | | | | |

QUALITY ASSURANCE SUMMARY (Repeat Analyses) (continued)

| | Sample | Repeat Analysis Run #1 Run #2 (Concentration in) | | Mean | % Diff, | |
|---------------------------|-------------------|---|------|----------------|-----------|--|
| Components | ID | | | Conc. ppbv) | From Mean | |
| Tetrachloroethene | Flare Inlet (192) | 354 | 338 | 346 | 2.3 | |
| Chlorobenzene | Flare Inlet (192) | 103 | 106 | 105 | 1.4 | |
| Ethylbenzene | Flare Inlet (192) | 5700 | 5530 | 5615 | 1.5 | |
| m,p-Xylene | Flare Inlet (192) | 10000 | 9790 | 9895 | 1,1 | |
| Bromoform | Flare Inlet (192) | <40 | <40 | - | 444 | |
| Styrene | Flare Inlet (192) | 663 | 645 | 654 | 1.4 | |
| 1,1,2,2-Tetrachloroethane | Flare Inlet (192) | <60 | <60 | 4 | *** | |
| o-Xylene | Flare Inlet (192) | 3290 | 3230 | 3260 | 0.92 | |
| Benzyl Chloride | Flare Inlet (192) | <60 | <60 | | *** | |
| 4-Ethyl Toluene | Flare Inlet (192) | 1890 | 1910 | 1900 | 0.53 | |
| 1,3,5-Trimethyl Benzene | Flare Inlet (192) | 716 | 717 | 717 | 0.07 | |
| 1,2,4-Trimethyl Benzene | Flare Inlet (192) | 1760 | 1760 | 1760 | 0.00 | |
| 1,3-Dichlorobenzene | Flare Inlet (192) | <40 | <40 | - | - | |
| 1,4-Dichlorobenzene | Flare Inlet (192) | 417 | 454 | 436 | 4.2 | |
| 1,2-Dichlorobenzene | Flare Inlet (192) | <40 | <40 | - | | |
| 1,2,4-Trichlorobenzene | Flare Inlet (192) | <120 | <120 | | - | |
| Hexachlorobutadiene | Flare Inlet (192) | <60 | <60 | | | |

Two Silco canister samples, laboratory numbers 21740-(1-2), were analyzed for TO-15 components by GC/MS. Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 29 repeat measurements from two Silco canister samples is 3.4%.





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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds Analysis in Silco Canister Sample by ASTM Method D5504

Report Date: July 6, 2020

Client: SCS Engineers

Project Location: John Smith Landfill

Project No.: Not Given
Date Received: June 22, 2020
Date Analyzed: June 22, 2020

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), ASTM D5504

| 21740-1 Flare Inlet (192) | 21740-2 Flare Inlet (418) |
|------------------------------|---|
| (Concentrati | ion in ppmv) |
| 343 | 318 |
| 2.71 | 2.63 |
| 1.23 | 1.30 |
| <0.2 | <0.2 |
| 0.98 | 0.95 |
| 0.26 | 0.26 |
| 1.83 | 1.87 |
| <0.2 | <0.2 |
| <0.2 | <0.2 |
| 1.47 | 1.48 |
| <0.2 | <0.2 |
| <0.2 | <0.2 |
| <0.2 | <0.2 |
| 351 | 326 |
| | Flare Inlet (192) (Concentrate 343 2.71 1.23 <0.2 0.98 0.26 1.83 <0.2 <0.2 <1.47 <0.2 <0.2 <0.2 1.47 <0.2 <0.2 <0.2 |

TRS - total reduced sulfur

Brian W. Fung Laboratory Director

QUALITY ASSURANCE SUMMARY (Repeat Analyses)

Project Location: John Smith Landfill Date Received: June 22, 2020 Date Analyzed: June 22, 2020

| | Sample | Repeat | Analysis | Mean | % Diff, |
|---------------------|-------------------|-------------------------|----------|--------|-----------|
| | ID | Run #1 | Run #2 | Conc. | From Mean |
| Components | | (Concentration in ppmv) | | | |
| Hydrogen sulfide | Flare Inlet (192) | 345 | 340 | 343 | 0.80 |
| | Flare Inlet (418) | 315 | 320 | 318 | 0.79 |
| Carbonyl sulfide | Flare Inlet (192) | 2.75 | 2.67 | 2.71 | 1.4 |
| | Flare Inlet (418) | 2.63 | 2.63 | 2.63 | 0.00 |
| Methyl mercaptan | Flare Inlet (192) | 1.25 | 1.21 | 1.23 | 1.8 |
| | Flare Inlet (418) | 1.29 | 1.31 | 1.30 | 0.77 |
| Ethyl mercaptan | Flare Inlet (192) | <0.2 | <0.2 | | *** |
| | Flare Inlet (418) | <0.2 | <0.2 | *** | *** |
| Dimethyl sulfide | Flare Inlet (192) | 0.98 | 0.97 | 0.98 | 0.51 |
| | Flare Inlet (418) | 0.93 | 0.97 | 0.95 | 2.1 |
| Carbon disulfide | Flare Inlet (192) | 0.26 | 0.25 | 0.26 | 2.7 |
| | Flare Inlet (418) | 0.25 | 0.26 | 0.26 | 2.0 |
| i-Propyl mercaptan | Flare Inlet (192) | 1.85 | 1.81 | 1.83 | 0.96 |
| | Flare Inlet (418) | 1.83 | 1.90 | 1.87 | 1.9 |
| t-Butyl mercaptan | Flare Inlet (192) | <0.2 | <0.2 | | |
| | Flare Inlet (418) | <0.2 | <0.2 | (marco | |
| n-Propyl mercaptan | Flare Inlet (192) | <0.2 | <0.2 | -4- | 444 |
| | Flare Inlet (418) | <0.2 | <0.2 | | *** |
| s-Butyl mercaptan | Flare Inlet (192) | 1.48 | 1.46 | 1.47 | 0.84 |
| Carrie 1950 | Flare Inlet (418) | 1.46 | 1.50 | 1.48 | 1.4 |
| i-Butyl mercaptan | Flare Inlet (192) | <0.2 | <0.2 | - | |
| | Flare Inlet (418) | <0.2 | <0.2 | 700 | |
| Dimethyl disulfide | Flare Inlet (192) | <0.2 | <0.2 | regar | |
| | Flare Inlet (418) | <0.2 | <0.2 | 700 | 100 |
| Tetrahydrothiophene | Flare Inlet (192) | <0.2 | <0.2 | | |
| 3.1. | Flare Inlet (418) | < 0.2 | <0.2 | | |

Two Silco canister samples, laboratory numbers 21740-(1 & 2), were analyzed for total reduced sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 14 repeat measurements from two Silco canister samples is 1.3%.





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LABORATORY ANALYSIS REPORT

Total Gaseous Non-Methane Organics (TGNMO) and CO Analysis in SUMMA Canister

Report Date: July 6, 2020

Client: SCS Engineers

Site: John Smith Landfill

Project No.: Not Given Sample Location: Flare Inlet

Date Received: June 22, 2020 Date Analyzed: June 22, 2020

ANALYSIS DESCRIPTION

Total gaseous non-methane organics (TGNMO) and CO were determined using flame ionization/dectection total combustion anlaysis (FID/TCA) M25.

| | | Carbon | |
|---------------|-------------------------|----------------|---------------|
| AtmAA Lab No. | Sample ID | Monoxide | TGNMO |
| | Flare Inlet | (Concentration | on in ppmv,C) |
| 21740-1 | Flare Inlet SUMMA (192) | 22.0 | 2790 |
| 21740-2 | Flare Inlet SUMMA (418) | 19.9 | 2750 |

TGNMO is total gaseous non-methane organics (excluding ethane), reported as ppmvC.

Michael S. Porter Senior Analyst

QUALITY ASSURANCE SUMMARY (Repeat Analyses)

Sample Location: Flare Inlet
Date Received: June 22, 2020
Date Analyzed: June 22, 2020

| | Sample | Sample Repeat Ana | | Mean | % Diff. |
|-----------------|-------------------------|-------------------|----------------|--------|-----------|
| | ID | Run #1 | Run #2 | Conc. | From Mean |
| Components | - 71 | (Conce | entration in p | omv,C) | |
| Carbon monoxide | Flare Inlet SUMMA (192) | 22.9 | 21.0 | 22.0 | 4.3 |
| | | 19.9 | 20.0 | 19.9 | 0.23 |
| TGNMO | Flare Inlet SUMMA (192) | 2780 | 2790 | 2790 | 0.23 |
| | | 2730 | 2770 | 2750 | 0.65 |

Two SUMMA canister samples, laboratory numbers 21740-(1 - 2), were analyzed for TGNMO and methane. Agreement between repeat analyses is a measure of precision and is shown in the column "% Difference from Mean". The average % Difference from mean for 4 repeat measurements from 2 SUMMA canister samples is 1.4%.



| CHAIN OF CUSTODY RECORD | | | | | | | | | | | | | |
|---------------------------------------|--|----------------------|-------------|-------------|--------------------|--------------------|----------|----------|----------------------|--|------------------|------------|---------|
| Client/Project Name | | Project Loc | cation | 1 / | . 11 | ANALYSES REQUESTED | | | | | | | |
| Johnsonith | Land Kill | John Smith Land Kill | | | / | _ / | / | / ری/ | | (() | | | |
| Project No. | | Field Logb | ook No. | | ·················· | / | / | | / | idip | U | NAOCCO | |
| - | | | | | | / . | _ / | | | 10 | c0/< | Nº CAD | |
| Sampler: (Signature) | 0/ | Chain of C | ustody Tape | No. | | / < | ら/^ | X/ | $oldsymbol{ee}ig/$: | $\frac{1}{2}$ | 5/ | <i>C</i> / | |
| SIR. | | | , | | | ×°, | | / | K K | 10/2/2 10/2/2 | 7 / 7 | NA CO | |
| Sample No. | Type of | AtmA | A Lab | Sampling | Sampling | / X | | 1.6 | $/ \times_{k}$ | .\'*\ | JON. | | |
| Identification | Sample | | nber | Date | Time | <u> </u> | | / X | \ k\(\rangle) | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | / ^(X) | Special F | Remarks |
| Flare Inlet | Grab | 21740 | n/ | 6-17-20 | 11:20An | \prec | \prec | 7 | \forall | × | / | CANE C | 0192 |
| Flage Inlet | Grab | | -2 | 6-17-20 | 11:25AM | 8 | × | X | \times | 7 | X | CANH | |
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| | | | | | | | | | | | | | |
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| - White Walls and | | | | | | | | | | | | | |
| Relinquished by: (Signate | ure) | | Date | Time | Received b | y: (Sign | ature) | L | I | <u> </u> | <u> </u> | Date | Time |
| W/B | and the second s | | 6-17-70 | 2:00PM | | es S | | | | | | 6.17.20 | 2:00 pm |
| Relinquished by: (Signate | ure) | | Date | Time | Received b | y (Signa | ature) | | | | | Date | Time |
| 1 Muy S | | | 6.18.20 | 12:00pm | 1 | / | | | | | | | |
| Relinquished by: (Signat | ture) | | Date | Time | Received for | or Labor | atory by | : (Signa | ture) | | | Date | Time |
| | | | | | | M | | | | | | 6-22-20 | F130 |
| Company Info: |] | | Send Rep | ort to: | | 4 | | Analy | tical La | borator | у | _ | _ |
| Company: | | | | Company: | | | | Atn | nAA Ind | c. | | // | |
| Street Address | | | Stre | et Address | | | | 239 | 17 Crafi | tsman R | ld. | | |
| City/State/Zip: City/State/Zip: | | | | | Cala | abasas, | , CA 91: | 302 | // (| | | | |
| Telephone No.: | | | Projec | ct Manager: | | | | TEL | .: (818) | 223-32 | 77 | | |
| Fax No.: | | | Ema | il Address: | | | | FAX | (: (818) | 223-82 | 50 | | |

John Smith Road Landfill - DEIR ATTACHMENT C

Criteria Pollutants - Flare Analyses and Proposed Project Projections

Table C1 CURRENT (2020) ANALYSES

From JSRL Flare Stack Test:

Flow 573 DSCFM @ 38.2% methane = 438 cfm @ 50% methane

NOx 9.1 lb/day

Calculated N₂O 0.06050 Mt/yr From table C4

SO2 39.2 lb/day VOC inlet 966.7 ppm VOC inlet 1.382 lb/hr VOC Destruction 99.22% VOC outlet <0.11 lb/hr VOC outlet <2.64 lb/day CO <0.48 lb/day CH. Inlet 38.2 % CH4 destruction >99 998 % 545.7 lb/hr CH₄ Outlet

Estimated based on 2020 Flare Stack Test Data from Tehama Landfill

Tehama Flow

PM10 0.0007 gr/DSCF PM10 0.0000001 lb/DSCF $PM10 \sim$ 0.08 lb/day @ 573 dscfm

DSCF = Dry Standard Cubic Foot

gr/DSCF = Grains per Dry Standard Cubic Foot

7000 grains = 1 lb

ACFM = Actual Cubic Foot per Minute

Note ACFM ~ 101.5% of DSCFM

Table C2 BASELINE FLOW CURRENT PROJECT

Current project modeled peak flow at 50% methane 594 DSCFM Year Current Operation Peak Flow from 80% of LandGEM 475 DSCFM 2021

Ratio of Future Flow to Current Flow (At 50% methane) 1.09

Future Criteria Pollutants by ratio:

9.88 lb/day NOx SO2 42.55 lb/day VOC outlet <2.96 lb/day <0.54 lb/day CO PM10~ 0.09 lb/day

119 CFM Fugitive emissions 20% of LandGEM VOC from above 1.382 lb/hr @ 573 DSCFM

Ratio of analyzed flow to estimated fugitive emissions

VOC x ratio 0.29 lb/hr VOC in lb/day 6.88 lb/day

Table C3 PROJECTED FOR PEAK PROPOSED PROJECT (2071) - Assuming All LFG is flared

Percent Collection Efficiency 90% 95% 98% Peak projected total flow at 50% methane in 2071 2,449 2,449 2,449 2,449 2,449 1709 CFM From CEC Consultants Project Peak Flare for each % Collection Efficiency 1 959 2 204 2 327 1.675 DSCFM 2.082 2 400 Ratio of Future Flow to Current Flow through flare (at 50% methane) 4.48 4.76 5.03 5.31 5.48 3.83 Future Criteria Pollutants by ratio: NOx 40.73 43.27 45.82 48.36 49.89 34.81 lb/day SO_2 175.44 186.40 197.36 208.33 214.91 149.97 lb/day VOC outlet <9.59 <11.08 <11.08 lb/day < 9.03 <10.15 <10.72 <2.27 lb/day <1.85 <1.96 CO <2.08 <2.20 <2.27 PM10~ 0.37 0.39 0.42 0.44 0.45 0.32 lb/day Fugitive emissions of LandGEM 490 367 245 122 49 34 CFM VOC inlet from above 1.382 lb/hr @ 573 573 573 573 573 573 DSCFM

0.21

80%

85%

Ratio of analyzed flow to estimated fugitive emissions 0.85 0.64 0.43 0.21 0.09 0.06 VOC x ratio 1.18 0.89 0.59 0.30 0.12 0.08 lb/hr VOC in lb/day 1.98 lb/day 28.35 21.26 14.18

Source Test Report

COUNTY OF SAN BENITO JOHN SMITH ROAD LANDFILL Hollister, CA

Landfill Gas Flare NOx, CO, SOx, CH₄ & VOC Emission Results Permit #GNR-0017463

Test Date: February 12, 2020 Report Date: March 6, 2020

Performed and Reported by:

BEST ENVIRONMENTAL 339 Stealth Court Livermore, CA 94551 Phone: (925) 455-9474 Fax: (925) 455-9479

Prepared For:

The John Smith Road Landfill 2650 John Smith Road Hollister, CA 95023 Attn: Chris Nottenkamper

For Submittal To:

Monterey Bay Air Resources District 24580 Silver Cloud Court Monterey, CA 93940

REVIEW AND CERTIFICATION

Team Leader:

The work performed herein was conducted under my supervision, and I certify that the details and results contained within this report are to the best of my knowledge an authentic and accurate representation of the test program. If this report is submitted for compliance purposes it should only be reproduced in its entirety. If there are any questions concerning this report, please call the Team Leader or Reviewer at (925) 455-9474.

William Johnston

Project Manager

Reviewer:

I have reviewed this report for presentation and accuracy of content, and hereby certify that to the best of my knowledge the information is complete and correct.

Basim (Bobby) Asfour

Principal

Source Test Information

Source Owner: County of San Benito

Source Location: County of San Benito

Integrated Waste Management Department

3220 Southside Road Hollister, CA 95023

Attn: Chris Nottenkamper

Source Description: Landfill Gas Flare

PTO Number: GNR-0017463

Test Parameters: O₂, VOC, NO_x and CO

Emission Limits:Emission Results:NOx: 0.06 lb/MMBtu0.03 lb/MMBtuCO: 0.40 lb/MMBtu<0.002 lb/MMBtu</td>VOC: 0.03 lb/MMBtu<0.0009 lb/MMBtu</td>

THC: 98% DRE >99.22 DRE

Methane: 99% DRE >99.99 DRE

SO₂, ppm: 2,000 ppm 36 ppm

Source Testing Firm: BEST ENVIRONMENTAL

339 Stealth Court Livermore, CA 94551 Phone (925) 455-9474 Fax (925) 455-9479

Contact: Regan Best or Bobby Asfour

Test Date: February 12, 2020

Analytical Laboratories: BEST ENVIRONMENTAL

339 Stealth Court Livermore, CA 94551 Phone (925) 455-9474 Fax (925) 455-9479

TABLE of CONTENTS

| SECTIO | ON 1. | INTRODUCTION | 1 |
|--------------|--------|---|-----|
| 1.1. | | PURPOSE | |
| 1.2. | | LOCATION | |
| 1.3. | | T Date | |
| 1.4. | | OWABLE EMISSIONS | |
| 1.5. | | PARAMETERS AND METHODS | |
| 1.6. 1.7. | | PLING AND OBSERVING PERSONNEL | |
| SECTION | | SUMMARY OF RESULTS | |
| | | | |
| 2.1. | | SSION RESULTS | |
| 2.2. 2.3. | | CESS DATAIMENTS: DISCUSSION OF QUALITY ASSURANCE AND ERRORS | |
| _ | | | |
| SECTIO | ON 3. | SOURCE OPERATION | 3 |
| 3.1. | Proc | CESS DESCRIPTION | 3 |
| 3.2. | | W DIAGRAM | |
| 3.3. | Proc | CESS AND CONTROL OPERATING PARAMETERS | 3 |
| 3.4. | | RATING PARAMETERS | |
| 3.5. | TEST | TING OR PROCESS INTERRUPTIONS AND CHANGES | 3 |
| SECTIO | ON 4. | SAMPLING AND ANALYSIS PROCEDURES | 4 |
| 4.1. | Por | T LOCATION | 4 |
| 4.2. | Poin | IT DESCRIPTION | 4 |
| 4.3. | MET | HOD DESCRIPTION, EQUIPMENT, SAMPLING, ANALYSIS AND QA/QC | 4 |
| 4.4. | ANA | LYTICAL LABORATORIES | 6 |
| TABLE | 1-FLA | RE NOX, CO, SOX, CH4 & VOC EMISSION RESULTS | 7 |
| APPEN | DICES. | | |
| | A. | Calculations & Nomenclature | A-1 |
| | B. | Field Data Sheets | B-1 |
| | C. | Laboratory Reports | |
| | D. | Strip Charts Records | |
| | E. | Calibration Gas Certificates | |
| | F. | Stack Diagrams | |
| | G. | Sampling System Diagrams | |
| | Н. | Source Test Plan | |
| | I. | Permit to Operate | I-1 |

SECTION 1. INTRODUCTION

1.1. Test Purpose

Best Environmental (BE) was contracted by the County of San Benito, Integrated Waste Management Department to perform NOx, CO, SOx, THC, CH₄ & VOC emissions testing on one landfill gas fired flare. The purpose of the test was to demonstrate compliance with Monterey Bay Air Resources District (MBARD) and the Title V Permit to Operate (PTO) # GNR-0017463. A copy of the permit is included in the appendices.

1.2. Test Location

The test was conducted Landfill Gas Fired Flare which is located at the John Smith Road Landfill, 2650 John Smith Road, Hollister, California.

1.3. Test Date

The test was conducted on February 12, 2020.

1.4. Allowable Emissions

See Table 2.1 located in Section 2 Summary of Results. The test results show that the flare is with-in the emission limits shown in the Permit to Operate.

1.5. Test Parameters and Methods

The following emission parameters were measured.

| Parameter | Methods |
|---|-------------------------|
| NOx, CO & O ₂ | EPA Methods 7E, 10 & 3A |
| Inlet & Outlet THC, CH ₄ & VOC | EPA Method 18 |
| Exhaust Volumetric Flow Rate | EPA Method 19 |
| Fuel BTU & F-factor (HHV) | ASTM D-1945/3588 |
| Fuel Total Sulfur as H ₂ S | EPA Method 15 |

1.6. Sampling and Observing Personnel

Sampling was performed by William Johnston and Burt Kusich of BE. Sandy Hartunian from MBARD was present to witness the test.

1.7. Important Background Information

The previous source test was performed on February 7, 2019 demonstrating compliance. A source test is required annually.

SECTION 2. SUMMARY OF RESULTS

2.1. Emission Results

Table 2.1 summarizes the Average Outlet Test Results. Triplicate 30-minute runs were performed for all test parameters. A full summary of the test results is presented in Table 1 on page 7. The test was conducted according to approved EPA test methods.

Table 2.1: Average Outlet Test Results
Flare
Permit GNR-0017463

| Parameter | Flare Average | Allowable Emissions |
|---|---------------|---------------------|
| NOx, lbs/MMBtu | 0.0289 | 0.06 |
| CO, lbs/MMBtu | < 0.0015 | 0.40 |
| VOC, lbs/MMBtu as methane | < 0.0009 | 0.03 |
| CH ₄ , DRE | >99.99% | ≥99% |
| THC, DRE | >99.22% | ≥98% |
| Outlet SO ₂ , ppm (calculated) | 35.65 | 2000 |

2.2. Process Data

The temperature and fuel rate of the flare was recorded manually during each run. The following table presents the Operating Parameters recorded during each run.

Table 2.2: Operating Parameters

| Parameter | Fuel Flow Meter, SCFM | Flare Temp., °F |
|-----------|-----------------------|-----------------|
| Run # 1 | 573 | 1,604 |
| Run # 2 | 570 | 1,598 |
| Run # 3 | 577 | 1,600 |

2.3. Comments: Discussion of Quality Assurance and Errors

Quality assurance procedures listed in the above referenced test methods and referenced in the Source Test Plan are performed and documented. The QA/QC procedures are described in Section 4.3 of the report.

VOC is assumed equal to total non-methane/non-ethane hydrocarbons. The results are reported as methane. For reporting purposes THC is equal to VOC.

Exhaust SOx emissions were calculated using mass balance calculations based on the measured inlet total sulfur content as allowed by EPA Method 19.

SECTION 3. SOURCE OPERATION

3.1. Process Description

The County of San Benito operates one landfill gas fired flare at the John Smith Road Landfill. The flare is a control device for the treatment of landfill gas (mainly methane, carbon dioxide and nitrogen) that is generated from the decomposition of waste. The gas is collected in a network of interconnected pipes from several extraction wells that draw a vacuum on the vapors in the landfill. The vapors are treated to remove condensate and particulate material, and then they are incinerated in the flare. The flare operates 24 hours per day.

3.2. Flow Diagram

A digital image of the flare stack is contained in Appendix F.

3.3. Process and Control Operating Parameters

The flare was operated at an average of 1,601°F and at an average fuel rate of 573 SCFM according to the flare's monitoring devices.

3.4. Operating Parameters

The flare was operating normally during the test.

3.5. Testing or Process Interruptions and Changes

No process interruptions occurred during the testing.

SECTION 4. SAMPLING AND ANALYSIS PROCEDURES

4.1. Port Location

Emissions from the flare were sampled via ports located on the round stack approximately 5 stack diameters downstream of the burners and 1 stack diameter upstream from the exit. Access to the sampling ports was provided by a ladder.

The dimensional cross-sections of the stack is 72 inches (Area SQFT = 28.274)

The fuel line to the flare is a 12-inch PVC pipe with an inside diameter of \sim 11.75 inches (Area SQFT = 0.753). A single port/tap was located directly on the flame arrestor.

4.2. Point Description

A three-point traverse of the stack was conducted prior to Run 1. The average Oxygen concentration at each traverse point was less than 0.3% from the average. Based on the $O_2\%$ concentrations, the gas stream is considered unstratified and single point sampling was conducted (Basis: EPA Method 7E section 8.1.2 and Method 3A, section 8.1).

4.3. Method Description, Equipment, Sampling, Analysis and QA/QC

Sampling and analytical procedures of the EPA Methods are followed as published in the "Quality Assurance Handbook for Air Pollution Measurement Systems" Volume III, US EPA 600/4-77-027b.

| Parameter | Location | Methods | Duration | # of Runs |
|---|----------|-------------------------|----------|--------------|
| NO _x , CO & O ₂ | Exhaust | EPA Methods 7E, 10 & 3A | 30 mins | 3 |
| THC, CH ₄ , VOC | Exhaust | EPA Method 18 | 30 mins | 3 |
| Flow Rate, DSCFM | Exhaust | EPA Method 19 | 30 mins | 3 |
| THC, CH ₄ , VOC | Inlet | EPA Method 18 | 30 mins | 3 |
| Gas High Heating Values (HHV) and Fixed Gases | Inlet | ASTM D-1945 & 3588 | N.A. | 3 |
| Total Sulfur as H ₂ S | Inlet | EPA Method 15 | N.A. | 3 |

The following is an overview of the Testing Performed

EPA Method 7E, 10 & 3A are all continuous monitoring techniques using instrumental analyzers. Sampling is performed by extracting exhaust flue gas from the stack, conditioning the sample and analyzing the flue gas using continuous monitoring gas analyzers in a CEM test van. The sampling system consists of a stainless-steel sample probe, Teflon sample line, glass-fiber particulate filter, glass moisture-knockout condensers in ice, Teflon sample transfer tubing, diaphragm pump and a stainless steel/Teflon manifold and flow control/delivery system. A constant sample and calibration gas supply pressure of 5 PSI is provided to each analyzer to avoid pressure variable response differences. The entire sampling system is leak checked prior to and at the end of the sampling program.

The BE sampling and analytical system is checked for linearity with zero, mid and high level span calibration gases, and is checked for system bias at the beginning of the test day. System bias is determined by pulling calibration gas through the entire sampling system. Individual test run calibrations uses the calibration gas, which most closely matches the stack gas effluent. The calibration gases are selected to fall approximately within the following instrument ranges; 80 to 95 percent for the high calibration, 40 to 60 percent for the mid range and zero. Bias zero and calibration drift values are determined for each test run. All BE calibration gases are EPA Protocol 1. The analyzer data recording system consists of multi-channel strip chart recorders, which is supported by BE's Computer Data Acquisition System (DAS). The NO₂ converter was checked and confirmed to be > 90% efficient.

EPA Methods 7E, 10 & 3A met the following criteria:

System Criteria

Instrument Linearity $\pm 2\%$ Calibration Span or 0.5 difference Instrument Bias $\pm 5\%$ Calibration Span or 0.5 difference

Calibration Gas $\pm 2\%$ Value

NO₂ converter efficiency >90%

Test Criteria

Instrument Zero Drift $\pm 3\%$ Calibration Span or 0.5 difference Instrument Span Drift $\pm 3\%$ Calibration Span or 0.5 difference

The following continuous monitoring analyzers were used:

| <u>Parameter</u> | <u>Make</u> | <u>Model</u> | <u>Principle</u> |
|------------------|-------------|--------------|-------------------|
| NO_x | CAI | 600CLD | Chemiluminescence |
| CO | TECO | 48i | GFC IR analyzer |
| O_2 | CAI | 110P | Paramagnetic |

EPA Method 18 is used to determine carbon speciated hydrocarbons (C_1 , C_2 & C_3+) emissions by gas chromatograph / Flame Ionization Detection (GC/FID). Gaseous emissions are drawn through a Teflon sample line to a tedlar bag located in a rigid leak proof bag container. Sample is drawn into the bag by evacuating the container to stack gas pressure to allow sample flow without using a pump to avoid contamination. Negative pressure is adjusted to maintain an integrated sample flow between 20 to 60 minutes. The bag samples are taken to a laboratory and analyzed within 72 hours. The results are reported as methane with a detection limit of 1 ppm for non-methane organic compounds (C_3+).

EPA Method 19 is used to determine stack gas volumetric flow rates using oxygen based F-factors. F-factors are ratios of combustion gas volumes generated from heat input. The heating value of the fuel in Btu per cubic foot is determined from the analysis of fuel gas samples using gas chromatography (GC). Dedicated fuel meters monitor total fuel consumption for the source. The total cubic feet per hour of fuel multiplied times the Btu/CF provides million Btu per hour (MMBTU) heat input. The heat input in MMBTU/hr is multiplied by the F-factor (DSCF/MMBTU) and adjusted for the measured oxygen content of the source to determine volumetric flow rate. This

procedure is proposed for pollutants whose compliance standards are based on emission rates (lb/day) or emission factors (lb/MMBtu).

Hydrogen Sulfide by EPA Method 15 (modified). Fuel sample(s) are collected in Tedlar® bag(s) under pressure from the source (without any contact with stainless steel components). The sample is shipped to a laboratory and analyzed within 24 hrs for H₂S using a gas chromatography/flame photometric detector. Analysis was performed in-house at the BE laboratory

EPA Method ASTM D-1945 & D-3588 analysis is used to determine the contents of fuel gas (e.g. Methane, fixed gases, BTU Content & total sulfur as H₂S). Inlet gases are filled into a tedlar bag, the bag is labeled respectively then sent to a Laboratory and analyzed for total sulfur, fixed gases, methane and C₁-C₆ using GC/TCD (gas chromatography/thermoconductivity detector & Oxidative Microcoulometry). Each compound has calorific values that are used to calculate the combustion factors.

4.4. Analytical Laboratories

Inlet and outlet bag samples were analyzed by BE for VOC and CH₄, fuel characterization and sulfur analysis.

For more information on the analysis procedure and QA/QC refer to Appendix C.

TABLE #1 John Smith Landfill Flare

NOx, CO, CH₄, VOC & SOx Test Results **Permit GNR-0017463**

| TEST | 1 | 2 | 3 | AVERAGE | LIMIT |
|--|-------------|-----------|-----------|----------|-------|
| Test Date | 2/12/20 | 2/12/20 | 2/12/20 | | |
| Test Time | 930-1000 | 1009-1039 | 1049-1119 | | |
| Standard Temp., °F | 68 | 68 | 68 | | |
| Pro | cess Parame | eters | | | |
| Flare Temp., °F | 1,604 | 1,598 | 1,600 | 1,601 | |
| Fuel F-Factor, DSCF/MMBtu | 10,227 | 10,072 | 10,190 | 10,163 | |
| Inlet Methane (CH ₄) Content, % | 37.70 | 38.50 | 38.40 | 38.20 | |
| Inlet Fuel Flow Rate, DSCFM | 573 | 570 | 577 | 573 | |
| Heat Input, MMBtu/hr | 12.93 | 13.10 | 13.26 | 13.09 | 22.93 |
| | Outlet | | | | |
| Outlet Flow Rate, DSCFM (M19) | 4,554 | 4,552 | 4,655 | 4,587 | |
| O ₂ , % | 10.79 | 10.80 | 10.78 | 10.79 | |
| NOx, ppm | 11.13 | 11.73 | 11.78 | 11.54 | |
| NOx, lbs/hr | 0.36 | 0.38 | 0.39 | 0.38 | |
| NOx, lbs/day | 8.71 | 9.18 | 9.42 | 9.10 | |
| NOx, lbs/MMBtu | 0.0280 | 0.0291 | 0.0295 | 0.0289 | 0.06 |
| NOx, lbs/MMCF | 10.56 | 11.18 | 11.34 | 11.03 | |
| CO, ppm | <1.0 | <1.0 | <1.0 | <1.0 | |
| CO, lbs/hr | < 0.0199 | < 0.0198 | < 0.0203 | < 0.0200 | |
| CO, lbs/day | < 0.48 | < 0.48 | < 0.49 | < 0.48 | |
| CO, lbs/MMBtu | < 0.0015 | < 0.0015 | < 0.0015 | < 0.0015 | 0.40 |
| CO, lbs/MMCF | < 0.58 | < 0.58 | < 0.59 | < 0.58 | |
| SO2, ppm (Calculated) | 30.07 | 37.06 | 39.83 | 35.65 | 2000 |
| SO2, lb/hr | 1.36 | 1.68 | 1.85 | 1.63 | |
| SO2, lb/day | 32.8 | 40.3 | 44.3 | 39.2 | |
| CH ₄ , ppm | <1.0 | <1.0 | <1.0 | <1.0 | |
| CH ₄ , lbs/hr | < 0.011 | < 0.011 | < 0.012 | < 0.011 | |
| VOC, ppm as methane | <1.0 | <1.0 | <1.0 | <1.0 | |
| VOC, lbs/hr | < 0.011 | < 0.010 | < 0.010 | < 0.011 | |
| VOC, lbs/MMBtu as methane | < 0.0009 | < 0.0009 | < 0.0009 | < 0.0009 | 0.03 |
| VOC, lbs/MMCF | < 0.33 | < 0.30 | < 0.30 | < 0.31 | |
| | Inlet | | | | |
| Inlet CH ₄ , ppm | 377,000 | 385,000 | 384,000 | 382,000 | |
| Inlet CH ₄ , lbs/hr | 538.3 | 546.8 | 552.1 | 545.7 | |
| Inlet VOC, ppm as methane | 968.5 | 862.8 | 1,068.8 | 966.7 | |
| Inlet VOC, lbs/hr | 1.383 | 1.225 | 1.537 | 1.382 | |
| | Efficiency | | | | |
| VOC, Destruction Efficiency % | >99.18% | 99.17% | >99.32% | >99.22% | 99% |
| CH ₄ , Destruction Efficiency % | >99.998% | >99.998% | >99.998% | >99.998% | 98% |
| | Gas Sulfur | Content | | | |
| Inlet Total Sulfur as H ₂ S, gr/100dscf | 14.12 | 17.49 | 18.99 | 16.87 | 50 |
| Inlet Total Sulfur as H ₂ S, ppm | 238.97 | 295.92 | 321.31 | 285.40 | |
| Inlet Total Sulfur as SO ₂ , lbs/hr | 1.365 | 1.681 | 1.848 | 1.63 | |
| SO2, ppm (Calculated) | 30.07 | 37.06 | 39.83 | 35.65 | |

WHERE:

DSCFM = Dry Standard Cubic Feet Per Minute

ppm = Parts Per Million Concentration

lbs/hr = Pound Per Hour Emission Rate

lbs/MMBtu = Pounds per million BTU

 $H_2S = Hydrogen Sulfide (M.W. = 32)$

 $SO_2 = Sulfur Dioxide (MW = 64)$

CO = Carbon Monoxide (MW = 28)

NOx = Oxides of Nitrogen as NO₂ (MW = 46)

VOC = Total Non-Methane Hydrocarbons as Methane-C1 (MW = 16) CH₄

CALCULATIONS:

 $VOC ppm = THC ppm - CH_4 ppm$

 $lbs/hr = ppm * DSCFM * MW *60 / 379 x 10^6 (@60°F)$

lbs/hr (SOx)= ppm as $H_2S * DSCFM (inlet) * MW * 60 / 379 x <math>10^6 (@60^{\circ}F)$

Removal Efficiency = (inlet lbs/hr-outlet lbs/hr) / Inlet lbs/hr

lbs/MMBtu = Fd * M.W.* ppm * $2.59E-9 * (20.9/(20.9-\%O_2))$

 SO_2 ppm (outlet) = lbs/hr / (DSCFM * M.W. * 60) * 385E6

lbs/MMCF = (lbs/hr * 1,000,000) / (Fuel SCFM * 60)

Tehama County / Red Bluff Landfill

Tehama County APCD Title V Permit # TV00239

Compliance Emissions Test Report #20320

14 MMBtu/hr Enclosed Ground Flare

Located at:

Tehama County / Red Bluff Landfill

UTM Zone 10: East 560.151, North 4,449.670

Prepared For:

Green Waste of Tehama,

A Waste Connections Company 19995 Plymire Road

Red Bluff, CA 96080

Attn: John Heath john.heath@wasteconnections.com

For Submittal To:

Tehama County APCD

1834 Walnut Street (P.O. Box 1169) Red Bluff, CA 96080

Attn: Joseph Tona jtona@tehcoapcd.net

Testing Performed On:

November 16th, 2020

Final Report Submitted On: **December 30**th, **2020**

Performed and Reported by: Blue Sky Environmental, Inc.

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December 30th, 2020

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Attn: Joseph Tona

Subject: Compliance emissions test report for Tehama County/ Red Bluff Landfill's landfill gas flare, located at East 560.151, North 4,449.670. Tehama County APCD Permit #TV00239.

Test Date(s): Testing was performed on November 16th, 2020

<u>Sampling Location:</u> Sampling was conducted at the 28-foot exhaust stack of the flare through two 4-inch that were accessible by scissor-lift. The ports met the EPA Method 1 minimum criteria of 2 diameters downstream from the nearest disturbance and 0.5 stack diameters upstream from the nearest disturbance or exhaust. Blue Sky Environmental performed a 12-point traverse of the 63-inch diameter stack.

<u>Sampling Personnel:</u> Sampling was performed by Chuck Arrivas and Wes Alder, representing Blue Sky Environmental, Inc.

<u>Observing Personnel</u>: The Tehama County APCD was notified of the upcoming testing in a source test plan submitted on October 15th, 2020 and approved on November 3rd, 2020. No agency observers from the Tehama County APCD were present during testing.

Process Description: The 159.6-acre landfill site operates a 14 MMBtu/hr LFG&E International Triton GF-500 enclosed ground flare and landfill gas collection system to burn landfill gas generated in the landfill. The flare temperature set-point is 1,500°F. The recorded temperature is an average of the lower thermocouple. The landfill gas fuel flow and flare temperature are continuously monitored and recorded.

<u>Test Program</u>: This source test on the site's landfill gas flare to evaluate emission rates and destruction efficiency of filterable particulate matter (FPM), non-methane hydrocarbons (NMHC), NO_X and CO, and determine compliance with Tehama County APCD permit #TV00239.

Three consecutive 30-minute gaseous emissions tests were performed for oxides of nitrogen (NO_X), carbon monoxide (CO), carbon dioxide (CO₂), and oxygen (O₂) at the exhaust stack on the unit. Volumetric flow rate was calculated using Method 19. The sampling system was checked for leaks before the start of testing. Analyzer external calibrations were performed before and after each run using EPA protocol certified gas standards. Calibration gases were introduced to the sample manifold at the same flow rate as the sample. A NOx analyzer converter efficiency check was performed before the first test run and found to be greater than 90%.



Three sixty-minute test runs were performed for particulates at the exhaust stack of the flare. Backhalf condensable particulate fractions were also collected but were not part of the permit emission limit.

<u>Sampling and Analysis Methods</u>: The following U.S. Environmental Agency (EPA) and ASTM International sampling and analytical methods were used:

EPA Method 3A O₂ and CO₂

EPA Method 10 CO EPA Method 7E NO_X

ASTM 5504 Sulfur Species in LFG

ASTM 1945/3588 Gas analysis for BTU and F-Factors

EPA Methods 1-5 Particulate, Moisture and Stack Flow rate.

EPA Method 19 Stack Flow Rate

EPA Method 1 – Sample and Velocity Traverses for Stationary Sources

This method is used to determine the duct or stack area and appropriate traverse points that represent equal areas of the duct for sampling and velocity measurements.

EPA Method 2 – Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)

This method is used to determine stack gas velocity and volumetric flow rate using a standard or S-type pitot tube and inclined manometer. Temperature is monitored using a K-type thermocouple and calibrated Omega temperature meter. <u>QA/QC</u> procedures include a system leak check before and after each traverse to validate the results. Thermometer calibrations are performed using an Omega Model CL-300 calibrator. Geometric calibrations of S-type pitot tubes are performed every six months or according to the guidelines outlined in California Air Resources Board (CARB) QA/QC Volume VI, Table 3.

EPA Method 4 – Determination of Moisture Content in Stack Gas

This method is used to determine the moisture content of stack gas. The sample is extracted and condensed in Greenburg-Smith impingers immersed in an ice bath and in a final impinger silica gel trap. The moisture is condensed in a solution of de-ionized water, or solutions of another type of sampling train if the moisture is being determined as part of another sampling method, such as EPA Method 5 or EPA 12. The moisture gain in the impinger solutions and silica gel is determined volumetrically and gravimetrically respectively. QA/QC procedures require that a minimum of 21 cubic feet of sample is pulled using a leak tight pump. The sample volume is measured with a calibrated dry gas meter. The impingers are immersed in an ice bath to maintain a gas outlet temperature of less than 68°F. Pre-test leak checks are performed for each run using a minimum 15 inches of mercury vacuum. Post-test leak checks are performed at the highest sample vacuum or greater. The leak test is acceptable if the leak rate is less than 0.02 cubic feet per minute or 4% of the average sampling rate, whichever is less. If the final leak check exceeds the criteria, either the volume is corrected based on the leak rate or the run is voided and repeated.

EPA Method 3A – Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure)

This method is used to measure oxygen and carbon dioxide in stationary source emissions using a continuous instrumental analyzer to determine the molecular weight of the stack gas.



EPA Method 7E – Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyzer Procedure)

This method is used to measure nitrogen oxides in stationary source emissions using a continuous instrumental analyzer. Section 16.2.2 of the method is used to determine the NO_X analyzer NO₂ to NO conversion efficiency.

EPA Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources

This method is used to measure carbon monoxide from integrated or continuous gas samples extracted from a sampling point.

EPA Methods 3A, 7E and 10 are all continuous monitoring techniques using instrumental analyzers. Sampling is performed by extracting exhaust flue gas from the stack, conditioning the sample, and analyzing it by continuous monitoring gas analyzers in a continuing emissions monitoring (CEM) test van. The sampling system consists of a stainless steel sample probe, Teflon sample line, glass-fiber particulate filter, and glass moisture-knockout condensers in ice, followed by thermoelectric coolers (optional), Teflon sample transfer tubing, a diaphragm pump, and a stainless steel/Teflon manifold and flow control/delivery system. A constant sample and calibration gas supply pressure of 5 PSI is provided to each analyzer to avoid pressure variable response differences. The entire sampling system is leak checked prior to and at the end of the sampling program.

The sampling and analytical system is checked for linearity with zero, mid (40-60%) and high span (80-100%) calibrations and is checked for system bias at the beginning and end of each run. System bias is determined by introducing calibration gas to the probe and pulling it through the entire sampling system. Individual test run calibrations use the calibration gas that most closely matches the stack gas effluent. All calibrations during testing are performed externally to incorporate any system bias that may exist. Sampling system bias, zero and calibration drift values are determined for each test. EPA Methods 3A, 7E and 10 all defer to EPA Method 7E for the calculations of effluent concentration, span, calibration gas, analyzer calibration error (linearity), sampling system bias, zero drift, calibration drift and response time.

All calibration gases are EPA Protocol #1. The analyzer data recording system consists of a Honeywell DRP3000 strip chart recorder supported by a Data Acquisition System (DAS).

EPA Method 19 – Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxide Emission Rates

This method is used to determine stack gas volumetric flow rates using oxygen-based F-factors. F-factors are ratios of combustion gas volumes to heat inputs. The heating value of the fuel in Btu per cubic foot is determined from the facility monitors Gross Calorific Value (GCV) or WOBBE. Fixed gas values are entered to calculate a matching WOBBE/GCV value. This generates the Fd-factor used in the Method 19 calculations to calculate mass emission rates, which are not required by the facility permit. Total fuel consumption is measured and recorded by the facility. The flow rates are used to determine emission rates.

EPA Method 5 – Determination of Particulate Matter Emissions from Stationary Sources

This method is used to determine the filterable particulate emissions. The sampling equipment consists of a stainless steel or glass nozzle, a heated probe, heated filter box and filter holder with 90mm glass fiber filter, followed by a Teflon line and umbilical to four Greenburg-Smith impingers, a pump and a meter control module. Filterable particulate is determined gravimetrically from the probe/nozzle acetone rinse and filter, following evaporation and desiccation of these fractions. The first two impingers contain 100ml of de-ionized water each, a third short stem impinger is left empty

and the fourth impinger contains silica gel desiccant to dry the gas before the pump and gas meter. Moisture is condensed in the solution of de-ionized water and absorbed in the silica gel. The moisture gain in the impinger solutions and silica gel is determined volumetrically and gravimetrically respectively.

Sampling QA/QC: consists of pitot leak checks performed by pressurizing each leg of the pitot separately to a pressure greater than 3 inches of H₂O. The leak check is passed when no movement in the manometer fluid occurs over 15 seconds. Sampling system leak checks are performed before and after each test run. The sampling system leak checks are performed by capping the nozzle and pulling a vacuum greater than 15 inches of mercury and observing the meter rate. The leak check is passed when the leak rate is less than 0.02 CFM or 4% of the average sample rate, whichever is less. The final leak check is performed at a vacuum at least as high as the highest vacuum pulled during the run. The impingers are kept in ice to maintain the temperature of the gas exiting the last impinger to below 68°F. No silicone grease is used in the components of the sampling train. The dry gas meter, pitot, thermocouples, gauges, and nozzles are all calibrated according to the methods and with a frequency of between 6 to 12 months as specified in CARB QA/QC Volume VI, Table 3. Nozzles are calibrated in the field to within 0.001" diameter and are inspected for damage prior to each test. Acetone rinse blanks were collected using identical equipment, reagents, proportions, and techniques as the test samples.

ASTM D1945 – Analysis of Natural Gas by Gas Chromatography

This method is used to measure fixed gases (such as oxygen, nitrogen, carbon monoxide, and carbon dioxide) and methane by gas chromatography (GC/TCD). Light hydrocarbons, including C1-C7, are analyzed by GC/FID.

ASTM D-3588 – Standard Practice for Calculating Heat Value, Compressibility Factor, and Relative Density of Gaseous Fuels

This method uses the molar composition of gaseous fuel determined from Method ASTM D-1945 to calculate the heating value and F-factor.

ASTM D-5504 – Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence

This method is used for the determination of speciated volatile sulfur-containing compounds in high methane content gaseous fuels by gas chromatography. Sulfur compounds are processed using a flame ionization detector (GC/FID). The products are then analyzed with a sulfur chemiluminescence detector (GC/SCD). Samples may be collected in Tedlar bags and analyzed within 24 hours or in Silco SUMMA canisters and analyzed within 72 hours.

Instrumentation: The following continuous emissions analyzers were used:

| Instrument | Analyte | Principle |
|---------------------|---------|-------------------|
| TECO Model 42C | NO_X | Chemiluminescence |
| TECO Model 48C | CO | GFC/IR |
| Servomex Model 1440 | CO_2 | IR |
| Servomex Model 1440 | O_2 | Paramagnetic |

<u>Test Results</u>: The flare met all compliance emission criteria. The average emission compliance test results are summarized below. Detailed results for the individual test runs are presented in Tables 1-2.

| Emission Parameter | Average Results | Permit Limit |
|---|-----------------|--------------|
| NO _x , lbs/MMBtu | 0.0533 | 0.0744 |
| CO, lbs/MMBtu | 0.0159 | 1.4880 |
| H ₂ S, lbs/day | 6.5 | 50 |
| SO ₂ , ppm | 1.1 | 250 |
| NMHC, lbs/MMBtu | 0.0061 | 0.0744 |
| NMHC, ppm @ 3% O ₂ as hexane | 2.13 | 20 |
| NMHC Removal Efficiency | >96.4% | or >98% |
| CH ₄ Removal Efficiency | >99.997% | >99% |
| Total Particulate as PM ₁₀ (gr/dscf) | 0.0007 | 0.15 |



The appendices are organized as follows:

<u>Calculations</u>

All the calculations performed on the continuous emissions monitoring (CEM) data, particulate and flow rate calculations.

Laboratory Reports

All laboratory reports.

Field Data Sheets

All the CEMS data transcribed from the strip charts, and other sampling data records (i.e., Method 5).

OC Calibration Gas Certifications

Certifications for the calibration gas standards.

QC Equipment Calibrations

Calibration records for the pitots and dry gas meters.

Stack Diagram

Sketch or photograph of the stack.

Sample System Diagram

Schematic of the sampling system configuration

Permit / Authority to Construct

Permit to Operate / Authority to Construct

Source Test Plan

Sampling protocols submitted to the BAAQMD prior to testing

<u>Comments</u>: The measured emissions met the Permit required limits. No deviations from the protocol or anomalies during the test were observed.

The work performed herein was conducted under my supervision, and I certify that: a) the details and results contained within this report are to the best of my knowledge an authentic and accurate representation of the test program, b) that the sampling and analytical procedures and data presented in the report is authentic and accurate, c) that all testing details and conclusions are accurate and valid, and d) that the production rate and/or heat input rate during the source test are reported accurately.

If this report is submitted for compliance purposes it should only be reproduced in its entirety. If there are any questions concerning this report, please contact Jeramie Richardson at (810) 923-3181, Chuck Arrivas at (925) 338-4875 or Guy Worthington at (510) 508-3469.

Prepared by

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Reviewed by,

Guy Worthington

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Table #1

Red Bluff Landfill 14 MMBtu Flare 1,492°F

| RUN | Run 1 | Run 2 | Run 3 | AVERAGE | LIMITS |
|---|-----------|-----------|-----------|-----------|--------|
| Test Date | 11/16/20 | 11/16/20 | 11/16/20 | | |
| Test Time | 1013-1045 | 1144-1214 | 1321-1351 | | |
| Standard Temp., °F | 68 | 68 | 68 | | |
| Flare Temperature, °F | 1,491.7 | 1,489.7 | 1,493.9 | 1,491.8 | |
| Fuel Flow Rate, dscfm | 252 | 255 | 257 | 255 | |
| Fuel Heat Input, MMBtu/hr | 6.9 | 7.5 | 6.0 | 6.8 | |
| Exhaust Flow Rate, dscfm (Method 19) | 3,318 | 3,729 | 2,963 | 3,337 | |
| Oxygen, O ₂ , % | 14.0 | 14.2 | 14.2 | 14.1 | |
| Carbon Dioxide, CO ₂ , % | 5.1 | 5.0 | 5.1 | 5.1 | |
| Carbon Dioxide, CO ₂ , ppm | 51,421 | 50,434 | 50,789 | 50,881 | |
| Carbon Dioxide, CO ₂ , ppm @ 3% O ₂ | 132,595 | 134,354 | 134,872 | 133,940 | |
| Carbon Dioxide, CO ₂ , lbs/hr | 1,169 | 1,289 | 1,031 | 1,163 | |
| Carbon Dioxide, CO ₂ , lbs/MMcf | 1,623,299 | 1,641,226 | 1,653,405 | 1,639,310 | |
| Carbon Dioxide, CO ₂ , lbs/MMBtu | 169.4 | 171.5 | 172.4 | 171.1 | |
| NOx, ppm | 15.7 | 14.9 | 14.9 | 15.2 | |
| NOx, ppm @ 3% O ₂ | 40.4 | 39.7 | 39.5 | 39.9 | |
| NOx, lbs/hr | 0.37 | 0.40 | 0.32 | 0.36 | |
| NOx, lbs/MMcf | 517.3 | 507.5 | 505.3 | 510.0 | |
| NOx, lbs/MMBtu | 0.0540 | 0.0530 | 0.0528 | 0.0533 | 0.0744 |
| CO, ppm | 5.9 | 8.8 | 7.5 | 7.4 | |
| CO, ppm @ 3% O ₂ | 15.2 | 23.4 | 20.0 | 19.5 | |
| CO, lbs/hr | 0.1 | 0.14 | 0.10 | 0.11 | |
| CO, lbs/MMcf | 118.1 | 182.4 | 155.7 | 152.1 | |
| CO, lbs/MMBtu | 0.0123 | 0.0190 | 0.0163 | 0.0159 | 1.4880 |
| Total Reduced Sulfur as H ₂ S in fuel, ppm | 16.1 | 17.5 | 11.2 | 14.9 | |
| H ₂ S, lbs/hr | 0.3 | 0.3 | 0.2 | 0.3 | |
| H ₂ S, /lb/day | 6.8 | 8.3 | 4.2 | 6.5 | 50 |
| SO ₂ , ppm calculated emission concentration | 1.2 | 1.2 | 1.0 | 1.1 | 250 |
| SO ₂ , lbs/hr | 0.04 | 0.04 | 0.03 | 0.04 | |
| SO ₂ , lbs/day | 1.0 | 1.1 | 0.7 | 0.9 | |
| THC, ppm (M18) | 6.7 | 6.6 | 4.0 | 5.8 | |
| THC, lbs/hr as CH ₄ | 0.055 | 0.061 | 0.030 | 0.049 | |
| CH ₄ , ppm (M18) | 0.8 | 1.0 | 1.0 | 0.9 | |
| CH ₄ , lbs/hr as CH ₄ | 0.007 | 0.009 | 0.007 | 0.008 | |
| NMHC, ppm as CH ₄ | 6.0 | 5.6 | 3.0 | 4.9 | |
| NMHC, lbs/hr as CH ₄ | 0.050 | 0.052 | 0.022 | 0.041 | |
| NMHC (VOC), lbs/MMBtu | 0.0072 | 0.0069 | 0.0037 | 0.0061 | 0.0744 |
| NMHC, ppm @ 3% O ₂ as hexane | 2.58 | 2.49 | 1.33 | 2.13 | <20 |
| INLET NMHC ppm as CH ₄ | 2,013 | 1,630 | 1,773 | 1,805 | |
| INLET NMHC ppm as hexane | 335 | 272 | 295 | 301 | or |
| INLET NMHC lbs/hr as CH ₄ | 1.26 | 1.04 | 1.13 | 1.14 | |
| NMHC Removal Efficiency | >96.1% | >95.0% | >98.0% | >96.4% | >98 |
| INLET CH ₄ | 457,000 | 491,000 | 388,000 | 445,333 | |
| INLET CH ₄ lbs/hr as CH ₄ | 286.6 | 312.4 | 248.4 | 282.5 | |
| CH ₄ Removal Efficiency | >99.998% | >99.997% | >99.997% | >99.997% | 99 |

WHERE,

ppm = Parts Per Million Concentration

Lbs/hr = Pound Per Hour Emission Rate

 $Lbs/MMBtu = lbs \ per \ million \ British \ thermal \ units$

Lbs/MMCF = Pounds per million cubic feet

Tstd. = Standard Temp. (°R = °F+460)

MW = Molecular Weight

DSCFM = Dry Standard Cubic Feet Per Minute

NOx = Oxides of Nitrogen as NO₂ (MW = 46)

CO = Carbon Monoxide (MW = 28)

TOC = THC = Total Organic Carbon as Methane including CH 4 (MW = 16)

CH4 = Methane (MW = 16)

THC = Total Hydrocarbons as Methane (MW = 16)

 $\ensuremath{\mathrm{NMHC}}=\ensuremath{\mathrm{Total}}$ Non-Methane Hydrocarbons as Methane (MW = 16)

TNMHC as Hexane = Total Non-Methane Hydrocarbons as Methane $\div\,6$

 $\mathrm{SO}_2 = \mathrm{Sulfur}$ Dioxide as SO_2 (MW = 64.1)

CALCULATIONS, PPM @ 15% $O_2 = ppm * 5.9 / (20.9 - \%O_2)$

PPM @ $3\% O_2 = ppm * 17.9 / (20.9 - \%O_2)$

Lbs/hr = ppm x 8.223 E-05 x DSCFM x MW / Tstd. °R

Lbs/MMBtu = (Lbs/hr)/(MMBtu/hr)

Lbs/day = Lbs/hr * 24

Lbs/MMCF = LBs/MMBtu * "Fd" Factor @ 68 °F

Removal Efficiency = (inlet lbs/hr- outlet lbs/hr) / inlet lbs/hr

NMHC as Hexane @ $3\% O_2 = (NMHC as CH_4 / 6) * 17.9 / (20.9 - %O_2)$

SO₂ emission ppm = H₂S in fuel * Fuel Flow/Stack Gas Flow

Table #2

Tehama Red Bluff Total Particulate Results Flare

| RUN# | 1 | 2 | 3 | AVERAGE | LIMITS |
|---|-----------|-----------|-----------|---------|--------|
| TEST DATE | 11/16/20 | 11/16/20 | 11/16/20 | | |
| TEST TIME | 1017-1126 | 1200-1306 | 1237-1442 | | |
| SAMPLE VOLUME (dscf) | 35.538 | 37.333 | 40.186 | 37.7 | |
| ISOKINETIC (%) | 96.4 | 95.5 | 96.9 | 96.3 | |
| DUCT TEMP., (°F) | 1247.4 | 1249.1 | 1259.1 | 1251.9 | |
| VELOCITY (ft/sec) | 12.60 | 13.38 | 14.09 | 13.36 | |
| FLOW RATE (acfm) | 16,370 | 17,382 | 18,298 | 17,350 | |
| FLOW RATE (dscfm) | 4,489 | 4,761 | 5,053 | 4,767 | |
| H ₂ O (volume %) | 12.0 | 11.9 | 10.6 | 11.5 | |
| O_2 (volume %) | 14.0 | 14.3 | 14.2 | 14.2 | |
| CO ₂ (volume %) | 5.10 | 5.10 | 5.10 | 5.10 | |
| Filterable Particulate (mg) | 0.75 | 0.70 | 0.56 | 0.67 | |
| Filterable Particulate (gr/dscf) | 0.00033 | 0.00029 | 0.00021 | 0.00028 | |
| Filterable Particulate (lbs/hr) | 0.013 | 0.012 | 0.009 | 0.011 | |
| Condensible Particulate (mg) | 1.22 | 0.78 | 1.31 | 1.10 | |
| Condensible Particulate (gr/dscf) | 0.0005 | 0.0006 | 0.0006 | 0.0006 | |
| Condensible Particulate (lbs/hr) | 0.020 | 0.026 | 0.028 | 0.025 | |
| Total Particulate as PM_{10} (mg) | 1.97 | 1.48 | 1.87 | 1.77 | |
| Total Particulate as PM ₁₀ (gr/dscf) | 0.0009 | 0.0006 | 0.0007 | 0.0007 | 0.15 |
| Total Particulate as PM ₁₀ (lbs/hr) | 0.03 | 0.02 | 0.03 | 0.03 | |

WHERE

 $\begin{aligned} DSCF &= Sample \ Volume \ in \ Dry \ Standard \ Cubic \ Feet \\ DSCFM &= Dry \ Standard \ Cubic \ Feet \ per \ Minute \\ ACFM &= Actual \ Cubic \ Feet \ per \ Minute \\ H_2O, \ volume \ \% &= Stack \ gas \ percent \ water \ vapor \\ gr/DSCF &= Particulate \ concentration \ in \ grains \ per \ DSCF \\ Total \ Particulate &= Filterable \ \& \ Condensible \ Particulate \ Matter \\ Filterable \ (F/H) \\ Condensible \ (B/H) \end{aligned}$

CALCULATIONS

Lbs/hr Emission Rate = 0.00857 * gr/DSCF * DSCFM

Table D1
Emissions Reductions from Recycling

Assumptions:

Annual change projected from the California Department of Finance for San Benito County through 2060. After that, the 5 year average of 2055 through 2060 is used. https://www.dof.ca.gov/forecasting/demographics/projections/

Emissions factor from USEPA WARM Website for mixed recyclables in California.

Baseline (TPY Recycle): 83 x 2.89 MTCO2e/ton = 239.87 MTCO2e/yr

Projected Average (TPY Recycle): 97.00 x 2.89 MTCO2e/ton = 280.32 MTCO2e/yr

Average Change: $-40.45 \text{ MTCO}_2\text{e/yr}$ Baseline Recyclables: 83 tons per year

| | | Recyclables | Change, | |
|------|----------|-------------|---------|---------|
| Year | Increase | Тру | Тру | MTCO2e |
| 2021 | -1.70% | 81.59 | -1.41 | -235.79 |
| 2022 | 0.66% | 82.13 | -0.87 | -237.35 |
| 2023 | 0.71% | 82.71 | -0.29 | -239.03 |
| 2024 | 0.83% | 83.40 | 0.40 | -241.02 |
| 2025 | 0.82% | 84.08 | 1.08 | -242.99 |
| 2026 | 0.89% | 84.83 | 1.83 | -245.16 |
| 2027 | 0.89% | 85.58 | 2.58 | -247.34 |
| 2028 | 0.81% | 86.28 | 3.28 | -249.34 |
| 2029 | 0.87% | 87.03 | 4.03 | -251.51 |
| 2030 | 0.82% | 87.74 | 4.74 | -253.57 |
| 2031 | 0.81% | 88.45 | 5.45 | -255.63 |
| 2032 | 0.78% | 89.14 | 6.14 | -257.62 |
| 2033 | 0.77% | 89.83 | 6.83 | -259.61 |
| 2034 | 0.73% | 90.48 | 7.48 | -261.50 |
| 2035 | 0.70% | 91.12 | 8.12 | -263.33 |
| 2036 | 0.62% | 91.68 | 8.68 | -264.96 |
| 2037 | 0.57% | 92.21 | 9.21 | -266.47 |
| 2038 | 0.54% | 92.70 | 9.70 | -267.91 |
| 2039 | 0.54% | 93.20 | 10.20 | -269.36 |
| 2040 | 0.54% | 93.71 | 10.71 | -270.81 |
| 2041 | 0.43% | 94.11 | 11.11 | -271.98 |
| 2042 | 0.43% | 94.51 | 11.51 | -273.15 |
| 2043 | 0.45% | 94.94 | 11.94 | -274.38 |
| 2044 | 0.40% | 95.32 | 12.32 | -275.47 |
| 2045 | 0.42% | 95.72 | 12.72 | -276.63 |
| 2046 | 0.36% | 96.06 | 13.06 | -277.63 |
| 2047 | 0.32% | 96.37 | 13.37 | -278.52 |
| 2048 | 0.34% | 96.70 | 13.70 | -279.46 |
| 2049 | 0.31% | 97.00 | 14.00 | -280.33 |
| 2050 | 0.27% | 97.26 | 14.26 | -281.09 |
| 2051 | 0.27% | 97.52 | 14.52 | -281.84 |
| 2052 | 0.30% | 97.82 | 14.82 | -282.69 |
| 2053 | 0.30% | 98.11 | 15.11 | -283.54 |
| 2054 | 0.28% | 98.38 | 15.38 | -284.33 |
| 2055 | 0.26% | 98.64 | 15.64 | -285.07 |

| 2056 | 0.30% | 98.94 | 15.94 | -285.93 |
|------|-------|--------|-------|---------|
| 2057 | 0.24% | 99.17 | 16.17 | -286.61 |
| 2058 | 0.24% | 99.41 | 16.41 | -287.30 |
| 2059 | 0.25% | 99.66 | 16.66 | -288.02 |
| 2060 | 0.24% | 99.90 | 16.90 | -288.71 |
| 2061 | 0.25% | 100.15 | 17.15 | -289.44 |
| 2062 | 0.25% | 100.41 | 17.41 | -290.18 |
| 2063 | 0.25% | 100.66 | 17.66 | -290.92 |
| 2064 | 0.25% | 100.92 | 17.92 | -291.66 |
| 2065 | 0.25% | 101.18 | 18.18 | -292.40 |
| 2066 | 0.25% | 101.43 | 18.43 | -293.14 |
| 2067 | 0.25% | 101.69 | 18.69 | -293.88 |
| 2068 | 0.25% | 101.95 | 18.95 | -294.63 |
| 2069 | 0.25% | 102.21 | 19.21 | -295.38 |
| 2070 | 0.25% | 102.47 | 19.47 | -296.13 |
| 2071 | 0.25% | 102.73 | 19.73 | -296.88 |
| 2072 | 0.25% | 102.99 | 19.99 | -297.63 |
| 2073 | 0.25% | 103.25 | 20.25 | -298.39 |
| 2074 | 0.25% | 103.51 | 20.51 | -299.15 |
| 2075 | 0.25% | 103.77 | 20.77 | -299.91 |
| 2076 | 0.25% | 104.04 | 21.04 | -300.67 |
| 2077 | 0.25% | 104.30 | 21.30 | -301.43 |
| 2078 | 0.25% | 104.57 | 21.57 | -302.20 |
| 2079 | 0.25% | 104.83 | 21.83 | -302.97 |
| 2080 | 0.25% | 105.10 | 22.10 | -303.74 |
| 2081 | 0.25% | 105.37 | 22.37 | -304.51 |
| 2082 | 0.25% | 105.63 | 22.63 | -305.28 |
| 2083 | 0.25% | 105.90 | 22.90 | -306.06 |
| 2084 | 0.25% | 106.17 | 23.17 | -306.83 |
| 2085 | 0.25% | 106.44 | 23.44 | -307.61 |
| 2086 | 0.25% | 106.71 | 23.71 | -308.39 |
| 2087 | 0.25% | 106.98 | 23.98 | -309.18 |

GHG Emissions Analysis -- Summary Report

Version 15
GHG Emissions Waste Management Analysis for

Prepared by: Project Period for this Analysis: 01/00/00 to 01/00/00

Note: If you wish to save these results, rename this file (e.g., WARM-MIN1) and save it. Then the "Analysis Inputs" sheet of the "WARM" file will be blank when you are ready to make another model run.

GHG Emissions from Baseline Waste Management (MTCO2E):

0.03 GHG Emissions from Alternative Waste Management Scenario (MTCO₂E):

| | | Tons | Tons | Tons | Tons Anaerobically | | | Tons Source | | Tons | | Tons | Tons Anaerobically | | |
|-----------------|---------------|------------|-----------|-----------|-----------------------|---------------------------|-------------------|--|--|------|----------------|-----------|-----------------------|---------------|--|
| Material | Tons Recycled | Landfilled | Combusted | Composted | Digested | Total MTCO ₂ E | Material | Reduced | Tons Recycled | | Tons Combusted | Composted | Digested | Total MTCO 2E | |
| xed Recyclables | | 1.00 | - | NA. | NA. | 0.03 | Mixed Recyclables | NA NA | | - | | NA | NA. | | |
| | | | | | | 0 | | | | | | | | 0 | |
| | | | | | | 0 | | | | | | | | 0 | |
| | | | | | | 0 | | | | | | | | 0 | |
| | | | | | | 0 | | | | | | | | 0 | |
| | | | | | | 0 | | | | | | | | 0 | |
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| | | | | | | 0 | | | | | | | | 0 | |
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| | | | | | | 0 | | | | | | | | 0 | |
| | | | | | | 0 | | | | | | | | 0 | |
| | | | | | | 0 | - | | | | | | | 0 | |
| | | | | | | 0 | - | | | | | | | | |
| | | | | | | 0 | | | | | | | | 0 | |
| | | | | | | | | | | | | | | | |
| | 1 | | | | | 0 | 1 | - | 1 | | | | | 0 | |
| | 1 | | | | | 0 | - | | | | | | | 0 | |
| | 1 | | | | | 0 | - | | | | | | | 0 | |
| | 1 | | | | | 0 | 1 | | 1 | | | | | 0 | |
| | 1 | | | | | 0 | 1 | | 1 | | | | | 0 | |
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| | | | | | | 0 | | | 1 | | | | | 0 | |
| | | | | | | 0 | | | 1 | | | | | 0 | |
| | | | | | | 0 | | | 1 | | | | | 0 | |
| | | | | | | 0 | | | 1 | | | | | 0 | |
| | | | | | | 0 | | | | | | | | 0 | |
| | | | | | | 0 | | | | | | | | 0 | |
| | | | | | | 0 | | | | | | | | 0 | |
| | 1 | | | | | 0 | | | 1 | | | | | n | |
| | | | | | | 0 | | | 1 | | | | | 0 | |
| | | | | | | 0 | | | 1 | | | | | 0 | |
| | | | | | | 0 | | | 1 | | | | | 0 | |
| | + | | | | | 0 | | | t | | | | | 0 | |
| | + | | | | | 0 | | | t | | | | | 0 | |
| | 1 | | | | | 0 | 1 | | 1 | | | | | 0 | |
| | 1 | | | | | 0 | 1 | | 1 | | | | | 0 | |
| | | | | | | | | | | | | | | 0 | |
| | 1 | | | | | 0 | - | | | | | | | 0 | |
| | 1 | | | | | 0 | 1 | | 1 | | | | | 0 | |
| | | | | | | 0 | | | | | | | | 0 | |
| | | | | | | 0 | | | | | | | | 0 | |
| | | | | | | 0 | | | | | | | | 0 | |
| | 1 | | | | | 0 | 1 | 1 | 1 | | | | | 0 | |

Note: a negative value (i.e., a value in parentheses) indicates an emission reduction; a positive value indicates an emission increase.

a) For explanation of methodology, see the EPA WARM Documentation:

Documentation Chapters for Greenhouse Gas Emission and Energy Factors Used in the Waste Reduction Model (WARM)

- -- available on the Internet at https://www.epa.gov/warm/documentation-chapters-greenhouse-gas-emission-and-energy-factors-used-waste-reduction-model
- b) Emissions estimates provided by this model are intended to support voluntary GHG measurement and
- The GHG emissions results estimated in WARM indicate the full life-cycle benefits waste management alternatives. Due to the timing of the GHG emissions from the waste management pathways, (e.g., avoided landfilling and increased recycling), the actual GHG implications nay accure over the long-term. Therefore, one should not interpret the GHG emissions implications as occurring all in one year, but rather through time.

Total Change in GHG Emissions (MTCQE):

(2.89)

| Removing annual emissions | |
|---------------------------|--|
| from | 1 Passenger Vehicles |
| Conserving | 325 Gallons of Gasoline |
| Conserving | 120 Cylinders of Propane Used for Home Barbeques |
| | |
| | 0.00000% Annual \mbox{CO}_2 emissions from the U.S. transportation sector |
| | 0.0000% Annual CO ₂ emissions from the U.S. electricity sector |

John Smith Road Landfill - DEIR ATTACHMENT E

Trip Mileage Calculations for On-Road Travel

ASSUMPTIONS BASED ON AVERAGE BASELINE

| Incoming Vehicular Traffic | Percentage | Trips |
|-----------------------------------|------------|-------|
| In-County Residential | 72% | 188 |
| In County Commercial ⁵ | 13% | 31 |
| Out of County Commercial | 15% | 36 |
| | Total | 255 |

ASSUMPTIONS BASED ON AVERAGE PROPOSED PROJECT AS OF 2045 (Pre-Electric)

| Incoming Vehicular Traffic | Percentage | Trips |
|-----------------------------------|------------|-------|
| In-County Residential | 62% | 217 |
| In County Commercial ⁵ | 10% | 36 |
| Out of County Commercial | 27% | 95 |
| | 100% | 348 |

ASSUMPTIONS BASED ON AVERAGE PROPOSED PROJECT AS OF 2070 (Post-Electric)

| Incoming Vehicular Traffic | Percentage | Trips |
|-----------------------------------|------------|-------|
| In-County Residential | 64% | 232 |
| In County Commercial ⁵ | 10% | 38 |
| Out of County Commercial | 26% | 94 |
| | 100% | 364 |

IN-COUNTY BASELINE TRIP DISTANCE ESTIMATE

(based on Figures in Attachment K), one way

| Location | % | Av miles | Notes |
|------------------------------|-----|----------|----------------------------|
| City of Hollister | 95% | 5.8 | to City Hall Via Hillcrest |
| Other County (inc. SJB) | 5% | 36.8 | to County Centroid |
| Weighted Average plus 1 mile | | 8.35 | |

Note: Mileage is to entrance plus one mile for both base-line and proposed project

Table E1: Current Project (Baseline) Average Trip Calculations

| Origin ¹ | % of Trips from Origin | Distance from Origin to Landfill ² | Total Average trips/day ³ | Avg Trips by Origin/day | Avg. Commercial Trips By Origin/day | Avg. Residential Trips By Origin/day | Avg. In County Commercial Round Trip Mileage/day | | Avg. Out of County Commercial Round Trip Mileage/day |
|-------------------------|---------------------------|---|--|----------------------------|--|--|--|-------|--|
| SBCIWMR | 85.490% | 8.35 | 255 | | 31 | 188.0 | 518 | 3,140 | 0 |
| Santa Clara - San Jose | 8.490% | 52.1 | 255 | 21.65 | 21.65 | 0.0 | 0 | 0 | 2,256 |
| Santa Clara - Gilroy | 0.500% | 21.2 | 255 | 1.28 | 1.28 | 0.0 | 0 | 0 | 54 |
| Santa Clara - Undefined | 4.590% | 51.8 | 255 | 11.70 | 11.70 | 0.0 | 0 | 0 | 1,213 |
| Monterey County | 0.727% | 32 | 255 | 1.85 | 1.85 | 0.0 | 0 | 0 | 119 |
| Alameda | 0.046% | 85.3 | 255 | 0.12 | 0.12 | 0.0 | 0 | 0 | 20 |
| Santa Cruz | 0.020% | 49 | 255 | 0.05 | 0.05 | 0.0 | 0 | 0 | 5 |
| San Mateo | 0.011% | 80.5 | 255 | 0.03 | 0.03 | 0.0 | 0 | 0 | 5 |
| Sacramento | 0.008% | 151 | 255 | 0.02 | 0.02 | 0.0 | 0 | 0 | 6 |
| San Francisco | 0.004% | 100 | 255 | 0.01 | 0.01 | 0.0 | 0 | 0 | 2 |
| San Joaquin | 0.002% | 111 | 255 | 0.01 | 0.01 | 0.0 | 0 | 0 | 1 |
| Kern | 0.001% | 212 | 255 | 0.00 | 0.00 | 0.0 | 0 | 0 | 1 |
| San Rafael | 0.001% | 113 | 255 | 0.00 | 0.00 | 0.0 | 0 | 0 | 1 |
| Sonoma | 0.001% | 158 | 255 | 0.00 | 0.00 | 0.0 | 0 | 0 | 1 |

99.9% 37 37

Total Sum of Average Miles per Day 518 3,140 3,682

- 1. Trip origin percentage data obtained from Waste Solutions Group Data
- 2. Distance as measured from City centers (City Hall), and the geometric centers of the listed unincorporated Counties
- 3. Assuming current 4-yard average trips for 2016 though 2019 (including added trips of HHW events and employees).
- 4. The Average Increased Trips/Day is current Average Trips/day multiplied by the percent proposed trips increase
- 5. The percentage of vehicle types was obtained from Table 3 of the draft Project Description for 2016 to 2018.

Table E2: Proposed Project Average Trip Calculations as of 2045

| Origin ¹ | % of Trips from Origin | Distance from Origin to Landfill ² | Total Average trips/day ³ | Avg Trips by Origin/day | Avg. Commercial Trips By Origin/day | Avg. Residential Trips By Origin/day | Avg. In County Commercial Round Trip Mileage/day | | Avg. Out of County Commercial Round Trip Mileage/day |
|-------------------------|---------------------------|---|--|----------------------------|--|--|--|-------|--|
| SBCIWMR | 72.701% | 8.35 | 348 | | 36 | 217.0 | 601 | 3,624 | 0 |
| Santa Clara - San Jose | 15.973% | 52.1 | 348 | 55.59 | 55.59 | 0.0 | 0 | 0 | 5,792 |
| Sant a Clara - Gilroy | 0.941% | 21.2 | 348 | 3.27 | 3.27 | 0.0 | 0 | 0 | 139 |
| Santa Clara - undefined | 8.636% | 51.8 | 348 | 30.05 | 30.05 | 0.0 | 0 | 0 | 3,113 |
| Monterey County | 1.368% | 32 | 348 | 4.76 | 4.76 | 0.0 | 0 | 0 | 305 |
| Alameda | 0.087% | 85.3 | 348 | 0.30 | 0.30 | 0.0 | 0 | 0 | 51 |
| Santa Cruz | 0.038% | 49 | 348 | 0.13 | 0.13 | 0.0 | 0 | 0 | 13 |
| San Mateo | 0.021% | 80.5 | 348 | 0.07 | 0.07 | 0.0 | 0 | 0 | 12 |
| Sacramento | 0.015% | 151 | 348 | 0.05 | 0.05 | 0.0 | 0 | 0 | 16 |
| San Francisco | 0.008% | 100 | 348 | 0.03 | 0.03 | 0.0 | 0 | 0 | 5 |
| San Joaquin | 0.004% | 111 | 348 | 0.01 | 0.01 | 0.0 | 0 | 0 | 3 |
| Kern | 0.002% | 212 | 348 | 0.01 | 0.01 | 0.0 | 0 | 0 | 3 |
| San Rafael | 0.002% | 113 | 348 | 0.01 | 0.01 | 0.0 | 0 | 0 | 1 |
| Sonoma | 0.002% | 158 | 348 | 0.01 | 0.01 | 0.0 | 0 | 0 | 2 |
| | 99.8% | 50 | | 94 | 94 | | | | |

Total Sum of Average Miles per Day

601

3,624

9,455

- 1. Trip origin percentage data obtained from Waste Solutions Group Data
- 2. Distance as measured from City centers (City Hall), and the geometric centers of the listed unincorporated Counties
- 3. Assuming current 4-yard average trips for 2016 though 2019 (including added trips of HHW events and employees).
- 4. The Average Increased Trips/Day is current Average Trips/day multiplied by the percent proposed trips increase
- 5. The percentage of vehicle types was obtained from Table 3 of the draft Project Description for 2016 to 2018.

Table E3: Proposed Project Average Trip Calculations as of 2070

| Origin ¹ | % of Trips from Origin | Distance from Origin to Landfill ² | Total Average trips/day ³ | Avg Trips by Origin/day | Avg. Commercial Trips By Origin/day | Avg. Residential Trips By Origin/day | Avg. In County Commercial Round Trip Mileage/day | Avg. In- County Residential Round Trip Mileage/day | Avg. Out of County Commercial Round Trip Mileage/day |
|-------------------------|---------------------------|---|--|----------------------------|--|--|--|--|--|
| SBCIWMR | 74.176% | 8.35 | 354 | 262.58 | 38 | 232.0 | 635 | 3,874 | 0 |
| Santa Clara - San Jose | 15.110% | 52.1 | 354 | 53.49 | 53.49 | 0.0 | 0 | 0 | 5,574 |
| Santa Clara - Gilroy | 0.890% | 21.2 | 354 | 3.15 | 3.15 | 0.0 | 0 | 0 | 134 |
| Santa Clara - undefined | 8.169% | 51.8 | 354 | 28.92 | 28.92 | 0.0 | 0 | 0 | 2,996 |
| Monterey County | 1.294% | 32 | 354 | 4.58 | 4.58 | 0.0 | 0 | 0 | 293 |
| Alameda | 0.082% | 85.3 | 354 | 0.29 | 0.29 | 0.0 | 0 | 0 | 49 |
| Santa Cruz | 0.036% | 49 | 354 | 0.13 | 0.13 | 0.0 | 0 | 0 | 12 |
| San Mateo | 0.020% | 80.5 | 354 | 0.07 | 0.07 | 0.0 | 0 | 0 | 11 |
| Sacramento | 0.014% | 151 | 354 | 0.05 | 0.05 | 0.0 | 0 | 0 | 15 |
| San Francisco | 0.007% | 100 | 354 | 0.03 | 0.03 | 0.0 | 0 | 0 | 5 |
| San Joaquin | 0.004% | 111 | 354 | 0.01 | 0.01 | 0.0 | 0 | 0 | 3 |
| Kern | 0.002% | 212 | 354 | 0.01 | 0.01 | 0.0 | 0 | 0 | 3 |
| San Rafael | 0.002% | 113 | 354 | 0.01 | 0.01 | 0.0 | 0 | 0 | 1 |
| Sonoma | 0.002% | 158 | 354 | 0.01 | 0.01 | 0.0 | 0 | 0 | 2 |

50

| Total Sum of Average Miles per Day | 635 | 3,874 | 9,098 |
|------------------------------------|-----|-------|-------|

- 1. Trip origin percentage data obtained from Waste Solutions Group Data
- 2. Distance as measured from City centers (City Hall), and the geometric centers of the listed unincorporated Counties
- 3. Assuming current 4-yard average trips for 2016 though 2019 (including added trips of HHW events and employees).
- 4. The Average Increased Trips/Day is current Average Trips/day multiplied by the percent proposed trips increase
- 5. The percentage of vehicle types was obtained from Table 3 of the draft Project Description for 2016 to 2018.

Table E4 Transfer Station Alt Project Traffic Calculations - Haul to Monterey County Marina Landfill

| Origin ¹ | % of Trips from Origin | Distance from Origin to Monterey County Marina Landfill ² | Average trips/day ⁴ | Avg Trips by Origin/day | Avg. Commercial Trips By Origin/day | Avg. In County Residential Trips By Origin/day | Avg. Commercial Trip Mileage/day | Avg. In County Residential Trip Mileage/day | Avg Out of County Commercial Trip Mileage/Day |
|-------------------------|---------------------------|---|-----------------------------------|----------------------------|--|--|-------------------------------------|---|---|
| SBCIWMR | 72.701% | 8.35 | 348 | 253 | 34 | 158 | 553 | 2,639 | 15 |
| Santa Clara - San Jose | 15.973% | 61.2 | 348 | 55.59 | 55.59 | 0.0 | 0 | 0 | 6,804 |
| Santa Clara - Gilroy | 0.941% | 21.2 | 348 | 3.27 | 3.27 | 0.0 | 0 | 0 | 139 |
| Santa Clara - undefined | 8.636% | 60.9 | 348 | 30.05 | 30.05 | 0.0 | 0 | 0 | 3,660 |
| Monterey County | 1.368% | 20 | 348 | 4.76 | 4.76 | 0.0 | 0 | 0 | 190 |
| Alameda | 0.087% | 94.2 | 348 | 0.30 | 0.30 | 0.0 | 0 | 0 | 57 |
| Santa Cruz | 0.038% | 49 | 348 | 0.13 | 0.13 | 0.0 | 0 | 0 | 13 |
| San Mateo | 0.021% | 89.4 | 348 | 0.07 | 0.07 | 0.0 | 0 | 0 | 13 |
| Sacramento | 0.015% | 151 | 348 | 0.05 | 0.05 | 0.0 | 0 | 0 | 16 |
| San Francisco | 0.008% | 100 | 348 | 0.03 | 0.03 | 0.0 | 0 | 0 | 5 |
| San Joaquin | 0.004% | 111 | 348 | 0.01 | 0.01 | 0.0 | 0 | 0 | 3 |
| Kern | 0.002% | 212 | 348 | 0.01 | 0.01 | 0.0 | 0 | 0 | 3 |
| San Rafael | 0.002% | 113 | 348 | 0.01 | 0.01 | 0.0 | 0 | 0 | 1 |
| Sonoma | 0.002% | 158 | 348 | 0.01 | 0.01 | 0.0 | 0 | 0 | 2 |

58

| Total Sum of Average Miles per Day | 553 | 2,639 | 10,921 |
|------------------------------------|-----|-------|--------|
| | | | |

- 1. Waste origin percentage data obtained from CalRecycle website (https://www2.calrecycle.ca.gov/LGCentral/DisposalReporting/Origin/FacilitySummary)
- 2. Distance as measured from City centers (City Hall), and the geometric centers of the listed unincorporated Counties
- 3. Assuming projected future current 4-year average trips.
- 4. The Average Increased Trips/Day is current Average Trips/day multiplied by the percent proposed trips increase
- 5. The percentage of vehicle types was obtained from Table 3 of the draft Project Description for 2016 to 2018.

John Smith Road Landfill DEIR ATTACHMENT F

Current Setting (Base-Line) On-Road Trips and Off-Road Operations GHG Emissions Calculations

Table F1 Waste Hauling/Delivery and Operations Emissions Summary - Current Setting (Baseline)

| Totals | Total CO ₂ Emissions | Total CH ₄ Emissions | Total N ₂ O Emissions | Total CO ₂ Equivalent Emissions | | |
|----------------------------|---------------------------------|---------------------------------|-------------------------------------|--|-----------------------|------------|
| A. | Waste Hauling and Oth | er Trips (On-Road) fron | 1 Table F4 | |] | |
| Total (lbs)/day (Table F4) | 22,377 | 1.E+00 | 2.59E+00 | 23,176 | 1 | |
| Total (lbs)/year | 8,077,967 | 407 | 935 | 8,366,681 | 1 | |
| Total (short tons)/year | 4,039 | 2.E-01 | 5.E-01 | 4,183 | 1 | |
| Total (metric tons)/year | 3,664 | 2.E-01 | 4.E-01 | 3,795 | Use Att U So | ee below. |
| A | On-Road and Off Road (| Operations from Tables | F3 and F5 | | | |
| Total (lbs)/day | 7,276 | 2.E+00 | 3.46E-02 | 7,333 | 1,201 M | Iath Check |
| Total (lbs)/year | 2,626,761 | 663 | 13 | 2,647,066 | | |
| Total (short tons)/year | 1,313 | 3.E-01 | 6.E-03 | 1,324 | 1 | |
| Total (metric tons)/year | 1,191 | 3.E-01 | 6.E-03 | 1,201 | Use for Att U Baselin | ie |
| | Total Waste Ha | nuling and Operations (n | netric tons)/year | 4,996 | | |

Table F2 Off-Road Operations Equipment Only Emissions Summary - Current Setting (baseline)

| | | | Total CO ₂ |
|----------------------------|---------------------------------|---------------------------------|-------------------------|
| Totals | Total CO ₂ Emissions | Total CH ₄ Emissions | Equivalent Emissions |
| Total (lbs)/day (Table F3) | 7,051 | 2 | 7,097 |
| Total (lbs)/year | 2,573,591 | 670 | 2,590,336 |
| Total (short tons)/year | 1,287 | 3.E-01 | 1,295 |
| Total (metric tons)/yr | 1,167 | 3.E-01 | 1,175 |

On-Road Emissions - Equation for Tables F4 and F5:

Annual emissions by pollutant (metric tons/year) = (emission factor (grams/miles) + deterioration product (grams/mi) (not applicable)) × annual activity (miles/year) × percentage operation in California (100%) ÷ 907,200

Off-Road Emissions - Equation for Table F3

Annual emissions by pollutant (tons/year) = (emission factor (grams/brake hp-hour) + deterioration product (grams/brake hp-hour) (not applicable)) \times horsepower (hp) \times load factor \times annual activity (hours/year) \times percentage operation in California (100%) \times 907,200 (grams/ton)

Global Warming Potential Factors

| Compound | CO_2 | CH ₄ | N ₂ O |
|-------------|--------|-----------------|------------------|
| GWP Factors | 1 | 25 | 298.00 |

John Smith Road Landfill Expansion

DEIR Appendix B

Page 1 of 4

Lawrence & Associates

John Smith Road Landfill DEIR ATTACHMENT F

Current Setting (Base-Line) On-Road Trips and Off-Road Operations GHG Emissions Calculations

Table F3 GHG Emissions from Off-Road Vehicles for Operations - Current Setting (Baseline)

| | _ | Vehicle Properties | | | | Operation F | roperties | | GHG Emission Factors and Calculations | | |
|-----------------------|---|--|-----------------------|-----------------|--------------------------|---------------------------------------|--------------------------------|--|---|--|---|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/Model/ Fuel ² | Current Model Year | HP ³ | Load Factor ⁵ | Average Hours per Day ⁶ | Days of Operation ⁷ | GHG CO ₂ (g/bhp- hr) ¹⁰ | GHG CO ₂ (lb/bhp-day) ⁹ | GHG CH ₄ (g/bhp-hr) ¹⁰ | GHG CH ₄ (lb/bhp-day) ⁹ |
| Dozer | Crawler Tractors | Caterpillar D6T LGP | 2015 | 255 | 0.43 | 8 | 6 | 568.30 | 1,099.03 | 0.12 | 0.23 |
| Dozer | Crawler Tractors | Caterpillar D8T Diesel | 2015 | 310 | 0.43 | 8 | 6 | 515.37 | 1,211.65 | 0.15 | 0.36 |
| Dozer | Crawler Tractors | Caterpillar D6R Diesel | 2007 | 200 | 0.43 | 0 | 6 | 525.24 | 0.00 | 0.15 | 0.00 |
| Motor Grader (Tier 2) | Graders | Caterpillar 140G Diesel | 1985 | 150 | 0.41 | 2 | 6 | 568.30 | 154.10 | 0.15 | 0.04 |
| Wheeled Loader | Rubber Tired Loaders | Caterpillar 938M Diesel | 2015 | 182 | 0.36 | 2 | 6 | 568.30 | 164.18 | 0.21 | 0.06 |
| Trash Compactor | | Caterpillar 826K Diesel | 2015 | 426 | 0.38 | 8 | 6 | 568.30 | 1,622.54 | 0.16 | 0.46 |
| Backhoe | Tractors/Loaders/Backho | Caterpillar 426C Diesel | 2000 | 81.8 | 0.37 | 2 | 6 | 491.21 | 65.55 | 0.15 | 0.02 |
| Excavator | _ | John Deere 350 | 2001 | 283 | 0.38 | 6 | 6 | 568.30 | 808.41 | 0.10 | 0.15 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350D | 2015 | 380 | 0.38 | 6 | 6 | 515.84 | 985.30 | 0.15 | 0.29 |
| Truck Tipper | Other Construction Equipment | Columbia | 2015 | 156 | 0.42 | 8 | 6 | 513.05 | 592.87 | 0.15 | 0.18 |
| Street Sweeper | Other Construction Equipment | Elgin | 2019 | 330 | 0.42 | 2 | 7 | 568.30 | 347.30 | 0.06 | 0.04 |
| | | | | | | | | Sum of Emissions: | 7,050.94 | | 1.84 |

John Smith Road Landfill DEIR

ATTACHMENT F

Current Setting (Base-Line) On-Road Trips and Off-Road Operations GHG Emissions Calculations

Table F4 GHG Emissions for On-Road Vehicles Waste Hauling - Current Setting (Baseline)

| | Site Properties | | GHG Emission Factors and Calculations | | | | | | |
|--|---|---------------------------------------|---------------------------------------|---|---|--|--|---|--------------------------------|
| On-Road Vehicles | Assumed Vehicle Type | Avg. Mileage from Origin to LF/day | Load Factor ⁵ | Emissions Factor GHG CO ₂ (g/mile) ¹³ | GHG CO ₂ (lbs/day) ⁸ | Emissions Factor GHG CH ₄ (g/mile) ¹³ | GHG CH ₄ (lbs/day) ⁸ | Emissions Factor GHG N ₂ O (g/mile) ¹³ | GHG N₂O (lbs/day) ⁸ |
| In-County Self Haul/Residential ¹² | Light/Heavy Duty Trucks (LHD1 - Gas) | 3,140 | 1 | 1,031.84 | 7,142 | 1.66E-02 | 1.15E-01 | 0.022 | 1.53E-01 |
| In-County Commercial 74% Diesel ¹¹ | T7-SWCV (Dsl) | 383 | 1 | 1,202.32 | 1,015 | 8.06E-03 | 6.81E-03 | 0.189 | 1.60E-01 |
| In-County Commercial 26% CNG | T7-SWCV (NG) | 135 | 1 | 3,001.84 | 891 | 3.04E+00 | 9.02E-01 | 0.612 | 1.82E-01 |
| Out of County Commercial ¹² | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 3,682 | 1 | 1,641.73 | 13,328 | 1.26E-02 | 1.02E-01 | 0.258 | 2.10E+00 |
| | | | S | um of Emissions: | 22,377 | | 1.13E+00 | | 2.59E+00 |

1329380

Table F5 GHG Emissions for On-Road Landfill Support Vehicles - Current Setting (Baseline)

| Support Vehicles | Vehicle Type, Fuel (Vehicle Category) ¹⁴ | Daily Mileage | Load Factor ⁵ | Emissions Factor GHG CO ₂ (g/mile) ¹³ | GHG CO ₂ (lbs/day) ⁸ | Emissions Factor GHG CH ₄ (g/mile) ¹³ | GHG CH ₄ (lbs/day) ⁸ | Emissions Factor GHG N ₂ O (g/mile) ¹³ | GHG N ₂ O (lbs/day) ⁸ |
|--------------------------------|--|---------------|--------------------------|---|--|--|---|---|---|
| Ford Mechanic Truck (DSL) 2006 | LHD1 | 20 | | 671.96 | 29.6 | 0.006 | 2.68E-04 | 0.106 | 4.66E-03 |
| Fuel Truck (DSL) 2009 | LHD2 | 10 |] . | 671.96 | 14.8 | 0.006 | 1.34E-04 | 0.070 | 1.54E-03 |
| Roll-Off Truck (DSL) 2000 | T7 CAIRP | 0 | 1 | 1,641.73 | 0.0 | 0.013 | 0.00E+00 | 0.258 | 0.00E+00 |
| Water Truck DSL 2006 & CNG | T7 CAIRP | 50 | | 1,641.73 | 181.0 | 0.013 | 1.39E-03 | 0.258 | 2.84E-02 |
| | | | | Sum of Emissions: | 225 | | 1.79E-03 | | 3.46E-02 |

SEE NOTES ON FOLLOWING PAGE

| Composite GHG Emissions Factors | | | | | | | |
|---------------------------------|--|--|--|--|--|--|--|
| CO ₂ e (g/mile) | Weighted Average In- County Commercial CO2e (g/mile) | | | | | | |
| 1.039E+03 | | | | | | | |
| 1.259E+03 | 1.779E+03 | | | | | | |
| 3.260E+03 | | | | | | | |
| | | | | | | | |
| 1.719E+03 | | | | | | | |

John Smith Road Landfill DEIR ATTACHMENT F

Current Setting (Base-Line) On-Road Trips and Off-Road Operations GHG Emissions Calculations

Sources: CARB, 2017. California Air Resources Board, The Carl Moyer Program Guidelines, 2017 Revisions, Appendix D - Tables for Emissions Reduction and Cost Effectiveness Calculations, Tables D-7 to D-9 for Off-Road Diesel and Non-Mobile Agricultural (Ag) Projects

L&A, 2021. Lawrence & Associates, July 2021, Design Basis Report, John Smith Road Landfill Expansion.

CAPCOA, 2017. California Air Pollution Control Officers Association (CAPCOA), version 2017, California Emissions Estimator Model (CalEE MOD), Appendix D, Default Data Tables

Notes/Citations:

- 1 Vehicles that best represent items listed in CARB 2017, Table D-7
- 2 Vehicles and equipment as reported by Landfill Operator from L&A 2021
- 3 Vehicle horsepower estimated from equipment manufacturer for base model.
- 4 Citation not used.
- 5 Load Factor as listed in CARB, 2017 Table D-7, or 1 when data unavailable.
- 6 The average working hours of the equipment as described by the Landfill Operator from L&A 2021
- 7 Average days of equipment operation as described by the operator (landfill may be open 7 days per week).
- 8 Equation C-5 was used per CARB, 2017 Appendix C.
- 9 Equation C-6 was used per CARB, 2017 Appendix C.
- 10 Greenhouse Gas Factors Acquired from Table 3.4 of CAPCOA, 2017 Appendix D
- 11 Commercial vehicles are packer (route) collection trucks defined as T-7 Diesel Solid Waste Collection Vehicles per EMFAC2017 User's Guide V1.0.1.
- 12 Residential/self haul vehicles are all other inbound vehicles defined as Light-Heavy Trucks (GVWR< 10,000 to 14,000 lbs per EMFAC2017 User's Guide V1.0.1).
- 13 Values obtained form EMFAC2017 (v1.0.2) Emission Rates for San Benito County.

John Smith Road Landfill - DEIR ATTACHMENT G

Projected Project and Net Increase in On-Road Trips and Off-Road Operations GHG Emissions Calculations

- 1. The remaining site life will be 50 years (2020 2070) including out of County waste after which, waste and trips will decrease to in-County Only for 15 years. The peak would be in 2070
- 2. Per EO N-79-20, after 2045 the 60% reduction in non zero emissions vehicles will be fully implemented and only 40% of vehicle emissions are assumed (assuming only 60% is "feasible").
- 3. Prior to 2045, the average calendar year is assumed to be 2035 for the purpose of selecting the EF's
- 4. After 2045, the average calendar year of 2050 is assumed (as high as EMFAC 2017 allows) for the purpose of selecting EF's
- 5. Att U provides a better average for the entire site life.

Table G1 Summary of Proposed Project Waste Hauling and Other Trips and Operations Emissions - Maximum Year

| Totals | Total CO ₂ Emissions | Total CH ₄ Emissions | Total N ₂ O Emissions | Total CO ₂ Equivalent Emissions | | | | | | | | | |
|--|---------------------------------|---------------------------------|-------------------------------------|--|-----------|--|--|--|--|--|--|--|--|
| A. Waste Hauling and Other Trips (On-Road) Total (lbs/day) Table G5.1 for years | | | | | | | | | | | | | |
| 2022 to 2045 | 29,285.45 | 4.77E-04 | 3.67 | 30,380.03 | | | | | | | | | |
| Total (lbs/day) Table G5.2 for years | | | | | | | | | | | | | |
| 2045 to 2070 assuming 40% | 9,770.65 | 0.45 | 1.87 | 10,339.13 | | | | | | | | | |
| Total (lbs/year), Weighted Ave. of above | | | | | | | | | | | | | |
| for years 2022 to 2070. | 6,979,343.89 | 85.36 | 997.90 | 7,278,852.34 | | | | | | | | | |
| Weighted Ave. Total (metric tons/year) | | | | | | | | | | | | | |
| for Waste Hauling | 3,165.81 | 0.0387 | 0.4526 | 3,301.67 | Use ATT U | | | | | | | | |
| | B. On-Road and Off I | Road Operations | | | For Att U | | | | | | | | |
| Total (lbs/day) Table G6.1. for Years 2022 to 2045 | 9,576.91 | 2.97E-01 | 3.66 | 10,673.54 | 1,747 | | | | | | | | |
| Total (lbs/day) Table G6.2. for years 2045 to 2070 assuming 40% | 3,827.35 | 0.45 | 0.011 | 3,841.93 | 1,572 | | | | | | | | |
| Total (lbs/year), Ave. | 2,402,557.02 | 137.24 | 641.40 | 2,597,125.47 | 629 | | | | | | | | |
| Weighted Ave. Total (metric tons/year) | , , | | | | | | | | | | | | |
| for Operations | 1,089.79 | 0.0623 | 0.2909 | 1,178.05 | Use Att U | | | | | | | | |
| | Total Waste Delivery and | d Operations Emissions (1 | metric tons)/year | 4,479.71 | | | | | | | | | |

On-Road Emissions - Equation for Tables G5 and G6

Annual emissions by pollutant (metric tons/year) = (emission factor (grams/miles) + deterioration product (grams/mi) (not applicable)) × annual activity (miles/year) × percentage operation in California (100%) ÷ 907,200 (grams/ton)

Off-Road Emissions - Equation for Table G4:

Annual emissions by pollutant (tons/year) = (emission factor (grams/brake hp-hour) + deterioration product (grams/brake hp-hour) (not applicable)) × horsepower (hp) × load factor × annual activity (hours/year) × percentage operation in California (100%)× 907,200 (grams/ton)

Global Warming Potential Factors

| Compound | CO_2 | CH ₄ | N_2O |
|-------------|--------|-----------------|--------|
| GWP Factors | 1 | 25 | 298.00 |

Table G2 Summary of Proposed Project Off-Road Operations Emission Equipment Only 2022-2070

| | | | Total CO ₂ |
|--------------------------|---------------------------------|---------------------------------|-------------------------|
| Totals | Total CO ₂ Emissions | Total CH ₄ Emissions | Equivalent Emissions |
| Total (lbs/day) Table G4 | 9,388.94 | 0.30 | 9,396 |
| Total (lbs/year) | 3,426,962.81 | 108.22 | 3,429,668 |
| Total (short tons/year) | 1,713.48 | 0.05 | 1,715 |
| Total (metric tons/year) | 1,554.46 | 0.0491 | 1,556 |

Use ATT U For Att U:

1,747.78 Att U 2035

1,572.78 Att U 2045 629.11 Alt U 2046

8,167.91

1,337.48

John Smith Road Landfill - DEIR ATTACHMENT G

Projected Project and Net Increase in On-Road Trips and Off-Road Operations GHG Emissions Calculations Table G3 Projected Peak Increase in On-Road and Off-Road Emissions 2022 - 2070

| Emissions Source | Total CO ₂ Equivalent Emissions | |
|---|--|---|
| Increased Annual Waste Hauling Emissions (metric tons/year), Tables G1A - F1A | -493 | 2022 to 2070 |
| Increased Operations Emissions (metric tons/year), Tables G1B - F1B | -23 | 2022 to 2070 |
| Total Increase in GHG Emissions at Peak (metric tons/year) | (516) | Use Att U for Life of Site (Att U includes 2071 to 2086 County Only period) |

Table G4 Off-Road Vehicle Emissions for Operations - Prior to 2045 (Assuming 2035 calendar year for emissions)

| | | Vehicle Properties | | | | Operation Properties | | GHG Emission Factors and Calculations | | | ons |
|---------------------------------------|---|--|-----------------------|-----------------|--------------------------|---------------------------------------|--------------------------------|--|---|--|---|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/Model/ Fuel ² | Assumed Model Year | HP ³ | Load Factor ⁵ | Average Hours per Day ⁶ | Days of Operation ⁷ | GHG CO ₂ (g/bhp- hr) ¹⁰ | GHG CO ₂ (lb/bhp-day) ⁹ | GHG CH ₄ (g/bhp- hr) ¹⁰ | GHG CH ₄ (lb/bhp-day) ⁹ |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D6T LGP | 2035 | 255 | 0.43 | 8 | 7 | 568.30 | 1,099 | 2.00E-02 | 3.87E-02 |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D8T Diesel | 2035 | 310 | 0.43 | 8 | 7 | 568.30 | 1,336 | 2.00E-02 | 4.70E-02 |
| Dozer (Support) | Crawler Tractors | Caterpillar D6R Diesel | 2035 | 310 | 0.43 | 2 | 7 | 568.30 | 334 | 2.00E-02 | 1.18E-02 |
| Grader | Graders | Caterpillar 140G Diesel | 2035 | 150 | 0.41 | 2 | 7 | 568.30 | 154 | 2.60E-02 | 7.05E-03 |
| Loader | Rubber Tired Loaders | Caterpillar 938M Diesel | 2035 | 182 | 0.36 | 2 | 7 | 568.30 | 164 | 1.70E-02 | 4.91E-03 |
| Compactor | Rollers | Caterpillar 826K Diesel | 2035 | 426 | 0.38 | 8 | 7 | 568.30 | 1,623 | 1.50E-02 | 4.28E-02 |
| Compactor | Rollers | Caterpillar 826A | 2035 | 426 | 0.38 | 4 | 7 | 568.30 | 811 | 1.50E-02 | 2.14E-02 |
| Backhoe | Tractors/Loaders/Backhoe | Caterpillar 426C Diesel | 2035 | 81.8 | 0.37 | 2 | 7 | 568.30 | 76 | 2.30E-02 | 3.07E-03 |
| Excavator | Excavators | John Deere 350 | 2035 | 283 | 0.38 | 6 | 7 | 568.30 | 808 | 1.70E-02 | 2.42E-02 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350D | 2035 | 380 | 0.38 | 8 | 7 | 568.30 | 1,447 | 1.80E-02 | 4.58E-02 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350D | 2035 | 380 | 0.38 | 4 | 7 | 568.30 | 724 | 1.80E-02 | 2.29E-02 |
| Truck Tipper | Other Construction Equipment | Columbia | 2035 | 156 | 0.42 | 8 | 7 | 568.30 | 657 | 1.80E-02 | 2.08E-02 |
| Street Sweeper | Other Construction Equipment | Elgin 2019 | 2035 | 74 | 0.42 | 4 | 7 | 568.30 | 156 | 2.20E-02 | 6.03E-03 |
| Note: N2O emissions factors are not a | | nt. | • | | | | | Sum of Emissions | 9,389 | | 2.96E-01 |

John Smith Road Landfill - DEIR ATTACHMENT G

Projected Project and Net Increase in On-Road Trips and Off-Road Operations GHG Emissions Calculations

Table G5.1 On-Road Vehicles Trips - Prior to 2045 (assuming average of 2035 calendar year)

| Site Properties | | | | GHG Emission Factors and Calculations | | | | | |
|---|---|---------------------------------------|--------------------------|---|--|---|---|--|--|
| On-Road Vehicles | Assumed Vehicle Type | Avg. Mileage from Origin to LF/day | Load Factor ⁵ | Emissions Factor GHG CO ₂ (g/mile) ¹³ | GHG CO ₂ (lbs/day) ⁸ | Emissions Factor GHG CH ₄ (g/mile) ¹³ | GHG CH ₄ (lbs/day) ⁸ | Emissions Factor GHG N ₂ O (g/mile) ¹³ | GHG N ₂ O (lbs/day) ⁸ |
| In-County Self Haul/Residential ¹² | Light/Heavy Duty Trucks (LHD1 - Gas) | 3,624 | 1 | 797.90 | 6,374.67 | 2.36E-03 | 1.89E-02 | 3.95E-03 | 0.0 |
| In-County Commercial 74% Diesel 11 | T7-SWCV (Dsl) | 445 | 1 | 2,611.31 | 2,561.20 | 1.13E-03 | 1.11E-03 | 4.10E-01 | 0.4 |
| In-County Commercial 26% CNG | T7-SWCV (NG) | 156 | 1 | 2,500.00 | 861.52 | 3.04E+00 | 1.05E+00 | 5.10E-01 | 0.2 |
| Out of County Commercial ¹² | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 9,455 | 1 | 934.92 | 19,488.06 | 6.68E-04 | 2.36E-02 | 1.47E-01 | 3.1 |
| | | | | Sum of Emissions | 29,285 | | 1.09E+00 | | 3.67E+00 |

Table G5.2 On-Road Landfill Support Vehicles for Operations - Prior to 2045 (assuming average of 2035 calendar year)

| Support Vehicles | Vehicle Type, Fuel (Vehicle Category) ¹⁴ | Daily Mileage | Load Factor ⁵ | Emissions Factor GHG CO ₂ (g/mile) ¹³ | GHG CO ₂ (lbs/day) ⁸ | Emissions Factor GHG CH ₄ (g/mile) ¹³ | GHG CH ₄ (lbs/day) ⁸ | Emissions Factor GHG N ₂ O (g/mile) ¹³ | GHG N ₂ O (lbs/day) ⁸ |
|------------------------------|--|---------------|--------------------------|---|---|---|---|--|--|
| Ford Mechanic Truck (DSL) | LHD1 | 20 | | 671.96 | 29.63 | 6.07E-03 | 2.68E-04 | 1.06E-01 | 4.66E-03 |
| Fuel Truck (DSL) | LHD2 | 10 | | 478.63 | 10.55 | 4.72E-03 | 1.04E-04 | 7.52E-02 | 1.66E-03 |
| Roll-Off Truck (DSL) | T7 CAIRP | 8 | 1 | 934.92 | 16.49 | 6.68E-04 | 1.18E-05 | 1.47E-01 | 2.59E-03 |
| RNG Tube truck four trips/mo | T7 CAIRP | 14 | | 934.92 | 28.24 | 6.68E-04 | 2.02E-05 | 1.47E-01 | 4.44E-03 |
| Water Truck DSL | T7 CAIRP | 50 | | 934.92 | 103.06 | 6.63E-04 | 7.31E-05 | 2.32E-03 | 2.55E-04 |
| | _ | | | Sum of Emissions | 188 | · | 4.77E-04 | · | 1.36E-02 |

Table 5.2.1 GHG Emissions Saved by Converting to Electric

| Sum of emissions from Table G5.2 excluding tube truck and toll-off truck -" Medium Duty Vehicles": | | | 6.50E+04 | 2.02E-01 | 2.98E+00 |
|--|--|-----|----------|----------|----------|
| Days per Year: | 360 Annual Total Converted to Metric Tons: | | 23 | 4.72E-06 | 1.41E-11 |
| | Global Warming Potential | GWP | 1 | 25 | 298 |
| Total Emissions Reduction by converti | MTCO2e/Yr | 23 | 0.00 | 0.00 | |

Table G6.1 On-Road Vehicles Trips - From 2045 Until Closure (assuming 2050 calendar year for emissions)

| Site Properties | | | | | | GHG Emission Factor | ors and Calculations | | |
|--|---|---------------------------------------|--------------------------|---|--|---|--|--|--|
| On-Road Vehicles | Assumed Vehicle Type | Avg. Mileage from Origin to LF/day | Load Factor ⁵ | Emissions Factor GHG CO ₂ (g/mile) ¹³ | GHG CO ₂ (lbs/day) ⁸ | Emissions Factor GHG CH ₄ (g/mile) ¹³ | GHG CH ₄ (lbs/day) ⁸ | Emissions Factor GHG N ₂ O (g/mile) ¹³ | GHG N ₂ O (lbs/day) ⁸ |
| In-County Self Haul/Residential 12 | Light/Heavy Duty Trucks (LHD1 - Gas) | 635 | 1 | 216.55 | 302.96 | 6.58E-04 | 9.20E-04 | 2.58E-01 | 0.4 |
| In-County Commercial 74% Diesel 11 | T7-SWCV (Dsl) | 2,867 | 1 | 713.76 | 4,511.50 | 3.27E-04 | 2.07E-03 | 1.12E-01 | 0.7 |
| In-County Commercial 26% CNG | T7-SWCV (NG) | 165 | 1 | 2,361.44 | 858.98 | 3.04E+00 | 1.11E+00 | 4.81E-01 | 0.2 |
| Out of County Commercial ¹² | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 9,098 | 1 | 934.92 | 18,753.17 | 6.68E-04 | 1.34E-02 | 1.89E-01 | 3.8 |
| | | | | Sum of Emissions | 24,427 | | 1.12E+00 | | 4.68E+00 |

| Used for Attachment | U - 2035 | | | | | | |
|--|--|--|--|--|--|--|--|
| Composite GHG Emissions Factors | | | | | | | |
| CO ₂ e (g/mile) | Weighted Average In- County Commercial CO2e (g/mile) | | | | | | |
| 7.99E+02 | | | | | | | |
| 2.73E+03 | 2.73E+03 | | | | | | |
| 2.73E+03 | | | | | | | |
| 9.79E+02 | | | | | | | |

Includes global warming potential mult.

<----Used in Attachment U

| Composite GHO | G Emissions Factors |
|-------------------------|--|
| CO2e (g/mile) | Weighted Average In- County Commercial CO2e (g/mile) |
| 2.93E+02 | |
| 7.47E+02 | 1.22E+03 |
| 2.58E+03 | |
| 9.91E+02 | |
| Includes global warming | g potential mult. |

John Smith Road Landfill - DEIR ATTACHMENT G

Projected Project and Net Increase in On-Road Trips and Off-Road Operations GHG Emissions Calculations

Table G6.2 On-Road Landfill Support Vehicles for Operations - From 2045 Until Closure (assuming 2050 calendar year emissions)

| Support Vehicles | Vehicle Type, Fuel (Vehicle Category) ¹⁴ | Daily Mileage | Load Factor ⁵ | Emissions Factor GHG CO ₂ (g/mile) ¹³ | GHG CO ₂ (lbs/day) ⁸ | Emissions Factor GHG CH ₄ (g/mile) ¹³ | GHG CH ₄ (lbs/day) ⁸ | Emissions Factor GHG N ₂ O (g/mile) ¹³ | GHG N ₂ O (lbs/day) ⁸ |
|------------------------------|--|---------------|--------------------------|---|---|---|---|--|--|
| Ford Mechanic Truck (DSL) | LHD1 | 20 | | 478.63 | 21.10 | 4.72E-03 | 2.08E-04 | 7.52E-02 | 3.32E-03 |
| Fuel Truck (DSL) | LHD2 | 10 | | 478.63 | 10.55 | 4.72E-03 | 1.04E-04 | 7.52E-02 | 1.66E-03 |
| Roll-Off Truck (DSL) | T7 CAIRP | 8 | 1 | 934.92 | 16.49 | 6.68E-04 | 1.18E-05 | 1.47E-01 | 2.59E-03 |
| RNG Tube Truck four trips/mo | T7 CAIRP | 14 | 1 | 934.92 | 28.24 | 6.68E-04 | 2.02E-05 | 1.47E-01 | 4.44E-03 |
| Water Truck DSL | T7 CAIRP | 50 | | 934.92 | 103.06 | 6.58E-04 | 7.25E-05 | 1.47E-01 | 1.62E-02 |
| | | | | Sum of Emissions | 179 | | 4.17E-04 | | 2.82E-02 |

CARB, 2017. California Air Resources Board, The Carl Moyer Program Guidelines, 2017 Revisions, Appendix D - Tables for Emissions Reduction and Cost Effectiveness Calculations, Tables Sources: D-7 to D-9 for Off-Road Diesel and Non-Mobile Agricultural (Ag) Projects

L&A, 2021. Lawrence & Associates, July 2021, Design Basis Report, John Smith Road Landfill Expansion.

CAPCOA, 2017. California Air Pollution Control Officers Association (CAPCOA), version 2017, California Emissions Estimator Model (CalEE MOD), Appendix D, Default Data Tables

Notes/Citations:

- 1 Vehicles that best represent items listed in CARB 2017, Table D-7
- 2 Vehicles and equipment as reported by Landfill Operator from L&A 2021
- 3 Vehicle horsepower estimated from equipment manufacturer for base model.
- 4 Citation not used.
- 5 Load Factor as listed in CARB, 2017 Table D-7, or 1 when data unavailable.
- 6 The average working hours of the equipment as described by the Landfill Operator from L&A 2021
- 7 Average days of equipment operation as described by the operator (landfill may be open 7 days per week).
- 8 Equation C-5 was used per CARB, 2017 Appendix C.
- 9 Equation C-6 was used per CARB, 2017 Appendix C.
- 10 Greenhouse Gas Factors Acquired from Table 3.4 of CAPCOA, 2017 Appendix D
- 11 Commercial vehicles are packer (route) collection trucks defined as T-7 Diesel Solid Waste Collection Vehicles per EMFAC2017 User's Guide V1.0.1.
- 12 Residential/self haul vehicles are all other inbound vehicles defined as Light-Heavy Trucks (GVWR< 10,000 to 14,000 lbs per EMFAC2017 User's Guide V1.0.1).
- 13 Values obtained from EMFAC2017 (v1.0.2) Emission Rates for San Benito County.

John Smith Road Landfill - DEIR ATTACHMENT H

Construction GHG Emission Calculations: On-Road and Off- Road Equipment

Table H1 On-Road and Off Road Emissions Summary for Module Construction Project

| Totals | Total CO ₂ Emissions | Total CH ₄ Emissions | Total N ₂ O Emissions | Total CO ₂ Equivalent Emissions |
|--------------------------------------|---------------------------------|---------------------------------|-------------------------------------|--|
| Total (lbs)/project (Tables H5 & H6) | 501,029.96 | 126.25 | 1.87 | 512,127.85 |
| Total (short tons)/project | 250.51 | 0.06 | 0.00 | 256.06 |
| Total (metric tons)/project | 227.27 | 0.06 | 0.00 | 232.32 |
| Total (metric tons)/project* | 113.63 | 0.0286 | 0.0005 | 116.16 |

^{* =} Construction performed every 2 years, estimated construction emissions divided by 2.

Table H2 Construction Emissions Total for Proposed Project (Averaged)

| Totals | Total CO2 Equivalent Emissions, MTCO2e | |
|---|---|------------------|
| Total of 29 const. projects (Table H1)* | 3,368.68 | |
| Total Averaged over 65 years | 51.83 | Use Attachment U |

^{*}Assuming one project every two years for module construction 65-year site life (Attachment D).

Table H3 On-Road and Off Road Emissions Summary for Class I Area Clean Closure

| Totals | Total CO ₂ Emissions | Total CH ₄ Emissions | Total N ₂ O Emissions | Total CO ₂ Equivalent Emissions |
|--------------------------------------|---------------------------------|---------------------------------|-------------------------------------|--|
| Total (lbs)/project (Tables H7 & H8) | 310,373.78 | 28.54 | 27.80 | 320,110.20 |
| Total (short tons)/project | 155.19 | 0.01 | 0.01 | 160.06 |
| Total (metric tons)/project | 140.78 | 0.01 | 0.01 | 145.54 |
| Total (metric tons)/project | 70.39 | 0.0065 | 0.0069 | 72.77 |

Table H4 On-Road and Off Road Emissions Summary for Entrance Construction Project

| Totals | Total CO ₂ Emissions | Total CH ₄ Emissions | Total N ₂ O Emissions | Total CO ₂ Equivalent Emissions |
|--------------------------------------|---------------------------------|---------------------------------|-------------------------------------|--|
| Total (lbs)/project (Tables H7 & H8) | 977,319.68 | 269.94 | 0.86 | 1,000,220.13 |
| Total (short tons)/project | 488.66 | 0.13 | 0.00 | 500.11 |
| Total (metric tons)/project | 443.31 | 0.12 | 0.00 | 453.71 |
| Total (metric tons)/project | 221.65 | 0.0612 | 0.0002 | 226.85 |

Table H5 On-Road and Off Road Emissions Summary for 58-acre Closure Cap Construction Project

| Totals | Total CO ₂ Emissions | Total CH ₄ Emissions | Total N ₂ O Emissions | Total CO ₂ Equivalent Emissions |
|--------------------------------------|---------------------------------|---------------------------------|-------------------------------------|--|
| Total (lbs)/project (Tables H7 & H8) | 2,743,290.76 | 859.44 | 859.96 | 3,042,513.76 |
| Total (short tons)/project | 1,371.65 | 0.43 | 0.43 | 1,521.26 |
| Total (metric tons)/project | 1,244.35 | 0.39 | 0.43 | 1,390.61 |
| Total (metric tons)/project | 622.17 | 0.1949 | 0.2150 | 695.31 |

Table: H6 Closure Emissions Totals for Existing Operation

| Totals | Total CO ₂ Equivalent Emissions, MTCO ₂ e | |
|--------------------------------|--|-------------------------------|
| 58-Acre Closure per Table H2 | 695.31 | for 58-acre current operation |
| Average averaged over 17 years | 41 | Use Attachment U |

On-Road Emissions - Equation For Table H5:

Annual emissions by pollutant (metric tons/year) = (emission factor (grams/miles) + deterioration product (grams/mi) (not applicable)) × annual activity (miles/year) × percentage operation in California (100%) \div 907,200 (grams/ton)

Off-Road Emissions Equation for Table H4:

Annual emissions by pollutant (tons/year) = (emission factor (grams/brake hp-hour) + deterioration product (grams/brake hp-hour) (not applicable)) \times horsepower (hp) \times load factor \times annual activity (hours/year) \times percentage operation in California (100%) \times 907,200 (grams/ton)

John Smith Road Landfill - DEIR ATTACHMENT H

Construction GHG Emission Calculations: On-Road and Off- Road Equipment

Table: H7 Closure Emissions Totals for Proposed Project

| Totals | Total CO ₂ Equivalent Emissions, MTCO ₂ e | | |
|--------------------------------------|--|-----------------------------|------------|
| $H6 \times 4.36 = 253 \text{ acres}$ | 3,032 | | |
| Six 29-Acre Closure Projects Each | 348 | Att U Periodic Closure Proj | ects, each |
| Final Closure Project (79 acres) | 946 | Att U 2087 | |

Module Construction

Table H8 Module Construction Project GHG Emissions from Off Road Vehicle Emissions

Total Work Days

122 week days

Assume 2010 Model Year or Newer

| | Vehicle Proper | ties | | | Operation Properties GHG Emission Factors and Calculation | | | | | 3 |
|-----------------------------------|---|--|-----------------|--------------------------|---|---|---|---|---|---|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/Model/ Fuel ² | HP ³ | Load Factor ⁵ | Average Hours per Day ⁶ | Total Days of Operation ⁷ | GHG CO ₂ (g/bhp- hr) ⁹ | GHG CO ₂ (lb/project) ⁸ | GHG CH ₄ (g/bhp- hr) ⁹ | GHG CH ₄ (lb/project) ⁸ |
| Dozer, heavy ripping | Crawler Tractors | Caterpillar D8T Diesel | 310 | 0.43 | 8 | 15 | 528.68 | 18,644 | 0.154 | 5.43 |
| Dozer, light ripping | Crawler Tractors | Caterpillar D6T Diesel | 165 | 0.43 | 8 | 50 | 524.50 | 32,816 | 0.153 | 9.57 |
| Dozer, operations layer & erosion | Crawler Tractors | Caterpillar D6R Diesel | 140 | 0.43 | 8 | 25 | 524.50 | 13,922 | 0.153 | 4.06 |
| Grader | Graders | Caterpillar 140G Diesel | 150 | 0.41 | 8 | 5 | 536.70 | 2,911 | 0.156 | 0.85 |
| Loader | Rubber Tired Loaders | Caterpillar 938M Diesel | 190 | 0.36 | 2 | 30 | 522.35 | 4,726 | 0.152 | 1.38 |
| Pad-Foot Compactor, heavy | Rollers | Caterpillar 815 Diesel | 341 | 0.38 | 8 | 10 | 533.88 | 12,201 | 0.155 | 3.54 |
| Smooth Drum Roller | Rollers | Caterpillar CS34 Diesel | 74 | 0.38 | 8 | 5 | 527.63 | 1,308 | 0.154 | 0.38 |
| Backhoe | Excavators | Caterpillar 426C | 88 | 0.38 | 8 | 5 | 518.99 | 1,530 | 0.151 | 0.45 |
| Excavator, rock breaking | Excavators | John Deere 350 Diesel | 271 | 0.38 | 8 | 50 | 522.29 | 47,431 | 0.152 | 13.80 |
| Excavator, trenches, culverts | Excavators | John Deere 350 Diesel | 271 | 0.38 | 8 | 50 | 522.29 | 47,431 | 0.152 | 13.80 |
| Dump/Haul Truck, Misc. Use | Off-Highway Trucks | Caterpillar 740 Diesel | 453 | 0.38 | 8 | 50 | 528.81 | 80,274 | 0.154 | 23.38 |
| Off-road Dump/haul truck | Off-Highway Trucks | Caterpillar 740 diesel | 453 | 0.38 | 8 | 50 | 528.81 | 80,274 | 0.154 | 23.38 |
| Off-road Dump/haul truck | Off-Highway Trucks | Caterpillar 740 diesel | 453 | 0.38 | 8 | 50 | 528.81 | 80,274 | 0.154 | 23.38 |
| Screening Plant | Other Construction Equipment | Spyder 514TS Diesel | 74 | 0.42 | 8 | 25 | 523.17 | 7,169 | 0.152 | 2.08 |
| Extended Loader | Tractors/Loaders/Backhoe s | JCB 20TC | 74 | 0.37 | 8 | 5 | 511.35 | 1,235 | 0.154 | 0.37 |
| | | | | | | | Sum of Emissions: | 432,147 | | 125.85 |

John Smith Road Landfill - DEIR ATTACHMENT H

Construction GHG Emission Calculations: On-Road and Off- Road Equipment

Table H9 Module Construction Project GHG Emissions from On-Road Vehicle Emissions

Assume a 2023 Calendar year with an aggregate model year

| | Vehicle Properties | | | GHG Emission Factors and Calculations | | | | | | |
|--|------------------------|-------------------------------|----------------------------------|---------------------------------------|---|----------------|--|---|---|---|
| On-Road Vehicles | Vehicle Category, Fuel | Avg. Mileage/day ⁴ | Mileage/ Project ⁴ | Load Factor ⁵ | Emissions Factor GHG CO ₂ (g/mile) ¹⁰ | (lbs/quarter)1 | Emissions Factor GHG CH ₄ (g/bhp- hr) ¹⁰ | GHG CH ₄ (lbs/project) ¹¹ | Emissions Factor GHG N ₂ O (g/bhp- hr) ¹⁰ | GHG N ₂ O (lbs/project) ¹¹ |
| Belly Dump (8 trucks for gravel) | T7 - CARP Dsl | 60 | 960 | 1 | 1314.3 | 2,782 | 9.82E-04 | 2.08E-03 | 0.21 | 0.44 |
| Low Boy (equipment mob) | T7 - CARP Dsl | 200 | 2,400 | 1 | 1314.3 | 6,954 | 9.82E-04 | 5.20E-03 | 0.21 | 0.44 |
| Flat Bed or Van (8 trucks liner materials) | T7 - CARP Dsl | 200 | 1,600 | 1 | 1314.3 | 4,636 | 9.82E-04 | 3.46E-03 | 0.21 | 0.17 |
| Water Truck | T6 CAIRP Heavy, Dsl | 10 | 8,000 | 1 | 952.5 | 16,800 | 4.12E-04 | 7.26E-03 | 0.15 | 0.08 |
| Ford Mechanic Truck | LHD2, Diesel | 4 | 376 | 1 | 672.0 | 639 | 6.07E-03 | 8.11E-03 | 0.10 | 0.08 |
| Fuel Truck | LHD2, Diesel | 2 | 188 | 1 | 672.0 | 279 | 4.79E-03 | 8.11E-03 | 0.10 | 0.04 |
| Foreman Truck | LHD2, Diesel | 2 | 188 | 1 | 672.0 | 279 | 6.07E-03 | 2.52E-03 | 0.10 | 0.04 |
| Light Truck or Carpool Van (2) | LHD2, Gas | 60 | 14,400 | 1 | 1150.2 | 36,516 | 1.16E-02 | 3.68E-01 | 0.02 | 0.57 |
| | - | | | ! | Sum of Emissions | 68,883 | _ | 4.05E-01 | - | 1.87 |

Class I Area Clean Closure

 Table H10 Clean Closure Project GHG Emissions from Off Road Vehicle Emissions
 Assume 2030 Model Year or Newer for a 2037 construction project

| | Vehicle Proper | ties | | | Operation I | Properties GHG Emission Factors and Calculations | | | | 6 |
|-------------------------------|---|--|-----------------|--------------------------|---------------------------------------|--|---|---|---|--|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/Model/ Fuel ² | HP ³ | Load Factor ⁵ | Average Hours per Day ⁶ | Total Days of Operation ⁷ | GHG CO ₂ (g/bhp- hr) ⁹ | GHG CO ₂ (lb/project) ⁸ | GHG CH ₄ (g/bhp-hr) ⁹ | GHG CH ₄ (lb/project) ⁸ |
| Dozer, clearing, ripping | Crawler Tractors | Caterpillar D8T | 310 | 0.43 | 8 | 7 | 568.299 | 9,353 | 0.029 | 0.48 |
| Backhoe | Tractors/Loaders/Backhoe s | Caterpillar 426C Diesel | 88 | 0.37 | 8 | 23 | 565.9942 | 7,476 | 0.171 | 2.26 |
| Excavator, loading & breaking | Excavators | John Deere 350 Diesel | 271 | 0.38 | 8 | 23 | 472.1062 | 19,722 | 0.153 | 6.39 |
| Off-road Dump/haul truck | Off-Highway Trucks | Caterpillar 740 diesel | 453 | 0.38 | 8 | 23 | 529.2094 | 36,954 | 0.171 | 11.94 |
| Off-road Dump/haul truck | Off-Highway Trucks | Caterpillar 740 diesel | 453 | 0.38 | 8 | 14 | 529.2094 | 22,494 | 0.171 | 7.27 |
| | | | | | | | | 95,998 | | 28.34 |

Table H11 Clean Closure Construction Project GHG Emissions from On-Road Vehicle Emissions Assume 2037 Calendar Year with Aggregate Model Year

| | Vehicle Properties | | | GHG Emission Factors and Calculations | | | | | | | |
|-------------------------------------|------------------------|-------------------------------|----------------------------------|---------------------------------------|---|--|--|---|---|---|--|
| On-Road Vehicles | Vehicle Category, Fuel | Avg. Mileage/day ⁴ | Mileage/ Project ⁴ | Load Factor ⁵ | Emissions Factor GHG CO ₂ (g/mile) ¹⁰ | GHG CO ₂ (lbs/project) ¹¹ | Emissions Factor GHG CH ₄ (g/bhp- hr) ¹⁰ | GHG CH ₄ (lbs/project) ¹¹ | Emissions Factor GHG N ₂ O (g/bhp- hr) ¹⁰ | GHG N ₂ O (lbs/project) ¹¹ | |
| Ford Mechanic Truck | LHD2, Diesel | 96 | 2,208 | 1 | 537.4 | 2,616 | 6.56E-03 | 3.19E-02 | 0.01 | 0.03 | |
| Water Truck ¹² | T6 CAIRP Heavy, Diesel | 30 | 690 | 1 | 951.4 | 1,447 | 5.11E-04 | 7.78E-04 | 0.15 | 0.23 | |
| Low boy or flat bed (equipment mob) | T7 - CARP Dsl | 100 | 800 | 1 | 961.3 | 1,695 | 9.25E-04 | 1.63E-03 | 0.15 | 0.27 | |
| End Dump | T7 - CARP Dsl | 411 | 81,378 | 1 | 961.3 | 172,467 | 9.25E-04 | 1.66E-01 | 0.15 | 27.11 | |
| Light Truck or Carpool Van (2)13 | LHD2, Gas | 8.8 | 14,256 | 1 | 967.2 | 36,151 | 0.00E+00 | 2.26E-03 | 0.01 | 0.16 | |
| _ | | Sum of Emissions | 214,376 | • | 2.03E-01 | • | 27.80 | | | | |

John Smith Road Landfill - DEIR ATTACHMENT H

Construction GHG Emission Calculations: On-Road and Off- Road Equipment

Entrance Construction

Table H12 Entrance Construction Project GHG Emissions from Off Road Vehicle Emissions

Assume 2015 Model Year or Better

| • | Vehicle Proper | ties | | | Operation l | Properties | (| GHG Emission Fac | tors and Calculations | , |
|-----------------------------------|---|--|-----------------|--------------------------|---------------------------------------|--------------------------------------|---|---|---|--|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/Model/ Fuel ² | HP ³ | Load Factor ⁵ | Average Hours per Day ⁶ | Total Days of Operation ⁷ | GHG CO ₂ (g/bhp- hr) ⁹ | GHG CO ₂ (lb/project) ⁸ | GHG CH ₄ (g/bhp-hr) ⁹ | GHG CH ₄ (lb/project) ⁸ |
| Dozer, light ripping | Crawler Tractors | Caterpillar D8T Diesel | 310 | 0.43 | 8 | 78 | 512.90 | 94,054 | 0.153 | 28.06 |
| Dozer, operations layer & erosion | Crawler Tractors | Caterpillar D8T Diesel | 140 | 0.43 | 8 | 78 | 511.31 | 42,344 | 0.153 | 12.67 |
| Grader | Graders | Caterpillar 140G Diesel | 150 | 0.41 | 2 | 5 | 522.22 | 708 | 0.156 | 0.21 |
| Loader | Rubber Tired Loaders | Caterpillar 938M Diesel | 190 | 0.36 | 6 | 30 | 508.91 | 13,814 | 0.152 | 4.13 |
| Pad-Foot Compactor, heavy | Rollers | Caterpillar 815 Diesel | 341 | 0.38 | 8 | 68 | 517.28 | 80,390 | 0.152 | 23.62 |
| Smooth Drum Roller | Rollers | Caterpillar CS34 Diesel | 74 | 0.38 | 8 | 5 | 513.51 | 1,273 | 0.153 | 0.38 |
| Backhoe | Tractors/Loaders/Backhoe s | Caterpillar 426C Diesel | 88 | 0.37 | 8 | 10 | 517.37 | 2,971 | 0.154 | 0.88 |
| Excavator, rock breaking | Excavators | John Deere 350 Diesel | 271 | 0.38 | 8 | 50 | 509.87 | 46,303 | 0.152 | 13.80 |
| Excavator, trenches, culverts | Excavators | John Deere 350 Diesel | 271 | 0.38 | 8 | 50 | 509.87 | 46,303 | 0.152 | 13.80 |
| Dump/Haul Truck, Misc. Use | Off-Highway Trucks | Caterpillar 740 Diesel | 453 | 0.38 | 8 | 98 | 515.84 | 153,479 | 0.154 | 45.82 |
| Off-road Dump/haul truck | Off-Highway Trucks | Caterpillar 740 diesel | 453 | 0.38 | 8 | 98 | 515.84 | 153,479 | 0.154 | 45.82 |
| Off-road Dump/haul truck | Off-Highway Trucks | Caterpillar 740 diesel | 453 | 0.38 | 8 | 98 | 515.84 | 153,479 | 0.154 | 45.82 |
| Water Truck | Off-Highway Trucks | Peterbilt Diesel | 330 | 0.38 | 8 | 98 | 515.84 | 111,806 | 0.154 | 33.38 |
| Extended Loader | Rubber Tired Loaders | JCB 20TC | 74 | 0.36 | 8 | 5 | 505.02 | 1,186 | 0.151 | 0.35 |
| Paving Machine | Pavers | CAT AP655F | 173 | 0.42 | 8 | 5 | 513.17 | 3,288 | 0.152 | 0.97 |
| | | | | | | | Sum of Emissions: | 904,877 | • | 269.72 |

Table H13 Entrance Construction Project GHG Emissions from On-Road Vehicle Emissions

Assuming 2025 Calendar Year and Aggregate Model Year

| | Vehicle Properties | | | GHG Emission Factors and Calculations | | | | | | |
|-------------------------------------|------------------------|-------------------------------|----------------------------------|---------------------------------------|---|--------|--|--|---|---|
| On-Road Vehicles | Vehicle Category, Fuel | Avg. Mileage/day ⁴ | Mileage/ Project ⁴ | Load Factor ⁵ | Emissions Factor GHG CO ₂ (g/mile) ¹⁰ | | Emissions Factor GHG CH ₄ (g/bhp- hr) ¹⁰ | GHG CH ₄ (lbs/project) ¹¹ | Emissions Factor GHG N ₂ O (g/bhp- hr) ¹⁰ | GHG N ₂ O (lbs/project) ¹¹ |
| Crane | T7- CAIRP | 200 | 400 | 1 | 1259.0 | 1,110 | 9.76E-04 | 8.61E-04 | 0.20 | 0.17 |
| Belly Dump (8 per day) | T7-CAIRP | 30 | 7,200 | 1 | 1259.0 | 19,984 | 9.76E-04 | 1.55E-02 | 0.20 | 0.08 |
| Low Boy (12 per day) | T7-CAIRP | 200 | 4,800 | 1 | 1259.0 | 13,323 | 9.76E-04 | 1.03E-02 | 0.20 | 0.08 |
| Hydroseed | T7-CAIRP | 20 | 400 | 1 | 1259.0 | 1,110 | 9.76E-04 | 8.61E-04 | 0.20 | 0.08 |
| Water Truck | T6 CAIRP Heavy, Dsl | 10 | 8,000 | 1 | 950.8 | 16,770 | 4.31E-04 | 7.60E-03 | 0.15 | 0.08 |
| Truck, Flat Bed of Van (8 per day) | T7-CAIRP | 200 | 1,600 | 1 | 1259.0 | 4,441 | 9.76E-04 | 3.44E-03 | 0.20 | 0.08 |
| Ford Mechanic Truck | LHD2, Dsl | 10 | 1,290 | 1 | 625.7 | 1,779 | 7.86E-03 | 2.24E-02 | 0.10 | 0.08 |
| Fuel Truck | LHD2, Dsl | 10 | 1,290 | 1 | 625.7 | 1,779 | 7.86E-03 | 2.24E-02 | 0.10 | 0.08 |
| Forman truck | LHD2 Dsl | 10 | 1,290 | 1 | 625.7 | 1,779 | 7.86E-03 | 2.24E-02 | 0.10 | 0.08 |
| Light truck or Carpool Vehicles (2) | LHD2, Gas | 60 | 15,480 | 1 | 303.8 | 10,367 | 3.13E-03 | 1.07E-01 | 0.01 | 0.01 |
| | | | | ! | Sum of Emissions | 72,443 | | 2.12E-01 | | 0.86 |

John Smith Road Landfill - DEIR ATTACHMENT H

Construction GHG Emission Calculations: On-Road and Off- Road Equipment

Closure Cap Construction

Assumptions Typical 58-acre Construction Project

Final Closure for entire Proposed Project would be 4.36 times this much

 Table H14 Closure Project GHG Emissions from Off Road Vehicle Emissions
 Assume 2025 or newer model year equipment, assuming earliest closure would be in 2037

| | Vehicle Proper | ties | | | Operation Properties | | GHG Emission Factors and Calculations | | | |
|--------------------------------------|---|--|-----------------|--------------------------|---------------------------------------|---|---|--|---|--|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/Model/ Fuel ² | HP ³ | Load Factor ⁵ | Average Hours per Day ⁶ | Total Days of Operation ⁷ | GHG CO ₂ (g/bhp- hr) ⁹ | GHG CO ₂ (lb/project) ⁸ | GHG CH ₄ (g/bhp- hr) ⁹ | GHG CH ₄ (lb/project) ⁸ |
| Dozer, heavy ripping | Crawler Tractors | Caterpillar D8T Diesel | 700 | 0.43 | 8 | 100 | 472.4081 | 250,789 | 0.153 | 81.22 |
| Dozer, light ripping for piling soil | Crawler Tractors | Caterpillar D8T Diesel | 410 | 0.43 | 8 | 100 | 474.0072 | 147,388 | 0.153 | 47.57 |
| Grader C | Graders | Caterpillar 140G Diesel | 150 | 0.41 | 8 | 50 | 478.5084 | 25,951 | 0.155 | 8.41 |
| Loader | Rubber Tired Loaders | Caterpillar 938M Diesel | 190 | 0.36 | 8 | 10 | 469.8711 | 5,668 | 0.152 | 1.83 |
| Pad-Foot Compactor, heavy (2) | Rollers | Caterpillar 815 Diesel | 341 | 0.38 | 16 | 68 | 477.5732 | 148,437 | 0.154 | 47.87 |
| Smooth Drum Roller | Rollers | Caterpillar CS34 Diesel | 74 | 0.38 | 8 | 5 | 473.851 | 1,175 | 0.153 | 0.38 |
| Backhoe T | Γractors/Loaders/Backhoe | Caterpillar 426C Diesel | 88 | 0.37 | 8 | 10 | 477.19 | 2,740 | 0.154 | 0.88 |
| Excavator, trenches, culverts | Excavators | John Deere 350 Diesel | 271 | 0.38 | 8 | 10 | 470.2915 | 8,542 | 0.152 | 2.76 |
| Earth Mover (6) | Scrapers | Caterpillar 637K | 860 | 0.48 | 48 | 100 | 472.115 | 2,062,353 | 0.153 | 668.35 |
| | · | · | | | | | Sum of Emissions: | 2,653,043 | · | 859.28 |

John Smith Road Landfill - DEIR ATTACHMENT H

Construction GHG Emission Calculations: On-Road and Off- Road Equipment

Table H15 Closure Project GHG Emissions from On-Road Vehicle Emissions

Assume 2037 calendar year aggregated model year

| | Vehicle Properties | | | | GHG Emission Factors and Calculations | | | | | | |
|-------------------------------------|------------------------|-------------------------------|----------------------------------|--------------------------|---|---------------|--|---|---|---|--|
| On-Road Vehicles | Vehicle Category, Fuel | Avg. Mileage/day ⁴ | Mileage/ Project ⁴ | Load Factor ⁵ | Emissions Factor GHG CO ₂ (g/mile) ¹⁰ | (lbs/project) | Emissions Factor GHG CH ₄ (g/bhp- hr) ¹⁰ | GHG CH ₄ (lbs/project) ¹¹ | Emissions Factor GHG N ₂ O (g/bhp- hr) ¹⁰ | GHG N ₂ O (lbs/project) ¹¹ | |
| Belly Dump (8 per day) | T7-CAIRP | 30 | 480 | 1 | 961.3 | 1,017 | 9.25E-04 | 9.79E-04 | 0.15 | 0.08 | |
| Low Boy (15 per day) | T7-CAIRP | 200 | 4,800 | 1 | 961.3 | 10,173 | 9.25E-04 | 9.79E-03 | 0.15 | 0.08 | |
| Truck, Flat Bed of Van (8 per day) | T7-CAIRP | 200 | 1,000 | 1 | 961.3 | 2,119 | 9.25E-04 | 2.04E-03 | 0.15 | 0.08 | |
| Hydroseed (2) | T7-CAIRP | 20 | 800 | 1 | 961.3 | 1,695 | 9.25E-04 | 1.63E-03 | 0.15 | 0.08 | |
| Water Truck (2) | T6 CAIRP Heavy, Dsl | 10 | 19,200 | 1 | 951.4 | 40,272 | 5.11E-04 | 2.16E-02 | 0.15 | 0.08 | |
| Mechanic Truck | LHD2, Dsl | 10 | 1,200 | 1 | 537.4 | 1,422 | 6.56E-03 | 1.73E-02 | 0.08 | 0.08 | |
| Fuel Truck | LHD2, Dsl | 10 | 1,200 | 1 | 537.4 | 1,422 | 6.56E-03 | 1.73E-02 | 0.08 | 0.08 | |
| Forman truck | LHD2 Dsl | 10 | 1,200 | 1 | 537.4 | 1,422 | 6.56E-03 | 1.73E-02 | 0.08 | 0.08 | |
| Light truck or Carpool Vehicles (2) | LHD2, Gas | 60 | 14,400 | 1 | 967.2 | 30,706 | 2.26E-03 | 7.19E-02 | 0.01 | 0.01 | |
| | | | | | Sum of Emissions | 90,248 | | 1.60E-01 | | 0.68 | |

CARB, 2017. California Air Resources Board, The Carl Moyer Program Guidelines, 2017 Revisions, Appendix D - Tables for Emissions Reduction and Cost Effectiveness Calculations, Tables D-7 to D-Sources: 9 for Off-Road Diesel and Non-Mobile Agricultural (Ag) Projects

L&A, 2021. Lawrence & Associates, July 2021, Design Basis Report, John Smith Road Landfill Expansion.

CAPCOA, 2017. California Air Pollution Control Officers Association (CAPCOA), version 2017, California Emissions Estimator Model (CalEE MOD), Appendix D, Default Data Tables

Notes/Citations:

- 1 Vehicles that best represent items listed in Table D-7 of Appendix D from Tables for Emission Reduction and Cost-Effectiveness Calculations.
- 2 Vehicles and equipment as described in L&A, 2021 Design Basis Report.
- 3 Base model configuration as reported by manufacturer.
- 4 Mile per day and total project miles from L&A 2021 Design Basis Report.
- 5 Load Factor as listed in CARB, 2017 Table D-7, or 1 when data unavailable.
- 6 Assumed working hours for equipment as listed in L&A, 2021 Design Basis Report.
- 7 Assumed working days for equipment as listed in L&A, 2021 Design Basis Report.
- 8 Equation above was used to calculate emissions as listed in CARB, 2017, Appendix C.
- 9 Greenhouse Gas Factors Acquired from CAPCOA, 2017, Table 3.4 of Appendix D.
- 10 Values obtained form EMFAC2017 (v1.0.2) Emission Rates for San Benito County assuming calendar year and model year described in each table header.
- 11 Equation above were used to calculate emissions as listed in CARB, 2017 Appendix C.

John Smith Road Landfill ATTACHMENT I Electrical GHG Emissions

Power Conversion Variables

| Power Utilized = MW x Hrs of Operation | | | | | | | | |
|--|------------------|-------------------------|--|--|--|--|--|--|
| Approx. Full Load = HP x Amp x 1.25 | | | | | | | | |
| 1 HP = | 1 HP = 746 watts | | | | | | | |
| 1 MWh = | 2.68 | lb of CO ₂ e | | | | | | |

Source: CalEEMod 2020, Appendix D, p4 for PG&E 2020

Table I1 Electrical Load - Current Operation (Pre-Project)

| | | Percent Time | Hours of | | MWh | | | |
|---------------------------------|----------------|--------------|----------------|------------|----------|---------|-------|----------|
| Equipment | No. of Items | Operating | Operation/Year | Horsepower | Consumed | Voltage | Phase | Amperage |
| Leachate Pumps Mod 3A | 1 | 10% | 876 | 0.33 | 0.2 | 230 | 1 | 1 |
| Leache Pump Mod 7 | 1 | 10% | 876 | 1.5 | 1.0 | 480 | 3 | 3 |
| Leachate Pump Mod 8 | 1 | 10% | 876 | 1 | 0.7 | 480 | 3 | 2 |
| Sewage Lift Station | 2 | 10% | 1,752 | 2 | 5.2 | 240 | 1 | 16 |
| Blowers | 2 | 100% | 17,520 | 15 | 392.1 | 480 | 3 | 58 |
| Groundwater Extraction Wells | 5 | 25% | 10,950 | 0.33 | 13.5 | 240 | 1 | 6 |
| Other Misc.(Outlets/Scalehouse) | 1 | 100% | 8,760 | 3 | 19.6 | 120 | 1 | 23 |
| Total Hi | s of Operation | | 41,610 | Total MWh | 432 | | | |

Table I2 Indirect GHG Emissions Existing Conditions - Electrical

432 MWh

| Totals | Emissions |
|--|-----------|
| CO ₂ Emissions (lbs/year) | 1,158 |
| CO ₂ Emissions (tons/year) | 0.58 |
| CO ₂ Emissions (metric tons/year) | 0.53 |

<-- Baseline for Table in Attachment U

Power Utilized:

Table I3 Electrical Load - Proposed Project (excluding RNG Facility)

| | | Percent Time | Hours of | | MWh | | | |
|---------------------------------|-----------------|--------------|----------------|------------|----------|---------|-------|----------|
| Equipment | No. of Items | Operating | Operation/Year | Horsepower | Consumed | Voltage | Phase | Amperage |
| Leachate Pumps Mod 3A | 1 | 10% | 876 | 0.33 | 0.2 | 230 | 1 | 1 |
| Leache Pump Mod 7 | 1 | 10% | 876 | 1.5 | 1.0 | 480 | 3 | 3 |
| Leachate Pump Mod 8 | 1 | 10% | 876 | 1 | 0.7 | 480 | 3 | 2 |
| New Leachate Sumps | 5 | 10% | 4,380 | 1.5 | 24.5 | 480 | 3 | 15 |
| Sewage Lift Station | 2 | 10% | 1,752 | 2 | 5.2 | 230 | 1 | 16 |
| Blowers | 2 | 100% | 17,520 | 30 | 784.2 | 480 | 1 | 117 |
| Leachate tank pump | 1 | 5% | 438 | 3 | 1.0 | 480 | 1 | 6 |
| Groundwater Extraction Wells | 5 | 50% | 21,900 | 0.33 | 27.0 | 240 | 1 | 6 |
| Other Misc.(Outlets/Scalehouse) | 1 | 100% | 8,760 | 3 | 19.6 | 120 | 1 | 23 |
| Total H | rs of Operation | | 57,378 | Total MWh | 863 | | | |
| Power Utilized: | 863 | MWh | | | | | | |

Table I4 Indirect GHG Emissions Proposed Project - Electrical

Assume per requirement gradually increases intil 2070 as more pumps are added.

| Totals | Emissions |
|--|-----------|
| CO ₂ e Emissions (lbs/year) | 2,314 |
| CO ₂ e Emissions (tons/year) | 1 |
| CO ₂ e Emissions (metric tons/year) | 1.05 |

<-- Peak for Table in Attachment U

Table I5 Summary

| | Emissions, |
|--------------------------------|------------|
| Totals | MTCOe2/yr |
| Current (metric tons per year) | 0.53 |
| Proposed Project | 1.05 |
| Change | 0.52 |

Back to Index

John Smith Road Landfill ATTACHMENT J

Water and Waste Water

Used for GHG Emissions Calculations

Source: CalEEMod

Electricity Intensity for Water Use: 1,272 kWh/Million gallons

Source: Dist. for Monterey Bay Air Quality District per Cal EEMod Appendix D, 2020 Ver 4.0, Table 9.25

GHG Emissions Factor for Electrici 2.68 MTCO₂e/MWh

Emissions, $(MTCO_2e/yr)$ = water use (gal/yr) x Electricity intensity $(kwh/million gal) / 1,000 kwh/mwhr / 1,000,0000 gal/ per million gal x GHG Emissions Factor <math>(MTCO_2e/MWhr)$

Table J1 Summary of Water and Wastewater

| Water Usage | Gal/Year | Average Annual gpm | Emissions MtCO ₂ e/yr ⁸ |
|--|-----------|-----------------------|---|
| Current Operation Water Usage for Operations ¹ | 2,444,634 | 4.65 | 8.33 |
| Current Operation Water Usage for Contruction ² | 886,437 | 1.69 | 3.02 |
| Current Operation Water Usage for Closure Cap ³ | 249,716 | 0.48 | 0.85 |
| Total Current Water Usage | 3,580,787 | 6.81 | 12.21 |
| Proposed Water Usage for Operation ⁴ | 5,258,000 | 10.00 | 17.92 |
| Proposed Water Usage for Module Contruction ⁵ | 1,081,340 | 2.06 | 3.69 |
| Proposed water Usage for Closure Cap ⁶ | 216,268 | 0.41 | 0.74 |
| Total Proposed Water Usage For Life of Project | 6,339,340 | 12.06 | 21.61 |
| Difference | 2,758,553 | 5.25 | 9.40 |
| Waste Water | Gal/Year | Average Annual gpm | Emissions from CalEEMOD MtCO ₂ e/yr |
| Current Operation Wastewater ⁶ | 2,407,248 | 4.58 | 7.08 |
| Proposed Operation Wastewater Peak in 2086 ⁷ | 4,777,704 | 9.09 | 14.05 |
| Difference | 2,370,456 | 4.51 | 6.97 |

- 1. From L&A Water Needs Memo in Attachment Y Operations Total for 2021
- 2. From Table 1 in Attachment Y Average Corrected Construction Water / 2 for every other year
- 3. From Table 1 in Attachment Y Average Corrected Construction Water * 2 for larger closure project / 15 years remaining.
- 4. From Table 3 in Attachment Y Total per year
- 5. From Table 4 in Attachment Y /2 for construction every other year
- 6. Asume similar to one construction project from Table 4 in Attachment Y dvided over 10 smaller partial final closure projects.
- 7. From Table B23 in Text. Gradually increases over life of landfill as more LCRS sumps are added and condensate is generated.
- 8. Sum of water and wastewater emissions used in Attachment U. Change in waste water is increased incrementally over site life.

Page 1 of 45

JSRL Expansion Project - San Benito County, Annual



Date: 10/26/2021 1:58 PM

JSRL Expansion Project San Benito County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | | Metric | Lot Acreage | Floor Surface Area | Population |
|------------------------|------|---|----------|-------------|--------------------|------------|
| General Light Industry | 0.00 | 8 | 1000sqft | 90.36 | 0.00 | 15 |

1.2 Other Project Characteristics

| Unberter | D | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | |
|----------------------------|-------------------|---------------------------------------|-------|---------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.5 | Precipitation Freq (Days) | 50 |
| Climate Zone | 3 | | | Operational Year | 2023 |
| Utility Company | Pacific Gas & Ele | ectric Company | | | |
| CO2 Intensity (lb/MWhr) | 641.35 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Assumes Landfill as Industrial, General Light Industry, with Pop of 15 to account for full-times staff.

Construction Phase -

Water And Wastewater - Sum of water usage for operations and construction.

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------|---------------|--------------|
| tblLandUse | LotAcreage | 0.00 | 90.36 |
| tblLandUse | Population | 0.00 | 15.00 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblWater | IndoorWaterUseRate | 0.00 | 6,977,567.00 |

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N20 | CO2e |
|-------------|-----------|--------|-----------------|---------|
| Category | MT/yr | | | |
| Mitigated | 13.1972 | 0.2279 | 5.4700e- 003 | 20.5242 |
| Unmitigated | 13.1972 | 0.2279 | 5.4700e- 003 | 20.5242 |

For 6,977,567 gal (old value) as indoor use = 2.941 x 10-6 MT/yr/gal x 2,407,248 gal (new value) = 7.08 MTCO2e/yr current.

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7.2 Water by Land Use Unmitigated

| | Indoor/Out door Use | Total CO2 | CH4 | N20 | CO2e |
|---------------------------|------------------------|-----------|--------|-----------------|---------|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 6.97757 / | 13.1972 | 0.2279 | 5.4700e- 003 | 20.5242 |
| Total | | 13.1972 | 0.2279 | 5.4700e- 003 | 20.5242 |

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Page 1 of 45

Date: 10/26/2021 2:03 PM

JSRL Expansion Project - San Benito County, Annual

JSRL Expansion Project San Benito County, Annual



1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|------------------------|--------|----------|-------------|--------------------|------------|
| General Light Industry | - 0.00 | 1000sqft | 90.36 | 0.00 | 15 |

1.2 Other Project Characteristics

| Urbanization | Rural | Wind Speed (m/s) | 2.5 | Precipitation Freq (Days) | 50 |
|----------------------------|-------------------|----------------------------|-------|---------------------------|-------|
| Climate Zone | 3 | | | Operational Year | 2023 |
| Utility Company | Pacific Gas & Ele | ectric Company | | | |
| CO2 Intensity (lb/MWhr) | 641.35 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Assumes Landfill as Industrial, General Light Industry, with Pop of 15 to account for full-times staff.

Construction Phase -

Water And Wastewater - Sum of proposed water usage for operations and construction.

| Table Name | Column Name | Default Value | New Value | |
|---------------------------|--------------------|---------------|--------------|--|
| tblLandUse | LotAcreage | 0.00 | 90.36 | |
| tblLandUse | Population | 0.00 | 15.00 | |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural | |
| tblWater | IndoorWaterUseRate | 0.00 | 9,279,251.00 | |

Date: 10/26/2021 2:03 PM

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N20 | CO2e |
|-------------|-----------|--------|-----------------|---------|
| Category | | М | T/yr | |
| Mitigated | 17.5506 | 0.3030 | 7.2800e- 003 | 27.2945 |
| Unmitigated | 17.5506 | 0.3030 | 7.2800e- 003 | 27.2945 |

7.2 Water by Land Use Unmitigated

| | Indoor/Out door Use | Total CO2 | CH4 | N20 | CO2e | | |
|---------------------------|------------------------|-----------|--------|-----------------|---------|--|--|
| Land Use | Mgal | MT/yr | | Т/уг | | | |
| General Light Industry | 9.27925 / | 17.5506 | 0.3030 | 7.2800e- 003 | 27.2945 | | |
| Total | | 17.5506 | 0.3030 | 7.2800e- 003 | 27.2945 | | |

ATTACHMENT K

Trip and Mileage Calculations for Criteria Pollutants Calculations

ASSUMPTIONS BASED ON PEAK TRAFFIC DAY BASELINE

| Incoming Vehicular Traffic | Percentage | Trips |
|-----------------------------------|------------|-------|
| In-County Residential | 92% | 433 |
| In County Commercial ⁵ | 2% | 9 |
| Out of County Commercial | 6% | 27 |
| | 100% | 469 |

ASSUMPTIONS BASED ON PEAK TONNAGE DAY BASELINE

| Incoming Vehicular Traffic | Percentage | Trips |
|-----------------------------------|------------|-------|
| In-County Residential | 60% | 155 |
| In County Commercial ⁵ | 12% | 31 |
| Out of County Commercial | 28% | 73 |
| | 100% | 259 |

ASSUMPTIONS BASED ON AVERAGE PROPOSED PROJECT PEAK TRIP DAY

| Incoming Vehicular Traffic | Percentage | Trips |
|-----------------------------------|------------|-------|
| In-County Residential | 93% | 533 |
| In County Commercial ⁵ | 2% | 11 |
| Out of County Commercial | 5% | 34 |
| | 100% | 578 |

ASSUMPTIONS BASED ON AVERAGE PROPOSED PROJECT PEAK TONNAGE DAY

| Incoming Vehicular Traffic | Percentage | Trips |
|-----------------------------------|------------|-------|
| In-County Residential | 49% | 177 |
| In County Commercial ⁵ | 10% | 35 |
| Out of County Commercial | 42% | 151 |
| | 100% | 363 |

IN-DISTRICT BASELINE TRIP DISTANCE ESTIMATE

(based on attached figures) One Way

| Location | % | Av miles | Notes |
|-------------------------|-----|----------|----------------------------|
| City of Hollister | 95% | 5.8 | to City Hall Via Hillcrest |
| Other County (inc. SJB) | 5% | 36.8 | to County Centroid |
| Weighted Average | | 7.35 | |
| Out of County | | 17.05 | |

IN-DISTRICT BASELINE TRIP DISTANCE ESTIMATE

(based on attached figures) One Way

| Location | % | Av miles | Notes |
|-------------------------|-----|----------|----------------------------|
| City of Hollister | 95% | 5.3 | to City Hall Via Hillcrest |
| Other County (inc. SJB) | 5% | 36.8 | to County Centroid |
| Weighted Average | | 6.88 | |
| Out of County | · | 16.58 | |

CALCULATIONS

Table E1: Baseline Peak Traffic Day Trip Calculations

| Origin ¹ | % of Trips from Origin | Distance from MBARD boundary to Landfill ² | Total Average trips/day ³ | Avg Trips by Origin/day | Avg. Commercial Trips By Origin/day | Avg. Residential Trips By Origin/day | Avg. In County Commercial Round Trip Mileage/day | - | Avg. Out of County Commercial Round Trip Mileage/day |
|-------------------------|---------------------------|---|---|-------------------------------|---|--|--|-------|--|
| SBCIWMR | 94.243% | 7.35 | 469 | 442.00 | 9 | 433 | 132 | 6,365 | 0 |
| Santa Clara - San Jose | 3.394% | 17.05 | 469 | 15.92 | 15.92 | 0.0 | 0 | 0 | 543 |
| Sant a Clara - Gilroy | 0.200% | 17.05 | 469 | 0.94 | 0.94 | 0.0 | 0 | 0 | 32 |
| Santa Clara - Undefined | 1.835% | 17.05 | 469 | 8.61 | 8.61 | 0.0 | 0 | 0 | 293 |
| Monterey County | 0.291% | 17.05 | 469 | 1.36 | 1.36 | 0.0 | 0 | 0 | 46 |
| Alameda | 0.018% | 17.05 | 469 | 0.09 | 0.09 | 0.0 | 0 | 0 | 3 |
| Santa Cruz | 0.008% | 17.05 | 469 | 0.04 | 0.04 | 0.0 | 0 | 0 | 1 |
| San Mateo | 0.004% | 17.05 | 469 | 0.02 | 0.02 | 0.0 | 0 | 0 | 1 |
| Sacramento | 0.003% | 17.05 | 469 | 0.01 | 0.01 | 0.0 | 0 | 0 | 1 |
| San Francisco | 0.002% | 17.05 | 469 | 0.01 | 0.01 | 0.0 | 0 | 0 | 0 |
| San Joaquin | 0.001% | 17.05 | 469 | 0.00 | 0.00 | 0.0 | 0 | 0 | 0 |
| Kern | 0.000% | 17.05 | 469 | 0.00 | 0.00 | 0.0 | 0 | 0 | 0 |
| San Rafael | 0.000% | 17.05 | 469 | 0.00 | 0.00 | 0.0 | 0 | 0 | 0 |
| Sonoma | 0.000% | 17.05 | 469 | 0.00 | 0.00 | 0.0 | 0 | 0 | 0 |

100.0% 469

Total Sum of Miles 132 6,365 921

CALCULATIONS

Table E2: Baseline Peak Tonnage Day Trip Calculations

| Origin ¹ | % of Trips from Origin | Distance from MBARD boundary to Landfill ² | Total Average trips/day ³ | Avg Trips by Origin/day | Avg. Commercial Trips By Origin/day | Avg. Residential Trips By Origin/day | Avg. In County Commercial Round Trip Mileage/day | | Avg. Out of County Commercial Round Trip Mileage/day |
|-------------------------|---------------------------|---|---|-------------------------------|---|--|--|-------|--|
| SBCIWMR | 71.815% | 7.35 | 259 | 186.00 | 31 | 155 | 456 | 2,279 | 0 |
| Santa Clara - San Jose | 16.616% | 17.05 | 259 | 43.04 | 43.04 | 0.0 | 0 | 0 | 1,468 |
| Sant a Clara - Gilroy | 0.979% | 17.05 | 259 | 2.53 | 2.53 | 0.0 | 0 | 0 | 86 |
| Santa Clara - Undefined | 8.983% | 17.05 | 259 | 23.27 | 23.27 | 0.0 | 0 | 0 | 793 |
| Monterey County | 1.423% | 17.05 | 259 | 3.69 | 3.69 | 0.0 | 0 | 0 | 126 |
| Alameda | 0.090% | 17.05 | 259 | 0.23 | 0.23 | 0.0 | 0 | 0 | 8 |
| Santa Cruz | 0.039% | 17.05 | 259 | 0.10 | 0.10 | 0.0 | 0 | 0 | 3 |
| San Mateo | 0.022% | 17.05 | 259 | 0.06 | 0.06 | 0.0 | 0 | 0 | 2 |
| Sacramento | 0.016% | 17.05 | 259 | 0.04 | 0.04 | 0.0 | 0 | 0 | 1 |
| San Francisco | 0.008% | 17.05 | 259 | 0.02 | 0.02 | 0.0 | 0 | 0 | 1 |
| San Joaquin | 0.004% | 17.05 | 259 | 0.01 | 0.01 | 0.0 | 0 | 0 | 0 |
| Kern | 0.002% | 17.05 | 259 | 0.01 | 0.01 | 0.0 | 0 | 0 | 0 |
| San Rafael | 0.002% | 17.05 | 259 | 0.01 | 0.01 | 0.0 | 0 | 0 | 0 |
| Sonoma | 0.002% | 17.05 | 259 | 0.01 | 0.01 | 0.0 | 0 | 0 | 0 |

100.0% 259

Total Sum of Miles 456 2,279 2,489

CALCULATIONS

Table E3: Proposed Project Peak Traffic Day Trip Calculations

| Origin ¹ | % of Trips from Origin | Distance from MBARD boundary to Landfill ² | Total Average trips/day ³ | Avg Trips by Origin/day | Avg. Commercial Trips By Origin/day | Avg. Residential Trips By Origin/day | Avg. In County Commercial Round Trip Mileage/day | , | Avg. Out of County Commercial Round Trip Mileage/day |
|-------------------------|---------------------------|---|---|-------------------------------|---|--|--|-------|--|
| SBCIWMR | 95.118% | 6.88 | 578 | 549.78 | 11 | 539 | 153 | 7,407 | 0 |
| Santa Clara - San Jose | 2.878% | 16.58 | 578 | 16.64 | 16.64 | 0.0 | 0 | 0 | 552 |
| Sant a Clara - Gilroy | 0.170% | 16.58 | 578 | 0.98 | 0.98 | 0.0 | 0 | 0 | 32 |
| Santa Clara - Undefined | 1.556% | 16.58 | 578 | 8.99 | 8.99 | 0.0 | 0 | 0 | 298 |
| Monterey County | 0.246% | 16.58 | 578 | 1.42 | 1.42 | 0.0 | 0 | 0 | 47 |
| Alameda | 0.016% | 16.58 | 578 | 0.09 | 0.09 | 0.0 | 0 | 0 | 3 |
| Santa Cruz | 0.007% | 16.58 | 578 | 0.04 | 0.04 | 0.0 | 0 | 0 | 1 |
| San Mateo | 0.004% | 16.58 | 578 | 0.02 | 0.02 | 0.0 | 0 | 0 | 1 |
| Sacramento | 0.003% | 16.58 | 578 | 0.02 | 0.02 | 0.0 | 0 | 0 | 1 |
| San Francisco | 0.001% | 16.58 | 578 | 0.01 | 0.01 | 0.0 | 0 | 0 | 0 |
| San Joaquin | 0.001% | 16.58 | 578 | 0.00 | 0.00 | 0.0 | 0 | 0 | 0 |
| Kern | 0.000% | 16.58 | 578 | 0.00 | 0.00 | 0.0 | 0 | 0 | 0 |
| San Rafael | 0.000% | 16.58 | 578 | 0.00 | 0.00 | 0.0 | 0 | 0 | 0 |
| Sonoma | 0.000% | 16.58 | 578 | 0.00 | 0.00 | 0.0 | 0 | 0 | 0 |

100.0% 578

| Total Sum of Miles | 153 | 7,407 | 936 |
|---------------------------|-----|-------|-----|

CALCULATIONS

Table E4: Proposed Traffic Peak Tonnage Day Trip Calculations

| Origin ¹ | % of Trips from Origin | Distance from MBARD boundary to Landfill ² | Total Average trips/day ³ | Avg Trips by Origin/day | Avg. Commercial Trips By Origin/day | Avg. Residential Trips By Origin/day | Avg. In County Commercial Round Trip Mileage/day | - | Avg. Out of County Commercial Round Trip Mileage/day |
|-------------------------|---------------------------|---|--------------------------------------|-------------------------------|---|--|--|-------|--|
| SBCIWMR | 58.402% | 6.88 | 363 | 212.00 | 35 | 177 | 481 | 2,434 | 0 |
| Santa Clara - San Jose | 24.524% | 16.58 | 363 | 89.02 | 89.02 | 0.0 | 0 | 0 | 2,952 |
| Sant a Clara - Gilroy | 1.444% | 16.58 | 363 | 5.24 | 5.24 | 0.0 | 0 | 0 | 174 |
| Santa Clara - Undefined | 13.258% | 16.58 | 363 | 48.13 | 48.13 | 0.0 | 0 | 0 | 1,596 |
| Monterey County | 2.100% | 16.58 | 363 | 7.62 | 7.62 | 0.0 | 0 | 0 | 253 |
| Alameda | 0.133% | 16.58 | 363 | 0.48 | 0.48 | 0.0 | 0 | 0 | 16 |
| Santa Cruz | 0.058% | 16.58 | 363 | 0.21 | 0.21 | 0.0 | 0 | 0 | 7 |
| San Mateo | 0.032% | 16.58 | 363 | 0.12 | 0.12 | 0.0 | 0 | 0 | 4 |
| Sacramento | 0.023% | 16.58 | 363 | 0.08 | 0.08 | 0.0 | 0 | 0 | 3 |
| San Francisco | 0.012% | 16.58 | 363 | 0.04 | 0.04 | 0.0 | 0 | 0 | 1 |
| San Joaquin | 0.006% | 16.58 | 363 | 0.02 | 0.02 | 0.0 | 0 | 0 | 1 |
| Kern | 0.003% | 16.58 | 363 | 0.01 | 0.01 | 0.0 | 0 | 0 | 0 |
| San Rafael | 0.003% | 16.58 | 363 | 0.01 | 0.01 | 0.0 | 0 | 0 | 0 |
| Sonoma | 0.003% | 16.58 | 363 | 0.01 | 0.01 | 0.0 | 0 | 0 | 0 |

100.0% 363

| Total Sum of Miles | 481 | 2,434 | 5,007 |
|--------------------|-----|-------|-------|

Notes:

- 1. Trop origin percentage data obtained from Waste Solutions Group Data
- 2. Distance as measured from City centers (City Hall), and the geometric centers of the listed unincorporated Counties
- 3. Assuming current 4-yar average trips for 2016 though 2019 (including added drips of HHW events and employees).
- 4. The Average Increased Trips/Day is current Average Trips/day multiplied by the percent proposed trips increase
- 5. The percentage of vehicle types was obtained from Table 3 of the draft Project Description for 2016 to 2018.

John Smith Road Landfill ATTACHMENT L

Current On-Road Trips and Off-Road Operations Criteria Pollutant Emissions Calculations

Table L1 Total On-Road, Off Site - Waste Hauling Criteria Pollutants - Current Operation (Baseline Summary)

| | | | | Daily Total | | |
|------------------|---------------------|---------------------|------------------------------|-----------------------------|---------------------|-----------------------------|
| | Daily Total NOx | Daily Total ROG | Daily Total PM ₁₀ | PM _{2.5} Emissions | Daily Total CO | Daily Total SO ₂ |
| Emissions Source | Emissions (lbs/day) | Emissions (lbs/day) | Emissions (lbs/day) | (lbs/day) | Emissions (lbs/day) | Emissions (lbs/day) |
| Peak Traffic Day | 12.87 | 1.65 | 16.77 | 4.66 | 30.67 | 0.18 |
| Peak Tonnage Day | 23.22 | 0.95 | 25.07 | 6.59 | 14.48 | 0.15 |
| Difference | -10.35 | 0.69 | -8.29 | -1.93 | 16.19 | 0.03 |

Note: Waste Hauling includes both on-road and off-road trips to an on the landfill to deliver waste, waste delivery, visitors, employees, and HHW.

Table I.2. Total On-Site Operations Criteria Pollutants - Current Operation

| Emissions Source | Daily Total NOx Emissions (lbs/day) | Daily Total ROG Emissions (lbs/day) | Daily Total PM ₁₀ Emissions (lbs/day) | Daily Total PM _{2.5} Emissions | Daily Total CO Emissions (lbs/day) | |
|-----------------------------------|--|--|---|--|---------------------------------------|------|
| Off-Road Operations | 17.83 | 1.35 | 64.39 | 18.80 | 36.12 | 0.24 |
| On-Road Operations | 1.63 | 0.13 | 2.19 | 0.60 | 0.52 | 0.00 |
| On-Road/On Site Waste Delivery | 0.96 | 0.95 | 1.50 | 0.46 | 2.94 | 0.02 |
| Total Operations | 19.46 | 1.48 | 66.58 | 19.40 | 36.64 | 0.24 |

Note: Operations include equipment to cover waste and support site operations.

Table L3 Off-Road, On-Site Vehicles for Operations - Current (Baseline) - 2020

| | | Vehicle Pr | operties | | | | Operation I | Properties | | | | | | Emission Factors | and Calculations | ı | | | | |
|--------------------|---|---------------------------------------|--------------------|-----------------|-------------------|--------------------------|------------------------------------|-----------------------------------|--|------|---|---|--|--|---|---|---|--|---|--|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/Model/ Fuel ² | Model Year (motor) | HP ³ | Tier ⁴ | Load Factor ⁵ | Peak Hours per Day ⁶ | Days of Operation ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | _ | Emissions Factor ROG (g/bhp-hr) ⁷ | Emissions ROG (lbs/day) ⁹ | Emissions Factor PM10 (g/bhp- hr) ⁷ | Emissions PM10 (lbs/day) ⁹ | Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Emissions PM2.5 (lbs/day) ⁹ | Emissions Factor CO (g/bhp-hr) ¹¹ | Emissions CO (lbs/day) ⁹ | Emissions Factor SO ₂ (g/bhp-hr) ¹¹ | Emissions SO (lbs/day) ⁹ |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D6T LGP | 2015 | 255 | 4 (Final) | 0.43 | 8 | 6 | 0.260 | 0.50 | 0.050 | 0.10 | 0.009 | 0.02 | 0.195 | 0.38 | 2.845 | 5.50 | 0.005 | 0.01 |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D8T Diesel | 2015 | 310 | 4 (Final) | 0.43 | 8 | 6 | 0.260 | 0.61 | 0.050 | 0.12 | 0.009 | 0.02 | 0.195 | 0.46 | 2.845 | 6.69 | 0.005 | 0.01 |
| Dozer (Support) | Crawler Tractors | Caterpillar D6R Diesel | 2007 | 200 | 2 | 0.43 | 0 | 6 | 4.150 | 0.00 | 0.110 | 0.00 | 0.088 | 0.00 | 0.371 | 0.00 | 2.557 | 0.00 | 0.005 | 0.00 |
| Grader | Graders | Caterpillar 140G Diesel | NA | 150 | 2 | 0.41 | 2 | 6 | 7.600 | 2.06 | 0.620 | 0.17 | 0.274 | 0.07 | 0.274 | 0.07 | 0.274 | 0.07 | 0.005 | 0.00 |
| Loader | Rubber Tired Loaders | Caterpillar 938M Diesel | 2015 | 182 | 4 (Final) | 0.36 | 2 | 6 | 12.090 | 3.49 | 1.310 | 0.38 | 0.605 | 0.17 | 0.169 | 0.05 | 1.480 | 0.43 | 0.057 | 0.02 |
| Compactor | Rollers | Caterpillar 826K Diesel | 2015 | 426 | 4 (Final) | 0.38 | 8 | 6 | 0.260 | 0.74 | 0.050 | 0.14 | 0.009 | 0.03 | 0.179 | 0.51 | 3.245 | 9.27 | 0.005 | 0.01 |
| Backhoe | Tractors/Loaders/Backhoos | Caterpillar 426C Diesel | 2000 | 81.8 | 2 | 0.37 | 4 | 6 | 4.750 | 1.27 | 0.170 | 0.05 | 0.192 | 0.05 | 0.143 | 0.04 | 1.374 | 0.37 | 0.005 | 0.00 |
| Excavator | Excavators | John Deere 350 Diesel | 2001 | 283 | 4 (Final) | 0.38 | 6 | 6 | 0.260 | 0.37 | 0.050 | 0.07 | 0.009 | 0.01 | 0.362 | 0.51 | 3.974 | 5.65 | 0.050 | 0.07 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2004 | 380 | 3 | 0.38 | 6 | 6 | 2.320 | 4.43 | 0.090 | 0.17 | 0.008 | 0.02 | 0.260 | 0.50 | 2.332 | 4.45 | 0.050 | 0.10 |
| Fruck Tipper | Other Construction Equipment | Columbia | 2015 | 156 | 2 | 0.42 | 6 | 6 | 4.150 | 3.60 | 0.150 | 0.13 | 0.128 | 0.11 | 0.150 | 0.13 | 2.407 | 2.09 | 0.005 | 0.00 |
| | Other Construction | | | | | | | | | | | | | | | | | | | |

On-Road Emissions - Equation for Tables L4 and L5

Sum of NOx Daily emissions by pollutant (lb/day) = (emission factor (grams/miles) + deterioration product (grams/mi) (not applicable)) × daily activity (miles/day) × percentage & ROG, operation in California (100%) + 453.59 (grams/lb)

lb/day 14.51 24.17

Off-Road Emissions Equation for Table L

Daily emissions by pollutant (lb/day) = (emission factor (grams/brake hp-hour) + deterioration product (grams/brake hp-hour) (not applicable)) \times horsepower (hp) \times load factor \times daily activity (hours/day) \times percentage operation in California (100%) \div 453.59 grams/lb

ATTACHMENT L

Current On-Road Trips and Off-Road Operations Criteria Pollutant Emissions Calculations

Table 1.4 On-Road, Off Site Vehicles from MBARD Boundary to Entrance Baseline Peak Traffic Day - 2020 (Per MBARD CEQA Guidance Use Summer Emissions Factors for ROG & NOX, and Winter Values for CO, all others use Annual Average)

| Site Properties | | | | | | | | | | | | | Emission Factors | s and Calculations | | | | | | | | | |
|------------------------------------|---|---|--------------------------|--|--|--|---|---|----------|--|---|---|------------------|--------------------|---|---|--|---|---|---|--|--|---|
| On-Road Vehicles | Vehicle Category | Peak Daily Mileage from Origin to Landfill | Load Factor ⁵ | Emissions Factor NOx (g/mile) ¹⁰ | Emissions NOx(lbs/day) ⁸ | Emissions Factor ROG (g/mile) ¹⁰ | Emissions ROG (lbs/day) ⁸ | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | | Tire Wear D Emissions Factor PM10 (g/mile) ¹⁰ | Tire Wear Emissions PM10 (lbs/day) ⁸ | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | | | Exhaust Emissions PM2.5 (lbs/day) ⁸ | Tire Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Tire Wear Emissions PM2.5 (lbs/day) ⁸ | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Brake Emissions PM2.5 (lbs/day) ⁸ | Emissions Factor CO (g/mile) ¹⁰ | Emissions CO (lbs/day) ⁸ | Emissions Factor SOx (g/mile) ¹⁰ | Emissions SOx (lbs/day) ⁸ |
| In-County Self Haul/Residential 12 | Light/Heavy Duty Trucks (LHD1 - Gas) | 6,365 | 1 | 0.377 | 5.3 | 0.106 | 1.48E+00 | 0.003 | 4.07E-02 | 0.008 | 1.12E-01 | 0.089 | 1.25E+00 | 0.003 | 3.78E-02 | 0.002 | 2.81E-02 | 0.033 | 4.60E-01 | 1.928 | 2.71E+01 | 0.010 | 1.44E-01 |
| In-County Commercial 74% Diesel | T7-SWCV (Dsl) | 98 | 1 | 5.439 | 1.2 | 0.019 | 4.14E-03 | 0.115 | 2.49E-02 | 0.036 | 7.77E-03 | 0.062 | 1.33E-02 | 0.021 | 4.46E-03 | 0.009 | 1.94E-03 | 0.026 | 5.71E-03 | 0.058 | 1.26E-02 | 0.035 | 7.51E-03 |
| In-County Commercial 26% CNG | T7-SWCV (NG) | 118 | 1 | 0.301 | 0.1 | 0.043 | 1.13E-02 | 0.003 | 7.21E-04 | 0.036 | 9.40E-03 | 0.062 | 1.61E-02 | 0.003 | 6.89E-04 | 0.009 | 2.35E-03 | 0.026 | 6.91E-03 | 11.219 | 2.93E+00 | 0.000 | 0.00E+00 |
| Out of County Commercial 12, 13 | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 921 | 1 | 3.115 | 6.3 | 0.072 | 1.46E-01 | 0.050 | 1.02E-01 | 0.036 | 7.31E-02 | 0.062 | 1.25E-01 | 0.021 | 4.19E-02 | 0.009 | 1.83E-02 | 0.026 | 5.37E-02 | 0.331 | 6.72E-01 | 0.013 | 2.69E-02 |
| TOTALS | | | | | 12.869 | | 1.646 | | 0.169 | | 0.203 | | 1.406 | | 0.085 | | 0.051 | | 0.526 | | 30.666 | | 0.179 |

Note: STREX, HTSK, REST, and DIURN were not calculated as vehicle starting, and resting occurs outside of the MBARD District. All RUNL values were zero in the EMFAC 2017 Output for all vehicle types. IDLEX is modeled in Appendix P.

Table L5 On-Road - Off Site Vehicles from MBARD Boundary to Entrance Baseline Peak Tonnage Day - 2020 (Per MBARD CEQA Guidance Use Summer Emissions Factors for ROG & NOX, and Winter Values for CO, all others use Annual Average)

| | Site Prop | erties | | | | | | | | | | | Emission Factors | and Calculations | | | | | | | | | |
|------------------------------------|---|---|--------------------------|--|--|--|---|--|---|--|---|---|------------------|------------------|---|---|--|---|---|---|--|--|---|
| On-Road Vehicles | Vehicle Category | Peak Daily Mileage from Origin to Landfill | Load Factor ⁵ | Emissions Factor NOx (g/mile) ¹⁰ | Emissions NOx(lbs/day) ⁸ | Emissions Factor ROG (g/mile) ¹⁰ | Emissions ROG (lbs/day) ⁸ | Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Tire Wear Emissions PM10 (lbs/day) ⁸ | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | | | Exhaust Emissions PM2.5 (lbs/day) ⁸ | Tire Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Tire Wear Emissions PM2.5 (lbs/day) ⁸ | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Brake Emissions PM2.5 (lbs/day) ⁸ | Emissions Factor CO (g/mile) ¹⁰ | Emissions CO (lbs/day) ⁸ | Emissions Factor SOx (g/mile) ¹⁰ | Emissions SOx (lbs/day) ⁸ |
| In-County Self Haul/Residential 12 | Light/Heavy Duty Trucks (LHD-1 - Gas) | 2,279 | 1 | 0.377 | 1.9 | 0.106 | 5.31E-01 | 0.003 | 1.46E-02 | 0.008 | 4.02E-02 | 0.089 | 4.48E-01 | 0.003 | 1.35E-02 | 0.002 | 1.00E-02 | 0.033 | 1.65E-01 | 1.928 | 9.68E+00 | 0.010 | 5.17E-02 |
| In-County Commercial 74% Diesel | T7-SWCV (Dsl) | 346 | 1 | 5.439 | 4.2 | 0.019 | 1.46E-02 | 0.115 | 8.80E-02 | 0.036 | 2.75E-02 | 0.062 | 4.71E-02 | 0.021 | 1.58E-02 | 0.009 | 6.87E-03 | 0.026 | 2.02E-02 | 0.058 | 4.46E-02 | 0.035 | 2.66E-02 |
| In-County Commercial 26% CNG | T7-SWCV (NG) | 118 | 1 | 0.301 | 0.1 | 0.043 | 1.13E-02 | 0.003 | 7.21E-04 | 0.036 | 9.40E-03 | 0.062 | 1.61E-02 | 0.003 | 6.89E-04 | 0.009 | 2.35E-03 | 0.026 | 6.91E-03 | 11.219 | 2.93E+00 | 0.000 | 0.00E+00 |
| Out of County Commercial 12, 13 | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 2,489 | 1 | 3.115 | 17.1 | 0.072 | 3.95E-01 | 0.050 | 2.77E-01 | 0.036 | 1.98E-01 | 0.062 | 3.39E-01 | 0.021 | 1.13E-01 | 0.009 | 4.94E-02 | 0.026 | 5.37E-02 | 0.331 | 1.82E+00 | 0.013 | 7.28E-02 |
| TOTALS | | | | | 23.222 | | 0.952 | | 0.380 | | 0.275 | | 0.850 | | 0.143 | | 0.069 | | 0.245 | | 14.475 | | 0.151 |

Note: STREX, HTSK, REST, and DIURN were not calculated as vehicle starting, and resting occurs outside of the MBARD District. All RUNL values were zero in the EMFAC 2017 Output for all vehicle types. IDLEX is modeled in Appendix P.

| Table Lo On-Road, On-Site | | , , | | | Assumes 1.53 miles | \ 1 | 8 | | | | | | | | | | | | | | | | |
|------------------------------------|---|----------------------------|--------------------------|--|--|--|---|--|---|--|----------|---|------------------|---|---|---|--|---|---|---|--|--|---|
| | Site Prop | perties | | | | | | | | | | | Emission Factors | and Calculations | | | | | | | | | |
| On-Road Vehicles | Vehicle Category | Peak Daily Mileage On-Site | Load Factor ⁵ | Emissions Factor NOx (g/mile) ¹⁰ | Emissions NOx(lbs/day) ⁸ | Emissions Factor ROG (g/mile) ¹⁰ | Emissions ROG (lbs/day) ⁸ | Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | Exhaust Emissions PM2.5 (lbs/day) ⁸ | Tire Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Tire Wear Emissions PM2.5 (lbs/day) ⁸ | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Brake Emissions PM2.5 (lbs/day) ⁸ | Emissions Factor CO (g/mile) ¹⁰ | Emissions CO (lbs/day) ⁸ | Emissions Factor SOx (g/mile) ¹⁰ | Emissions SOx (lbs/day) ⁸ |
| In-County Self Haul/Residential 12 | Light/Heavy Duty Trucks (LHD-1 - Gas) | 662 | 1 | 0.377 | 0.6 | 0.106 | 1.54E-01 | 0.003 | 4.23E-03 | 0.008 | 1.17E-02 | 0.089 | 1.30E-01 | 0.003 | 3.93E-03 | 0.002 | 2.92E-03 | 0.033 | 4.78E-02 | 1.928 | 2.82E+00 | 0.010 | 1.50E-02 |
| In-County Commercial 74% Diesel | T7-SWCV (Dsl) | 10 | 1 | 5.439 | 0.1 | 0.019 | 4.31E-04 | 0.115 | 2.59E-03 | 0.036 | 8.09E-04 | 0.062 | 1.39E-03 | 0.021 | 4.64E-04 | 0.009 | 2.02E-04 | 0.026 | 5.94E-04 | 0.058 | 1.31E-03 | 0.035 | 7.82E-04 |
| In-County Commercial 26% CNG | T7-SWCV (NG) | 4 | 1 | 0.301 | 0.0 | 0.043 | 3.43E-04 | 0.003 | 2.18E-05 | 0.036 | 2.84E-04 | 0.062 | 4.87E-04 | 0.003 | 2.08E-05 | 0.009 | 7.10E-05 | 0.026 | 2.09E-04 | 11.219 | 8.86E-02 | 0.000 | 0.00E+00 |
| Out of County Commercial 12 | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 41 | 1 | 3.115 | 0.3 | 0.072 | 6.55E-03 | 0.050 | 4.59E-03 | 0.036 | 3.28E-03 | 0.062 | 5.62E-03 | 0.021 | 1.88E-03 | 0.009 | 8.20E-04 | 0.026 | 5.37E-02 | 0.331 | 3.02E-02 | 0.013 | 1.21E-03 |
| TOTALS | | - | | | 0.959 | | 0.162 | | 0.011 | | 0.016 | | 0.138 | | 0.006 | | 0.004 | | 0.102 | | 2.935 | | 0.017 |

ATTACHMENT L

Current On-Road Trips and Off-Road Operations Criteria Pollutant Emissions Calculations

Table L5 On-Road, On Site Vehicles for Operations Baseline - 2020

| Table E3 Oll-Road, Oll Site v | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------------|----------------------------|--------------------------|--|--|--|---|--|---|--|---|---|------------------|---|-------|---|--|---|---|---|--|--|---|
| | Vehicle Properties | | | | | | | | | | | | Emission Factors | and Calculations | | | | | | | | | |
| On-Road Vehicles | Vehicle Category | Peak Daily Mileage On-Site | Load Factor ⁵ | Emissions Factor NOx (g/mile) ¹⁰ | Emissions NOx(lbs/day) ⁸ | Emissions Factor ROG (g/mile) ¹⁰ | Emissions ROG (lbs/day) ⁸ | Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions PM10 (lbs/day) ⁸ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Tire Wear Emissions PM10 (lbs/day) ⁸ | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | PM2.5 | Tire Wear Emissions Factor 1 PM2.5 (g/mile) ¹⁰ | Tire Wear Emissions PM2.5 (lbs/day) ⁸ | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Brake Emissions PM2.5 (lbs/day) ⁸ | Emissions Factor CO (g/mile) ¹⁰ | Emissions CO (lbs/day) ⁸ | Emissions Factor SOx (g/mile) ¹⁰ | Emissions SOx (lbs/day) ⁸ |
| Ford Mechanic Truck (DSL) 2006 | LHD1 | 20 | 1 | 5.58 | 0.25 | 0.266 | 1.17E-02 | 0.057 | 3E-03 | 0.012 | 5E-04 | 0.076 | 3E-03 | 0.054 | 2E-03 | 0.003 | 1E-04 | 0.033 | 1E-03 | 1.389 | 6E-02 | 0.006 | 2E-04 |
| Fuel Truck (DSL) 2009 | LHD2 | 10 | 1 | 2.92 | 0.06 | 0.175 | 3.85E-03 | 0.038 | 8E-04 | 0.012 | 3E-04 | 0.089 | 2E-03 | 0.036 | 8E-04 | 0.003 | 7E-05 | 0.038 | 8E-04 | 1.003 | 2E-02 | 0.006 | 1E-04 |
| Roll-Off Truck (DSL) 2000 | T7 CAIRP | 0 | 1 | 25.09 | 0.00 | 1.748 | 0.00E+00 | 0.473 | 0E+00 | 0.036 | 0E+00 | 0.062 | 0E+00 | 0.452 | 0E+00 | 0.009 | 0E+00 | 0.026 | 0E+00 | 3.602 | 0E+00 | 0.016 | 0E+00 |
| Water Truck DSL 2006 | T7 CAIRP | 50 | 1 | 11.97 | 1.32 | 1.080 | 1.19E-01 | 0.725 | 8E-02 | 0.036 | 4E-03 | 0.062 | 7E-03 | 0.693 | 8E-02 | 0.009 | 1E-03 | 0.026 | 3E-03 | 3.933 | 4E-01 | 0.015 | 2E-03 |
| TOTALS | | 80 | | | 1.630 | | 0.135 | | 0.083 | | 0.005 | | 0.012 | | 0.080 | | 0.001 | | 0.005 | | 0.517 | | 0.002 |

Note: The values for STREX, HTSK, REST, DIURN, RUNL were all zero in the EMFAC2017 output and were not analyzed.

Sources: CARB, 2017. California Air Resources Board, The Carl Moyer Program Guidelines, 2017 Revisions, Appendix D - Tables for Emissions Reduction and Cost Effectiveness Calculations, Tables D-7 to D-9 for Off-Road Diesel and Non-Mobile Agricultural (Ag) Projects L&A, 2021. Lawrence & Associates, July 2021, Design Basis Report, John Smith Road Landfill Expansion.

CAPCOA, 2017. California Air Pollution Control Officers Association (CAPCOA), version 2017, California Emissions Estimator Model (CaIEE MOD), Appendix D, Default Data Tables

- titions:

 1 Vehicles that best represent items listed in Table D-7 of CARB, 2017.

 2 Vehicles and equipment as listed in Table 26 of L&A, 2021.

 3 Vehicles borsepower as listed in Table 26 of L&A, 2021.

 4 Vehicle tier as listed in Table 26 of L&A, 2021.

 5 Load Factor as listed in Table D-7 of CARB, 2017.

 6 The average working hours from Table 26 if L&A, 2021.

 7 Emission factors obtained from Table D-8 of CARB, 2017.

 8 Referenced equation above was used to calculate emissions as listed in CARB, 2017, Appendix C (Cost-Effectiveness Calculation Methodology).

 9 Referenced equation above was used to calculate emissions as listed in CARB, 2017, Appendix C (Cost-Effectiveness Calculation Methodology).

 10 Values obtained form EMFAC2017 (V.10.2) Emission Rates for San Benito County.

 11 CAPCOA, 2020 Table 3.4 based on Model year rounded to the nearest 5-year increment. Note that Table 3.4 provides emission factors based on a mixture of emissions for PM2.5, CO, and SO2, and is not as precise as the Carl Moyer values for NOx, ROG, PM10.

 13 Values obtained form EMFAC2017 (V.10.2) Emission for CO use Winter EMFA2017

ATTACHMENT L

Current On-Road Trips and Off-Road Operations Criteria Pollutant Emissions Calculations

Table L7 - On Road, Off-Site, Fugitive Road Dust - Baseline Peak Trip Day Option for Waste Delivery

| | Paved Day Out of County Haul Truck | In County Commercial | In County Self Haul | Paved Road Const. | | Unpaved Day Out of County Haul Truck | | In County Solf | Control | | Unpaved Road PM25 Emissions | | |
|----------|---------------------------------------|-----------------------|-----------------------|-------------------|---|---|-----------------------|----------------------------|-------------------------|---------------------------------------|--------------------------------|---|--|
| Activity | Distance ¹ | Distance ¹ | Distance ¹ | | Paved Road PM _{2.5} Emissions per Day | | Distance ² | Haul Distance ² | Efficiency ³ | PM ₁₀ Emissions per day | | Total Daily Emissions PM ₁₀ | Total Daily Emissions PM _{2.5} |
| | (VMT/Day) | (VMT/Day) | (VMT/Day) | Pounds | Pounds | (VMT/Day) | (VMT/Day) | (VMT/Day) | % | Pounds | Pounds | (lb/day) | (lb/day) |
| Totals | 921 | 216 | 6,365 | 16.27 | 3.99 | 0.00 | 0.00 | 0.00 | 75% | 0.00 | 0.00 | 16.27 | 3.99 |

- Assume peak Out of County, In County Commercial, and In County Self Haul from peak-trip day mileage from Attachment K
 Assume peak Out of County, In County Commercial, and In County Self Haul from peak-trip day trips from Attachment K x 2 miles per trip
- 3 Assume graveled road with no dust palliative and some watering

| 1 | able L8 - On-Road, On Site | Fugitive Road Dust - | Baseline Peak Trip Day Op | otion for Waste Delive | ry | Paved: | 0.45 | Unpaved: | 0.76 | | | | | |
|---|----------------------------|--|---|------------------------|--------|--------|--|-----------------|--|------------------------------------|---|--------|---|--|
| A | ctivity | Paved Day Out of County Haul Truck Distance ¹ | In County Commercial Distance ¹ | | | | Unpaved Day Out of County Haul Truck Distance ² | Support Vehicle | In County Self Haul Distance ² | Control Efficiency ³ | Unpaved Road PM ₁₀ Emissions per day | | Total Daily Emissions PM ₁₀ | Total Daily Emissions PM _{2.5} |
| | - | (VMT/Day) | (VMT/Day) | (VMT/Day) | Pounds | Pounds | (VMT/Day) | (VMT/Day) | (VMT/Day) | % | Pounds | Pounds | (lb/day) | (lb/day) |
| T | otals | 12 | 4 | 433 | 5.55 | 0.16 | 20.52 | 6.84 | 329.08 | 75% | 35.18 | 3.51 | 40.74 | 3.67 |

- 1 Assume peak Out of County, In County Commercial, and In County Self Haul from peak-trip day mileage from Attachment K
- 2 Assume peak Out of County, In County Commercial, and In County Self Haul from peak-trip day trips from Attachment K x 2 miles per trip 3 Assume graveled road with no dust palliative and some watering

Table L9 - On-Road, Off Site Fugitive Road Dust - Baseline Peak Tonnage Day Option for Waste Delivery (selected for analysis as the highest PM 10 option)

| Tubic Es on Houa, or | | Buseine rean ronninge Bu | <i>y</i> - 1 | | | 8 | · , | | | | | | |
|----------------------|-----------------------|--------------------------|-----------------------|--------------------------------|------------------------------|-----------------------|-----------------------|----------------------------|-------------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|
| | Paved Day Out of | | | Paved Road Const. | | Paved Day Out of | Unpayed Day | | | Unpaved Road | Unpaved Road | | |
| | | | | | | | | | | | | | |
| | County Haul Truck | In County Commercial | In County Self Haul | PM ₁₀ Emissions per | Paved Road PM _{2.5} | County Haul Truck | Support Vehicle | In County Self | Control | PM ₁₀ Emissions | PM _{2.5} Emissions | Total Daily | Total Daily |
| Activity | Distance ¹ | Distance ¹ | Distance ¹ | Day | Emissions per Day | Distance ² | Distance ² | Haul Distance ² | Efficiency ³ | per day | per yr | Emissions PM ₁₀ | Emissions PM _{2.5} |
| | (VMT/Day) | (VMT/Day) | (VMT/Day) | Pounds | Pounds | (VMT/Day) | (VMT/Day) | (VMT/Day) | % | Pounds | Pounds | (lb/day) | (lb/day) |
| Totals | 2,489 | 465 | 2,279 | 24.97 | 6.13 | 0.00 | 0.00 | 0.00 | 75% | 0.00 | 0.00 | 24.97 | 6.13 |

- tes:

 1 Assume peak Out of County, In County Commercial, and In County Self Haul from peak-tonnage day mileage from Attachment K

 2 Assume peak Out of County, In County Commercial, and In County Self Haul from peak-tonnage day trips from Attachment K x 2 miles per trip
- 3 Assume graveled road with no dust palliative and some watering

Table L10 - On-Road, On-Site Fugitive Dust - Support Vehicles Baseline Operations On Site

| Activity | Paved Day Large Haul Truck Distance | Paved Day Support Vehicle Distance ¹ | | Paved Road PM _{2.5} Emissions per Day | | | Control Efficiency ⁵ | | Unpaved Road PM _{2.5} Emissions | 1 Otal Dally | Total Daily Emissions PM ₂₅ |
|----------|--|--|--------|---|-----------|-----------|---------------------------------|--------|---|--------------|---|
| | (VMT/Day) | (VMT/Day) | Pounds | Pounds | (VMT/Day) | (VMT/Day) | % | Pounds | Pounds | (lb/day) | (lb/day) |
| Totals | 0.00 | 40.00 | 2.09 | 0.51 | 5.30 | 40.00 | 75% | 23.40 | 9.29 | 23.91 | 9.80 |

- 1 Assume 50% of the mileage is on road
 2 Assume 140 CY/day for 20 cy/ load struck = 7 loads at 4,000 feet round trip
- 2 Assume 50% of the mileage is off road
 4 Assume graveled road with no dust palliative and some watering
 5 Does not apply to tracked equipment that does not drive on roads

Emission factors for Paved Surfaces on Public Roads

From CalEEMod 2016-3-2 User's Guide $Eext = [k(sL)^{0.91}(W)^{1.02}]x (1 - \frac{P}{4N})$

- Where:

 Ep = particulate matter factor (having units matching the units of K)

 k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.1-1

 sL = road surface silt loading (g/m2)

 W = Average weight (tons) of the vehicles traveling the road

 P = number of wet days with at least 0.01 inch or precipitation during the averaging period

 N = number of averaging days for period

 Assume (1-P/4N) = 1 for a dry day

| When: | Out of County Units | In County Commercial Units | In County Self | Source |
|------------------------------|---------------------|----------------------------|----------------|--|
| k _{2.5} = | 0.00054 lb/VMT | 0.00054 lb/VMT | 0.00054 lb/VMT | AP-42 Table 13.2.1-1 |
| $k_{10} =$ | 0.0022 lb/VMT | 0.0022 lb/VMT | 0.0022 lb/VMT | AP-42 Table 13.2.1-1 |
| On Site sL = | 1.1 g/m2 | 1.1 g/m2 | 1.1 g/m2 | AP-42 Table 13.2.1-2, = 0.1 or high ADT road (>5000 tpd or 3.5 t/min) and 0.4 for low ADT road |
| Off Site $sL =$ | 0.1 g/m2 | 0.1 | 0.1 | |
| W = | 27.00 tons | 20.5 tons | 4.4 tons | Table O2 |
| On Site P = | 1.00 days | 1.00 days | 1.00 days | Assume Dry |
| On Site N = | 1 days | 1 days | 1 days | Assume Watered Surface |
| Then: | | | | |
| On Site Ep _{2.5} = | 0.001 lb/VMT | 0.013 lb/VMT | 0.003 lb/VMT | |
| On Site Ep ₁₀ = | 0.052 lb/VMT | 0.052 lb/VMT | 0.011 lb/VMT | |
| Off Site Ep _{2.5} = | 0.002 lb/VMT | 0.001 lb/VMT | 0.000 lb/VMT | Use Off Site -High Frequency Roadway to simulate street sweeping |
| Off Site Ep ₁₀ = | 0.008 lb/VMT | 0.006 lb/VMT | 0.001 lb/VMT | |
| | | | | |

Table L11 - Table O2 Peak Traffic Day Vehicle Weight Assumptions (assumes full load in and empty out)

| Table Lii - Table Oz i ca | K ITAINC Day Venicie We | ignt Assumptions (assumes | Tun ioau in and empty | (Out) | |
|---------------------------|-------------------------|---------------------------|-----------------------|-------------|---------|
| Category | Type | GVW, lb | NVW, lb | Average, lb | Av Tons |
| Self-Haul Residential | Ford F250 Gross Weight | 9,900 | 7,700 | 8,800 | 4.4 |
| In County Commercial | Garbage Truck | 51,000 | 31,000 | 41,000 | 20.5 |
| Out of County Commercial | Transfer Truck | 75,000 | 33,000 | 54,000 | 27 |

GVW: Gross vehicle weight including load

NVWL Net vehicle weight or :"curb weight" without load

ATTACHMENT L

Current On-Road Trips and Off-Road Operations Criteria Pollutant Emissions Calculations

Unpaved Public Roads Emission Factor From CalEEMod 2016-3-2 User's Guide

Equation from CalEEMod Appendix A, page 28

0.15 0.56793529 0.707106781 0.707106781 1.430969081 0.060238634 0.042096391 0.00036 0.041736391

Per AP-42 Table 13.2.2-2 for public roads

Site speed limit

Per AP-42 Table 13.2.2-4

Per Ar-42 Table 13.2.2-2 for public roads
Per AP-42 Table 13.2.2-1 for public roads
Per AP-42 Table 13.2.2-1 for landfills, mean of graveled roads

Site speed limit
Assuming 25% of 12% maximum moisture content
Per AP-42 Table 13.2.2-4

EF Dust = $[((k * (s/12)^a * (S/30)^b) / (M/0.5)^c)$ -C] * (1-P/365)

Where:

EF = size-specific emission factor (lb/VMT) for unpaved surface

k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2

a = Constant from AP-42 for public or industrial road

b = Constant from AP-42 for public or industrial road

c = Constant from AP-42 for public or industrial road

s = surface material silt content (%)

S = mean vehicle speed (mph)
M = surface material moisture (%)

The state of the s

Assume (1-P/365) = 1 for a dry day

| When: | Out of County Units | In County Commercial Units | In County Self Units |
|--------------------|------------------------------|----------------------------|----------------------|
| k _{2.5} = | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT |
| $k_{10} =$ | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT |
| a = | 1 Constant for public road | | |
| b = | 0.5 Constant for public road | | |
| c = | 0.2 Constant for public road | | |
| $_{S} =$ | 6.4 % | 6.4 % | 6.4 % |
| S = | 15 mph | 15 tons | 15.0 tons |
| M = | 3 % | 3 | 3 |
| C _{2.5} = | 0.00036 lb/VMT | 0.00036 lb/VMT | 0.00036 lb/VMT |
| $C_{10} =$ | 0.00047 lb/VMT | 0.00047 lb/VMT | 0.00047 lb/VMT |
| Then: | | | |
| Eup2.5 = | 0.043 lb/VMT | 0.039 lb/VMT | 0.039 lb/VMT |
| $E_{UP}10 =$ | 0.395 lb/VMT | 0.395 lb/VMT | 0.395 lb/VMT |

Unpaved Road Emission Factor For Industrial Roads
Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2

 $E = k * (s/12)^a * (W/3)^b$

where:

Eup = size-specific emission factor (lb/VMT) for unpaved surface

k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2

s = surface material silt content (%)

W = mean vehicle weight (tons)

a = industrial road constant from AP-42, Table 13.2.2-2 b = industrial road constant from AP-42, Table 13.2.2-2

| When: | Haul Units | Support Units | Small Units | Source |
|--------------------|--------------|---------------|--------------|--|
| k _{2.5} = | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| $k_{10} =$ | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| s = | 6.4 % | 6.4 % | 6.4 % | Per AP-42 Table 13.2.2-1 for landfills, mean or graveled roads |
| W = | 48.8 tons | 18.8 tons | 4.4 tons | Table O2 |
| a = | 0.9 | 0.9 | 0.9 | Per AP-42 Table 13.2.2-2 for industrial roads |
| b = | 0.45 | 0.45 | 0.45 | Per AP-42 Table 13.2.2-2 for industrial roads |
| Then: | | | | |
| Fup2 5 = | 0.299 lb/VMT | 0.194 lb/VMT | 0.101 lb/VMT | |

1.012 lb/VMT

Table L12 - Operations Average Vehicle Weight Assumptions (assumes full load in and empty out)

| Category | Type | Percent | GVW, lb | NVW, lb | Average, lb | Av Tons |
|--------------------|---------------------------|---------|---------|---------|-------------|---------|
| Small Vehicle | Ford F250 Gross Weight | | 9,900 | 7,700 | 8,800 | 4.4 |
| Commercial Vehicle | | | | | | |
| | Ford Mechanic Truck | | | | | |
| Average of: | (DSL) 2006 | 25% | 14,000 | 8,600 | 11,300 | 5.65 |
| | Fuel Truck (DSL) 2009 | 13% | 63,000 | 29,500 | 46,250 | 23.13 |
| | Roll-Off Truck (DSL) 2000 | 0% | 63,000 | 29,500 | 46,250 | 23.13 |
| | Water Truck DSL 2006 | 63% | 63,000 | 29,500 | 46,250 | 23.13 |
| | Weighted Average: | | | | | 18.8 |
| Off Road Dump | John Deer 350G | | 133,379 | 61,730 | 97,555 | 48.8 |

GVW: Gross vehicle weight including load NVWL Net vehicle weight or :"curb weight" without load

Grading Equipment Passes CalEEMod 2020.4.0, Appendix A Page 8

 $EF_{PM15} = 0.051 \text{ x (S)}^{2.0}$, and $EF_{PM10} = EF_{PM15} \text{ x } F_{PM10}$

EF_{TSP} - 0.4 x (S)^{2.5}, and EF $_{PM2.5}$ = EF_{TSP} x $_{PM2.5}$

Where : EF = emissions factor (lb/VMT) Typical grading areas Acres per day S = mean vehicle speed (mph) $F_{PM2.5} = PM_{2.5}$ scaling factor. $F_{PM10} = PM_{10}$ scaling factor. AP-42 Default = AP-42 Default = 7.1 0.03 Crawler Tractors (Dozer) Graders AP-42 Default = Scrapers

28.4 Grader 2 hr/day, Loader 2hr/day 0.12 Grader 2 hr/day, Loader 2hr/day 1.543 lb/VMT EFPM10 = EFPM2.5 =

ATTACHMENT L

Current On-Road Trips and Off-Road Operations Criteria Pollutant Emissions Calculations

```
Bulldozers CalEEMod
                                                                                                                          CalEEMod 2020.4.0, Appendix A Page 8
                                                                     EF_{PM15} = \left(C_{PM15} \ x \ s^{1.5}\right) / \ M^{1.4} \ \ , and EF_{PM10} = EF_{PM15} \ x \ F_{PM10}
                                                                      EF_{TSP} - (C _{TSP} x s ^{1.2} )/ M^{1.3} , and EF _{PM2.5} = EF_{TSP} x F_{PM2.5}
                                                  \label{eq:where:bound} \begin{split} Where: & EF = \text{ emissions factor (lb/hr)} \\ & C = \text{ Coefficient used by AP-42} \\ & s = \text{ Material silt content (%)} \\ & M = \text{ Material moisture content (%)} \\ & F_{PM2.5} = PM_{2.5} \text{ scaling factor.} \qquad AP-42 \text{ default is } 0.031 \\ & F_{PM10} = PM_{10} \text{ scaling factor.} \qquad AP-42 \text{ default is } 0.6 \end{split}
                                                                                                                                                                                          Per AP-42 defaults for Overburden
                                                                                                                                                                                                                              \begin{aligned} &C_{TSP} = 5.7 \\ &s = 6.90 \\ &M = 7.90 \\ &F_{PM2.5} = 0.105 \\ &F_{PM10} = 0.75 \end{aligned}
                                                                                                                                                                                                                                                                                                               C_{PM15} = 1
                                                  \begin{aligned} & \mathrm{EF_{PM10}} = \\ & \mathrm{EF_{PM2.5}} = \end{aligned}
                                                                                                                                                                                                                                                                          12.04 2 dozers from above
6.62 2 dozer from above
                                                                                                             0.753 lb/hr x hr/day
0.414 lb/hr x hr/day
                                                                                                                    2 lb/hr x hours =
                          Hours of Operation =
                                 Truck Loading
EF_D = k \times (0.0032) \times ((U/5)^{1.3} / (M/2)^{1.4})
                                                   Where:

EF = emissions factor (lb/ton)

k = Particle size multiplier

U = mean wind speed (mph)

M = Material moisture content
                                                                                                                                                                                           Per AP-42 defaults for Overburden
                                                                                                                                                                                                                                PM_{10} = 0.35
                                                                                                                                                                                                                                                                                                               PM_{2.5} = 0.053
                                                                                                                                                                                                                                     M = 9.00
                                                    Assume:
U =
                                                                                                          6.7 , mph based on size specific wind data
30 CY loose,
1.3 CY loose/ CY banked
1.6875 t/cy
140 cy/day
236 t/day
                                    U =
Load size =
Fluff factor =
Banked density =
Production =
Production =
                                                                                                                                                                                                                                                                                        x 2 for loading and unloading stages x 2 for loading and unloading stages
                                                                                                          0.0002 lb/ton x production =
                                                                                                                                                                                                                                     0.05 lb/dy
                                                 EF_{PM10} =
                                                                                                          0.00003 lb/ton x production =
                                                                                                                                                                                                                                   0.01 lb/dy
                                                  EF_{PM2.5} =
```

John Smith Road Landfill DEIR Appendix B



ATTACHMENT M

Proposed Project On-Road Trips and Off-Road Operations Criteria Pollutant Emissions Calculations

Table M1 Total On-Road, Off Site Waste Hauling Criteria Pollutants - Proposed Project Summary

| Emissions Source | Daily Total NOx Emissions (lbs/day) | Daily Total ROG Emissions (lbs/day) | Daily Total PM ₁₀ Emissions (lbs/day) | Daily Total PM _{2.5} Emissions (lbs/day) | Daily Total CO Emissions (lbs/day) | Daily Total SO Emissions (lbs/day |
|-------------------------|--|--|--|---|---------------------------------------|--------------------------------------|
| Peak Traffic Day Option | 6.51 | 0.15 | 18.98 | 4.99 | 3.75 | 0.15 |
| Peak Tonnage Day Option | 22.57 | 0.29 | 46.88 | 11.98 | 6.02 | 0.16 |
| Difference | -16.06 | -0.14 | -27.90 | -6.98 | -2.26 | -0.01 |
| Baseline - Peak Traffic | 12.87 | 1.65 | 16.77 | 4.66 | 30.67 | 0.18 |
| Baseline - Peak Tonnage | 23.22 | 0.95 | 25.07 | 6.59 | 14.48 | 0.15 |
| Change - Peak Traffic | -6.36 | -1.50 | 2.21 | 0.34 | -26.91 | -0.02 |
| Change - Peak Tonnage | -0.65 | -0.66 | 21.81 | 5.39 | -8.46 | 0.01 |

Table M2 Total Operations Criteria Pollutants - Proposed Project

| Emissions Source | Daily Total NOx Emissions (lbs/day) | Daily Total ROG Emissions (lbs/day) | Daily Total PM ₁₀ Emissions (lbs/day) | Daily Total PM _{2.5} Emissions (lbs/day) | Daily Total CO Emissions (lbs/day) | Daily Total SO ₂ Emissions (lbs/day) |
|--------------------------------|--|--|---|--|------------------------------------|---|
| Off-Road Operations | 10.38 | 1.36 | 34.28 | 10.54 | 28.17 | 0.08 |
| On-Road Operations | 2.65 | 0.17 | 2.69 | 0.73 | 3.40 | 0.00 |
| On-Road On-Site Waste Delivery | 0.73 | 0.03 | 13.40 | 2.58 | 0.88 | 0.03 |
| Totals | 13.76 | 1.56 | 50.38 | 13.85 | 32.45 | 0.12 |
| Baseline | 19.46 | 1.48 | 66.58 | 19.40 | 36.64 | 0.24 |

On-Road Emissions - Equation for Tables M4 and M5

& ROG, lb/day 6.66

22.86

Sum of NOx

Daily emissions by pollutant (lb/day) = (emission factor (grams/miles) + deterioration product (grams/mil) (not applicable)) × daily activity (miles/day) × percentage operation in California (100%) ÷ 453.59 (grams/lb)

Off-Road Emissions Equation for Table M3

Daily emissions by pollutant (lb/day) = (emission factor (grams/brake hp-hour) + deterioration product (grams/brake hp-hour) (not applicable)) × horsepower (hp) × load factor × daily activity (hours/day) × percentage operation in California (100%) ÷ 453.59 grams/lb

JSRL is located in Area B of the Map of Districts Designated Areas, Per MBARD Rule 207.

Table M3 Off-Road Vehicles for Operations - Assumes that all equipment will be Model Year 2020 or Tier 4F by 2035

| | | Vehicle Pro | perties | | | | Operation | Properties | | | | | | Emission Factor | s and Calculations | | | | | |
|--------------------|---|---------------------------------------|--------------------------|-----------------|-------------------|--------------------------|------------------------------------|-----------------------------------|---|---|--|---|---|-----------------|---|------|---|-------------------------------------|---|--|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/Model/ Fuel ² | Model Year ¹⁴ | HP ³ | Tier ⁴ | Load Factor ⁵ | Peak Hours per Day ⁶ | Days of Operation ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | Emissions NOx (lbs/day) ⁹ | Emissions Factor ROG (g/bhp-hr) ⁷ | Emissions ROG (lbs/day) ⁹ | Emissions Factor PM10 (g/bhp-hr) ⁷ | | Emissions Factor PM2.5 (g/bhp-hr) ¹ | . | Emissions Facto CO (g/bhp-hr) Emissions Facto | Emissions CO (lbs/day) ⁹ | Emissions Factor SO ₂ (g/bhp-hr) ¹¹ | Emissions SO ₂ (lbs/day) ⁹ |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D6T LGP | 2020 | 255 | 4 (Final) | 0.43 | 8 | 7 | 0.26 | 0.50 | 0.050 | 0.10 | 0.009 | 0.02 | 0.130 | 0.25 | 2.088 | 4.04 | 0.005 | 0.01 |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D8T Diesel | 2020 | 310 | 4 (Final) | 0.43 | 8 | 7 | 0.26 | 0.61 | 0.050 | 0.12 | 0.009 | 0.02 | 0.130 | 0.31 | 2.088 | 4.91 | 0.005 | 0.01 |
| Dozer (Support) | Crawler Tractors | Caterpillar D6R Diesel | 2020 | 310 | 4 (Final) | 0.43 | 2 | 7 | 0.26 | 0.15 | 0.050 | 0.03 | 0.009 | 0.01 | 0.130 | 0.08 | 2.088 | 1.23 | 0.005 | 0.00 |
| Grader | Graders | Caterpillar 140G Diesel | 2020 | 150 | 4 (Final) | 0.41 | 2 | 7 | 7.60 | 2.06 | 0.620 | 0.17 | 0.009 | 0.00 | 0.284 | 0.08 | 3.621 | 0.98 | 0.005 | 0.00 |
| .oader | Rubber Tired Loaders | Caterpillar 938M Diesel | 2020 | 182 | 4 (Final) | 0.36 | 2 | 7 | 12.09 | 3.49 | 1.310 | 0.38 | 0.009 | 0.00 | 0.104 | 0.03 | 1.269 | 0.37 | 0.005 | 0.00 |
| Compactor | Rollers | Caterpillar 826K Diesel | 2020 | 426 | 4 (Final) | 0.38 | 8 | 7 | 0.26 | 0.74 | 0.050 | 0.14 | 0.009 | 0.03 | 0.082 | 0.23 | 1.253 | 3.58 | 0.005 | 0.01 |
| Compactor | Rollers | Caterpillar 826A | 2020 | 426 | 4 (Final) | 0.38 | 4 | 7 | 0.26 | 0.37 | 0.050 | 0.07 | 0.009 | 0.01 | 0.082 | 0.12 | 1.253 | 1.79 | 0.005 | 0.01 |
| Backhoe | Tractors/Loaders/Backhoe s | Caterpillar 426C Diesel | 2020 | 81.8 | 4 (Final) | 0.37 | 2 | 7 | 0.26 | 0.03 | 0.050 | 0.01 | 0.009 | 0.00 | 0.193 | 0.03 | 3.601 | 0.48 | 0.005 | 0.00 |
| Excavator | Excavators | John Deere 350 Diesel | 2020 | 283 | 4 (Final) | 0.38 | 6 | 7 | 0.26 | 0.37 | 0.050 | 0.07 | 0.009 | 0.01 | 0.048 | 0.07 | 1.102 | 1.57 | 0.005 | 0.01 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2020 | 380 | 4 (Final) | 0.38 | 8 | 7 | 0.26 | 0.66 | 0.050 | 0.13 | 0.009 | 0.02 | 0.079 | 0.20 | 1.414 | 3.60 | 0.005 | 0.01 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2020 | 380 | 4 (Final) | 0.38 | 4 | 7 | 0.26 | 0.33 | 0.050 | 0.06 | 0.009 | 0.01 | 0.079 | 0.10 | 1.414 | 1.80 | 0.005 | 0.01 |
| ruck Tipper | Other Construction Equipment | Columbia | 2015 | 156 | 4 (Final) | 0.42 | 8 | 7 | 0.26 | 0.30 | 0.050 | 0.06 | 0.009 | 0.01 | 0.150 | 0.17 | 2.407 | 2.78 | 0.005 | 0.01 |
| Street Sweeper | Other Construction Equipment | Elgin | 2020 | 74 | 4 (Final) | 0.42 | 4 | 7 | 2.74 | 0.75 | 0.090 | 0.02 | 0.009 | 0.00 | 0.331 | 0.09 | 3.828 | 1.05 | 0.005 | 0.00 |
| Totals | • | | • | | • | • | • | • | | 10.38 | İ | 1.36 | | 0.15 | | 1.7 | 5 | 28.1 | 7 | 0.0 |

2050 Assumes Peak traffic will occur near the end of the site life in approximatelt 2085 or 2086. The average site life would be in approximately 2054. EMFAC2017 goes as far forward as 2050.

Assuming 2050 Emissions Year with aggregate speed, annual aggregate, and aggregate model year (Per MBARD CEQA Guidance Use Summer Emissions Factors for ROG & NOX, and Winter Values for CO, all others use Annual Average) Table M4 On-Road Off Site Vehicles - Proposed Project Peak Traffic Day

| Table M4 On-Road, Off Site V | venicies - 110poseu 110 | jeet i cak i raine Day | | Assuming 2050 Emissions | Year with aggregate spe | cu, aiiiuai aggicgate, ai | nd aggregate moder | ,cai | (I G WIDARD CI | 2Q/1 Guidance Osc | Summer Limssic | ons Factors for ROG | ce 11021, and white | ci values for co, an | others use / timuui / tve | auge) | | | | | | | |
|--|---|---|--------------------------|--|--|--|---|--|---|---|--|---|--|---|---|-------|----------|--|---|--|--|--|---|
| Site Properties | | | | | | | | | | | | E | mission Factors a | nd Calculations | | | | | | | | | |
| On-Road Vehicles | Vehicle Category | Peak Daily Mileage from Origin to Landfill | Load Factor ⁵ | Emissions Factor NOx (g/mile) ¹⁰ | Emissions NOx(lbs/day) ⁸ | Emissions Factor ROG (g/mile) ¹⁰ | Emissions ROG (lbs/day) ⁸ | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions PM10 (lbs/day) ⁸ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Tire Wear Emissions PM10 (lbs/day) ⁸ | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | Brake Wear Emissions PM10 (lbs/day) ⁸ | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | Exhaust Emissions PM2.5 (lbs/day) ⁸ | | | Brake Wear 5 Emissions Factor PM2.5 (g/mile) ¹⁰ | Brake Emissions PM2.5 (lbs/day) ⁸ | Emissions Factor CO (g/mile) ¹⁰ | Emissions CO (lbs/day) ⁸ | Emissions Factor SOx (g/mile) ¹⁰ | Emissions SOx (lbs/day) ⁸ |
| In-County Self Haul/Residential 12 | Light/Heavy Duty Trucks (LHD1 - Gas) | 7,407 | 1 | 0.140 | 2.281 | 0.006 | 9.86E-02 | 0.002 | 3.60E-02 | 0.008 | 1.31E-01 | 0.076 | 1.25E+00 | 0.002 | 3.31E-02 | 0.002 | 3.27E-02 | 0.033 | 5.35E-01 | 0.145 | 2.37E+00 | 0.008 | 1.30E-01 |
| In-County Commercial 74% Diesel 11, 1 | 13 T7-SWCV (Dsl) | 113 | 1 | 0.446 | 0.111 | 0.024 | 6.07E-03 | 0.018 | 4.39E-03 | 0.036 | 8.98E-03 | 0.062 | 5.74E-09 | 0.017 | 4.20E-03 | 0.000 | 0.00E+00 | 0.056 | 1.39E-02 | 0.066 | 1.65E-02 | 0.025 | 6.24E-03 |
| In-County Commercial 26% CNG | T7-SWCV (NG) | 40 | 1 | 0.301 | 0.026 | 0.043 | 3.81E-03 | 0.003 | 2.42E-04 | 0.036 | 3.15E-03 | 0.062 | 1.60E-09 | 0.003 | 2.31E-04 | 0.009 | 7.89E-04 | 0.026 | 2.32E-03 | 11.219 | 9.83E-01 | 0.000 | 0.00E+00 |
| Out of County Commercial ^{12, 13} | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 936 | 1 | 1.985 | 4.094 | 0.020 | 4.12E-02 | 0.028 | 5.79E-02 | 0.036 | 7.43E-02 | 0.062 | 1.27E-01 | 0.027 | 5.54E-02 | 0.009 | 1.86E-02 | 0.026 | 5.46E-02 | 0.186 | 3.83E-01 | 0.009 | 1.84E-02 |
| TOTALS | TOTALS | | | | 6.513 | | 0.150 | | 0.099 | 1 | 0.217 | 1 | 1.376 | ì | 0.093 | | 0.052 | | 0.606 | | 3.751 | | 0.155 |

Note: STREX, HTSK, REST, and DIURN were not calculated as vehicle starting, and resting occurs outside of the MBARD District. All RUNL values were zero in the EMFAC 2017 Output for all vehicle types. IDLEX is modeled in Appendix P.

ATTACHMENT M

Proposed Project On-Road Trips and Off-Road Operations Criteria Pollutant Emissions Calculations

Tonnage would peak around 2070. The average of the site lif up to that date wpould be appriximately 2042. Emissions factors for 20 42 are assumed to represent the averg or mid point through the life during whick peak tons would be accepted.

| Table M5 On-Road, Off Site Vehi | icles Proposed Proje | ct Peak Tonnage Day | | Assuming 2042 Emissions | Year with aggregate sp | eed, annual aggregate, a | nd aggregate model y | ear | (Per MBARD CEC | A Guidance Use S | Summer Emission | ns Factors for ROG & | k NOX, and Winter | r Values for CO, all | others use Annual Avera | age) | | | | |
|---------------------------------|----------------------|-------------------------|--------------------------|-------------------------|------------------------|--------------------------|----------------------|-----------------------------|---------------------------|------------------------|------------------------|--------------------------------|-------------------|-----------------------------------|-------------------------|------------------------|------------------------------|--------------------------------|--------------------|------------------------|
| | Site Propertie | s | | | | | | | | | | E | mission Factors a | nd Calculations | | | | | | |
| On-Road Vehicles | Vehicle Category | Peak Daily Mileage from | Load Factor ⁵ | Emissions Factor NOx | Emissions 8 | Emissions Factor | Emissions ROG | Exhaust Emissions Factor | Exhaust Emissions PM10 | Tire Wear Emissions | Tire Wear Emissions | Brake Wear Emissions Factor | | Exhaust Emissions Factor PM2.5 | Exhaust Emissions | Tire Wear Emissions | Tire Wear Emissions PM2.5 | Brake Wear Emissions Factor | Brake Emissions | Emissions Factor CO |

| | Site Properties | 8 | | Emission Factors and Calculations | | | | | | | | | | | | | | | | | | | |
|---|---|---|--------------------------|--|--|--|---|--|---|---|--|---|----------|---|---|--|--|--|---|--|--|--|---|
| On-Road Vehicles | Vehicle Category | Peak Daily Mileage from Origin to Landfill | Load Factor ⁵ | Emissions Factor NOx (g/mile) ¹⁰ | Emissions NOx(lbs/day) ⁸ | Emissions Factor ROG (g/mile) ¹⁰ | Emissions ROG (lbs/day) ⁸ | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions PM10 (lbs/day) ⁸ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Tire Wear Emissions PM10 (lbs/day) ⁸ | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | Exhaust Emissions PM2.5 (lbs/day) ⁸ | Tire Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Tire Wear Emissions PM2.5 (lbs/day) ⁸ | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Brake Emissions PM2.5 (lbs/day) ⁸ | Emissions Factor CO (g/mile) ¹⁰ | Emissions CO (lbs/day) ⁸ | Emissions Factor SOx (g/mile) ¹⁰ | Emissions SOx (lbs/day) ⁸ |
| In-County Self Haul/Residential 12 | Light/Heavy Duty Trucks (LHD-1 - Gas) | 2,434 | 1 | 0.052 | 0.277 | 0.007 | 3.72E-02 | 0.002 | 1.18E-02 | 0.008 | 4.29E-02 | 0.076 | 4.10E-01 | 0.002 | 1.09E-02 | 0.002 | 1.07E-02 | 0.033 | 1.76E-01 | 0.153 | 8.23E-01 | 0.008 | 4.28E-02 |
| In-County Commercial Diesel ^{11, 13} | T7-SWCV (Dsl) | 356 | 1 | 0.446 | 0.350 | 0.024 | 1.91E-02 | 0.018 | 1.38E-02 | 0.036 | 2.83E-02 | 0.062 | 4.85E-02 | 0.017 | 1.32E-02 | 0.000 | 0.00E+00 | 0.056 | 4.39E-02 | 0.066 | 5.20E-02 | 0.025 | 1.97E-02 |
| In County Commercial CNG | T7-SWCV (NG) | 125 | 1 | 0.301 | 0.083 | 0.043 | 1.20E-02 | 0.003 | 7.61E-04 | 0.036 | 9.93E-03 | 0.062 | 1.70E-02 | 0.003 | 7.28E-04 | 0.009 | 2.48E-03 | 0.026 | 7.30E-03 | 11.219 | 3.09E+00 | 0.000 | 0.00E+00 |
| Out of County Commercial 12, 13 | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 5,007 | 1 | 1.981 | 21.863 | 0.020 | 2.20E-01 | 0.028 | 3.10E-01 | 0.036 | 3.97E-01 | 0.062 | 6.82E-01 | 0.027 | 2.96E-01 | 0.009 | 9.94E-02 | 0.026 | 2.92E-01 | 0.185 | 2.05E+00 | 0.009 | 9.82E-02 |
| TOTALS | | - | | | 22.573 | | 0.288 | | 0.336 | | 0.479 | | 1.157 | | 0.321 | | 0.113 | | 0.519 | | 6.015 | | 0.161 |

Note: STREX, HTSK, REST, and DIURN were not calculated as vehicle starting, and resting occurs outside of the MBARD District. All RUNL values were zero in the EMFAC 2017 Output for all vehicle types. IDLEX is modeled in Appendix P.

| Table M6 On-Road Waste De | elivery On-Site Vehicles | Proposed Project Peak T | rip Day | | Assuming 2042 Emission | ons Year | Miles On Site | 3.31 | Round Trip from F | Figure B12 | (Per MBARD 0 | EQA Guidance Use | Summer Emissions | s Factors for ROG & | NOX, and Winter Valu | ues for CO, all othe | rs use Annual Aver | rage) | | | | | |
|------------------------------------|--|---|--------------------------|---|--|--|---------------|--|---|------------|--|---|--|---------------------|---|--|--------------------|--|---|--|--|--|---|
| | Site Propertie | s | | | | | | | | | | Er | nission Factors a | nd Calculations | | | | | | | | | |
| On-Road Vehicles | Vehicle Category | Peak Daily Mileage from Origin to Landfill | Load Factor ⁵ | Emissions Factor NOx (g/mile) ¹⁰ | Emissions NOx(lbs/day) ⁸ | Emissions Factor ROG (g/mile) ¹⁰ | (lbs/day)8 | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions PM10 (lbs/day) ⁸ | Emissions | Tire Wear Emissions PM10 (lbs/day) ⁸ | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | Brake Wear Emissions PM10 (lbs/day) ⁸ | | Exhaust Emissions PM2.5 (lbs/day) ⁸ | Tire Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Brake Emissions PM2.5 (lbs/day) ⁸ | Emissions Factor CO (g/mile) ¹⁰ | Emissions CO (lbs/day) ⁸ | Emissions Factor SOx (g/mile) ¹⁰ | Emissions SOx (lbs/day) ⁸ |
| In-County Self Haul/Residential 12 | Light/Heavy Duty Trucks (LHD-1 - Gas) | 1,764 | 1 | 0.052 | 0.201 | 0.007 | 2.70E-02 | 0.002 | 8.58E-03 | 0.008 | 3.11E-02 | 0.076 | 2.97E-01 | 0.002 | 7.89E-03 | 0.002 | 7.78E-03 | 0.033 | 1.27E-01 | 0.153 | 5.97E-01 | 0.008 | 3.10E-02 |
| r o . o . r mr . dl | TT CIVICU (D. I) | 0.7 | | 0.446 | 0.026 | 0.024 | 1.450.03 | 0.010 | 1.050.03 | 0.036 | 2.145.02 | 0.062 | 2 (75 02 | 0.017 | 1.000.03 | 0.000 | 0.000.00 | 0.056 | 2.225.02 | 0.066 | 2.025.02 | 0.025 | 1 405 03 |

| | | | | (8) | (, | | (, | PM10 (g/mile) ¹⁰ | (lbs/day)° | (g/mile) ¹⁰ | (lbs/day)8 | PM10 (g/mile)10 | (lbs/day) | (g/mile)10 | , | (g/mile) ¹⁰ | (lbs/day)° | PM2.5 (g/mile) ¹⁰ | (lbs/day)8 | (g/mile)10 | (, | 1 | (, |
|---|---|-------|---|-------|-------|-------|----------|-----------------------------|------------|------------------------|------------|-----------------|-----------|------------|----------|------------------------|------------|------------------------------|------------|------------|----------|-------|----------|
| In-County Self Haul/Residential 12 | Light/Heavy Duty Trucks (LHD-1 - Gas) | 1,764 | 1 | 0.052 | 0.201 | 0.007 | 2.70E-02 | 0.002 | 8.58E-03 | 0.008 | 3.11E-02 | 0.076 | 2.97E-01 | 0.002 | 7.89E-03 | 0.002 | 7.78E-03 | 0.033 | 1.27E-01 | 0.153 | 5.97E-01 | 0.008 | 3.10E-02 |
| In-County Commercial Diesel ¹¹ | T7-SWCV (Dsl) | 27 | 1 | 0.446 | 0.026 | 0.024 | 1.45E-03 | 0.018 | 1.05E-03 | 0.036 | 2.14E-03 | 0.062 | 3.67E-03 | 0.017 | 1.00E-03 | 0.000 | 0.00E+00 | 0.056 | 3.32E-03 | 0.066 | 3.93E-03 | 0.025 | 1.49E-03 |
| In County Commercial CNG | T7-SWCV (NG) | 9 | 1 | 0.301 | 0.006 | 0.043 | 9.07E-04 | 0.003 | 5.76E-05 | 0.036 | 7.51E-04 | 0.062 | 1.29E-03 | 0.003 | 5.51E-05 | 0.009 | 1.88E-04 | 0.026 | 5.52E-04 | 11.219 | 2.34E-01 | 0.000 | 0.00E+00 |
| Out of County Commercial 12 | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 113 | 1 | 1.981 | 0.491 | 0.020 | 4.95E-03 | 0.028 | 6.96E-03 | 0.036 | 8.93E-03 | 0.062 | 1.53E-02 | 0.027 | 6.66E-03 | 0.009 | 2.23E-03 | 0.026 | 6.56E-03 | 0.185 | 4.60E-02 | 0.009 | 2.21E-03 |
| | | | • | | | 1 | | | | | | 1 | | | | | | _ | | | | | |

| Table M7 On-Road Vehicles for Operations | Assume 2020 Emissions Year with the Model Years Shown Below | Assume average annual emissions. |
|--|---|----------------------------------|

| V | Vehicle Properties | | Em | nission Factors and Calcula | tions | | | | | | | | | | | | | | | | | | |
|------------------------------------|--------------------|------------------|--------------------------|--|--|--|--|--|---|---|--|---|----------|---|---|-------|--|--|---|--|-------------------------------------|--|---|
| On-Road Vehicles | Vehicle Category | Peak Mileage/Day | Load Factor ⁵ | Emissions Factor NOx (g/mile) ¹⁰ | Emissions NOx(lbs/day) ⁸ | Emissions Factor ROG (g/mile) ¹⁰ | Emissions ROG(lbs/day) ⁸ | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions PM10 (lbs/day) ⁸ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Tire Wear Emissions PM10 (lbs/day) ⁸ | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | Exhaust Emissions PM2.5 (lbs/day) ⁸ | | Tire Wear Emissions PM2.5 (lbs/day) ⁸ | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Brake Emissions PM2.5 (lbs/day) ⁸ | Emissions Factor CO (g/mile) ¹⁰ | Emissions CO (lbs/day) ⁸ | Emissions Factor SOx (g/mile) ¹⁰ | Emissions SOx (lbs/day) ⁸ |
| Ford Mechanic Truck (DSL) 2010 | LHD1 | 20 | 1 | 0.28 | 0.01 | 0.129 | 5.68E-03 | 0.020 | 9E-04 | 0.012 | 5E-04 | 0.076 | 3E-03 | 0.019 | 8E-04 | 0.003 | 1E-04 | 0.033 | 1E-03 | 0.677 | 3E-02 | 0.006 | 2E-04 |
| Fuel Truck (DSL) 2010 | LHD2 | 10 | 1 | 0.28 | 0.01 | 0.129 | 2.84E-03 | 0.020 | 4E-04 | 0.012 | 3E-06 | 0.089 | 2E-03 | 0.019 | 4E-04 | 0.003 | 7E-05 | 0.038 | 8E-04 | 1.003 | 2E-02 | 0.006 | 1E-04 |
| Roll-Off Truck (DSL) 2010 | T7 CAIRP | 20 | 1 | 8.01 | 0.35 | 0.309 | 1.36E-02 | 0.075 | 3.32E-03 | 0.036 | 1.59E-03 | 0.062 | 2.72E-03 | 0.072 | 3.18E-03 | 0.009 | 3.97E-04 | 0.026 | 1.17E-03 | 0.062 | 2.72E-03 | 0.016 | 6.84E-04 |
| Water Truck, (DSL) 2010 | T7 CAIRP | 50 | 1 | 8.01 | 0.88 | 0.309 | 3.41E-02 | 0.075 | 8E-03 | 0.036 | 7E-03 | 0.062 | 7E-03 | 0.072 | 8E-03 | 0.009 | 1E-03 | 0.026 | 3E-03 | 0.062 | 7E-03 | 0.016 | 2E-03 |
| Water Truck DSL (Backup), 2006 | T7 CAIRP | 50 | 1 | 11.97 | 1.32 | 0.949 | 1.05E-01 | 0.725 | 8E-02 | 0.036 | 4E-03 | 0.062 | 7E-03 | 0.693 | 8E-02 | 0.009 | 1E-03 | 0.026 | 3E-03 | 3.933 | 4E-01 | 0.015 | 2E-03 |
| RNG Tube Truck CNG (3.44 loads/dy) | T7 SWCV (2023) | 117 | 1 | 0.31 | 0.08 | 0.043 | 1.12E-02 | 0.003 | 7E-04 | 0.036 | 9E-03 | 0.062 | 2E-02 | 0.003 | 7E-04 | 0.009 | 2E-03 | 0.026 | 7E-03 | 11.219 | 3E+00 | 0.000 | 0E+00 |
| TOTALS | | 150 | | | 2.655 | | 0.172 | | 0.094 | | 0.023 | | 0.038 | | 0.089 | | 0.005 | | 0.016 | | 3.396 | 1 | 0.004 |

Sources: CARB, 2017. California Air Resources Board, The Carl Moyer Program Guidelines, 2017 Revisions, Appendix D - Tables for Emissions Reduction and Cost Effectiveness Calculations, Tables D-7 to D-9 for Off-Road Diesel and Non-Mobile Agricultural (Ag) Projects L&A, 2021. Lawrence & Associates, July 2021, Design Basis Report, John Smith Road Landfill Expansion.

CAPCOA, 2017. California Air Pollution Control Officers Association (CAPCOA), version 2017, California Emissions Estimator Model (CalEE MOD), Appendix D, Default Data Tables

1 Vehicles that best represent items listed in Table D-7 of CARB, 2017.
2 Vehicles and equipment as listed in Table 26 of L&A, 2021.

3 Vehicles horsepower as listed in Table 26 of L&A, 2021. 4 Vehicle tier as listed in Table 26 of L&A, 2021.

5 Load Factor as listed in Table D-7 of CARB, 2017.

6 The average working hours from Table 26 if L&A, 2021.
7 Emission factors obtained from Table D-8 of CARB, 2017.

8 Referenced equation above was used to calculate emissions as listed in CARB, 2017, Appendix C (Cost-Effectiveness Calculation Methodology).
9 Referenced equation above was used to calculate emissions as listed in CARB, 2017, Appendix C (Cost-Effectiveness Calculation Methodology).

10 Values obtained form EMFAC2017 (v1.0.2) Emission Rates for San Benito County.

11 CAPCOA, 2020 Table 3.4 based on Model year rounded to the nearest 5-year increment. Note that Table 3.4 provides emission factors based on a mixture of emissions for PM2.5, CO, and SO2, and is not as precise as the Carl Moyer values for NOx, ROG, PM10. 13 Values obtained for NOx and PM10 use Summer EMFAC2017, and values for CO use Winter EMFA2017

Note: The values for STREX, HTSK, REST, DIURN, RUNL were all zero in the EMFAC2017 output and were not analyzed.

$Table\ \underline{M8-On-Road}, \underline{Off}\ Site\ Fugitive\ Road\ Dust-Proposed\ Project\ Peak\ Trip\ Day\ Waste\ Delivery$ Inpaved Day Ir Paved Day Out of Paved Day In County County PM_{2.5} Commercial Vehicle In County Self Haul Control County Haul Truck Paved Road Const. Paved Road PM2. County Haul Truck Commercial In County Self PM₁₀ Emission **Total Daily** Total Daily per day Distance1 Distance1 Distance² Vehicle Distance² Haul Distance^{2,4} Efficiency³ Distance¹ PM₁₀ Emissions per Day Emissions per Day Emissions PM missions PM (VMT/Day) (VMT/Day) (VMT/Day) (VMT/Day) (VMT/Day) (VMT/Day)

1 Assume peak Out of County, In County Commercial, and In County Self Haul from peak-trip day mileage from Attachment K

2 Assume peak Out of County, In County Commercial, and In County Self Haul from peak-trip day trips from Attachment K x 2 miles per trip 3 Assume graveled road with no dust palliative and some watering

4 Assume that 75% of trips will go to public drop-off ag gate and not travel on unpaved roads

John Smith Road Landfill Attachment M **DEIR Appendix B** Page 2 of 5 Lawrence & Associates

0.25

ATTACHMENT M

Proposed Project On-Road Trips and Off-Road Operations Criteria Pollutant Emissions Calculations

Table M9 - Fugitive Road Dust - Proposed Project Peak Tonnage Day Off Site Waste Delivery

| - | | 3 | 9 1 | | | | | | | | | | | |
|-----------------------|------------|----------------|-----------------------|-----------------------|------------------------------------|------------------------------|-----------------------|-------------------------------|------------------------------|-------------------------|----------------------------|-------------------|----------------------------|-----------------------------|
| | | | | | | | | Unpaved Day In | | | | Unpaved Road | | |
| | Paved Day | Out of | Paved Day In County | | | | Unpaved Day Out of | County | | | Unpaved Road | PM _{2.5} | | |
| | County Hau | l Truck | Commercial Vehicle | In County Self Haul | Paved Road Const. | Paved Road PM _{2.5} | County Haul Truck | Commercial | In County Self | Control | PM ₁₀ Emissions | Emissions per | Total Daily | Total Daily |
| Construction Activity | Distanc | e ¹ | Distance ¹ | Distance ¹ | PM ₁₀ Emissions per Day | Emissions per Day | Distance ² | Vehicle Distance ² | Haul Distance ^{2,4} | Efficiency ³ | per day | yr | Emissions PM ₁₀ | Emissions PM _{2.5} |
| | (VMT/D | ay) | (VMT/Day) | (VMT/Day) | Pounds | Pounds | (VMT/Day) | (VMT/Day) | (VMT/Day) | % | Pounds | Pounds | (lb/day) | (lb/day) |
| Current & Proposed | 5,007 | | 481 | 2,434 | 44.91 | 11.02 | 0.00 | 0.00 | 0.00 | 75% | 0.00 | 0.00 | 44.91 | 11.02 |
| Baseline | 2,489 | | 465 | 2,279 | 25 | 6 | 0 | 0 | 0 | 1 | 0 | 0 | 25 | 6 |
| | Notes: | | | | | | | | | | | | 19.94 | 4.89 |

1 Assume peak Out of County, In County Commercial, and In County Self Haul from peak-tonnage day mileage from Attachment K
2 Assume peak Out of County, In County Commercial, and In County Self Haul from peak-tonnage day trips from Attachment K x 2 miles per trip
3 Assume graveled road with no dust palliative and some watering

4 Assume that 75% of trips will go to public drop-off ag gate and not travel on unpaved roads

Public 75% 0.23 Average 0.835 Table M10 - Fugitive Road Dust - Proposed Project Peak Traffic Day On-Site Waste Delivery Only Miles Paved RT 2.65 % of Self Haul That Use Public Tipping Area Miles Unpaved: 0.76

| Construction Activity | Paved Day Out of County Haul Truck Distance ¹ | Paved Day In County Commercial Vehicle Distance ¹ | In County Self Haul Distance ¹ | Paved Road Const. PM ₁₀ Emissions per Day | Paved Road PM _{2.5} | Unpaved Day Out of County Haul Truck | Unpaved Day In County Commercial Vehicle Distance ² | In County Self | Control Efficiency ³ | Unpaved Road PM ₁₀ Emissions per day | | Total Daily | Total Daily Emissions PM _{2.5} |
|-----------------------|--|--|--|---|------------------------------|---|---|----------------|------------------------------------|---|--------|-------------|--|
| | (VMT/Day) | (VMT/Day) | (VMT/Day) | Pounds | Pounds | (VMT/Day) | (VMT/Day) | (VMT/Day) | % | Pounds | Pounds | (lb/day) | (lb/day) |
| Current & Proposed | 90 | 29 | 445 | 8.16 | 2.00 | 25.76 | 8.33 | 100.95 | 90% | 5.25 | 0.57 | 13.40 | 2.58 |
| Baseline | 12 | 4 | 433 | 6 | 0 | 21 | 7 | 329 | 1 | 35 | 4 | 41 | 4 |
| N | otes: | | | | | | | | | | | -27.33 | -1.09 |

In County Self

- Assume peak Out of County, In County Commercial, and In County Self Haul from peak-tonnage day mileage from Attachment K
 Assume peak Out of County, In County Commercial, and In County Self Haul from peak-tonnage day trips from Attachment K x 2 miles per trip

3 Assume graveled road with no dust palliative and some watering

4 Assume that 75% of trips will go to public drop-off ag gate and not travel on unpaved roads

Table M11 - Fugitive Dust - Proposed Project Operations from On Site Operations Equipment (haul trucks, water truck, maint trucks)

| Construction Activity | Paved Day Large Haul Truck Distance | Paved Day Support Vehicle Distance ¹ | Paved Road Ops. PM ₁₀ Emissions per Day | Paved Road PM _{2.5} Emissions per Day | Unpaved Day Haul Truck Distance ² | Unpaved Day Support Vehicle Distance ³ | Control Efficiency ⁵ | | Unpaved Road PM _{2.5} Emissions per yr ⁴ | Total Daily Emissions PM ₁₀ | Total Daily Emissions PM _{2.5} |
|-----------------------|--|---|--|---|---|---|------------------------------------|--------|--|---|---|
| | (VMT/Day) | (VMT/Day) | Pounds | Pounds | (VMT/Day) | (VMT/Day) | % | Pounds | Pounds | (lb/day) | (lb/day) |
| Current & Proposed | 0.00 | 75.00 | 2.54 | 0.62 | 10.61 | 75.00 | 90% | 17.37 | 1.74 | 18.00 | 2.36 |
| Baseline | 0.00 | 40.00 | 2.09 | 0.51 | 5.30 | 40.00 | 0.75 | 23.40 | 9.29 | 23.91 | 9.80 |

- 1 Assume 50% of the mileage is on road
 2 Assume 280 CY/day for 20 cy/ load struck = 7 loads at 4,000 feet round trip
- 3 Assume 50% of the mileage is off road
- 4 Assume graveled road with no dust palliative and some watering 5 Does not apply to tracked equipment that does not drive on roads

Emission factors for Paved Surfaces on Public Roads From CalEEMod 2016-3-2 User's Guide

$$Eext = [k(sL)^{0.91}(W)^{1.02}]x (1 - \frac{P}{4N})$$

- Ep = particulate matter factor (having units matching the units of K)
- k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.1-1 sL = road surface silt loading (g/m2)

Out of County Units

- P = number of wet days with at least 0.01 inch or precipitation during the averaging period
- N = number of averaging days for period Assume (1-P/4N) = 1 for a dry day fo off site

| W IICII. | Out of County Units | in County Commercial Onits | iii County Sen |
|-----------------------------|---------------------|----------------------------|----------------|
| k _{2.5} = | 0.00054 lb/VMT | 0.00054 lb/VMT | 0.00054 lb/VMT |
| $k_{10} =$ | 0.0022 lb/VMT | 0.0022 lb/VMT | 0.0022 lb/VMT |
| On Site sL = | 1.1 g/m2 | 1.1 g/m2 | 1.1 g/m2 |
| Sweeping | 0.62 | 0.62 | 0.62 |
| On Site with Sweeping SL = | 0.682 | 0.682 | 0.682 |
| Off Site sL = | 0.1 g/m2 | 0.1 g/m2 | 0.1 g/m2 |
| W = | 27.00 tons | 20.5 tons | 4.4 tons |
| On Site P = | 0 days | 0 days | 0 days |
| On Site N = | 1 days | 1 days | 1 days |
| Off Site P = | 0 days | 0 days | 0 days |
| Then: | | | |
| On Site Ep _{2.5} = | 0.011 lb/VMT | 0.008 lb/VMT | 0.002 lb/VMT |
| On Site Ep ₁₀ = | 0.045 lb/VMT | 0.034 lb/VMT | 0.007 lb/VMT |
| Off Site $Ep_{2.5} =$ | 0.002 lb/VMT | 0.001 lb/VMT | 0.000 lb/VMT |
| Off Site $Ep_{10} =$ | 0.008 lb/VMT | 0.006 lb/VMT | 0.001 lb/VMT |
| | | | |

In County Commercial Units

Use Off Site -High Frequency Roadway to simulate street sweeping

Assume surface is Swept Daily During Construction Low end of Range from 13.2.1.-3

Source AP-42 Table 13.2.1-1 AP-42 Table 13.2.1-1

Table O2 Assume watered Surface Assume Watered Surface

Assume sweeping is 38% effective

Table L9 - Table O2 Peak Traffic Day Vehicle Weight Assumptions (assumes full load in and empty out)

| Category | Type | GVW, lb | NVW, lb | Average, lb | Av Tons |
|--------------------------|------------------------|---------|---------|-------------|---------|
| Self-Haul Residential | Ford F250 Gross Weight | 9,900 | 7,700 | 8,800 | 4.4 |
| In County Commercial | Garbage Truck | 51,000 | 31,000 | 41,000 | 20.5 |
| Out of County Commercial | Transfer Truck | 75,000 | 33,000 | 54,000 | 27 |

GVW: Gross vehicle weight including load

NVWL Net vehicle weight or :"curb weight" without load

-7.44

-5.91

AP-42 Table 13.2.1-2 (10/02 version), = 0.1 or high ADT road (>5000 tpd or 3.5 t/min) and 0.4 for low ADT road -

ATTACHMENT M

Proposed Project On-Road Trips and Off-Road Operations Criteria Pollutant Emissions Calculations

Unpaved Public Roads Emission Factor From CalEEMod 2016-3-2 User's Guide

EF Dust = $[((k * (s/12)^a * (S/30)^b) / (M/0.5)^c)$ -C] * (1-P/365) 0.15 0.56793529 0.707106781 1.454061151 0.00036 Equation from CalEEMod Appendix A, page 28

Where:

- Where:

 EF = size-specific emission factor (lb/VMT) for unpaved surface

 k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2
- a = Constant from AP-42 for public or industrial road b = Constant from AP-42 for public or industrial road
- c = Constant from AP-42 for public or industrial road s = surface material silt content (%)
- S = mean vehicle speed (mph)
- M = surface material moisture (%)
 C = emissions factor for 1980's vehicle fleet exhaust brake wear and tire wear (0.00047 for PM10 and 0.00036 for PM2.5)
 P = number of wet days with at least 0.01 inch or precipitation during the averaging period
 Assume (1-P/365) = 1 for a dry day

| When: | Out of County Units | In County Commercial Units | In County Self Units | Source |
|-------------|------------------------------|----------------------------|----------------------|--|
| $k_{2.5} =$ | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT | Per AP-42 Table 13.2.2-2 for public roads |
| $k_{10} =$ | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT | Per AP-42 Table 13.2.2-2 for public roads |
| a = | 1 Constant for public road | | | Per AP-42 Table 13.2.2-2 for public roads |
| b = | 0.5 Constant for public road | | | Per AP-42 Table 13.2.2-2 for public roads |
| c = | 0.2 Constant for public road | | | Per AP-42 Table 13.2.2-2 for public roads |
| s = | 6.4 % | 6.4 % | 6.4 % | Per AP-42 Table 13.2.2-1 for landfills, mean of graveled roads |
| S = | 15 mph | 15 tons | 15.0 tons | Site speed limit |
| M = | 3.25 % | 3.25 % | 3.25 % | Assuming 25% of 13% maximum moisture content as baseline |
| $C_{2.5} =$ | 0.00036 lb/VMT | 0.00036 lb/VMT | 0.00036 lb/VMT | Per AP-42 Table 13.2.2-4 |
| $C_{10} =$ | 0.00047 lb/VMT | 0.00047 lb/VMT | 0.00047 lb/VMT | Per AP-42 Table 13.2.2-4 |
| Then: | | | | |
| Eup2.5 = | 0.043 lb/VMT | 0.043 lb/VMT | 0.043 lb/VMT | |
| E 10 - | 0.200 IL AAMT | 0.200 IL AAMT | 0.200 H. A/MT | |

Unpaved Road Emission Factor For Industrial Roads

Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2

Eup = size-specific emission factor (lb/VMT) for unpaved surface

- s = surface multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2 s = surface material silt content (%)

- s surface materials in content (*)

 W = mean vehicle weight (tons)

 a = industrial road constant from AP-42, Table 13.2.2-2

 b = industrial road constant from AP-42, Table 13.2.2-2

| When: | Haul Units | Support Units | Small Units | Source |
|--------------|--------------|---------------|--------------|--|
| $k_{2.5} =$ | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| $k_{10} =$ | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| s = | 6.4 % | 6.4 % | 6.4 % | Per AP-42 Table 13.2.2-1 for landfills, mean or graveled roads |
| W = | 48.8 tons | 17.7 tons | 4.4 tons | Table O2 |
| a = | 0.9 | 0.9 | 0.9 | Per AP-42 Table 13.2.2-2 for industrial roads |
| b = | 0.45 | 0.45 | 0.45 | Per AP-42 Table 13.2.2-2 for industrial roads |
| Then: | | | | |
| Eup2.5 = | 0.299 lb/VMT | 0.189 lb/VMT | 0.101 lb/VMT | |
| $E_{UP}10 =$ | 2.988 lb/VMT | 1.894 lb/VMT | 1.012 lb/VMT | |

Table L10 - Operations Average Vehicle Weight Assumptions (assumes full load in and empty out)

| Category | Type | Percent | GVW, lb | NVW, lb | Average, lb | Av Tons |
|--------------------|---------------------------|-----------|---------|---------|-------------|---------|
| | | 1 er cent | | | | |
| Small Vehicle | Ford F250 Gross Weight | | 9,900 | 7,700 | 8,800 | 4.4 |
| Commercial Vehicle | | | | | | |
| | Ford Mechanic Truck | | | | | |
| Average of: | (DSL) 2006 | 13% | 14,000 | 8,600 | 11,300 | 5.65 |
| | Fuel Truck (DSL) 2009 | 7% | 63,000 | 29,500 | 46,250 | 23.13 |
| | Roll-Off Truck (DSL) 2000 | 33% | 63,000 | 29,500 | 46,250 | 23.13 |
| | Water Truck DSL 2006 | 33% | 63,000 | 29,500 | 46,250 | 23.13 |
| | Weighted Average: | · | | | | 17.7 |
| Off Road Dump | John Deer 350G | · | 133,379 | 61,730 | 97,555 | 48.8 |

GVW: Gross vehicle weight including load

NVWL Net vehicle weight or :"curb weight" without load

John Smith Road Landfill Attachment M **DEIR Appendix B** Page 4 of 5 Lawrence & Associates

ATTACHMENT M

Proposed Project On-Road Trips and Off-Road Operations Criteria Pollutant Emissions Calculations

Grading Equipment Passes

0.23 lb/dy

0.03 lb/dy

Assume double for loading and unloading

Assume double for loading and unloading

John Smith Road Landfill **DEIR Appendix B**

Banked density =

Production = Production =

 $\begin{aligned} EF_{PM10} &= \\ EF_{PM2.5} &= \end{aligned}$

1.6875 t/cy 280 cy/day 473 t/day

2.3945E-04 lb/ton x production =

3.6260E-05 lb/ton x production =

Attachment M Page 5 of 5 Lawrence & Associates



Attachment N

Construction Criteria Pollutant Emission Calculations: On-Road and Off- Road Equipment

Table N1 Summary of On-Road and Off Road Construction Equipment Equipment Emissions

| Table At Summary of On-Road | NOx Emissions | | PM ₁₀ Emissions | PM _{2.5} Emissions | CO Emissions | SOx Emissions |
|------------------------------|---------------|-------------------------|----------------------------|--------------------------------|--------------|------------------|
| Category | (lbs/day) | ROG Emissions (lbs/day) | (lbs/day) | (lbs/day) | (lbs/day) | (lbs/day) |
| Off-Road Vehicles Tailpipe | 10.24 | 1.17 | 0.45 | 4.66 | 56.44 | 0.12 |
| On-Road Vehicles Tailpipe | 1.55 | 0.07 | 0.03 | 0.08 | 0.31 | 0.01 |
| Fugitive Dust from Travel | | | 32.75 | 7.86 | | - |
| Fugutive Dust from Equipment | | - | 28.70 | 10.14 | - | - |
| TOTAL | 11.79 | 1.23 | 61.93 | 22.74 | 56.75 | 0.14 |
| MBUAPCD Thresholds | 137 lbs/day | 137 lbs/day | 82 lbs/day | 82 lbs/day | 82 lbs/day | 82 lbs/day |

On-Road Emissions - Equation for Table N3

 $Daily \ emissions \ by \ pollutant \ (lb(day) = (emission \ factor \ (grams/miles) + deterioration \ product \ (grams/mi) \ (not \ applicable)) \times daily \ activity \ (miles/day) \times percentage \ operation \ in \ California \ (100%) + 453.59 \ (grams/lb)$

Modified Off-Road Emissions Equation for Table N2

Daily emissions by pollutant ($lb(day) = (emission factor (grams-brake hp-hour) + deterioration product (grams-brake hp-hour) (not applicable)) <math>\times$ horsepower (hp) \times load factor \times daily activity (hours/day) \times percentage operation in California (100%) \times 453.59 grams/lb

Assumes: Peak Day will be During Bulk Excavation Phase

Assumes two dozers, full time
Assumes two excavators full time one for loading, the other for rock breaking

Assumes two excavators full time one for load Assumes three 30 CY off-road sump trucks Assumes 1 screening plant Assumes one loader for screening plant Assumes one compactor fo engineered fill Assumes 1 water truck

| | | V-1-1-1-1 | roperties | | | | | | | | | | Al- OIle- FI | sion Factors and Calc | | | | | |
|-----------------------------------|---|---|----------------|-----------------|-------------------|--------------------------|--|--|---|---|---|--|--|--|---|--|--|---|--|
| | _ | venicie i | roperues | | | _ | | | | | | | Air Quanty Emis | sion ractors and Caic | uiations | | | | |
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/ Model/ Fuel ² | Road Miles/Day | HP ³ | Tier ⁴ | Load Factor ⁵ | Peak Operating Hours per Day ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | Emissions NOx (lbs/day) ⁹ | Emissions Factor ROG (g/bhp-hr) ⁷ | Emissions ROG (lbs/day) ⁹ | Exhaust Emissions Factor PM10 (g/bhp-hr) ⁷ | Exhaust Emissions PM10 (lbs/day) ⁹ | Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Emissions PM2.5 (lbs/day) ⁹ | Emissions Factor CO (g/bhp-hr) ⁷ | Emissions CO (lbs/day) ⁹ | Emissions Factor SO ₂ (g/bhp-hr) ⁷ | Emissions SO (lbs/day) ⁹ |
| Dozer (not used for bulk exc.) | Crawler Tractors | Caterpillar D6T LGP | 0 | 165 | 3 | 0.43 | 0 | 2.32 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.348 | 0.00 | 3.408 | 0.00 | 0.005 | 0.00 |
| Dozer | Crawler Tractors | Caterpillar D8T Diesel | 0 | 310 | 4 (Final) | 0.43 | 9 | 0.26 | 0.69 | 0.05 | 0.13 | 0.009 | 0.02 | 0.209 | 0.55 | 3.067 | 8.11 | 0.005 | 0.01 |
| Dozer | Crawler Tractors | Caterpillr D6R Diesel | 0 | 140 | 3 | 0.43 | 9 | 2.32 | 2.77 | 0.09 | 0.11 | 0.112 | 0.13 | 0.348 | 0.42 | 3.408 | 4.07 | 0.005 | 0.01 |
| Grader (not used for bulk excav.) | Graders | Caterpillar 140G Diesel | 0 | 150 | 3 | 0.41 | 0 | 2.32 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.456 | 0.00 | 3.904 | 0.00 | 0.005 | 0.00 |
| Loader (used infrequently) | Rubber Tired Loaders | Caterpillar 938M Diesel | 0 | 190 | 3 | 0.36 | 2 | 2.32 | 0.70 | 0.09 | 0.03 | 0.088 | 0.03 | 0.310 | 0.09 | 2.143 | 0.65 | 0.057 | 0.02 |
| Pad-Foot Compactor | Rollers | Caterpillar 826C Diesel | 0 | 341 | 4 (Final) | 0.38 | 9 | 0.26 | 0.67 | 0.05 | 0.13 | 0.009 | 0.02 | 0.288 | 0.74 | 4.469 | 11.49 | 0.005 | 0.01 |
| Smooth Drum Roller (NA) | Rollers | Caterpillar CS34 Diesel | 0 | 74 | 3 | 0.38 | 0 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.516 | 0.00 | 4.922 | 0.00 | 0.005 | 0.00 |
| Backhoe (NA) | Tractors/Loaders/ Backhoes | Caterpillar 426C Diesel | 0 | 88 | 3 | 0.37 | 0 | 2.74 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.464 | 0.00 | 3.832 | 0.00 | 0.005 | 0.00 |
| Excavator (2) | Excavators | John Deere 350 Diesel | 0 | 271 | 4 (Final) | 0.38 | 18 | 0.26 | 1.06 | 0.05 | 0.20 | 0.009 | 0.04 | 0.132 | 0.54 | 1.448 | 5.92 | 0.005 | 0.02 |
| Screening Plant | Other Construction Equipment | Spyder 514TS Diesel | 0 | 74 | 3 | 0.42 | 9 | 2.74 | 1.69 | 0.09 | 0.06 | 0.192 | 0.12 | 0.505 | 0.31 | 3.899 | 2.40 | 0.005 | 0.00 |
| Extended Loader (for liner) | Tractors/Loaders/ Backhoes | JCB 20TC | 0 | 74 | 3 | 0.37 | 0 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.464 | 0.00 | 3.832 | 0.00 | 0.005 | 0.00 |
| Off-Road Dump/haul truck (3) | Off-Highway Trucks | Caterpillar 740 diesel | 100 | 453 | 4 (Final) | 0.38 | 27 | 0.26 | 2.66 | 0.05 | 0.51 | 0.009 | 0.09 | 0.196 | 2.01 | 2.322 | 23.79 | 0.005 | 0.05 |
| Totals | | | | | | | | | 10.24 | | 1.17 | | 0.45 | | 4,66 | | 56,44 | | 0.12 |

For a typical construction project, it is assumed that highest emissions takes place during the bulk excavation phase - assuming site-specific excavation equipment consisting primarily of two scrapers and a dozer as listed above as Tier 4. Additional equipment listed is support equipment and shall be Tier 3 or higher.

| Table N3 On-Road Vehicles for | Construction Peak Da | y | | | 2023 Calendar Year | r with Aggregate | Model Years | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|-----------|------------|-------------|--------------------|----------------------|--------------------------|---|---|--|--------------------------------------|---|--|--|---|---|--|---|-------|---|-------|---|-------|---|-------------------------------------|---|---|
| | | Vehicle l | Properties | | | | | | | | | | | | | | Emission I | Factors and Calculation | ıs | | | | | | | | |
| On-Road Vehicles | Vehicle Category | Trips/Day | Trip Dist | Miles / Day | Paved Miles / Day | Unpaved Miles/Day | Load Factor ⁵ | Emissions Factor NOx (g/mile) ¹⁰ | Emissions NOx (lbs/day) ⁸ | Emissions Factor ROG (g/mile) ¹⁰ | Emissions ROG (lbs/day) ⁸ | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions PM10 (lbs/day) ⁸ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Tire Wear Emissions PM10 (lbs/day) ⁸ | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | Brake Wear Emissions PM10 (lbs/day) ⁸ | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | | Tire Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | | Brake Wear Emission Factor PM2.5 (g/mile) ¹⁰ | | Emissions Factor CO (g/mile) ¹⁰ | Emissions CO (lbs/day) ⁸ | Emissions Factor SOx (g/mile) ¹⁰ | Emissions SOx (lbs/day) ⁸ |
| Ford Mechanic Truck (DSL) | LHD1 | 1 | 20 | 20 | 8 | 12 | 1 | 3.12 | 0.1 | 2.29E-01 | 0.010 | 3.61E-02 | 0.002 | 1.20E-02 | 0.001 | 7.64E-02 | 0.003 | 3.45E-02 | 0.002 | 0.003 | 0.000 | 0.033 | 0.001 | 9.67E-01 | 0.043 | 5.66E-03 | 5E-03 |
| Ford F450 Flat Bed (DSL) | LHD2 | 1 | 20 | 20 | 8 | 12 | 1 | 2.17 | 0.1 | 1.99E-01 | 0.009 | 3.08E-02 | 0.001 | 1.20E-02 | 0.001 | 8.92E-02 | 0.004 | 2.94E-02 | 0.001 | 0.003 | 0.038 | 0.031 | 0.001 | 8.43E-01 | 0.037 | 6.04E-03 | 3E-04 |
| Water Truck (DSL) | T6 CAIRP heavy | 32 | 8 | 256 | 128 | 64 | 1 | 1.27 | 0.7 | 2.11E-02 | 0.012 | 3.13E-02 | 0.018 | 1.20E-02 | 0.007 | 1.30E-01 | 0.074 | 1.29E-02 | 0.007 | 0.003 | 0.002 | 0.013 | 0.008 | 7.34E-02 | 0.041 | 9.00E-03 | 5E-03 |
| Support Ligh Heavy Duty Trucks (2, DSL) | LHDI | 4 | 18 | 72 | 64 | 8 | 1 | 3.12 | 0.5 | 2.29E-01 | 0.010 | 3.61E-02 | 0.006 | 1.20E-02 | 0.002 | 7.64E-02 | 0.012 | 3.45E-02 | 0.005 | 3.00E-03 | 0.000 | 3.28E-02 | 0.005 | 9.67E-01 | 0.153 | 1.24E-02 | 2E-03 |
| Tractor Trailer Delivery (DSL) | T7 CAIRP | 1 | 20 | 20 | 18 | 2 | 1 | 2.35 | 0.1 | 2.11E-02 | 0.001 | 3.13E-02 | 0.001 | 3.60E-02 | 0.002 | 6.17E-02 | 0.003 | 2.99E-02 | 0.001 | 0.009 | 0.000 | 0.031 | 0.001 | 1.96E-01 | 0.009 | 9.00E-03 | 4E-04 |
| Carpool Vehicles (2, Gas) | LDT1 | 2 | 8 | 16 | 12 | 4 | 1 | 0.07 | 0.0 | 7.13E-01 | 0.025 | 1.67E-03 | 0.000 | 8.00E-03 | 0.000 | 3.68E-02 | 0.001 | 1.53E-03 | 0.000 | 0.002 | 0.000 | 0.016 | 0.001 | 8.61E-01 | 0.030 | 2.97E-03 | 1E-04 |
| Totals | • | | | 404 | 238 | 102 | | | 1.55 | | 0.07 | | 0.03 | | 0.01 | | 0.10 | | 0.02 | | 0.04 | | 0.02 | | 0.31 | | 1E-02 |

Page 1 of 3

Sources: CARB, 2017. California Air Resources Board, The Carl Moyer Porgram Guidelines, 2017 Revisions, Appendix D - Tables for Emissions Reduction and Cost Effectiveness Calculations, Tables D-7 to D-9 for Off-Road Diesel and Non-Mobile Agricultural (Ag) Projects L&A, 2021. Lawrence & Associates, July 2021, Design Basis Report, John Smith Road Landfill Expansion.

CAPCOA, 2017. California Air Pollution Control Officers Association (CAPCOA), version 2017, California Emissions Esimator Model (CalEE MOD), Appendix D, Default Data Tables

ions:

1 Vehicles that best represent items listed in Table D-7 of CARB, 2017.

2 Vehicles and equipment as listed in Table 26 of L&A, 2021.

3 Vehicles horsepower as listed in Table 26 of L&A, 2021.

4 Vehicle ter as listed in Table 26 of L&A, 2021.

5 Load Factor as listed in Table 26 of L&A, 2021.

5 Load Factor as listed in Table D-7 of CARB, 2017.

6 The average working hours. Multiplied by the equipment quantity where more than one piece of equipment is included.

7 Emission factors obtained from Table D-8 of CARB, 2017.

Referenced equation above was used to calculate emissions as listed in CARB, 2017, Appendix C (Cost-Effectiveness Calculation Methodology).

9. Referenced equation above was used to calculate emissions as listed in CARB, 2017, Appendix C (Cost-Effectiveness Calculation Methodology).

10. Values obtained form EMFAC2017 (vl.0.2) Emission Rates for San Benito County.

11. CAPCOA, 2020 Table 3.4 based on Model year rounded to the nearest 5-year increment. Note that Table 3.4 provides emission factors based on a mixture of emissions for PM2.5, CO, and SO2, and is not as precise as the Carl Moyer values for NOx, ROG, PM10.

Table N-3 Fugitive Dust

| Construction Activity | Paved Day Large Haul Truck Distance | Paved Day Support Vehicle Distance ⁶ | Paved Road Const. PM ₁₀ Emissions per Day ³ | Paved Road PM _{2.5} Emissions per Day ³ | Unpaved Day Haul Truck Distance ⁷ | Unpaved Day Supprt Vehicle Distance | | Unpaved Road PM ₁₀ Emissions per day ⁴ | Unpaved Road PM _{2.5} Emissions per yr ⁴ | Total Daily Emissions PM ₁₀ | Total Daily Emissions PM _{2.5} |
|-----------------------|--|--|--|--|--|--|----|--|--|---|--|
| | (VMT/Day) | (VMT/Day) | Pounds | Pounds | (VMT/Day) | (VMT/Day) | % | Pounds | Pounds | (lb/day) | (lb/day) |
| Current & Proposed | 0.00 | 238.00 | 8.21 | 5.09 | 100.00 | 102.00 | 95 | 27.66 | 2.77 | 32.75 | 7.86 |

Notes

1: Average trips from Table K1 x miles on paved or unpaved road

2: Average trips from Table K2 x miles on paved or unpaved road

3: Assuming (Ept truck x VMT truck) + (Ep car x VMT car)

4: Assuming (Eup truck x VMT truck) - (Eup car x VMT car)

5: Assumers regular watering during and/or dust suppressants during dry periods per AP-42 Section 13, Figure 13.2.2-2 Moisture Ratio of 4.25

6: Assumes 10 delivery and employee trips per projecty at Proposed Project mileage

7: Assumes 4.000 cyt/dw (2) cyt/rip = 160 trips and one mile round trip to stockpile

8: Assuming (Eup Off-Road Dump x VMT truck) + (Eup Off-Road Car x VMT car)

John Smith Road Landfill **DEIR Appendix B**

Attachment N Lawrence & Associates

Attachment N

Construction Criteria Pollutant Emission Calculations: On-Road and Off- Road Equipment

Paved Road Emission Factor Equation

```
Ep = [k(sL)^0.91 (W)^1.02 ]x (1-P/4N)
Equation (1) from USEPA, AP-42 Fifth Edition, 2011, Section 13.2.1
```

Where:

Ep = particulate matter factor (having units matching the units of K)

k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.1-1

sL = road surface silt loading (g/m2)

W = average weight (tons) of the vehicles travelling the road

P = number of wet days with at least 0.01 inch or precipitation during the averaging period

N = number of averaging days for period

| Haul Truck Units | Support Units | | Source | |
|------------------|---|--------------|--------------|------------------------------------|
| 0.004 lb/VMT | 0.004 lb/VMT | NA | AP-42 Tab | ble 13.2.1-1 |
| 0.016 lb/VMT | 0.016 lb/VMT | NA | AP-42 Tab | ble 13.2.1-1 |
| 0.3 g/m2 | 0.3 g/m2 | | AP-42 Tab | ole 13.2.1-5 High ADT Road, Summer |
| 60.26 tons | 24.7 tons | NA | Table O2 | |
| 1 days | 1 days | | 1 days | Assume watered surface |
| 1 days | 1 days | | l days | Assume watered surface |
| | | | | |
| 0.021 lb/VMT | 0.009 lb/VMT | | | |
| 0.086 lb/VMT | 0.034 lb/VMT | | | |
| | 0.016 lb/VMT 0.3 g/m2 60.26 tons 1 days 1 days 0.021 lb/VMT | 0.004 lb/VMT | 0.004 lb/VMT | 0.004 lb/VMT |

Unpaved Road Emission Factor

 $E = k * (s/12)^a * (W/3)^b$

Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2

Where:

Eup = size-specific emission factor (lb/VMT) for unpaved surface

k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2

s = surface material silt content (%)

W = mean vehicle weight (tons)

a = industrial road constant from AP-42, Table 13.2.2-2

b = industrial road constant from AP-42, Table 13.2.2-2

| When: | Haul Units | Support Units | Small Units | Source |
|----------------------|--------------|---------------|--------------|---|
| $k_{2.5} =$ | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| k ₁₀ = | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| s = | 6.4 % | 6.4 % | 6.4 % | Per AP-42 Table 13.2.2-1 for landfills, mean or graveled road |
| W = | 60.3 tons | 24.7 tons | 4.4 tons | Table O2 |
| a = | 0.9 | 0.9 | 0.9 | Per AP-42 Table 13.2.2-2 for industrial roads |
| b = | 0.45 | 0.45 | 0.45 | Per AP-42 Table 13.2.2-2 for industrial roads |
| Then: | | | | |
| Eup2.5 = | 0.329 lb/VMT | 0.220 lb/VMT | 0.101 lb/VMT | |
| E _{UP} 10 = | 3.286 lb/VMT | 2.201 lb/VMT | 1.012 lb/VMT | |
| | | | | |

Table N4 Vehicle Weight Assumptions (assumes full load in and empty out)

| Category | Type | Percent | GVW, lb | NVW, lb | Average, lb | Av Tons |
|------------------------------------|----------------------|---------|---------|---------|-------------|---------|
| Small Vehicle | Ford F250 Gross Weig | ht | 9,900 | 7,700 | 8,800 | 4.4 |
| | | | | | | |
| Commercial Vehicle | | | | | | |
| Average of: | Miles | | | | | |
| Ford Mechanic Truck (DSL) | 20 | 5% | 14,000 | 8,600 | 11,300 | 5.65 |
| Ford F450 Flat Bed (DSL) | 20 | 5% | 14,000 | 8,600 | 11,300 | 5.65 |
| Water Truck (DSL), 4,000 gal | 256 | 63% | 63,000 | 29500 | 46,250 | 23.125 |
| Support Ligh Heavy Duty Trucks (2, | | | | | | |
| DSL) | 72 | 18% | 14,000 | 8,600 | 11,300 | 5.65 |
| Tractor Trailer Delivery (DSL) | 20 | 5% | 75,000 | 33,000 | 54,000 | 37.5 |
| Carpool Vehicles (2, Gas) | 16 | 4% | 51,000 | 31,000 | 41,000 | 25.5 |
| Total | 404 | | | | | |
| | Weighted Average: | | | | | 24.7 |
| Off Road Dump | CAT 740 | | 162,399 | 78,632 | 120,516 | 60 |

GVW: Gross vehicle weight including load NVWL Net vehicle weight or :"curb weight" without load

US. EPA, Fifth Edition AP-42, Section 13.2.

CalEEMOD 2020.4.0, Appendix A Page 8

 $EF_{PM15}=0.051~x~(S)^{2.0},$ and $EF_{PM10}=EF_{PM15}~x~F_{PM10}$ EF_{TSP} - 0.4 x (S)^{2.5}, and $EF_{PM2.5}$ = EF_{TSP} x $F_{PM2.5}$

 $\begin{aligned} & \text{Where:} \\ & EF = \text{ emissions factor (lb/VMT)} \\ & S = \text{ mean vehicle speed (mph)} \\ & F_{PM2.5} = PM_{2.5} \text{ scaling factor.} \\ & F_{PM10} = PM_{10} \text{ scaling factor.} \end{aligned}$

AP-42 Default = AP-42 Default = Rubber -Tired Dozers AP-42 Default =

1.543 lb/VMT 0.227 lb/vmt 12.34 Loader 8 hr/day for screening 2.27 Loader 8 hr/day for screening EFPM10 = EFPM2.5 =

Buldozers CalEEMOD CalEEMOD 2020.4.0, Appendix A Page 8

$$EF_{PM15} = (C_{PM15}\,x\,s^{1.5})\,/\,M^{1.4}\,$$
 , and $EF_{PM10} = EF_{PM15}\,x\,$ F_{PM10}

 $\mathrm{EF_{TSP}}$ - (C $_{TSP}$ x s $^{1.2}$)/ $\mathrm{M}^{1.3}$, and EF $_{PM2.5}$ = EF_{TSP} x $\mathrm{F}_{PM2.5}$

 $\label{eq:where-constraints} Where: $$ FF = cmissions factor (lb/hr)$$ $C = Coefficcient used by AP-42$$ s = Material silt content (%)$$ $M = Matrial moisturie content (%)$$ $F_{PM2.5} = PM_{3c}$, scaling factor. \$AP-42 default is 0.031\$\$ \$F_{PM10} = PM_{10} scaling factor. \$AP-42 default is 0.6 $\begin{aligned} \text{Per AP-42 defaults for Overburden} \\ \text{C_{TSP}= 5.7} \\ \text{$s=6.90} \qquad \text{AP} \\ \text{$M=7.90} \qquad \text{AP} \end{aligned}$ AP-42 Baseline AP-42 Baseline $F_{PM2.5} = 0.105$ $F_{PM10} = 0.75$

18 13.55 2 dozers from above 18 7.45 2 dozers from abive 0.753 lb/hr x hr/day 0.414 lb/hr x hr/day

John Smith Road Landfill **DEIR Appendix B**

Attachment N Page 2 of 3 Lawrence & Associates

Attachment N

Construction Criteria Pollutant Emission Calculations: On-Road and Off- Road Equipment

Truck Loading
From CalEEMod Appendix A and AP-42 Section 13.2.4

 $EF_D = k \times (0.0032) \times ((U/5)^{1.3} / (M/2)^{1.4})$

Per AP-42 defaults for Overburden

Where:

EF = emissionbs factor (lb/ton)

k = Particle size multiplier

U = mean wind speed (mph)

M = Material nmoisture content $PM_{10} = 0.35$ $PM_{2.5} = 0.053$ M = 12.00 AP42 Table 13.2.4-1 clay/dirt mix

Assume:

U =

Load size =

Fluff factor =

Banked density =

Production =

Production =

Screening Production =

Screening Production = 6.7 mph based on site sprecifc wind data; Mode 30 CY loose, 1.3 CY loose (Y banked 1.6875 6½, in place 6,000 cy/day 10,125 t/day 500 cy/day 843.75 t/day

 $\begin{array}{l} EF_{PM10} = \\ EF_{PM2.5} = \end{array}$ 0.0001 lb/ton x production = 2.81 lb/dy 0.0000 lb/ton x production = 0.43 lb/dy Assuming 2 x for loading and unloading + Screening

While there is no specific screen associated with asphalt paving emissions, CalEEMod estimates VOC off-gassing emissions associated with asphalt paving of parking lots using the following equation: Source CalEEMod Users Manual, 2020, Page 18

 $E_{AP} = EF_{AP} \times A_{Parking}$

Where: E = emissions (lb) EF = emission factor (lb/acre). The SMAQMD default emission factor is 2.62 lb/acre.16 A = area of the parking lot (acre)

$$\begin{split} E_{AP} = \\ Acres of New Pavement \\ Das of Construction = \\ E_{AP}d = \end{split}$$
9.17 lb. VOC /acre 3.5 Acres 2 4.585 lb. VOC /day

John Smith Road Landfill **DEIR Appendix B**

Attachment N Lawrence & Associates Page 3 of 3

ATTACHMENT 01

Emissions Calculations for Entrance Queue Idling and Along John Smith Road

Table O1 1 On-Road Vehicles Idling Emissions Summary

| Emissions Source | Daily Total NOx Emissions (lbs/day) | Daily Total ROG Emissions (lbs/day) | Daily Total PM ₁₀ Emissions (lbs/day) | Daily Total PM _{2.5} Emissions (lbs/day) | Daily Total DPM Emissions (lbs/day) | Daily Total CO Emissions (lbs/day) | Daily Total SO ₂ Emissions (lbs/day) |
|-------------------|---|--|--|---|---|--|---|
| Idling Unadjusted | 1.05 | 0.104 | 0.002 | 0.001 | 1.123E-04 | 1.446 | 0.001 |

Note 1: Assumes 100% of NOx is N₂O 2: Assumes 8% of PM_{2.5} from diesels is DPM 3: Happens once per year

Table O1.2A On-Road Vehicles Time in Road Section (Peak) Summary

| Emissions Source | Daily Total NOx Emissions (lbs/day) | Daily Total ROG Emissions (lbs/day) | Daily Total PM ₁₀ Emissions (lbs/day) | Daily Total PM _{2.5} Emissions (lbs/day) | Daily Total DPM Emissions (lbs/day) | Daily Total CO Emissions (lbs/day) | Daily Total SO ₂ Emissions (lbs/day) |
|----------------------------|---|--|--|---|---|--|---|
| Peak Traffic Day Baseline | 2.46 | 0.21 | 25.90 | 6.43 | 0.0009 | 5.75 | 0.05 |
| Peak Tonnage Day Baseline | 3.46 | 0.15 | 30.50 | 7.54 | 0.0026 | 2.88 | 0.03 |
| Average Day - Baseline | 2.89 | 0.15 | 23.64 | 5.85 | 0.0015 | 3.20 | 0.01 |
| Peak Traffic Day - Project | 2.30 | 0.30 | 31.99 | 7.93 | 0.0007 | 5.58 | 0.01 |
| Peak Tonnage Day - Project | 4.26 | 0.13 | 51.72 | 12.76 | 0.0032 | 2.81 | 0.02 |
| Average Day - Project | 1.72 | 0.03 | 34.82 | 8.59 | 0.0019 | 3.75 | 0.02 |

Note 1: Assumes 100% of NOx is N₂O 2: Assumes 8% of PM₂₅ from diesels is DPM 3. Assumes 1.81 miles each way.

| Table 01.2B Long-Term DPM | Average | Long
IDLING EMISSIONS

| Idling Area Length | 865.00 | ft B | ehind Gate | |
|--------------------------|---------|------------------|-------------|-------------------------|
| Vehicle Type | Percent | Quan | Length (ft) | Length per Type (ft) |
| Out of County Commercial | 4.88% | 1.00 | 85.00 | 85.00 |
| In County Commercial Dsl | 1.41% | 0.00 | 30.00 | 0.00 |
| In County Commercial CNG | 0.49% | 0.00 | 30.00 | 0.00 |
| In-County Residential | 93.21% | 25.00 | 30.00 | 750.00 |
| | | Waishtad Averson | 22.7 | 935.0 |

Table O1.3 On-Road Vehicles Idling Time
Site Propertie Emissions PM2.5 (lbs/day)⁷ LHD1 8.0 0.449 0.655 0.000 0.000 3.742 0.001 2.391 0.125

EMISSIONS ALONG JOHN SMITH ROAD

| | Site Properties | | | | | | | | | | | | | | Emiss | ion Factors and | Calculations (RI | JNEX) | | | | | | | | | | | _ | |
|--------------------------------------|-----------------|---------------|--|--------------------------|--|--|--|--|--|--|--|--|---|-----------|-------|-----------------|--|-------------------|---|---|--|-----------|---|-----------|--|-----------|---------------------------|--------|-------|------|
| On-Road Vehicles | Category | Waste Origin | Miles on John Smith Road (Both Ways) | Load Factor ⁵ | Emissions Factor NOx (g/mile) ¹⁰ | Emissions NOx(lbs/day) ⁸ | Emissions Factor ROG (g/mile) ¹⁰ | Emissions ROG(lbs/day) ⁸ | Exhaust Emissions Factor TOG (g/mile) ¹⁰ | Exhaust Emissions TOG (lbs/day) ⁸ | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions PM10 (lbs/day) ⁸ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Emissions | | Emissions | Fugitive Dust PM10 Emissions Factor (lb/mile) | PM10 Emissions | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | Exhaust Emissions PM2.5 (lbs/day) ⁸ | Tire Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Emissions | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Emissions | Fugitive Dust PM2.5 Emissions Factor (lb/mile) | Emissions | Emissions Factor CO En | | | |
| Out of County Commercial Vehicles | T7 CAIRP | Out of County | 98 | 1 | 3.23 | 0.697 | 0.072 | 1.55E-02 | 0.082 | 2E-02 | 0.050 | 1E-02 | 0.036 | 8E-03 | 0.062 | 1E-02 | 0.069 | 7E+00 | 0.048 | 1E-02 | 0.009 | 2E-03 | 0.026 | 6E-03 | 0.017 | 2E+00 | 0.331 | 7E-02 | 0.013 | 3E |
| In-County Commercial Dsl | T7 SWCV | In County | 24 | 1 | 5.67 | 0.301 | 0.019 | 1.02E-03 | 0.022 | 1E-03 | 0.050 | 3E-03 | 0.062 | 3E-03 | 0.062 | 3E-03 | 0.052 | 1E+00 | 0.021 | 1E-03 | 0.009 | 5E-04 | 0.026 | 1E-03 | 0.013 | 3E-01 | 0.058 | 3E-03 | 0.035 | 2E- |
| In-County Commercial CNG | T7 SWCV | In County | 8 | 1 | 0.31 | 0.006 | 0.043 | 8.11E-04 | 3.103 | 6E-02 | 0.003 | 5E-05 | 0.036 | 7E-04 | 0.062 | 1E-03 | 0.052 | 4E-01 | 0.003 | 5E-05 | 0.009 | 2E-04 | 0.026 | 5E-04 | 0.013 | 1E-01 | 11.219 | 2E-01 | 0.000 | 0E+ |
| n County Residential / Self Haul | LHD1 | In County | 1567 | 1 | 0.42 | 1.460 | 0.084 | 2.90E-01 | 0.122 | 4E-01 | 0.003 | 1E-02 | 0.008 | 3E-02 | 0.089 | 3E-01 | 0.011 | 1.70E+01 | 0.003 | 9E-03 | 0.002 | 7E-03 | 0.038 | 1E-01 | 0.003 | 4E+00 | 1.582 | 5E+00 | 0.012 | 4E- |
| Totals | | | 1698 | | | 2 464 | | 0.3074 | | 0.5000 | | 0.0236 | | 0.0394 | | 0.3259 | | 25.51 | | 0.0207 | | 0.0095 | | 0.1397 | | 6.26 | | 5.7493 | | 0.04 |

| Table O1.5 On-Road Vehicle | s Time in Road | Section (Basel | ine Peak Tonnag | ge) | Length of Road An | alyzed: | 3.62 | miles | Based on 2020 Ca | lendar Year, Aggregi | ate Model Year, An | nual, Aggregate | Speed | | | | | | | | | | | | | | | | | |
|--------------------------------------|-----------------|----------------|--|--------------------------|--|--|--|--|--|----------------------|--|--|---|-----------|-------|-------------------|--|-------------------|---|-----------|--|-----------|---|--------|--|---------------------|-----------|--------------|-------|--------|
| | Site Properties | | | | | | | | | | | | | | Emiss | ion Factors and | d Calculations (RU | UNEX) | | | | | | | | | | | | |
| On-Road Vehicles | Category | Waste Origin | Miles on John Smith Road (Both Ways) | Load Factor ⁵ | Emissions Factor NOx (g/mile) ¹⁰ | Emissions NOx(lbs/day) ⁸ | Emissions Factor ROG (g/mile) ¹⁰ | Emissions ROG(lbs/day) ⁸ | Exhaust Emissions Factor TOG (g/mile) ¹⁰ | | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions PM10 (lbs/day) ⁸ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Emissions | | Emissions PM10 | Fugitive Dust PM10 Emissions Factor (lb/mile) | PM10 Emissions | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | Emissions | Tire Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Emissions | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | | Fugitive Dust PM2.5 Emissions Factor (lb/mile) | Emissions Factor | Emissions | Emissions CO | | |
| Out of County Commercial Vehicles | T7 CAIRP | Out of County | 264 | 1 | 3.23 | 1 884 | 0.07 | 4.19E-02 | 0.082 | 5F-02 | 0.050 | 3F_02 | 0.036 | 2F_02 | 0.062 | 4F.02 | 0.069 | 2E+01 | 0.048 | 3E-02 | 0.009 | 5E-03 | 0.026 | 2F_02 | 0.017 | 4F+00 | 0.331 | 2F-01 | 0.013 | 8F-03 |
| In-County Commercial Dsl | T7 SWCV | In County | 83 | 1 | 5.67 | 1.038 | 0.02 | 3.51E-03 | 0.022 | 4E-03 | 0.050 | 9E-03 | 0.062 | 1E-02 | 0.062 | 1E-02 | 0.052 | 4E+00 | 0.021 | 4E-03 | 0.009 | 2E-03 | 0.026 | 5E-03 | 0.013 | 1E+00 | 0.058 | 1E-02 | 0.035 | 6E-03 |
| In-County Commercial CNG | T7 SWCV | In County | 29 | 1 | 0.31 | 0.020 | 0.04 | 2.79E-03 | 3.103 | 2E-01 | 0.003 | 2E-04 | 0.036 | 2E-03 | 0.062 | 4E-03 | 0.052 | 2E+00 | 0.003 | 2E-04 | 0.009 | 6E-04 | 0.026 | 2E-03 | 0.013 | 4E-01 | 11.219 | 7E-01 | 0.000 | 0E+00 |
| In County Residential / Self Haul | LHD1 | In County | 561 | 1 | 0.42 | 0.523 | 0.08 | 1.04E-01 | 0.122 | 2E-01 | 0.003 | 4E-03 | 0.008 | 1E-02 | 0.089 | 1E-01 | 0.011 | 6.10E+00 | 0.003 | 3E-03 | 0.002 | 2E-03 | 0.038 | 5E-02 | 0.003 | 1E+00 | 1.582 | 2E+00 | 0.012 | 1E-02 |
| Totals | | | 938 | | | 3.465 | | 0.1521 | | 0.4028 | | 0.0424 | | 0.0445 | | 0.1616 | | 30.25 | | 0.0354 | | 0.0099 | | 0.0692 | | 7.43 | | 2.8816 | | 0.0286 |
| | | | | | | | | | | | Sum of PM ₁₀ | 30.49 | 9 | | | | | | DPM | 0.0026 | Sum of PM2.5 | 7.540 | | | | | | | | |

Attachment O1

Lawrence & Associates John Smith Road Landfill DEIR Appendix B 1 of 3

| Table O1.6 On-Road Vehicle | es Time in Road | Section (Baseli | ine Average) | | Length of Road Ana | ilyzed: | 3.62 | miles | Based on 2020 Ca | lendar Year, Aggreg | ate Model Year, An | nual, Aggregate S | peed | | | | | | | | | | | | | | | | | |
|-----------------------------------|-----------------|-----------------|------------------|--------------------------|-------------------------|---------------------------|-------------------------|---------------|----------------------|------------------------|-------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-----------------------|-----------------------|--------------------------------|------------------------|------------------------|------------------------|-------------------------|------------------------|-------------------------------------|----------|------------|------------------------|------------|------------------------|
| | Site Properties | | | | | | | | | | | | | | Emissi | on Factors and | Calculations (RU | UNEX) | | | | | | | | | | | | |
| | | | Mile on John | | | | | | Exhaust Emissions | Exhaust | Exhaust | Exhaust Emissions | Tire Wear Emissions | Tire Wear Emissions | Brake Wear Emissions | Brake Wear Emissions | Fugitive Dust PM10 | Fugitive Dust PM10 | Exhaust Emissions Factor | Exhaust Emissions | Tire Wear Emissions | Tire Wear Emissions | Brake Wear Emissions | Brake Emissions | Fugitive Dust PM2.5 Emissions | | Emissions | | Emissions | Emissions |
| | | | Smith Road (Both | | Emissions Factor | Emissions | Emissions Factor | Emissions | Factor TOG | Emissions TOG | Emissions Factor | PM10 | Factor PM10 | PM10 | Factor PM10 | PM10 | Emissions | Emissions | PM2.5 | PM2.5 | Factor PM2.5 | PM2.5 | Factor PM2.5 | PM2.5 | Factor | Factor | Factor CO | Emissions CO | Factor SOx | x SOx |
| On-Road Vehicles | Category | Waste Origin | Ways) | Load Factor ⁵ | NOx (g/mile)10 | NOx(lbs/day) ⁸ | ROG (g/mile)10 | ROG(lbs/day)8 | (g/mile)10 | (lbs/day) ⁸ | PM10 (g/mile)10 | (lbs/day) ⁸ | (g/mile)10 | (lbs/day) ⁸ | (g/mile)10 | (lbs/day) ⁸ | Factor (lb/mile) | (lb/day) | (g/mile)10 | (lbs/day) ⁸ | (g/mile)10 | (lbs/day) ⁸ | (g/mile)10 | (lbs/day) ⁸ | (lb/mile) | (lb/day) | (g/mile)10 | (lbs/day) ⁸ | (g/mile)10 | (lbs/day) ⁸ |
| Out of County Commercial | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | |
| Vehicles | T7 CAIRP | Out of County | 130 | 1 | 3.23 | 0.929 | 0.07 | 2.07E-02 | 0.082 | 2E-02 | 0.050 | 1E-02 | 0.036 | 1E-02 | 0.062 | 2E-02 | 0.069 | 9E+00 | 0.048 | 1E-02 | 0.009 | 3E-03 | 0.026 | 8E-03 | 0.017 | 2E+00 | 0.331 | 1E-01 | 0.013 | 4E-03 |
| In-County Commercial Dsl | T7 SWCV | In County | 104 | 1 | 5.67 | 1.305 | 0.02 | 4.41E-03 | 0.022 | 5E-03 | 0.050 | 1E-02 | 0.062 | 1E-02 | 0.062 | 1E-02 | 0.052 | 5E+00 | 0.021 | 5E-03 | 0.009 | 2E-03 | 0.026 | 6E-03 | 0.013 | 1E+00 | 0.058 | 1E-02 | 0.035 | 3E-03 |
| In-County Commercial CNG | T7 SWCV | In County | 29 | 1 | 0.31 | 0.020 | 0.04 | 2.79E-03 | 3.103 | 2E-01 | 0.003 | 2E-04 | 0.036 | 2E-03 | 0.062 | 4E-03 | 0.052 | 2E+00 | 0.003 | 2E-04 | 0.009 | 6E-04 | 0.026 | 2E-03 | 0.013 | 4E-01 | 11.219 | 7E-01 | 0.000 | 2E-03 |
| In County Residential / Self Haul | LHD1 | In County | 681 | 1 | 0.42 | 0.634 | 0.08 | 1.26E-01 | 0.122 | 2E-01 | 0.003 | 4E-03 | 0.008 | 1E-02 | 0.089 | 1E-01 | 0.011 | 7.40E+00 | 0.003 | 4E-03 | 0.002 | 3E-03 | 0.038 | 6E-02 | 0.003 | 2E+00 | 1.582 | 2E+00 | 0.012 | 0E+00 |
| Totals | | | 945 | | | 2.889 | | 0.1538 | | 0.4119 | | 0.0306 | | 0.0389 | | 0.1697 | | 23.40 | | 0.0228 | | 0.0082 | | 0.0727 | | 5.74 | | 3.2031 | | 0.0091 |
| | | | | | | | | | | | Sum of PM ₁₀ | 23.641 | | | | | | | DPM | 0.0015 | Sum of PM2.5 | 5.848 | | | | | | | | |

| | | | | | | | | | | | Sum of PM ₁₀ | 23.64 | l | | | | | | DPM | 0.0015 | Sum of PM2.5 | 5.84 | | | | | | | | |
|--------------------------------------|-----------------|----------------|---|--------------------------|--|--|--|--|--|--|--|--|---|-----------|--------|-------------------|--|-------------------|---|---|--|-----------|---|-----------|--|---------------------|---|--------------|---|--------|
| Table O1.7 On-Road Vehicle | es Time in Road | Section (Proje | ect Peak Trips) | | Length of Road Ana | alyzed: | 3.62 | miles | Based on 2023 Co | alendar Year, Aggreg | ate Model Year, Ann | ual, Aggregate S | peed | | | | | | | | | | | | | | | | | |
| | Site Properties | | | | | | | | | | | | | | Emissi | ion Factors an | d Calculations (R) | UNEX) | | | | | | | | | | | | |
| On-Road Vehicles | Category | Waste Origin | Mile on John Smith Road (Both Ways) | Load Factor ⁵ | Emissions Factor NOx (g/mile) ¹⁰ | Emissions NOx(lbs/day) ⁸ | Emissions Factor ROG (g/mile) ¹⁰ | Emissions ROG(lbs/day) ⁸ | Exhaust Emissions Factor TOG (g/mile) ¹⁰ | Exhaust Emissions TOG (lbs/day) ⁸ | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions PM10 (lbs/day) ⁸ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Emissions | | Emissions PM10 | Fugitive Dust PM10 Emissions Factor (lb/mile) | PM10 Emissions | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | Exhaust Emissions PM2.5 (lbs/day) ⁸ | Tire Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Emissions | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Emissions | Fugitive Dust PM2.5 Emissions Factor (lb/mile) | Emissions Factor | Emissions Factor CO (g/mile) ¹⁰ | Emissions CO | Emissions Factor SOx (g/mile) ¹⁰ | SOx |
| Out of County Commercial Vehicles | T7 CAIRP | Out of County | 123 | 1 | 2.67 | 0.726 | 0.024 | 6.53E-03 | 0.024 | 7E-03 | 0.031 | 8E-03 | 0.036 | 1E-02 | 0.062 | 2E-02 | 0.069 | 9E+00 | 0.030 | 8E-03 | 0.009 | 2E-03 | 0.026 | 7E-03 | 0.017 | 2E+00 | 0.196 | 5E-02 | 0.012 | 3E-03 |
| In-County Commercial Dsl | T7 SWCV | In County | 29 | - 1 | 2.67 | 0.174 | 0.022 | 1.44E-03 | 0.025 | 2E-03 | 0.019 | 1E-03 | 0.036 | 2E-03 | 0.062 | 4E-03 | 0.052 | 2E+00 | 0.018 | 1E-03 | 0.009 | 6E-04 | 0.026 | 2E-03 | 0.013 | 4E-01 | 0.063 | 4E-03 | 0.032 | 2E-03 |
| In-County Commercial CNG | T7 SWCV | In County | 10 | 1 | 0.31 | 0.007 | 0.043 | 9.92E-04 | 3.103 | 7E-02 | 0.003 | 6E-05 | 0.036 | 8E-04 | 0.062 | 1E-03 | 0.052 | 5E-01 | 0.003 | 6E-05 | 0.009 | 2E-04 | 0.026 | 6E-04 | 0.013 | 1E-01 | 11.219 | 3E-01 | 0.000 | 0E+00 |
| In County Residential / Self Haul | LHD1 | In County | 1929 | 1 | 0.33 | 1.397 | 0.067 | 2.86E-01 | 0.098 | 4E-01 | 0.003 | 1E-02 | 0.008 | 3E-02 | 0.076 | 3E-01 | 0.011 | 2.10E+01 | 0.002 | 1E-02 | 0.002 | 9E-03 | 0.033 | 1E-01 | 0.003 | 5E+00 | 1.238 | 5E+00 | 0.001 | 5E-03 |
| Totals | | | 2092 | | | 2.303 | | 0.2953 | | 0.4969 | | 0.0207 | | 0.0470 | | 0.3473 | | 31.58 | | 0.0194 | | 0.0117 | | 0.1489 | | 7.75 | | 5.5811 | | 0.0106 |
| | | | | | | | | | | | Sum of PM10 | 31.99 | | | | | | | DPM | 0.0007 | Sum of PM2.5 | 7.93 | 1 | | | | | | | |

| Table O1.8 On-Road Vehicle | s Time in Road | Section (Proje | ct Peak Tonnage |) | Length of Road Ana | dyzed: | 3.62 | miles | Based on 2023 Ca | lendar Year, Aggreg | ate Model Year, Ann | ual, Aggregate S | peed | | | | | | | | | | | | | | | | | |
|-----------------------------------|-----------------|----------------|---|--------------------------|--|--|--|--|--|--|--|--|---|-----------|--|----------------|--|--|---|---|--|-----------|---|---|--|-----------|--|-------------------------------------|-------|--|
| | Site Properties | | | | | | | | | | | | | | Emiss | ion Factors an | d Calculations (R) | UNEX) | | | | | | | | | | | | |
| On-Road Vehicles | Category | Waste Origin | Mile on John Smith Road (Both Ways) | Load Factor ⁵ | Emissions Factor NOx (g/mile) ¹⁰ | Emissions NOx(lbs/day) ⁸ | Emissions Factor ROG (g/mile) ¹⁰ | Emissions ROG(lbs/day) ⁵ | Exhaust Emissions Factor TOG (g/mile) ¹⁰ | Exhaust Emissions TOG (lbs/day) ⁸ | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions PM10 (lbs/day) ⁸ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Emissions | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | Emissions | Fugitive Dust PM10 Emissions Factor (lb/mile) | Fugitive Dust PM10 Emissions (lb/day) | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | Exhaust Emissions PM2.5 (lbs/day) ⁸ | Tire Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Emissions | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Brake Emissions PM2.5 (lbs/day) ⁸ | Fugitive Dust PM2.5 Emissions Factor (lb/mile) | Emissions | Emissions Factor CO (g/mile) ¹⁰ | Emissions CO (lbs/day) ⁸ | | Emissions s SOx (lbs/day) ⁸ |
| Out of County Commercial | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicles | T7 CAIRP | Out of County | 547 | 1 | 2.67 | 3.222 | 0.024 | 2.90E-02 | 0.024 | 3E-02 | 0.031 | 4E-02 | 0.036 | 4E-02 | 0.062 | 7E-02 | 0.069 | 4E+01 | 0.030 | 4E-02 | 0.009 | 1E-02 | 0.026 | 3E-02 | 2E-02 | 9E+00 | 0.196 | 2E-01 | 0.012 | 1E-02 |
| In-County Commercial Dsl | T7 SWCV | In County | 94 | 1 | 2.67 | 0.553 | 0.022 | 4.58E-03 | 0.025 | 5E-03 | 0.019 | 4E-03 | 0.036 | 7E-03 | 0.062 | 1E-02 | 0.052 | 5E+00 | 0.018 | 4E-03 | 0.009 | 2E-03 | 0.026 | 5E-03 | 1E-02 | 1E+00 | 0.063 | 1E-02 | 0.032 | 7E-03 |
| In-County Commercial CNG | T7 SWCV | In County | 33 | 1 | 0.31 | 0.023 | 0.043 | 3.15E-03 | 3.103 | 2E-01 | 0.003 | 2E-04 | 0.036 | 3E-03 | 0.062 | 4E-03 | 0.052 | 2E+00 | 0.003 | 2E-04 | 0.009 | 7E-04 | 0.026 | 2E-03 | 1E-02 | 4E-01 | 11.219 | 8E-01 | 0.000 | 0E+00 |
| In County Residential / Self Haul | LHD1 | In County | 641 | 1 | 0.33 | 0.464 | 0.067 | 9.51E-02 | 0.098 | 1E-01 | 0.003 | 4E-03 | 0.008 | 1E-02 | 0.076 | 1E-01 | 0.011 | 6.97E+00 | 0.002 | 3E-03 | 0.002 | 3E-03 | 0.033 | 5E-02 | 2.67E-03 | 2E+00 | 1.238 | 2E+00 | 0.001 | 2E-03 |
| Totals | | | 1314 | | | 4.261 | | 0.1318 | | 0.3983 | | 0.0455 | | 0.0647 | | 0.1996 | | 51.41 | | 0.0434 | | 0.0162 | | 0.0856 | | 12.62 | | 2.8138 | | 0.0233 |
| | | | | | | | | | | | Sum of PM10 | 51.721 | | | | | | | DPM | 0.003 | Sum of PM2.5 | 12.764 | | | | | | | | |

| | Site Properties | | | | | | | | | | | | | | Emis | sion Factors an | d Calculations (R) | UNEX) | | | _ | | _ | | | | | | _ | |
|--------------------------------------|-----------------|---------------|---|--------------------------|--|-------|--|--|--|--|--|--|---|-------------------|--|-------------------|--|-------------------|-----------------|---|--|-----------|---|-----------|--|---------------------|--|--|-----------|-------|
| On-Road Vehicles | Category | Waste Origin | Mile on John Smith Road (Both Ways) | Load Factor ⁵ | Emissions Factor NOx (g/mile) ¹⁰ | | Emissions Factor ROG (g/mile) ¹⁰ | Emissions ROG(lbs/day) ⁸ | Exhaust Emissions Factor TOG (g/mile) ¹⁰ | Exhaust Emissions TOG (lbs/day) ⁸ | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions PM10 (lbs/day) ⁸ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Emissions PM10 | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | Emissions PM10 | Fugitive Dust PM10 Emissions Factor (lb/mile) | PM10 Emissions | Factor PM2.5 | Exhaust Emissions PM2.5 (lbs/day) ⁸ | Tire Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Emissions | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Emissions | Fugitive Dust PM2.5 Emissions Factor (lb/mile) | Emissions Factor | Emissions Factor CO (g/mile) ¹⁰ | Emissions CO (lbs/day) ⁸ | Factor SO | |
| Out of County Commercial Vehicles | T7 CAIRP | Out of County | 340 | 1 | 2.06 | 1.543 | 0.020 | 1.50E-02 | 0.028 | 2E-02 | 0.028 | 2E-02 | 0.036 | 3E-02 | 0.062 | 5E-02 | 0.069 | 2E+01 | 0.027 | 2E-02 | 0.009 | 7E-03 | 0.026 | 2E-02 | 2E-02 | 6E+00 | 0.185 | 1E-01 | 0.009 | 7E-03 |
| In-County Commercial Dsl | T7 SWCV | In County | 104 | 1 | 0.46 | 0.107 | 0.024 | 5.61E-03 | 0.025 | 6E-03 | 0.018 | 4E-03 | 0.036 | 8E-03 | 0.062 | 1E-02 | 0.052 | 5E+00 | 0.017 | 4E-03 | 0.009 | 2E-03 | 0.026 | 6E-03 | 1E-02 | 1E+00 | 11.219 | 3E+00 | 0.025 | 6E-03 |
| In-County Commercial CNG | T7 SWCV | In County | 37 | 1 | 0.31 | 0.025 | 0.043 | 3.52E-03 | 3.103 | 3E-01 | 0.003 | 2E-04 | 0.036 | 3E-03 | 0.062 | 5E-03 | 0.052 | 2E+00 | 0.003 | 2E-04 | 0.009 | 7E-04 | 0.026 | 2E-03 | 1E-02 | 5E-01 | 11.219 | 9E-01 | 0.000 | 0E+00 |
| In County Residential / Self Haul | LHD1 | In County | 340 | 1 | 0.06 | 0.042 | 0.007 | 5.02E-03 0.0291 | 0.010 | 7E-03 0.2850 | 0.002 | 2E-03 0.0269 | 0.008 | 6E-03 0.0442 | 0.076 | 6E-02 0.1229 | 0.011 | 3.70E+00 34.62 | 0.002 | 2E-03 0.0257 | 0.002 | 2E-03 | 0.033 | 2E-02 | 2.67E-03 | 9E-01 | 0.158 | 1E-01 3.7497 | 0.008 | 6E-03 |

Notes: Citations:

4. Assumes full line of vehicles 14 of the day or 9 hr x 0.25

5. Load Factor as listed in Table D-7 of Appendix D from Tables for Entission Reduction and Cost-Effectiveness Calculations; or 1 when data unavailable.

7. Number of Vehicles 1, Notes Isling x Load Factor x Emissions Factor converted to 1bc.

8. Tips x 1 milex x Load Factor x Emissions Factor converted to 1bc.

10. Strips x 1 milex x Load Factor x Emissions Factor converted to 1bc.

11. Converse the form 1bD (CCD1) (v. 10.2 1) (v. 10.2

Emission factors for Paved Surfaces on Public Roads

$$\begin{aligned} Eext &= [k(sL)^{0.91}(W)^{1.02}]x \; (1 - \frac{P}{4N}) \\ &\text{From CalEEMod 2016-3-2 User's Guide} \end{aligned}$$

Where:

The "periodistic uniture finite flower flowing unitor matching the males of K)

The "periodistic multiplies for periodistic range and units of interest from AP-42 Table 13.2.1-1

Le "nost surface" to looking (gin.)

W = Average weight from of the vehicles traveling the road

P = number of vereigning days with a less of 10 inch preceipitation shring the averaging period

N = number of loveraging days for period

Assume (LP40-91) The only high for dise

| When: Out of County Units County Commercial Units | In County Self |
|--|----------------|
| | |
| k _{2.5} = 0.00054 lb/VMT 0.00054 lb/VMT | 0.00054 lb/VMT |
| k ₁₀ = 0.0022 lb/VMT 0.0022 lb/VMT | 0.0022 lb/VMT |
| <5,000 tpd = 1.1 g/m2 1.1 g/m2 | 1.1 g/m2 |
| >5,000 tpd 0.1 0.1 | 0.1 |
| W = 27.00 tons 20.5 tons | 4.4 tons |
| High Use P = 0 days 0 days | 0 days |
| N = 1 days 1 days | 1 days |
| :ow Use P = 0 days 0 days | 0 days |
| Then: | |
| ligh Use Ep _{2.5} = 0.002 lb/VMT 0.001 lb/VMT | 0.000 lb/VMT |
| High Use Ep. 0.008 lb/VMT 0.006 lb/VMT | 0.001 lb/VMT |
| ow Use Ep. 5 = 0.017 lb/VMT 0.013 lb/VMT | 0.003 lb/VMT |
| Low Use Ep = 0.069 lb/VMT 0.052 lb/VMT | 0.011 lb/VMT |

Source
AP-42 Table 13.2.1-1
AP-42 Table 13.2.1-2 (10/02 version), = 0.1 or high ADT road (>5000 tpd or 3.5 timin) and 0.4 for low ADT road

Table O2 Assume Dry Surface on peak day

Table L9 - Table O2 Peak Traffic Day Vehicle Weight Assumptions (assumes full load in and empty out)

| Category | Type | GVW, Ib | NVW, Ib | Average, lb | Av Tons |
|--------------------------|-------------------|---------|---------|-------------|---------|
| Self-Haul Residential | Ford F250 Gross W | 9,900 | 7,700 | 8,800 | 4.4 |
| In County Commercial | Garbage Truck | 51,000 | | 41,000 | 20.5 |
| Out of County Commercial | Transfer Truck | 75,000 | 33,000 | 54,000 | 27 |

John Smith Road Landfill DEIR Appendix B

Attachment O1

Lawrence & Associates

3 of 3

JSRL

Queuing Model

- 1. This queuing model uses hourly traffic totals obtained from a survey conducted at El Dorado Disposal in 2014 to model traffic changes and peaks during a typical operating day.
- 2. The growth multiplier is used to prorate the trips to match the desired peak or average traffic at a site.

Number Length 6

- 3. The Model assumes highest peak day per year based on traffic for JSR (rounded to 580 trips). Those days typically occur once a year and include mattress drop off that do not require outbound weight so the average outbo weigh will be higher.
- 4. No queue of any kind forms at less than 361 vhicles per day and a negligible queue forms below 510 vehicles per day.
- 5. According to site staff check-in requires very little time because there is no financial transaction. Checkout takes more time for customers that do not have an account to pay.

Model Summary

| | Number | Length, it | | | |
|-----------------------|--------|------------|--|----------|-----|
| Max Inbound Que | 29 | 1,064 | | | |
| Max Outbound Que | 21 | 771 | | | |
| Total In and Out Peak | 50 | 1,835 | | | |
| Max One Hour Average | 41 | 1,492 | < Use this for Emissions Modeling assuming | In (ft): | 865 |

Design Variables

Variable
Average Check-In Time
Max Allowable Queuing Input Value 1.00 minutes = 1.00 minutes each with 1 Scales 48 vehicles 1 Lanes Transit Time 10.00 minutes from scale to tipping face (and back) Unloading Time Average Checkout Time 10.00 minutes 1.45 minutes or 2 scales at 2.90 minutes each 1.45 minutes or 2 scale:
34.00%
5 minutes
6 each
20 vehicles
99% vehicles that cross the scales
7:00 AM
5:00 PM % of vehicles with tare weight Time Step Unloading Spaces Desired Max In Unloading Queue Percentage of Vehicle that unload Opening Time 0.69 For Peak Traffic

Closing Time Growth Multiplier

0.690 Adjust to Obtain Desired Trips to be modeled

0.69 For Peak Traffic; 0.432 for Peak Tonnage Day

Incoming Queuing Assumptions: Proportions from Attachment K Single Lane Length

| Single Lane Length | 1,/50.00 | π | X | 1 | lanes | |
|---------------------------|---------------------|-------|-------------|------------|---------|-----------------------|
| | | | | Length per | To Be | |
| Vehicle Type | Percent | Quan | Length (ft) | Type (ft) | Modeled | < Used for Table O1.3 |
| Commercial T7 CARP Dsl | 5.00% | 2.00 | 78.00 | 156 | 2 | |
| Commercial T7 SWCV CNC | G (74%) 21.46% | 10.00 | 38.00 | 380 | 9 | |
| Commercial T7 SWCV Dsl | (26%) 7.54% | 4.00 | 38.00 | 152 | 3 | |
| Residential LHD1 Gas (95% | 62.70% | 30.00 | 33.00 | 990 | 25 | |
| Residential LHD1 Dsl (5%) | 3.30% | 2.00 | 33.00 | 66 | 1 | |
| Maxi | mum Allowable Queue | 48.00 | per Lane | 1.744 | 40 | |

Weighted Average Length 36.7

| | | | | | | | | Ve | hicles in Zor | ne | | | | |
|---|--------|--------------|--------------|--------------------|----------|-------|----------|--------------|---------------|--------------|--------------|-----------------------|-------|------------------------------|
| Vehicles Entering Site per Hour (reference) 2nd Axis | | | | Time of Day | Time | Queue | Per Time | | Queue | Unloading | Scales | In Que at Checkout | Sum | 1-hour Running Average |
| From El Dorado Traffic Study: | | | | DESIRED M | AXIMUMS: | 48 | | | 20 | 6 | NA | 40 | | |
| 840.58 | TRIPS: | 580.00 | N | MODELED M | AXIMUMS: | 29 | 5 | 10 | 0 | 5 | 10 | 21 | | |
| | | | | | Average | | | | | | | | 16.93 | |
| 5 | | | 0.29 | 7:00 AM | 0 | 0.00 | 0.29 | 0.28 | 0.00 | 0.14 | | | 0.00 | |
| 5 | | | 0.29 | 7:05 AM | 5 | 0.00 | 0.29 | 0.57 | 0.00 | 0.28 | | | 0.00 | |
| 5 | | 0.29 | 0.29 | 7:10 AM | 10 | 0.00 | 0.29 | 0.57 | 0.00 | 0.28 | 0.57 | 0 | | |
| 5 | | | 0.29 | 7:15 AM | 15 | 0.00 | 0.29 | | 0.00 | 0.28 | 0.57 | 0 | | |
| 5 | | | 0.29 | 7:20 AM | 20 | 0.00 | 0.29 | 0.57 | 0.00 | 0.28 | 0.57 | 0 | | |
| 5 | | 0.29 | 0.29 | 7:25 AM | 25 | 0.00 | 0.29 | 0.57 | 0.00 | 0.28 | 0.57 | 0 | | |
| 5 | | | 0.29 | 7:30 AM | 30 | 0.00 | 0.29 | 0.57 | 0.00 | 0.28 | 0.57 | 0 | | |
| 5 | | | 0.29 | 7:35 AM | 35 | 0.00 | 0.29 | 0.57 | 0.00 | 0.28 | 0.57 | 0 | | |
| 5 | | 0.29 0.29 | 0.29 0.29 | 7:40 AM 7:45 AM | 40 | 0.00 | 0.29 | 0.57 0.57 | 0.00 | 0.28 0.28 | 0.57 0.57 | 0 | | |
| <u>5</u> | | | 0.29 | 7:45 AM 7:50 AM | 45 | 0.00 | 0.29 | 0.57 | 0.00 | 0.28 | 0.57 | 0 | | |
| 5 | | | 0.29 | 7:55 AM | 50 55 | 0.00 | 0.29 | 0.57 | 0.00 | 0.28 | 0.57 | 0 | | |
| 110 | | | 1.15 | 8:00 AM | 60 | 0.00 | 1.15 | 2.28 | 0.00 | 1.14 | 2.28 | 0 | | |
| 110 | | | 2.01 | 8:05 AM | 65 | 0.00 | 2.01 | 3.98 | 0.00 | 1.14 | 3.98 | 0 | | |
| 110 | | | 2.88 | 8:10 AM | 70 | 0.00 | 2.88 | 5.69 | 0.00 | 2.85 | 5.69 | 0 | | |
| 110 | | | 3.74 | 8:15 AM | 75 | 0.00 | 3.74 | 7.40 | 0.00 | 3.70 | 7.40 | 0 | | |
| 110 | | | 4.60 | 8:20 AM | 80 | 0.00 | 4.60 | 9.11 | 0.00 | 4.55 | 9.11 | 0 | | |
| 110 | 76 | 6.33 | 5.46 | 8:25 AM | 85 | 0.46 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 0 | 0.79 | |
| 110 | 76 | | 6.33 | 8:30 AM | 90 | 1.79 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 1 | 2.45 | |
| 110 | 76 | 6.33 | 6.33 | 8:35 AM | 95 | 3.11 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 1 | 4.10 | |
| 110 | 76 | 6.33 | 6.33 | 8:40 AM | 100 | 4.44 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 1 | 5.75 | |
| 110 | 76 | 6.33 | 6.33 | 8:45 AM | 105 | 5.76 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 2 | 7.41 | |
| 110 | | | 6.33 | 8:50 AM | 110 | 7.09 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 2 | | |
| 110 | | 6.33 | 6.33 | 8:55 AM | 115 | 8.41 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 2 | 10.72 | |
| 85 | | 4.89 | 6.12 | 9:00 AM | 120 | 9.53 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 3 | | |
| 85 | | 4.89 | 5.91 | 9:05 AM | 125 | 10.45 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 3 | | |
| 85 | | | 5.71 | 9:10 AM | 130 | 11.16 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 3 | | |
| 85 | | 4.89 | 5.50 | 9:15 AM | 135 | 11.66 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 4 | | |
| 85 | | 4.89 | 5.30 | 9:20 AM | 140 | 11.96 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 4 | 15.91 | |
| 85 | | 4.89 | 5.09 | 9:25 AM | 145 | 12.05 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 4 | | |
| 85 | | 4.89 | 4.89 | 9:30 AM | 150 | 2.16 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 5 | | L |
| 85 | | 4.89 | 4.89 | 9:35 AM | 155 | 0.00 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 5 | | L |
| 85 | 59 | 4.89 | 4.89 | 9:40 AM | 160 | 0.00 | 4.89 | 9.68 | 0.00 | 4.84 | 9.68 | 5 | 5.16 | |

| 85 | | 4.89 | 4.89 | 9:45 AM | 165 | 0.00 | 4.89 | 9.68 | 0.00 | 4.84 | 9.68 | 5 | | 11 |
|---------------------------------------|----------|--------------|--------------|----------------------|------------|----------------|--------------|--------------|------|--------------|--------------|----------|----------------|----------|
| 85 85 | 59 59 | 4.89 4.89 | 4.89 4.89 | 9:50 AM 9:55 AM | 170 175 | 0.00 | 4.89 4.89 | 9.68 9.68 | 0.00 | 4.84 4.84 | 9.68 9.68 | 6 | | 11 10 |
| 100 | 69 | 5.75 | 5.01 | 10:00 AM | 180 | 0.01 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 6 | | 10 |
| 100 | 69 69 | 5.75 5.75 | 5.13 5.26 | 10:05 AM 10:10 AM | 185 190 | 0.14 0.40 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 6 7 | | 9 |
| 100 | 69 | 5.75 | 5.38 | 10:15 AM | 195 | 0.78 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 7 | | 8 |
| 100 | 69 69 | 5.75 5.75 | 5.50 5.63 | 10:20 AM 10:25 AM | 200 205 | 1.29 1.91 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 7 | | 7 |
| 100 | 69 | 5.75 | 5.75 | 10:30 AM | 210 | 2.66 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 8 | 10.78 | 7 |
| 100 100 | 69 69 | 5.75 5.75 | 5.75 5.75 | 10:35 AM 10:40 AM | 215 220 | 3.41 4.16 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 8 9 | | 8 |
| 100 | 69 | 5.75 | 5.75 | 10:45 AM | 225 | 4.91 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 9 | 14.02 | 9 |
| 100 | 69 69 | 5.75 5.75 | 5.75 5.75 | 10:50 AM 10:55 AM | 230 235 | 5.66 6.41 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 9 10 | | 10 11 |
| 120 | 83 | 6.90 | 5.91 | 11:00 AM | 240 | 7.33 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 10 | 17.42 | 12 |
| 120 120 | 83 83 | 6.90 6.90 | 6.08 6.24 | 11:05 AM 11:10 AM | 245 250 | 8.41 9.65 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 10 11 | | 13 14 |
| 120 | 83 | 6.90 | 6.41 | 11:15 AM | 255 | 11.06 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 11 | 22.14 | 15 |
| 120 | 83 | 6.90 | 6.57 | 11:20 AM | 260 | 12.63 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 11 | | 16 |
| 120 120 | 83 83 | 6.90 6.90 | 6.74 6.90 | 11:25 AM 11:30 AM | 265 270 | 14.36 16.26 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 12 12 | | 17 19 |
| 120 | 83 | 6.90 | 6.90 | 11:35 AM | 275 | 18.16 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 12 | 30.56 | 21 |
| 120 120 | 83 83 | 6.90 6.90 | 6.90 6.90 | 11:40 AM 11:45 AM | 280 285 | 20.06 21.96 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 13 13 | | 22 24 |
| 120 | 83 | 6.90 | 6.90 | 11:50 AM | 290 | 23.86 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 13 | 37.25 | 26 |
| 120 70 | 83 48 | 6.90 4.03 | 6.90 6.49 | 11:55 AM 12:00 PM | 295 300 | 25.76 27.25 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 14 14 | | 28 30 |
| 70 | 48 | 4.03 | 6.08 | 12:05 PM | 305 | 28.33 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 14 | 42.70 | 32 |
| 70 70 | 48 48 | 4.03 4.03 | 5.67 | 12:10 PM 12:15 PM | 310 315 | 29.00 29.26 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 15 15 | | 34 35 |
| 70 | | 4.03 | 5.26 4.85 | 12:15 PM 12:20 PM | 315 | 19.41 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 15 | | 35 |
| 70 | 48 | 4.03 | 4.44 | 12:25 PM | 325 | 9.97 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 16 | 25.66 | 36 |
| 70 | 48 48 | 4.03 4.03 | 4.03 4.03 | 12:30 PM 12:35 PM | 330 335 | 0.95 0.00 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 16 16 | | 35 34 |
| 70 | 48 | 4.03 | 4.03 | 12:40 PM | 340 | 0.00 | 4.03 | 7.97 | 0.00 | 3.98 | 7.97 | 16 | 15.71 | 33 |
| 70 | | 4.03 4.03 | 4.03 4.03 | 12:45 PM 12:50 PM | 345 350 | 0.00 | 4.03 4.03 | 7.97 7.97 | 0.00 | 3.98 3.98 | 7.97 7.97 | 15 14 | | 31 29 |
| 70 | 48 | 4.03 | 4.03 | 12:55 PM | 355 | 0.00 | 4.03 | 7.97 | 0.00 | 3.98 | 7.97 | 14 | 13.81 | 27 |
| 135 | 93 | 7.76 | 4.56 | 1:00 PM | 360 | 0.00 | 4.56 | 9.03 | 0.00 | 4.51 | 9.03 | 14 | | 25 22 |
| 135 135 | 93 93 | 7.76 7.76 | 5.09 5.63 | 1:05 PM 1:10 PM | 365 370 | 0.09 0.72 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 14 14 | | 20 |
| 135 | 93 | 7.76 | 6.16 | 1:15 PM | 375 | 1.88 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 15 | 16.57 | 18 |
| 135 135 | 93 93 | 7.76 7.76 | 6.69 7.23 | 1:20 PM 1:25 PM | 380 385 | 3.58 5.80 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 15 15 | | 16 16 |
| 135 | 93 | 7.76 | 7.76 | 1:30 PM | 390 | 8.57 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 16 | 24.24 | 17 |
| 135 135 | 93 93 | 7.76 7.76 | 7.76 7.76 | 1:35 PM 1:40 PM | 395 400 | 11.33 14.09 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 16 16 | | 17 19 |
| 135 | 93 | 7.76 | 7.76 | 1:45 PM | 405 | 16.85 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 17 | 33.52 | 20 |
| 135 135 | 93 93 | 7.76 7.76 | 7.76 7.76 | 1:50 PM 1:55 PM | 410 415 | 19.62 22.38 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 17 17 | | 22 24 |
| 80 | 55 | 4.60 | 7.70 | 2:00 PM | 420 | 24.69 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 18 | | 27 |
| 80 | 55 | 4.60 | 6.86 | 2:05 PM | 425 | 26.55 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 18 | | 29 |
| 80 80 | 55 55 | 4.60 4.60 | 6.41 5.96 | 2:10 PM 2:15 PM | 430 435 | 27.96 28.91 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 18 19 | | 32 34 |
| 80 | 55 | 4.60 | 5.50 | 2:20 PM | 440 | 29.41 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 19 | 48.38 | 37 |
| 80 80 | 55 55 | 4.60 4.60 | 5.05 4.60 | 2:25 PM 2:30 PM | 445 450 | 29.47 19.87 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 19 20 | | 39 40 |
| 80 | 55 | 4.60 | 4.60 | 2:35 PM | 455 | 10.27 | 5.00 | 9.90 | 0.00 | 4.95 | 9.90 | 20 | 30.22 | 41 |
| 80 | 55 55 | 4.60 4.60 | 4.60 4.60 | 2:40 PM 2:45 PM | 460 465 | 0.67 0.00 | 5.00 5.00 | 9.90 9.90 | 0.00 | 4.95 4.95 | 9.90 9.90 | 20 21 | 20.95 20.61 | 40 39 |
| 80 | 55 | 4.60 | 4.60 | 2:50 PM | 470 | 0.00 | 4.60 | 9.11 | 0.00 | 4.55 | 9.11 | 21 | 20.55 | 37 |
| 80 76 | 55 52 | 4.60 4.37 | 4.60 4.57 | 2:55 PM 3:00 PM | 475 480 | 0.00 | 4.60 4.57 | 9.11 9.04 | 0.00 | 4.55 4.52 | 9.11 9.04 | 20 20 | | 36 34 |
| 76 | | 4.37 | 4.53 | 3:05 PM | 485 | 0.00 | 4.53 | 8.98 | 0.00 | 4.49 | 8.98 | 20 | | 32 |
| 76 | | 4.37 | 4.50 | 3:10 PM | 490 | 0.00 | 4.50 | 8.91 | 0.00 | 4.46 | 8.91 | 20 | | 30 |
| 76 76 | 52 52 | 4.37 4.37 | 4.47 4.44 | 3:15 PM 3:20 PM | 495 500 | 0.00 | 4.47 4.44 | 8.85 8.78 | 0.00 | 4.42 4.39 | 8.85 8.78 | 20 20 | 19.89 19.66 | 28 25 |
| 76 | 52 | 4.37 | 4.40 | 3:25 PM | 505 | 0.00 | 4.40 | 8.72 | 0.00 | 4.36 | 8.72 | 19 | 19.40 | 23 |
| 76 76 | 52 52 | 4.37 4.37 | 4.37 4.37 | 3:30 PM 3:35 PM | 510 515 | 0.00 | 4.37 4.37 | 8.65 8.65 | 0.00 | 4.33 4.33 | 8.65 8.65 | 19 19 | | 21 20 |
| 76 | 52 | 4.37 | 4.37 | 3:40 PM | 520 | 0.00 | 4.37 | 8.65 | 0.00 | 4.33 | 8.65 | 19 | 18.51 | 20 |
| 76 76 | | 4.37 4.37 | 4.37 4.37 | 3:45 PM 3:50 PM | 525 530 | 0.00 | 4.37 4.37 | 8.65 8.65 | 0.00 | 4.33 4.33 | 8.65 8.65 | 18 18 | | 20 19 |
| 76 | 52 | 4.37 | 4.37 | 3:55 PM | 535 | 0.00 | 4.37 | 8.65 | 0.00 | 4.33 | 8.65 | 18 | 17.63 | 19 |
| 55 55 | | 3.16 3.16 | 4.20 4.03 | 4:00 PM 4:05 PM | 540 545 | 0.00 | | 8.31 7.97 | 0.00 | 4.16 3.98 | 8.31 7.97 | 17 17 | | 19 19 |
| 55 | 38 | 3.16 | 3.85 | 4:10 PM | 550 | 0.00 | 3.85 | 7.63 | 0.00 | 3.81 | 7.63 | 16 | 15.72 | 18 |
| 55 55 | | | 3.68 | 4:15 PM 4:20 PM | 555 560 | 0.00 | | 7.29 6.94 | 0.00 | 3.64 3.47 | 7.29 6.94 | 15 14 | | 18 17 |
| 55 | | 3.16 | 3.51 3.34 | 4:20 PM 4:25 PM | 565 | 0.00 | 3.51 | 6.60 | 0.00 | 3.47 | 6.60 | 12 | | 17 |
| 55 | 38 | 3.16 | 3.16 | 4:30 PM | 570 | 0.00 | 3.16 | 6.26 | 0.00 | 3.13 | 6.26 | 11 | 10.79 | 16 |
| 55 55 | | 3.16 3.16 | 3.16 3.16 | 4:35 PM 4:40 PM | 575 580 | 0.00 | | 6.26 6.26 | 0.00 | 3.13 3.13 | 6.26 6.26 | 9 | | 15 14 |
| 55 | 38 | 3.16 | 3.16 | 4:45 PM | 585 | 0.00 | 3.16 | 6.26 | 0.00 | 3.13 | 6.26 | 6 | 6.32 | 13 |
| 55 55 | | | 3.16 3.16 | 4:50 PM 4:55 PM | 590 595 | 0.00 | | 6.26 6.26 | 0.00 | 3.13 3.13 | 6.26 6.26 | 5 3 | | 12 11 |
| 55 | 38 | 3.16 | 3.16 | 5:00 PM | 600 | 0.00 | 3.16 | 6.26 | 0.00 | 3.13 | 6.26 | 2 | 1.85 | 10 |
| 0 | | | 2.71 | 5:05 PM 5:10 PM | 605 610 | 0.00 | 2.71 2.26 | 5.37 | 0.00 | 2.68 2.24 | 5.37 4.47 | 0 | | 8 7 |
| 0 | | | 2.26 1.81 | 5:10 PM 5:15 PM | 610 | 0.00 | 1.81 | 4.47 3.58 | 0.00 | 1.79 | 3.58 | 0 | | 6 |
| 0 | 0 | 0.00 | 1.36 | 5:20 PM | 620 | 0.00 | 1.36 | 2.68 | 0.00 | 1.34 | 2.68 | 0 | 0.00 | 5 |
| 0 | | | 0.90 0.45 | 5:25 PM 5:30 PM | 625 630 | 0.00 | 0.90 0.45 | 1.79 0.89 | 0.00 | 0.89 0.45 | 1.79 0.89 | 0 | | 3 |
| 0 | 0 | 0.00 | 0.00 | 5:35 PM | 635 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 2 |
| 0 | | | 0.00 | 5:40 PM 5:45 PM | 640 645 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | | 1 |
| 0 | | | | 5:50 PM | 650 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | 0 |
| · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | | |

| 0 | 0 | 0.00 | 0.00 | 5:55 PM | 655 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0 |
|---|---|------|------|---------|-----|------|------|------|------|------|------|---|------|---|
| 0 | 0 | 0.00 | 0.00 | 6:00 PM | 660 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0.00 | 0 |

John Smith Road Landfill Attachment O2 - Existing Scenario

Alternatives Assessment

Variables

Table O2.1 - Summary Table - Existing Scenario

| Location | PM ₁₀ , lb/day | PM _{2.5} , lb/day | ROG, lb/day | NOx, lb/day | CO, lb/day | SO ₂ , lb/day |
|--|---------------------------|-------------------------------|-------------|-------------|------------|--------------------------|
| Emissions from Paved Road | 16.77 | 2.58 | 2.12 | 1.53 | 3.53 | 0.03 |
| Emissions from Graveled Road | 50.34 | 6.01 | 8.47 | 6.11 | 14.12 | 0.12 |
| Emissions from Unpaved Road | 6.95 | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 |
| Emissions from Soil Haul Path | 0.00 | 0.00 | 0.17 | 4.43 | 4.44 | 0.02 |
| Emissions from Waste Disposal Area | 6.64 | 4.98 | 1.21 | 17.80 | 40.88 | 0.07 |
| Emissions from Construction Area | 0.00 | 0.00 | 0.07 | 0.37 | 2.95 | 0.01 |
| Emissions from Stockpile | 0.00 | 0.00 | 0.00 | 0.39 | 0.00 | 0.00 |
| Flare or IC (current) ¹ | 0.09 | 0.09 | 2.96 | 9.88 | 0.54 | 42.55 |
| Current LFG Fugitive Emissions | NA | NA | 3.93 | NA | NA | NA |
| Indirect (peak tonnage day, off site)App L | NA | NA | 0.95 | 23.22 | NA | NA |
| Total | 80.80 | 14.35 | 19.88 | 63.73 | 66.46 | 42.79 |
| MBARD Thresholds | 82 | 82 | 137 | 137 | 550 | 150 |
| Notor | | _ | | | | |

42.79 0.00

| Project Year | 2020 | | | For Calc | ulating Dust C | Control Water | | |
|----------------------------------|-------|------|---|----------|----------------|---------------|-----------------|------------|
| Waste Delivery Miles - Paved | 1,010 | 0.19 | Miles One Way | 5,050 | lf Exist | 6,033 | Av. LF Proposed | 1.19 Ratio |
| Waste Delivery Miles - Graveled | 4,040 | 0.77 | Miles One Way | | | | | |
| Construction Access - Unpaved | 0 | 0.00 | Miles One Way In Addition to Waste Delivery | | | | | |
| Construction Soil Haul - Unpaved | 2,900 | 0.55 | Miles One Way | | | | | |
| Construction Area | | 0 | Acres | | | | | |
| Stockpile Area | | 0.25 | Acres | | | | | |
| Waste Disposal Area | | 0.5 | Acres Assume 200 x 200 working face | | | | | |

| Waste Disposal Area | | 0.5 | Acres | Assume 200 | x 200 working face | |
|---------------------------|-----|-------------------------------------|-------------------|-----------------|--------------------|---------------------|
| Assumed Speeds | | | | | | |
| Compactor Speed | 3 | mph | | | | |
| Dozer Speed | 3 | mph | | | | |
| Loader Speed | 7.1 | mph, AP-42 Default mph, AP-42 | | | | |
| Grader Speed | 7.1 | Default mph, AP-42 | | | | |
| Off-Road Haul Truck Speed | 7.1 | Default | | | | |
| Excavator Speed | 0 | mph | mostly stationa | ry | | |
| Backhoe Speed | 0 | mph | mostly stationa | ry | | |
| Construction Excavation | 0 | cy | | | | |
| Construction Excavation | 0 | tons @1.67 t/cy | 0% | Loads | 0.00 | Total Miles One way |
| Daily Cover Excavation | 160 | cy (2000 tpd | waste /0.75 x 0.1 | 12 cy soil/cy w | raste | |
| Daily Cover Excavation | 267 | tons @1.67 t/cy | 746% | Loads = | 4.10 | Total Miles One way |

Waste Delivery On-Site Emissions - Assuming
Table O2.2 - On-Road Support Vehicles for Cor

See Footnotes on Attachment O1

ing 2020 Calendar Year Aggregate Speed, Aggregate Model Year, Aggregate Season Assume idling time is negligible

| | | Vehicle Pr | operties | | | | | | | | | | | | | | | | |] | Emission Factors | s and Calculatio | ns | | | | | | | | | | | |
|--|--------------------------|------------|-------------------------|---------------|---------------------------------|-----------------|----------------|--------|--|----------|------------------------------------|---|---------------|----------|--|-----------|--|---|----------------|--|---|--|--|---|--|---|---|-----------|---|--------------------|--|----------|------------|---------|
| On-Road Vehicles | Vehicle Category | Trips/Day | Trip Dist (both ways | | s / Paved Miles Day (both wa | | Miles/Day | y Load | RUNEX Emissions Factor NOx (g/mile) ¹⁰ | NOx | STREX Emissions NOx (g/trip) | STREX Emissions Factor NOx (lb/day) | Factor ROG | 8 | STREX Emissions Factor ROG (g/trip) ¹⁰ | Emissions | RUNLOSS Emissions Factor ROG (g/trip) ¹⁰ | RUNLOSS Emissions ROG (lbs/day) ⁸ | Factor PM10 | Exhaust Emissions PM10 (lbs/day) ⁸ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Tire Wear Emissions PM10 (lbs/day) ⁸ | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | Brake Wear Emissions PM10 (lbs/day) ⁸ | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | Exhaust Emissions PM2.5 (lbs/day) ⁸ | Tire Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Emissions | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Emissions PM2.5 | Emissions Factor CO (g/mile) ¹⁰ | | Factor SOx | SOx |
| Ford Mechanic Truck (DSL) | LHD1 | 2 | 383% | 3.8 | 0.8 | 3.1 | 0.0 | 1 | 3.65 | 0.0 | 0.00 | 0.000 | 2.11E-01 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 3.94E-02 | 0.000 | 1.20E-02 | 0.000 | 7.64E-02 | 0.001 | 3.77E-02 | 0.000 | 0.003 | 0.000 | 0.033 | 0.000 | 9.92E-01 | 0.008 | 5.52E-03 | 5E-03 |
| Ford F450 Flat Bed (DSL) | LHD2 | 1 | 191% | 1.9 | 0.4 | 1.5 | 0.0 | 1 | 2.57 | 0.0 | 0.00 | 0.000 | 1.80E-01 | 0.001 | 0.00 | 0.000 | 0.00 | 0.000 | 3.22E-02 | 0.000 | 1.20E-02 | 0.000 | 8.92E-02 | 0.000 | 3.08E-02 | 0.000 | 0.012 | 0.038 | 0.089 | 0.000 | 8.45E-01 | 0.004 | 6.17E-03 | 3E-05 |
| Water Truck (DSL) ¹ | T6 CAIRP heavy | 32 | 6121% | 61.2 | 12.2 | 49.0 | 0.0 | 1 | 2.12 | 0.3 | 0.00 | 0.000 | 6.78E-02 | 0.009 | 0.00 | 0.000 | 0.00 | 0.000 | 5.25E-02 | 0.007 | 1.20E-02 | 0.002 | 1.30E-01 | 0.018 | 5.02E-02 | 0.007 | 0.003 | 0.000 | 0.056 | 0.008 | 2.59E-01 | 0.035 | 9.33E-03 | 1E-03 |
| Support Light Heavy Duty Trucks (2, DSL) | LHD1 | 4 | 765% | 7.7 | 1.5 | 6.1 | 0.0 | 1 | 3.65 | 0.1 | 0.00 | 0.000 | 2.11E-01 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 3.94E-02 | 0.001 | 1.20E-02 | 0.000 | 7.64E-02 | 0.001 | 3.77E-02 | 0.001 | 0.003 | 0.000 | 0.033 | 0.001 | 9.92E-01 | 0.017 | 5.52E-03 | 9E-05 |
| Tractor Trailer Delivery (DSL) | T7 CAIRP | 1 | 191% | 1.9 | 0.4 | 1.5 | 0.0 | 1 | 5.67 | 0.0 | 0.00 | 0.000 | 7.20E-02 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 5.04E-02 | 0.000 | 1.20E-02 | 0.000 | 6.17E-02 | 0.000 | 4.82E-02 | 0.000 | 0.003 | 0.000 | 0.026 | 0.000 | 3.31E-01 | 0.001 | 1.33E-02 | 6E-05 |
| Carpool Vehicles (2, Gas) | LDT1 | 2 | 383% | 3.8 | 0.8 | 3.1 | 0.0 | 1 | 0.03 | 0.0 | 0.17 | 0.001 | 7.13E-01 | 0.006 | 0.21 | 0.001 | 0.46 | 0.002 | 1.08E-03 | 0.000 | 8.00E-03 | 0.000 | 3.68E-02 | 0.000 | 9.97E-04 | 0.000 | 0.002 | 0.000 | 0.016 | 0.000 | 5.01E-01 | 0.004 | 2.52E-03 | 2E-05 |
| Totals | | | | 80 | 16.1 | 64 | 0 | | | 0.414 | | 0.001 | | 0.020 | | 0.001 | | 0.002 | | 0.008 | | 0.002 | | 0.020 | | 0.008 | | 0.039 | | 0.009 | | 0.069 | | 0.007 |
| rorated by Mile | | | - | | | | | | | 5.16E-03 | | 9.57E-06 | | 2.46E-04 | | 1.16E-05 | | 2.52E-05 | | 1.05E-04 | - | 2.60E-05 | | 2.55E-04 | | 1.00E-04 | | 4.82E-04 | - | 1.12E-04 | | 8.61E-04 | | 8.55E-0 |
| | e: The values for STREX, | HTSK, REST | , DIURN, RUNI | were all zero | in the EMFAC20 | 17 output and v | vere not analy | yzed. | -1 | 3.10E-03 | | 7.57E-00 | | 2.40L-04 | | 1.10103 | | 2.52E-05 | • | otal PM ₁₀ g/day | 3.10E-02 | | otal PM ₁₀ g/m | | To | otal PM _{2.5} g/day | | | Total PM _{2.5} g/mi | | | 0.01E-04 | | - |

| Table O2 3 - On-Doad Wasta Daliyary On-Sita Vahicles Proposed Project Peak Tonnage Day | Assuming 2020 Calandar Voor | Aggragata Speed, Aggragata Model Voor, Aggragata Soccon | Assuma idling tima is nagligible |
|--|-----------------------------|---|----------------------------------|

| | | Site Prope | ties | | | | | | | | | | | | | • | | | | | Emission Factors | and Calculation | ns | | | | | | | | | | | |
|--------------------------------------|---|--|--------------------------|----------------------|------------------------|----------------------------|--|-----------------------------|--------|---|------------------------------------|---------------------|-------------|-------|------------|------------------|--|---|--|--|---|--|--|---|--|---|--------|---|--------------|--------------------|-----------|-------|------------|-------|
| On-Road Vehicles | Vehicle Category | Trips / Day (Peak Tonnage) from Att K | Trip Dist (both ways) | Total Miles / Day | Miles on Paved Road | Miles on Gravel Road | Unpaved Miles/Day (both ways) | Load Factor ⁵ | | RUNEX Emissions NOx (lbs/day) ⁸ | STREX Emissions NOx (g/trip) | Emissions Factor | - Emissions | | Factor ROG | Emissions ROG | RUNLOSS Emissions Factor ROG (g/trip) ¹⁰ | RUNLOSS Emissions ROG (lbs/day) ⁸ | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions PM10 (lbs/day) ⁸ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Tire Wear Emissions PM10 (lbs/day) ⁸ | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | Brake Wear Emissions PM10 (lbs/day) ⁸ | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | Exhaust Emissions PM2.5 (lbs/day) ⁸ | Factor | Tire Wear Emissions PM2.5 (lbs/day) ⁸ | Factor PM2.5 | Emissions PM2.5 | Factor CO | | Factor SOx | so |
| -County Self Haul/Residential 12 | Light/Heavy Duty Trucks (LHD-1 - Gas) | 155 | 29650% | 296 | 59 | 237 | 0 | 1 | 0.425 | 0.278 | 0.61 | 0.398 | 0.103 | 0.067 | 0.19 | 0.123 | 1.28 | 0.839 | 0.003 | 0.002 | 0.008 | 0.005 | 0.076 | 0.050 | 0.003 | 0.002 | 0.002 | 0.001 | 0.033 | 0.021 | 1.930 | 1.262 | 0.010 | 0.00 |
| -County Commercial Diesef 1 | T7-SWCV (Dsl) | 23 | 4388% | 44 | 9 | 35 | 0 | 1 | 21.912 | 2.120 | 4.34 | 0.420 | 0.019 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 0.022 | 0.002 | 0.036 | 0.003 | 0.062 | 0.006 | 0.021 | 0.002 | 0.009 | 0.001 | 0.026 | 0.003 | 0.058 | 0.006 | 0.035 | 0.00 |
| County Commercial CNG | T7-SWCV (NG) | 8 | 1542% | 15 | 3 | 12 | 0 | 1 | 0.313 | 0.011 | 0.00 | 0.000 | 0.043 | 0.001 | 0.00 | 0.000 | 0.00 | 0.000 | 0.003 | 0.000 | 0.036 | 0.001 | 0.062 | 0.002 | 0.003 | 0.000 | 0.009 | 0.000 | 0.026 | 0.001 | 11.219 | 0.381 | 0.000 | 0.000 |
| ut of County Commerciaf ² | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 73 | 13964% | 140 | 28 | 112 | 0 | 1 | 3.234 | 0.996 | 1.85 | 0.569 | 0.072 | 0.022 | 0.00 | 0.000 | 0.00 | 0.000 | 0.050 | 0.016 | 0.036 | 0.011 | 0.062 | 0.019 | 0.048 | 0.015 | 0.009 | 0.003 | 0.026 | 0.008 | 0.331 | 0.102 | 0.013 | 0.004 |
| TOTALS | | 259 | | 495 | 99 | 396 | 0 | | | 3,404 | | | | 0,093 | | 0.123 | | 0.839 | | 0.020 | | 0.021 | | 0.077 | | 0.019 | | 0.005 | | 0.033 | 1 | 1.751 | | 0.014 |

Total PM₁₀ g/mi 2.38E-04 Total PM₁₀ g/day

JSRL DEIR Appendix B Attachment O2

Lawrence & Asociates 1 of 5

Notes:

1: The values for ROG and CO from the flare represent the detection limit. RIOG includes fugitive LFG, VOC emissions. The actual value will be lower.

2: Described as VOC in CEQA Guidelines (Assume ROG is synonymous)

3: Described as NO_X as NO₂ in CEQA Guidelines. Assume all NO_X is NO₂ for this analysis.

4: Describes as SOx as SO₂ in CEQA Guidelines. Assume all SO_X is SO₂ for this analysis.

| Table O2 4 | Emissions | from Off | Road Vehicles | for Constru | ection Pool | Day |
|------------|-----------|----------|---------------|-------------|-------------|-----|
| | | | | | | |

Assuming 2010 Model Year or Better for PM2.5, CO, and SO2

Assuming Tier 4 final for all equipment over 200 hp

| | | Vehic | ele Properties | | | | | | | | | | | Air Q | uality Emissi | on Factors and | Calculations | | | | |
|---------------------------------------|---|---|-----------------------|-----------------|------------|-------------------|-----------------------------|--|-----------------------------------|--|--|---|-------------------|---|--|---|--|---|------|--|---|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufactur er/ Model/ Fuel ² | Model Year (motor) | HP ³ | Miles /Day | Tier ⁴ | Load Factor ⁵ | Peak Operating Hours per Day ⁶ | Days of Operation ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | Emissions NOx (lbs/day) ⁹ | Emissions Factor ROG (g/bhp-hr) ⁷ | ROG (lbs/day)9 | Exhaust Emissions Factor PM10 (g/bhp-hr) ⁷ | Exhaust Emissions PM10 (lbs/day) ⁹ | Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Emissions PM2.5 (lbs/day) ⁹ | Emissions Factor CO (g/bhp-hr) ⁷ | со | Emissions Factor SO ₂ (g/bhp-hr) ⁷ | Emissions SO ₂ (lbs/day) ⁹ |
| Dozer (not used for bulk exc.) | Crawler Tractors | Caterpillar D6 | 202000% | 165 | 0 | 3 | 0.43 | 0 | 7 | 2.32 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.348 | 0.00 | 3.408 | 0.00 | 0.005 | 0.00 |
| Dozer | Crawler Tractors | Caterpillar D8 | 202000% | 310 | 0 | 4 (Final) | 0.43 | 0 | 7 | 0.26 | 0.00 | 0.05 | 0.00 | 0.009 | 0.00 | 0.209 | 0.00 | 3.067 | 0.00 | 0.005 | 0.00 |
| Dozer (Stockpile Area) | Crawler Tractors | Caterpillar D6 | 202000% | 140 | 0 | 3 | 0.43 | 0 | 7 | 2.32 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.348 | 0.00 | 3.408 | 0.00 | 0.005 | 0.00 |
| Grader (not used for bulk excav.) | Graders | Caterpillar 14 | NA | 150 | 0 | 3 | 0.41 | 0 | 7 | 2.32 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.167 | 0.00 | 1.438 | 0.00 | 0.005 | 0.00 |
| Loader (Stockpile Area for Screening) | Rubber Tired Loaders | Caterpillar 93 | 202000% | 190 | 0 | 3 | 0.36 | 0 | 7 | 2.32 | 0.00 | 0.09 | 0.00 | 0.088 | 0.00 | 0.569 | 0.00 | 4.268 | 0.00 | 0.005 | 0.00 |
| Pad-Foot Compactor | Rollers | Caterpillar 82 | 202000% | 341 | 0 | 4 (Final) | 0.38 | 0 | 7 | 0.26 | 0.00 | 0.05 | 0.00 | 0.009 | 0.00 | 0.288 | 0.00 | 4.922 | 0.00 | 0.005 | 0.00 |
| Smooth Drum Roller (NA) | Rollers | Caterpillar CS | 202000% | 74 | 0 | 3 | 0.38 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.516 | 0.00 | 3.914 | 0.00 | 0.005 | 0.00 |
| Backhoe (NA) | Tractors/Loaders/ Backhoes | Caterpillar 42 | 202000% | 88 | 0 | 3 | 0.37 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.464 | 0.00 | 3.832 | 0.00 | 0.005 | 0.00 |
| Excavator (2) | Excavators | John Deere 350 Diesel | 202000% | 271 | 0 | 4 (Final) | 0.38 | 0 | 7 | 0.26 | 0.00 | 0.05 | 0.00 | 0.009 | 0.00 | 0.163 | 0.00 | 1.440 | 0.00 | 0.005 | 0.00 |
| Screening Plant (Stockpile Area) | Other Construction Equipment | Spyder 514TS Diesel | 202000% | 74 | 0 | 3 | 0.42 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.505 | 0.00 | 3.899 | 0.00 | 0.005 | 0.00 |
| Extended Loader (for liner) | Tractors/Loaders/ Backhoes | JCB 20TC | 202000% | 74 | 0 | 3 | 0.37 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.464 | 0.00 | 3.832 | 0.00 | 0.005 | 0.00 |
| Off-Road Dump/haul truck (3) | Off-Highway Trucks | Caterpillar 74 | 202000% | 453 | 0 | 4 (Final) | 0.38 | 0 | 7 | 0.26 | 0.00 | 0.05 | 0.00 | 0.009 | 0.00 | 0.196 | 0.00 | 2.322 | 0.00 | 0.005 | 0.00 |
| Totals | | | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 |

Note:
For a typical construction project, it is assumed that highest emissions takes place during the bulk excavation phase - assuming site-specific excavation equipment consisting primarily of two scrapers and a dozer as listed above as Tier 4.

Table O2.5 Off-Road Vehicles for Operations - Current - 2020

Assuming 2010 Model Year or Better for PM2.5, CO, and SO2

| | Vehi | cle Properties | | | | | | Operation | 1 Properties | | | | | | Emission Fa | ctors and Calcu | lations | | | | |
|--------------------|---|--|-----------------------|-----------------|---------------|-------------------|-----------------------------|------------------------------------|-----------------------------------|--|--|---|------|--|---|---|--|--|---|---|------|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufactur er/Model/ Fuel ² | Model Year (motor) | HP ³ | Miles Per Day | Tier ⁴ | Load Factor ⁵ | Peak Hours per Day ⁶ | Days of Operation ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | Emissions NOx (lbs/day) ⁹ | Emissions Factor ROG (g/bhp-hr) ⁷ | ROG | Emissions Factor PM10 (g/bhp-hr) ⁷ | Emissions PM10 (lbs/day) ⁹ | Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Emissions PM2.5 (lbs/day) ⁹ | Emissions Factor CO (g/bhp-hr) ¹¹ | Emissions CO (lbs/day) ⁹ | Emissions Factor SO ₂ (g/bhp- hr) ¹¹ | |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D6 | 201500% | 255 | 10 | 4 (Final) | 0.43 | 8 | 7 | 0.260 | 0.50 | 0.050 | 0.10 | 0.009 | 0.02 | 0.209 | 0.40 | 3.067 | 5.93 | 0.005 | 0.01 |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D8 | 201500% | 310 | 10 | 4 (Final) | 0.43 | 8 | 7 | 0.260 | 0.61 | 0.050 | 0.12 | 0.009 | 0.02 | 0.209 | 0.49 | 3.067 | 7.21 | 0.005 | 0.01 |
| Dozer (Support) | Crawler Tractors | Caterpillar D6 | 200700% | 200 | 0 | 2 | 0.43 | 0 | 7 | 4.150 | 0.00 | 0.110 | 0.00 | 0.088 | 0.00 | 0.229 | 0.00 | 1.899 | 0.00 | 0.005 | 0.00 |
| Grader | Graders | Caterpillar 14 | NA | 150 | 6 | 2 | 0.41 | 2 | 7 | 7.600 | 2.06 | 0.620 | 0.17 | 0.274 | 0.07 | 0.456 | 0.12 | 3.904 | 1.06 | 0.005 | 0.00 |
| Loader | Rubber Tired Loaders | Caterpillar 93 | 201500% | 182 | 5 | 4 (Final) | 0.36 | 2 | 7 | 12.090 | 3.49 | 1.310 | 0.38 | 0.605 | 0.17 | 0.147 | 0.04 | 3.522 | 1.02 | 0.057 | 0.02 |
| Compactor | Rollers | Caterpillar 82 | 201500% | 426 | 9 | 4 (Final) | 0.38 | 8 | 7 | 0.260 | 0.74 | 0.050 | 0.14 | 0.009 | 0.03 | 0.288 | 0.82 | 4.922 | 14.05 | 0.005 | 0.01 |
| Compactor | Rollers | Caterpillar 82 | 201500% | 426 | 5 | 2 | 0.38 | 4 | 7 | 3.790 | 5.41 | 0.090 | 0.13 | 0.088 | 0.13 | 0.288 | 0.41 | 4.922 | 7.03 | 0.005 | 0.01 |
| Backhoe | Tractors/Loaders/Backing | Caterpillar 42 | 200000% | 81.8 | 0 | 2 | 0.37 | 2 | 7 | 4.750 | 0.63 | 0.170 | 0.02 | 0.192 | 0.03 | 0.464 | 0.06 | 3.832 | 0.51 | 0.005 | 0.00 |
| Excavator | Excavators | John Deere 350 Diesel | 200100% | 283 | 0 | 4 (Final) | 0.38 | 6 | 7 | 0.260 | 0.37 | 0.050 | 0.07 | 0.009 | 0.01 | 0.158 | 0.22 | 2.077 | 2.95 | 0.005 | 0.01 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 200400% | 380 | 16 | 3 | 0.38 | 6 | 7 | 2.320 | 4.43 | 0.090 | 0.17 | 0.008 | 0.02 | 0.196 | 0.37 | 2.322 | 4.44 | 0.005 | 0.01 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 200400% | 380 | 0 | 3 | 0.38 | 0 | 7 | 2.320 | 0.00 | 0.090 | 0.00 | 0.008 | 0.00 | 0.196 | 0.00 | 2.322 | 0.00 | 0.005 | 0.00 |
| Truck Tipper | Other Construction Equipment | Columbia | 201500% | 156 | NA | 2 | 0.42 | 6 | 7 | 4.150 | 3.60 | 0.150 | 0.13 | 0.128 | 0.11 | 0.349 | 0.30 | 3.474 | 3.01 | 0.005 | 0.00 |
| Street Sweeper | Other Construction Equipment | Elgin 2019 | 201900% | 74 | NA | 4 (Final) | 0.42 | 4 | 7 | 2.740 | 0.75 | 0.090 | 0.02 | 0.009 | 0.00 | 0.505 | 0.14 | 3.899 | 1.07 | 0.005 | 0.00 |

Table O2.6 Fugitive Dust - Paved Operations and Construction Support

| | Road Distance Both | PM ₁₀ Emissions Factor, | Control | Paved Road Const. PM ₁₀ Emissions lb | | Paved Road PM _{2.5} Emissions |
|------------------------------|--------------------|--|------------|---|----------------|---|
| Construction Activity | Ways | lb/VMT | Efficiency | per Day ³ | Factor, lb/VMT | lb per Day ³ |
| In County Public / Self Haul | 59 | 0.135 | 90% | 8.02 | 0.007 | 0.41 |
| In/County Commercial | 12 | 0.134 | 90% | 1.59 | 0.033 | 0.39 |
| Out of County Commercial | 28 | 0.178 | 90% | 4.96 | 0.044 | 1.22 |
| Operations/Support | 16 | 0.135 | 90% | 2.17 | 0.033 | 0.53 |
| Current & Proposed | | | | 16.74 | | 2.55 |

Table O2.7 Fugitive Dust - Graveled Operations & Construction

| | Road Distance Both | PM ₁₀ Emissions Factor, | Control | | PM _{2.5} Emissions | Paved Road PM _{2.5} Emissions |
|---------------------------------|--------------------|--|------------|----------------------|-----------------------------|---|
| Construction Activity | Ways | lb/VMT | Efficiency | per Day ³ | Factor, lb/VMT | lb per Day ³ |
| In County Public / Self Haul | 237 | 1.012 | 90% | 24.01 | 0.101 | 2.40 |
| In/County Commercial | 47 | 0.134 | 90% | 0.64 | 0.202 | 0.96 |
| Out of County Commercial | 112 | 2.290 | 90% | 25.58 | 0.229 | 2.56 |
| Construction/Operations Support | 0 | 2.030 | 90% | 0.00 | 0.203 | 0.00 |
| Totals | | | | 50.22 | | 5.92 |

Table O2.8 Fugitive Dust - Unpaved Operations

| | Road Distance Both | PM ₁₀ Emissions Factor, | Control | Paved Road Const. PM ₁₀ Emissions | PM _{2.5} Emissions | Paved Road PM _{2.5} Emissions |
|------------------------|--------------------|--|------------|--|-----------------------------|---|
| Construction Activity | Ways | lb/VMT | Efficiency | per Day ³ | Factor, lb/VMT | per Day ³ |
| Construction Support | 0 | 2.030 | 80% | 0.00 | 0.262 | 0.00 |
| Daily Cover Haul Truck | 8 | 4.242 | 80% | 6.95 | 0.424 | 0.70 |
| Totals | | | | 6.95 | | 0.70 |

Table O2.9 Fugitive Dust - Unpaved Construction

| Construction Activity Soil Haul Truck | Road Distance Both Ways 0 | PM ₁₀ Emissions Factor, lb/VMT | Control Efficiency 75% | | |
|---------------------------------------|---------------------------------|--|------------------------------|------|------|
| Totals | | | | 0.00 | 0.00 |

Table O2.10 Fugitive Dust - Waste Filling Pad (Operations)

| Construction Activity | VMT | PM ₁₀ Emissions Factor, lb/VMT | Control Efficiency | | PM _{2.5} Emissions Factor, lb/VMT | Paved Road PM _{2.5} Emissions Ib per Day ³ |
|---------------------------|-----|--|-----------------------|------|---|--|
| Grader, Loader, Scraper | 11 | 1.543 | 75% | 4.22 | 0.227 | 0.62 |
| Compacting Waste & Dozers | Hr | lb/hr | | | lb/hr | |
| Compactor/Dozer | 11 | 0.753 | 80% | 1.72 | 0.414 | 0.95 |
| Unloading Daily Cover | Ton | lb/ton | | | lb/ton | |
| Daily Cover Unloading | 534 | 0.0002 | 25% | 0.10 | 0.000 | 0.01 |
| Totals | | | | 6.03 | | 1.58 |

Table O2.11 Fugitive Dust - Construction Area

| Construction Activity | VMT | PM ₁₀ Emissions Factor, lb/VMT | Control Efficiency | Paved Road Const. PM ₁₀ Emissions lb per Day ³ | PM _{2.5} Emissions Factor, lb/VMT | Paved Road PM _{2.5} Emissions per Day ³ |
|--------------------------|------|--|-----------------------|---|---|---|
| Loader, grader, scraper | 0 | 1.543 | 75% | 0.00 | 0.227 | 0.00 |
| Ripping/Compacting | Hr | lb/hr | | | lb/hr | |
| Dozer, Compactor, Grader | 0 | 0.753 | 75% | 0.00 | 0.414 | 0.00 |
| Loading | Tons | lb/ton | | | lb/ton | |
| Daily Cover Unloading | 0 | 0.0002 | 25% | 0.00 | 0.000 | 0.00 |
| Totals | | | | 0.00 | | 0.00 |

Table O2.12 Fugitive Dust - Stockpiling Area (including screening)

| | | | Control | _ | PM _{2.5} Emissions | Paved Road PM _{2.5} Emissions |
|-------------------------|------|--------|------------|----------------------|-----------------------------|---|
| Construction Activity | Hr | Lb/Hr | Efficiency | per Day ³ | Factor, lb/VMT | per Day ³ |
| Loader (to load screen) | 0 | 1.543 | 75% | 0.00 | 0.227 | 0.00 |
| Dozer, Compactor, | 0 | 1.543 | 75% | 0.00 | 0.414 | 0.00 |
| Loading | Tons | | | | | |
| Screening | 0 | 0.0002 | 75% | 0.00 | 0.000 | 0.00 |
| Unloading | 0 | 0.0002 | 75% | 0.00 | 0.000 | 0.00 |
| Totals | | | | 0.00 | | 0.00 |

- 1: Average trips from Table K.1 x miles on paved or unpaved road
 2: Average trips from Table K.2 x miles on paved or unpaved road
 3: Assuming (Ep truck x VMT truck) + (Ep car x VMT car)
 4: Assuming (Ep truck x VMT truck) + (Eup car x VMT car)
 5: Assumes regular watering during and/or dust suppressants during dry periods per AP-42 Section 13, Figure 13.2.2-2 Moisture Ratio of 4.25
 6: Assumes 10 delivery and employee trips per project at Proposed Project mileage
 7: Assumes 4.000 cylday 2.5 cytrip = 100 trips and one mile round trip to stockpile
 8: Assuming (Eup Off-Road Dump x VMT truck) + (Eup Off-Road Car x VMT car)

Dust Emissions Factor Calculation

Equation OA: Paved Road Emission Factor Equation for On-Site Roads

Equation (1) from USEPA, AP-42 Fifth Edition, 2011, Section 13.2.1

- Where: $Ep = \text{particulate matter factor (having units matching the units of K)} \\ k = \text{particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.1-1} \\ sL = \text{road surface silt loading } (g/m2) \\ W = \text{average weight (tons) of the vehicles traveling the road} \\ P = \text{number of wet days with at least 0.01 inch or precipitation during the averaging period} \\ N = \text{number of averaging days for period}$

| | | In-County | | | |
|-------------|---------------------|------------------|----------------|----------------|--|
| When: | Out of County Units | Commercial Units | Self Haul | Operations | Source |
| $k_{2.5} =$ | 0.00054 lb/VMT | 0% lb/VMT | 0.00054 lb/VMT | 0.00054 lb/VMT | AP-42 Table 13.2.1-1 |
| $k_{10} =$ | 0.0022 lb/VMT | 0% lb/VMT | 0.0022 lb/VMT | 0.0022 lb/VMT | AP-42 Table 13.2.1-1 |
| $_{sL} =$ | 4.25 g/m2 | 425% g/m2 | 4.25 g/m2 | 4.25 g/m2 | AP-42 Table 13.2.1-5 Assume surface low range of 1.1 on inbound leg and mean of 7.4 on outbound leg from 13.2.13, average of |
| W = | 27.00 tons | 2050% tons | 4.4 tons | 20.7 tons | See Table Q12 below |
| On Site P = | 1 days | 100% days | 1 days | 1 days | days Assume watered surface |
| On Site N = | 1 days | 100% days | 1 days | 1 days | days Assume watered surface |
| Then: | | | | | |
| Ep2.5 = | 0.044 lb/VMT | 3% lb/VMT | 0.007 lb/VMT | 0.033 lb/VMT | |
| Ep10 = | 0.178 lb/VMT | 13% lb/VMT | 0.028 lb/VMT | 0.135 lb/VMT | |

JSRL DEIR Appendix B Attachment O2

Lawrence & Asociates 3 of 5

4.25

Equation OB: Gravel Road Emission Factor

 $E = k * (s/12)^a * (W/3)^b$

Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2

| | | In-County | | | |
|-----------------------|---------------------|------------------|--------------|--------------|--|
| When: | Out of County Units | Commercial Units | Self Haul | Operations | Source |
| k _{2.5} = | 0.15 lb/VMT | 15% lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| $k_{10} =$ | 1.5 lb/VMT | 150% lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| s = | 6.4 % | 640% % | 6.4 % | 6.4 % | Per AP-42 Table 13.2.2-1 for landfills, mean of graveled roads |
| W = | 27.0 tons | 2050% tons | 4.4 tons | 20.7 tons | Table O2 |
| a = | 0.9 | 90% | 0.9 | 0.9 | Per AP-42 Table 13.2.2-2 for industrial roads |
| b = | 0.45 | 45% | 0.45 | 0.45 | Per AP-42 Table 13.2.2-2 for industrial roads |
| Then: | | | | | |
| Eup2.5 = | 0.229 lb/VMT | 20% lb/VMT | 0.101 lb/VMT | 0.203 lb/VMT | |
| E _{11P} 10 = | 2.290 lb/VMT | 202% lb/VMT | 1.012 lb/VMT | 2.030 lb/VMT | |

Equation OC: Unpaved Road Emission Factor

 $E = k * (s/12)^a * (W/3)^b$

Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2
Where:
Eup = size-specific emission factor (lb/VMT) for unpaved surface
k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2
s = surface material silt content (%)
W = mean vehicle weight (tons)
a = industrial road constant from AP-42, Table 13.2.2-2
b = industrial road constant from AP-42, Table 13.2.2-2

| When: | Haul Truck Units | Operations Units | Source |
|------------------------|------------------|------------------|---|
| $k_{2.5} =$ | 0.15 lb/VMT | 15% lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| $k_{10} =$ | 1.5 lb/VMT | 150% lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| $_{\mathbf{S}}=$ | 8.5 % | 850% % | Per AP-42 Table 13.2.2-1 for landfills, mean for construction site scraper routes |
| W = | 60.3 tons | 2067% tons | Table Q13 |
| a = | 0.9 | 90% | Per AP-42 Table 13.2.2-2 for industrial roads |
| b = | 0.45 | 45% | Per AP-42 Table 13.2.2-2 for industrial roads |
| Then: | | | |
| Eup2.5 = | 0.424 lb/VMT | 26% lb/VMT | |
| E _{1.10} 10 = | 4.242 lb/VMT | 262% lb/VMT | |

Table OC.1 Vehicle Weight Assumptions (assumes full load in and empty out)

| Category | Type | Percent | GVW, lb | NVW, lb | Average, lb | Av Tons |
|--|------------------------|---------|---------|---------|-----------------|---------|
| Small Vehicle (Public /Self Haul) | Ford F250 Gross Weight | NA | 9,900 | 7,700 | 8,800 | 4.4 |
| In County Commercial | Garbage Truck | NA | 51,000 | 31,000 | 41,000 | 20.5 |
| Out of County Commercial | Waste Transfer Truck | NA | 75,000 | 33,000 | 54,000 | 27.0 |
| | | | | | | |
| Support Vehicles For Construction | | | | | | |
| Average of: | Miles | | | | | |
| Ford Mechanic Truck (DSL) | 2 | 5% | 14,000 | 8,600 | 11,300 | 5.7 |
| Ford F450 Flat Bed (DSL) | 1 | 2% | 14,000 | 8,600 | 11,300 | 5.7 |
| Water Truck (DSL), 4,000 gal | 32 | 76% | 63,000 | 29500 | 46,250 | 23.1 |
| Support Light Heavy Duty Trucks (2, DSL) | 4 | 10% | 14,000 | 8,600 | 11,300 | 5.7 |
| Tractor Trailer Delivery (DSL) | 1 | 2% | 75,000 | 33,000 | 54,000 | 37.5 |
| Carpool Vehicles (2, Gas) | 2 | 5% | 51,000 | 31,000 | 41,000 | 25.5 |
| Total | 42 | | | | Weighted Averag | 20.7 |
| Off Road Dump | CAT 740 | NA | 162,399 | 78,632 | 120,516 | 60.3 |
| On Road Dump | CA1 /40 | INA | 162,399 | /8,632 | 120,516 | 60.3 |

GVW: Gross vehicle weight including load

NVWL Net vehicle weight or :"curb weight" without load

Source: US. EPA, Fifth Edition AP-42, Section 13.2.

Equation OD - Grading Equipment Passes

Use for graders, loaders, rubber tired dozers, and scrapers to scrape or push soil

 $EF_{PM15} = 0.051 \text{ x (S)}^{2.0}$, and $EF_{PM10} = EF_{PM15} \text{ x } F_{PM10}$, Used for PM_{10}

 EF_{TSP} - 0.4 x (S)^{2.5}, and $EF_{PM2.5} = EF_{TSP}$ x $F_{PM2.5}$, Used for $PM_{2.5}$

Source: CalEEMod 2020.4.0, Appendix A Page 8

$$\begin{split} Where: & \\ EF = \text{ emissions factor (lb/VMT)} \\ S = \text{ mean vehicle speed (mph)} \\ F_{PM2.5} = PM_{2.5} \text{ scaling factor.} \\ F_{PM10} = PM_{10} \text{ scaling factor.} \end{split}$$
Typical grading areas cres per day AP-42 Default = 7.1 Crawler Tractors (Dozer)
AP-42 Default = 0.03 Graders AP-42 Default = Scrapers

1.543 lb/VMT $EF_{PM10}\!=\!$ 0.227 lb/VMT

JSRL DEIR Attachment O2

Lawrence & Asociates 4 of 5

Equation OE - Bulldozers Passes Use for compactors & tracked dozers

```
EF_{PM15} = (C_{PM15} \ x \ s^{1.5}) \ / \ M^{1.4} \ \ , \ and \ EF_{PM10} = EF_{PM15} \ x \ \ F_{PM10}; \ used \ for \ PM_{10}
                                                           EF<sub>TSP</sub> - (C<sub>TSP</sub> x s<sup>1.2</sup>)/ M<sup>1.3</sup> , and EF _{PM2.5} = EF<sub>TSP</sub> x F_{PM2.5}; used for PM_{2.5}
                                                           CalEEMod 2020.4.0, Appendix A Page 9
                                               Where:

EF = emissions factor (lb/hr)

C = Coefficient used by AP-42
                                                                                                                              Per AP-42 defaults for Overburden C_{TSP} = 5.7 \qquad C_{PM15} = 1 \\ s = 6.90 \qquad AP-42 \; Baseline \quad On site material is bedrock that is being ripped or broken \\ M = 7.90 \qquad AP-42 \; Baseline
                                             C = Coefficient used by Ar-42 C_{TSF} = 3.7

s = Material silt content (%) <math>s = 6.90

M = Material moisture content (%) <math>M = 7.90

F_{PML5} = PM_{L5} scaling factor. AP-42 default <math>F_{PML5} = 0.105

F_{PML0} = PM_{L0} scaling factor. AP-42 default <math>F_{PML0} = 0.75
                                                                                             0.753 lb/hr x hr/day
                                             EF_{PM10} =
                                             EF<sub>PM2.5</sub> =
                                                                                             0.414 lb/hr x hr/day
Equation OF Truck Loading
                                                           EF_D = k \times (0.0032) \times ((U/5)^{1.3} / (M/2)^{1.4})
                                                        From CalEEMod Appendix A and AP-42 Section 13.2.4 re: Per AP-42 defaults for Overburden
                                             Where:
EF = emissions factor (lb/ton)
                                                                                                                                            PM_{10} = 0.35
                                                  k = Particle size multiplier
U = mean wind speed (mph)
M = Material moisture content
                                                                                                                                                                                    PM_{2.5} = 0.053
                                                                                                                                         M = 7.90 AP42 Table 13.2.4-1 clay/dirt r Assume 12 for mitigated
                                     Assume:

U =

Load size =

Fluff factor =
                                                                                        6.7 mph based on site specific wind data; Mode
30 CY loose,
1.3 CY loose/ CY banked
1.6875 t/cy, in place 12500%
6.000 cy/day
10.125 t/day
500 cy/day
843.75 t/day
                              Banked density =
Production =
Production =
                      Screening Production =
Screening Production =
                                           \begin{array}{l} EF_{PM10} = \\ EF_{PM2.5} = \end{array}
```

Equation OG Asphalt

While there is no specific screen associated with asphalt paving emissions, CalEEMod estimates VOC off-gassing emissions associated with asphalt paving of parking lots using the following equation: Source CalEEMod Users Manual, 2020, Page 18

```
E_{AP} = EF_{AP} \times \mathbf{A}_{Parking}
                          Where: E = emissions (lb) 
 EF = emission factor (lb/acre). The SMAQMD default emission factor is 2.62 lb/acre.16 
 A = area of the parking lot (acre)
                                                                      9.17 lb. VOC /acre
E_{AP} =
Acres of New Pavement
Das of Construction =
E_{AP}d =
                                                                    3.5 Acres
2
4.585 lb. VOC /day
```

2.3945E-04 lb/ton x production = 3.6260E-05 lb/ton x production =

JSRL DEIR Attachment O2

Lawrence & Asociates 5 of 5



Attachment Q - Scenario 1: Entrance
Alternatives Assessment - Combination Construction & Operations

Table O3.1 - Summary Table - Scenario 1

| Location | PM ₁₀ , lb/day | PM _{2.5} , lb/day | ROG, lb/day | NOx, lb day | CO, lb day | SO2, lb/day |
|--|---------------------------|----------------------------|-------------|-------------|------------|-------------|
| Emissions from Paved Road | 6.61 | 1.06 | 0.20 | 0.96 | 1.57 | 0.02 |
| Emissions from Graveled Road | 9.61 | 1.11 | 0.03 | 0.15 | 0.25 | 0.00 |
| Emissions from Unpaved Road | 3.55 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| Emissions from Soil Haul Path | 28.45 | 2.84 | 0.70 | 3.66 | 28.65 | 0.02 |
| Emissions from Waste Disposal Area | 6.40 | 4.62 | 1.13 | 11.68 | 31.51 | 0.06 |
| Emissions from Construction Area | 4.70 | 3.37 | 0.63 | 5.62 | 26.64 | 0.06 |
| Emissions from Stockpile | 2.38 | 2.78 | 0.21 | 0.39 | 6.05 | 0.01 |
| Flare or IC (peak) ¹ | 0.44 | 0.45 | 4.22 | 49.89 | 2.27 | 214.91 |
| Peak LFG Fugitive Emissions | NA | NA | 10.81 | NA | NA | NA |
| Indirect (peak tonnage day, off site)App L | NA | NA | 0.29 | 22.57 | NA | NA |
| Entrance Queuing | 0.00 | 0.00 | 0.10 | 1.05 | 1.45 | 0.00 |
| Total | 62.14 | 16.59 | 18.33 | 95.97 | 98.39 | 215.07 |
| Baseline (2021) | 80.80 | 14.35 | 19.88 | 63.73 | 66.46 | 42.79 |
| Change from Baseline | -18.65 | 2.24 | -1.55 | 32.23 | 31.93 | 172.28 |
| MBARD Thresholds | 82 | 82 | 137 | 137 | 550 | 150 |

Variables

| Variables | | | | | | |
|----------------------------------|--------|--------------------------|------------------------|---------------|----------------------|---------------------|
| Project Year | 2025 | | | | | |
| Waste Delivery Miles - Paved | 3,000 | 0.57 | Miles One Way | | | 3,480 |
| Waste Delivery Miles - Graveled | 480 | 0.09 | Miles One Way | | | |
| Construction Access - Unpaved | 0 | 0.00 | Miles One Way In | Addition to W | aste Delivery | |
| Construction Soil Haul - Unpaved | 1,480 | 0.28 | Miles One Way | | | |
| Construction Area | | 23.8 | Acres | | | |
| Stockpile Area | | 6 | Acres | | | |
| Waste Disposal Area | | 1 | Acres | Assume 200 | 0 x 200 working face | |
| Assumed Speeds | | | | | | |
| Compactor Speed | 3 | mph | | | | |
| Dozer Speed | 3 | mph | | | | |
| Loader Speed | 7.1 | mph, AP-42 Default | | | | |
| Grader Speed | 7.1 | mph, AP-42 Default | | | | |
| Off-Road Haul Truck Speed | 7.1 | mph, AP-42 Default | | | | |
| Excavator Speed | 0 | mph | mostly stationary | | | |
| Backhoe Speed | 0 | mph | mostly stationary | | | |
| Construction Excavation | 6,000 | cy | | | | |
| Construction Excavation | 10,020 | tons @1.67 t/cy | 239 | Loads | 67.05 | Total Miles One way |
| Daily Cover Excavation | 320 | cy (2000 tpd waste /0.75 | x 0.12 cy soil/cy wast | e | | |
| Daily Cover Excavation | 534 | tons @1.67 t/cy | 15 | Loads = | 4.18 | Total Miles One way |
| | | | | | | |

Waste Delivery On-Site Emissions - Assuming

See Footnotes on Attachment O1

| | | Vehicle Pro | perties | | | | | | | | | | | | | | | | | Emissio | n Factors and | d Calculation | ıs | | | | | | | | | | |
|---|------------------|-------------|-----------------|-------------|----------------------------------|--------------------------------------|-------------------------------------|-----------------------------|---|--|-------------------------------------|----------|---|----------|---|--|---|--|--|---|---------------|---------------|-----------|---|---|--|---|--|---|----------|-----------|----------|---|
| | | | | | | | | | RUNEX | RUNEX | STREX | STREX | RUNEX | RUNEX | STREX Emissions | STREX | RUNLOSS Emissions | RUNLOSS | | | | Tire Wear | Emissions | r Brake Wear | Emissions | Exhaust | | Tire Wear | Brake Wear Emissions | Brake | | | |
| On-Road Vehicles | Vehicle Category | Trips/Day | Trip Dust (both | Total Miles | Paved Miles / Day (both ways) | Graveled Miles/Day (both ways) | Unpaved Miles/Day (both ways) | Load Factor ⁵ | Emissions Factor NOs (g/mile) ¹⁰ | Emissions NOx (lbs/day) ⁸ | Emissions Factor NOx (g/trip) | | Emissions Factor ROG (g/mile) ¹⁰ | | Factor ROG (g/trip) ¹⁰ | Emissions ROG (lbs/day) ⁸ | Factor ROG (g/trip) ¹⁰ | Emissions ROG (lbs/day) ⁸ | Factor PM10 (g/mile) ¹⁰ | Emissions PM10 (lbs/day) ⁸ | PM10 | PM10 | PM10 | Emissions PM10 (lbs/day) ⁸ | Factor PM2.5 (g/mile) ¹⁰ | Emissions PM2.5 (lbs/day) ⁸ | Factor PM2.5 (g/mile) ¹⁰ | Emissions PM2.5 (lbs/day) ⁸ | Factor PM2.5 (g/mile) ¹⁰ | PM2.5 | Factor CO | СО | Emissions Factor SOx (g/mile) ¹⁰ |
| ord Mechanic Truck (DSL) | LHD1 | 2 | 2.6 | 2.6 | 2.3 | 0.4 | 0.0 | 1 | 2.74 | 0.0 | 0.00 | 0.000 | 1.93E-01 | 0.001 | 0.00 | 0.000 | 0.00 | 0.000 | 3.34E-02 | 0.000 | 1.20E-02 | 0.000 | 7.64E-02 | 0.000 | 3.19E-02 | 0.000 | 0.003 | 0.000 | 0.033 | 0.000 | 9.36E-01 | | 5.30E-03 |
| ord F450 Flat Bed (DSL) | LHD2 | 1 | 1.3 | 1.3 | 1.1 | 0.2 | 0.0 | 1 | 1.89 | 0.0 | 0.00 | 0.000 | 1.69E-01 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 2.96E-02 | 0.000 | 1.20E-02 | 0.000 | 8.92E-02 | 0.000 | 2.84E-02 | 0.000 | 0.003 | 0.038 | 0.038 | 0.000 | 8.29E-01 | 0.002 | 5.91E-03 |
| ater Truck (DSL) ¹ | T6 CAIRP heavy | 32 | 42.2 | 42.2 | 36.4 | 5.8 | 0.0 | 1 | 1.36 | 0.1 | 1.36 | 0.096 | 4.93E-02 | 0.005 | 0.00 | 0.000 | 0.00 | 0.000 | 1.48E-02 | 0.001 | 1.20E-02 | 0.001 | 1.30E-01 | 0.012 | 1.42E-02 | 0.001 | 0.003 | 0.000 | 0.026 | 0.002 | 2.59E-01 | 0.024 | 9.33E-03 |
| apport Light Heavy Duty Trucks (2, DSL) | LHD1 | 4 | 5.3 | 5.3 | 4.5 | 0.7 | 0.0 | 1 | 2.74 | 0.0 | 0.00 | 0.000 | 1.93E-01 | 0.001 | 0.00 | 0.000 | 0.00 | 0.000 | 3.34E-02 | 0.000 | 1.20E-02 | 0.000 | 7.64E-02 | 0.001 | 3.19E-02 | 0.000 | 0.003 | 0.000 | 0.056 | 0.001 | 7.69E-02 | 0.001 | 8.98E-03 |
| ractor Trailer Delivery (DSL) | T7 CAIRP | 1 | 1.3 | 1.3 | 1.1 | 0.2 | 0.0 | 1 | 2.30 | 0.0 | 2.23 | 0.005 | 2.10E-02 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 3.09E-02 | 0.000 | 3.60E-02 | 0.000 | 6.17E-02 | 0.000 | 2.96E-02 | 0.000 | 0.009 | 0.000 | 0.026 | 0.000 | 1.95E-01 | 0.001 | 1.19E-02 |
| ractor Trailer RNG 4 trips/mo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Carpool Vehicles (2, Gas) | LDT1 | 2 | 2.6 | 2.6 | 2.3 | 0.4 | 0.0 | 1 | 0.05 | 0.0 | 0.23 | 0.001 | 1.13E-02 | 0.000 | 0.30 | 0.001 | 0.63 | 0.003 | 1.48E-03 | 0.000 | 8.00E-03 | 0.000 | 3.68E-02 | 0.000 | 1.36E-03 | 0.000 | 0.002 | 0.000 | 0.016 | 0.000 | 7.08E-01 | 0.004 | 2.81E-03 |
| otals | | | | 55 | 47.7 | 8 | 0 | | | 0.187 | | 0.102 | | 0.007 | | 0.001 | | 0.003 | | 0.002 | | 0.002 | | 0.014 | | 0.002 | | 0.039 | | 0.004 | | 0.037 | |
| Prorated by Mile | | | | | | | | | | 3.38E-03 | | 1.84E-03 | | 1.35E-04 | | 2.40E-05 | | 5.01E-05 | | 3.87E-05 | | 2.73E-05 | | 2.55E-04 | | 3.70E-05 | | 6.97E-04 | | 6.47E-05 | | 6.77E-04 | |

JSRL DEIR Appendix B Attachment O2

Lawrence & Associates Page 1 of 6

Notes:

1: The values for ROG and CO from the flare represent the detection limit. The actual value will be lower.

2: Described as VOC in CEQA Guidelines (Assume ROG is synonymous)

3: Described as NO_X as NO₂ in CEQA Guidelines. Assume all NO_X is NO₂ for this analysis.

4: Describes as SO_X as SO₂ in CEQA Guidelines. Assume all SO_X is SO₂ for this analysis.

Table O3.3 - On-Road Waste Delivery On-Site Vehicles Proposed Project Average Tonnage Day

Assuming 2025 Calendar Year Aggregate Speed, Aggregate Model Year, Aggregate Season Assume idling time is negligible

| | | Site Prope | erties | | | | | | | | | | | | | | | | | Emission | n Factors an | d Calculation | ıs | | | | | | | | | | | |
|--|---|--|-----------------------|-------------|------------------------|-------------------------|-------------------------------------|-----------------------------|--|---|--|---------------------------------------|--|----------|---------------|---------------------------|---------------|-----------------------------|----------------|------------------------------|----------------|---------------|----------------|---------------------------|-------|---|-------|---------------------------------|-------|-----------------------------|-----------|----------|---|----------|
| On-Road Vehicles | Vehicle Category | Trips / Day (Peak Tonnage) from Att K | Trip Dist (both ways) | Total Miles | Miles on Paved Road | Miles on Gravel Road | Unpaved Miles/Day (both ways) | Load Factor ⁵ | RUNEX Emissions Factor NOx (g/mile) ¹⁰ | RUNEX Emissions NOx (lbs/day) ⁸ | STREX Emissions Factor NOx (g/trip) | STREX Emissions NOx (lb/day) | RUNEX Emissions Factor ROG (g/mile) ¹⁰ | | Factor ROG | STREX Emissions ROG | Factor ROG | RUNLOSS Emissions ROG | Factor PM10 | Exhaust Emissions PM10 | Factor PM10 | Tire Wear | Factor PM10 | Wear Emissions PM10 | PM2.5 | Exhaust Emissions PM2.5 (lbs/day) ⁸ | PM2.5 | Tire Wear Emissions PM2.5 | PM2.5 | Brake Emissions PM2.5 | Factor CO | CO | Emissions Factor SOx 8 (g/mile) ¹⁰ | SOx |
| n-County Self Haul/Residential 12 | Light/Heavy Duty Trucks (LHD 1 - Gas) | 217 | 286 | 286 | 247 | 39 | 0 | 1 | 0.276 | 0.174 | 0.56 | 0.353 | 0.056 | 0.036 | 0.14 | 0.089 | 0.08 | 0.052 | 0.003 | 0.002 | 0.008 | 0.005 | 0.076 | 0.048 | 0.002 | 0.001 | 0.002 | 0.001 | 0.033 | 0.021 | 1.827 | 1.152 | 0.010 | 0.006 |
| n-County Commercial Diesel ¹¹ | T7-SWCV (Dsl) | 29 | 38 | 38 | 33 | 5 | 0 | 1 | 1.787 | 0.150 | 5.23 | 0.438 | 0.023 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 0.018 | 0.001 | 0.036 | 0.003 | 0.062 | 0.005 | 0.018 | 0.001 | 0.009 | 0.001 | 0.026 | 0.002 | 0.064 | 0.005 | 0.030 | 0.003 |
| n County Commercial CNG | T7-SWCV (NG) | 10 | 13 | 13 | 12 | 2 | 0 | 1 | 0.313 | 0.009 | 0.00 | 0.000 | 0.043 | 0.001 | 0.00 | 0.000 | 0.00 | 0.000 | 0.003 | 0.000 | 0.036 | 0.001 | 0.062 | 0.002 | 0.003 | 0.000 | 0.009 | 0.000 | 0.026 | 0.001 | 11.219 | 0.331 | 0.000 | 0.000 |
| out of County Commercial ¹² | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 95 | 125 | 125 | 108 | 17 | 0 | 1 | 1.787 | 0.493 | 2.23 | 0.615 | 0.021 | 0.006 | 0.00 | 0.000 | 0.00 | 0.000 | 0.031 | 0.009 | 0.036 | 0.010 | 0.062 | 0.017 | 0.030 | 0.008 | 0.009 | 0.002 | 0.026 | 0.007 | 0.195 | 0.054 | 0.012 | 0.003 |
| TOTALS | <u> </u> | 351 | | 463 | 399 | 64 | 0 | | | 0.826 | | | | 0.045 | | 0.089 | | 0.052 | | 0.012 | | 0.019 | | 0.072 | | 0.011 | | 0.005 | | 0.031 | | 1.542 | | 0.012 |
| rorated by Mile | | - | · | | · | | | | | 1.79E-03 | - | 0.00E+00 | | 1.12E-04 | | 2.23E-04 | | 1.30E-04 | | 2.99E-05 | | 4.78E-05 | | 1.81E-04 | | 2.80E-05 | | 1.19E-05 | | 7.76E-05 | | 3.87E-03 | 4 | 3.01E-05 |

| Table O3.4 - Emissions from Off-Ro | ad venicles for Construction i | | | | Assuming 2015 Mode | i I cai oi bettei i | 01 F.W.2.3, CO, an | iu 302 | | Assuming Tier | 4 Illiai ioi ali e | quipinent over 2 | 200 пр | | | 16.1 | | | | | |
|---------------------------------------|---|-------------------------|-----------------------|-----------------|--------------------|---------------------|--------------------------|--|-----------------------------------|--|--|-------------------------|--|--|-------------------|--|--|---|---|------------------------|------|
| | | Vehic | le Properties | | | | 1 | | | | | | | Air Quality E | mission Fact | ors and Calcu | lations | | 1 | | |
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/ Model/ | Model Year (motor) | HP ³ | Miles /Dav | Tier⁴ | Load Factor ⁵ | Peak Operating Hours per Day ⁶ | Days of Operation ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | Emissions NOx (lbs/day) ⁹ | Emissions Factor ROG | Emissions ROG (lbs/day) ⁹ | Exhaust Emissions Factor PM10 (g/bhp-hr) ⁷ | Emissions PM10 | Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Emissions PM2.5 (lbs/day) ⁹ | Emissions Factor CO (g/bhp-hr) ⁷ | Emissions CO (lbs/day) ⁹ | Factor SO ₂ | - |
| Dozer (not used for bulk exc.) | Crawler Tractors | Caterpillar D6T LGP | 2015 | 165 | 24 | 3 | 0.43 | - 8 | 7 | 2.32 | 2.90 | 0.09 | 0.11 | 0.112 | 0.14 | 0.346 | 0.43 | 3,479 | 4.35 | 0.005 | 0.01 |
| Dozer | Crawler Tractors | Caterpillar D8T Diesel | 2015 | 310 | 24 | 4 (Final) | 0.43 | 8 | 7 | 0.26 | 0.61 | 0.05 | 0.12 | 0.009 | 0.02 | 0.195 | 0.46 | 2.845 | 6.69 | 0.005 | 0.01 |
| Dozer (Stockpile Area) | Crawler Tractors | Caterpillar D6R Diesel | 2015 | 140 | 12 | 3 | 0.43 | 4 | 7 | 2.32 | 1.23 | 0.09 | 0.05 | 0.112 | 0.06 | 0.346 | 0.18 | 3.479 | 1.85 | 0.005 | 0.00 |
| Grader (not used for bulk excav.) | Graders | Caterpillar 140G Diesel | NA | 150 | 0 | 3 | 0.41 | 0 | 7 | 2.32 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.447 | 0.00 | 3.958 | 0.00 | 0.005 | 0.00 |
| Loader (Stockpile Area for Screening) | Rubber Tired Loaders | Caterpillar 938M Diesel | 2015 | 190 | 56.8 | 3 | 0.36 | 8 | 7 | 2.32 | 2.80 | 0.09 | 0.11 | 0.088 | 0.11 | 0.169 | 0.20 | 1.480 | 1.79 | 0.005 | 0.01 |
| Pad-Foot Compactor | Rollers | Caterpillar 826C Diesel | 2015 | 341 | 27 | 4 (Final) | 0.38 | 9 | 7 | 0.26 | 0.67 | 0.05 | 0.13 | 0.009 | 0.02 | 0.179 | 0.46 | 3.245 | 8.34 | 0.005 | 0.01 |
| Smooth Drum Roller (NA) | Rollers | Caterpillar CS34 Diesel | 2015 | 74 | 0 | 3 | 0.38 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.430 | 0.00 | 3.809 | 0.00 | 0.005 | 0.00 |
| Backhoe (NA) | Tractors/Loaders/ Backhoes | Caterpillar 426C Diesel | 2015 | 88 | 0 | 3 | 0.37 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.464 | 0.00 | 3.832 | 0.00 | 0.005 | 0.00 |
| Excavator (2) | Excavators | John Deere 350 Diesel | 2015 | 271 | 0 | 4 (Final) | 0.38 | 18 | 7 | 0.26 | 1.06 | 0.05 | 0.20 | 0.009 | 0.04 | 0.096 | 0.39 | 1.317 | 5.38 | 0.005 | 0.02 |
| Screening Plant (Stockpile Area) | Other Construction Equipment | Spyder 514TS Diesel | 2015 | 74 | 0 | 3 | 0.42 | 9 | 7 | 2.74 | 1.69 | 0.09 | 0.06 | 0.192 | 0.12 | 0.471 | 0.29 | 3.916 | 2.41 | 0.005 | 0.00 |
| Extended Loader (for liner) | Tractors/Loaders/ Backhoes | JCB 20TC | 2015 | 74 | 0 | 3 | 0.37 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.390 | 0.00 | 3.832 | 0.00 | 0.005 | 0.00 |
| Off-Road Dump/haul truck (3) | Off-Highway Trucks | Caterpillar 740 diesel | 2015 | 453 | 191.7 | 4 (Final) | 0.38 | 27 | 7 | 0.26 | 2.66 | 0.05 | 0.51 | 0.009 | 0.09 | 0.159 | 1.63 | 2.037 | 20.87 | 0.005 | 0.05 |
| Totals | | | | | | | | | | | 13.63 | | 1.29 | | 0.60 | | 4.05 | | 51.68 | | 0.11 |

[|]Totals | 13.63 |
Note: Increased time for this analysis
For a typical construction project, it is assumed that highest emissions takes place during the bulk excavation phase - assuming site-specific excavation equipment consisting primarily of two scrapers and a dozer as listed above as Tier 4. Additional equipment listed is support

| THE COLUMN TWILL A COLUMN THE COL | | |
|--|---|--|
| Table O3.5 Off-Road Vehicles for Operations - Future - 2025 | Assuming 2015 Model Year or Better for PM2.5, CO, and SO2 | Assuming Tier 4 final for all equipment over 200 hp, unless already Tier 4 |

| | | Vehicle Properties | | | | | | Operation | Properties | | | | | Emissi | on Factors an | d Calculation | ıs | | | | |
|--------------------|---|--|-----------------------|-----------------|---------------|-------------------|--------------------------|------------------------------------|-----------------------------------|--|--|--|--|---|---|--|--|--|-------|---|------|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/Model/ Fuel ² | Model Year (motor) | HP ³ | Miles Per Day | Tier ⁴ | Load Factor ⁵ | Peak Hours per Day ⁶ | Days of Operation ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | Emissions NOx (lbs/day) ⁹ | Emissions Factor ROG (g/bhp-hr) ⁷ | Emissions ROG (lbs/day) ⁹ | Emissions Factor PM10 (g/bhp-hr) ⁷ | Emissions PM10 (lbs/day) ⁹ | Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Emissions PM2.5 (lbs/day) ⁹ | Emissions Factor CO (g/bhp-hr) ¹¹ | | Emissions Factor SO ₂ (g/bhp-hr) ¹¹ | |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D6T LGP | 2015 | 255 | 10 | 4 (Final) | 0.43 | 8 | 7 | 0.260 | 0.50 | 0.050 | 0.10 | 0.009 | 0.02 | 0.195 | 0.38 | 2.845 | 5.50 | 0.005 | 0.01 |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D8T Diesel | 2015 | 310 | 10 | 4 (Final) | 0.43 | 8 | 7 | 0.260 | 0.61 | 0.050 | 0.12 | 0.009 | 0.02 | 0.195 | 0.46 | 2.845 | 6.69 | 0.005 | 0.01 |
| Dozer (Support) | Crawler Tractors | Caterpillar D6R Diesel | 2007 | 200 | 3 | 4 (Final) | 0.43 | 2 | 7 | 0.260 | 0.10 | 0.050 | 0.02 | 0.009 | 0.00 | 0.218 | 0.08 | 1.816 | 0.69 | 0.005 | 0.00 |
| Grader | Graders | Caterpillar 140G Diesel | NA | 150 | 6 | 3 | 0.41 | 2 | 7 | 7.600 | 2.06 | 0.620 | 0.17 | 0.274 | 0.07 | 0.447 | 0.12 | 3.958 | 1.07 | 0.005 | 0.00 |
| Loader | Rubber Tired Loaders | Caterpillar 938M Diesel | 2015 | 182 | 5 | 3 | 0.36 | 2 | 7 | 12.090 | 3.49 | 1.310 | 0.38 | 0.605 | 0.17 | 0.169 | 0.05 | 1.700 | 0.49 | 0.005 | 0.00 |
| Compactor | Rollers | Caterpillar 826K Diesel | 2015 | 426 | 9 | 4 (Final) | 0.38 | 8 | 7 | 0.260 | 0.74 | 0.050 | 0.14 | 0.009 | 0.03 | 0.179 | 0.51 | 3.245 | 9.27 | 0.005 | 0.01 |
| Compactor | Rollers | Caterpillar 826K Diesel | 2015 | 426 | 5 | 4 (Final) | 0.38 | 4 | 7 | 0.260 | 0.37 | 0.050 | 0.07 | 0.009 | 0.01 | 0.179 | 0.26 | 3.245 | 4.63 | 0.005 | 0.01 |
| Backhoe | Tractors/Loaders/Backhoes | Caterpillar 426C Diesel | 2015 | 81.8 | 0 | 3 | 0.37 | 2 | 7 | 2.740 | 0.37 | 0.090 | 0.01 | 0.112 | 0.01 | 0.390 | 0.05 | 3.832 | 0.51 | 0.005 | 0.00 |
| Excavator | Excavators | John Deere 350 Diesel | 2015 | 283 | 0 | 4 (Final) | 0.38 | 6 | 7 | 0.260 | 0.37 | 0.050 | 0.07 | 0.009 | 0.01 | 0.096 | 0.14 | 1.317 | 1.87 | 0.005 | 0.01 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2015 | 380 | 22 | 4 (Final) | 0.38 | 8 | 7 | 0.260 | 0.66 | 0.050 | 0.13 | 0.009 | 0.02 | 0.159 | 0.40 | 2.037 | 5.19 | 0.005 | 0.01 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2015 | 380 | 11 | 4 (Final) | 0.38 | 4 | 7 | 0.260 | 0.33 | 0.050 | 0.06 | 0.009 | 0.01 | 0.159 | 0.20 | 2.037 | 2.59 | 0.005 | 0.01 |
| Truck Tipper | Other Construction Equipment | Columbia | 2015 | 156 | NA | 3 | 0.42 | 8 | 7 | 2.320 | 2.68 | 0.090 | 0.10 | 0.112 | 0.13 | 0.105 | 0.12 | 1.813 | 2.09 | 0.005 | 0.01 |
| Street Sweeper | Other Construction Equipment | Elgin 2019 | 2019 | 74 | NA | 4 (Final) | 0.42 | 4 | 7 | 2.740 | 0.75 | 0.090 | 0.02 | 0.009 | 0.00 | 0.193 | 0.05 | 2.042 | 0.56 | 0.005 | 0.00 |
| Totals | | | | | | | | | | | 13.04 | | 1.40 | | 0.52 | | 2.83 | | 41.16 | | 0.08 |

Table O3.6 Fugitive Dust - Paved Operations and Construction Support

| | | | | Paved Road Const. PM ₁₀ | | Paved Road |
|------------------------------|-------------------------|------------------------------------|--------------------|---------------------------------------|-----------------------------|-----------------------------|
| | | PM ₁₀ Emissions Factor, | | Emissions lb | PM _{2.5} Emissions | PM _{2.5} Emissions |
| Construction Activity | Road Distance Both Ways | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | lb per Day ³ |
| In County Public / Self Haul | 247 | 0.135 | 90% | 3.33 | 0.007 | 0.17 |
| In/County Commercial | 44 | 0.134 | 90% | 0.59 | 0.033 | 0.15 |
| Out of County Commercial | 108 | 0.178 | 90% | 1.92 | 0.044 | 0.47 |
| Operations/Support | 48 | 0.135 | 90% | 0.65 | 0.033 | 0.16 |
| Current & Proposed | | | | 6.49 | | 0.94 |

Table O3.7 Fugitive Dust - Graveled Operations & Construction

| | | | | Paved Road Const. PM ₁₀ | | Paved Road |
|---------------------------------|-------------------------|------------------------------------|--------------------|---------------------------------------|----------------|-----------------------------|
| | | PM ₁₀ Emissions Factor, | | Emissions lb | 2.5 | PM _{2.5} Emissions |
| Construction Activity | Road Distance Both Ways | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | lb per Day ³ |
| In County Public / Self Haul | 39 | 1.012 | 90% | 3.99 | 0.101 | 0.40 |
| In/County Commercial | 7 | 0.134 | 90% | 0.10 | 0.202 | 0.14 |
| Out of County Commercial | 17 | 2.290 | 90% | 3.96 | 0.229 | 0.40 |
| Construction/Operations Support | 8 | 2.030 | 90% | 1.55 | 0.203 | 0.16 |
| Totals | | | | 9.59 | | 1.09 |

Table O3.8 Fugitive Dust - Unpaved Operations

| | | | | Paved Road Const. PM ₁₀ | | Paved Road |
|------------------------|-------------------------|------------------------------------|--------------------|---------------------------------------|-----------------------------|-----------------------------|
| | | PM ₁₀ Emissions Factor, | | Emissions | PM _{2.5} Emissions | PM _{2.5} Emissions |
| Construction Activity | Road Distance Both Ways | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | per Day ³ |
| Construction Support | 0 | 2.030 | 90% | 0.00 | 0.262 | 0.00 |
| Daily Cover Haul Truck | 8 | 4.242 | 90% | 3.55 | 0.424 | 0.35 |
| Totals | | | | 3.55 | | 0.35 |

Table O3.9 Fugitive Dust - Unpaved Construction

| | | | | Paved Road | | |
|-----------------------|-------------------------|------------------------------------|--------------------|-------------------------|-----------------------------|-----------------------------|
| | | | | Const. PM ₁₀ | | Paved Road |
| | | PM ₁₀ Emissions Factor, | | Emissions | PM _{2.5} Emissions | PM _{2.5} Emissions |
| Construction Activity | Road Distance Both Ways | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | per Day ³ |
| Soil Haul Truck | 134 | 4.242 | 95% | 28.45 | 0.424 | 2.84 |
| Totals | | | | 28.45 | | 2.84 |

Table O3.10 Fugitive Dust - Waste Filling Pad (Operations)

| | | | | Paved Road Const. PM ₁₀ | | Paved Road |
|---------------------------|-------|------------------------------------|--------------------|---------------------------------------|----------------|-----------------------------|
| | | PM ₁₀ Emissions Factor, | | Emissions lb | | PM _{2.5} Emissions |
| Construction Activity | VMT | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | lb per Day ³ |
| Grader, Loader, Scraper | 11 | 1.543 | 80% | 3.37 | 0.227 | 0.50 |
| Compacting Waste & Dozers | Hr | lb/hr | | | lb/hr | |
| Compactor/Dozer | 12 | 0.753 | 75% | 2.31 | 0.414 | 1.27 |
| Unloading Daily Cover | Ton | lb/ton | | | lb/ton | |
| Daily Cover Unloading | 1,069 | 0.0002 | 25% | 0.19 | 0.000 | 0.03 |
| Totals | | | | 5.88 | | 1.80 |

Table O3.11 Fugitive Dust - Construction Area

| | | | | Paved Road | | n .n . |
|--------------------------|--------|------------------------------------|--------------------|-------------------------|-----------------------------|-----------------------------|
| | | | | Const. PM ₁₀ | | Paved Road |
| | | PM ₁₀ Emissions Factor, | | Emissions lb | PM _{2.5} Emissions | PM _{2.5} Emissions |
| Construction Activity | VMT | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | per Day ³ |
| Loader, grader, scraper | 11 | 1.543 | 90% | 1.69 | 0.227 | 0.25 |
| Ripping/Compacting | Hr | lb/hr | | | lb/hr | |
| Dozer, Compactor, Grader | 12 | 0.753 | 90% | 0.90 | 0.414 | 0.50 |
| Loading | Tons | lb/ton | | | lb/ton | |
| Daily Cover Unloading | 10,020 | 0.0002 | 25% | 1.80 | 0.000 | 0.27 |
| Totals | | | | 4.39 | | 1.02 |

JSRL DEIR Appendix B Page 3 of 6

Table O3.12 Fugitive Dust - Stockpiling Area (including screening)

| | | | | Paved Road Const. PM ₁₀ Emissions | | Paved Road PM _{2.5} Emissions |
|-------------------------|--------|--------|--------------------|--|----------------|---|
| Construction Activity | Hr | Lb/Hr | Control Efficiency | per Day | Factor, Ib/VMT | per Day ³ |
| Loader (to load screen) | 6 | 1.543 | | 9.26 | 0.227 | 1.36 |
| Dozer, Compactor, | 6 | 1.543 | 75% | 2.31 | 0.414 | 0.62 |
| Loading | Tons | | | | | |
| Screening | 2,672 | 0.0002 | 75% | 0.16 | 0.000 | 0.02 |
| Unloading | 10,020 | 0.0002 | 75% | 0.60 | 0.000 | 0.09 |
| Totals | | | | 12.33 | | 2.10 |

- 1: Average trips from Table K1 x miles on paved or unpaved road
 2: Average trips from Table K2 x miles on paved or unpaved road
 3: Assuming (Ep truck x VMT truck) + (Ep car x VMT car)
 4: Assuming (Eup truck x VMT truck) + (Ep car x VMT car)
 5: Assumes regular watering during and/or dust suppressants during dry periods per AP-42 Section 13, Figure 13.2.2-2 Moisture Ratio of 4.25
 6: Assumes 10 delivery and employee trips per project at Proposed Project mileage
 7: Assumes 4,000 cy/dwg 62 Scy/trip = 160 trips and one mile round trip to stockpile
 8: Assuming (Eup Off-Road Dump x VMT truck) + (Eup Off-Road Car x VMT car)

Dust Emissions Factor Calculation

Paved Road Emission Factor Equation for On-Site Roads

$Ep = [k(sL)^0.91 (W)^1.02]x (1-P/4N)$

Equation (1) from USEPA, AP-42 Fifth Edition, 2011, Section 13.2.1

- Where: $Ep = \text{particulate matter factor (having units matching the units of K)} \\ k = \text{particule size multiplier for particle size range and units of interest from AP-42 Table 13.2.1-1} \\ sl = \text{road surface sitl loading } (g/m2) \\ W = \text{average weight (tons) of the vehicles traveling the road} \\ P = \text{number of wet days with at least 0.01 inch or precipitation during the averaging period} \\ N = \text{number of averaging days for period}$

| When: | Out of County Units | Commercial Units | Self Haul | Operations |
|--------------------|---------------------|------------------|----------------|----------------|
| k _{2.5} = | 0.00054 lb/VMT | 0.00054 lb/VMT | 0.00054 lb/VMT | 0.00054 lb/VMT |
| $k_{10} =$ | 0.0022 lb/VMT | 0.0022 lb/VMT | 0.0022 lb/VMT | 0.0022 lb/VMT |
| sL = | 4.25 g/m2 | 4.25 g/m2 | 4.25 g/m2 | 4.25 g/m2 |
| W = | 27.00 tons | 20.5 tons | 4.4 tons | 20.7 tons |
| On Site P = | 1 days | 1 days | 1 days | 1 days |
| On Site N = | 1 days | 1 days | 1 days | 1 days |
| Then: | | | | |
| Ep2.5 = | 0.044 lb/VMT | 0.033 lb/VMT | 0.007 lb/VMT | 0.033 lb/VMT |
| Ep10 = | 0.178 lb/VMT | 0.134 lb/VMT | 0.028 lb/VMT | 0.135 lb/VMT |

Gravel Road Emission Factor

 $E = k * (s/12)^a * (W/3)^b$

- Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2

 Where:

 Eup = size-specific emission factor (lb/VMT) for unpaved surface

 k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2

 s = surface material silt content (%)

 W = mean vehicle weight (1ons)

 a = industrial road constant from AP-42, Table 13.2.2-2

 b = industrial road constant from AP-42, Table 13.2.2-2

| When: | Out of County Units | Commercial Units | Self Haul | Operations |
|--------------|---------------------|------------------|--------------|--------------|
| $k_{2.5} =$ | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT |
| $k_{10} =$ | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT |
| $_{S} =$ | 6.4 % | 6.4 % | 6.4 % | 6.4 % |
| W = | 27.0 tons | 20.5 tons | 4.4 tons | 20.7 tons |
| a = | 0.9 | 0.9 | 0.9 | 0.9 |
| b = | 0.45 | 0.45 | 0.45 | 0.45 |
| Then: | | | | |
| Eup2.5 = | 0.229 lb/VMT | 0.202 lb/VMT | 0.101 lb/VMT | 0.203 lb/VMT |
| $E_{UP}10 =$ | 2.290 lb/VMT | 2.023 lb/VMT | 1.012 lb/VMT | 2.030 lb/VMT |
| | | | | |

In-County

Unpaved Road Emission Factor

 $E = k * (s/12)^a * (W/3)^b$

Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2

Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2
Where:

Eup = size-specific emission factor (lh/VMT) for unpaved surface

k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2

s = surface material silt content (%)

W = mean vehicle weight (tons)

a = industrial road constant from AP-42, Table 13.2.2-2

b = industrial road constant from AP-42, Table 13.2.2-2

When: k_{2.5} = k₁₀ = Haul Truck Units 0.15 lb/VMT 1.5 lb/VMT Source
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-1 for industrial roads
Per AP-42 Table 13.2.2-1 for landfills, mean for construction site scraper routes
Table Q13
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-2 for industrial roads Operations Units 0.15 lb/VMT 1.5 lb/VMT 8.5 % 60.3 tons 0.9 0.45 Then: Eup2.5 = E_{UP}10 = 0.424 lb/VMT 0.262 lb/VMT

Source AP-42 Table 13.2.1-1 AP-42 Table 13.2.1-1 AP-42 Table 13.2.1-5 See Table Q12 below Assume surface low range of 1.1 on inbound leg and mean of 7.4 on outbound leg from 13.2.1.-3, average of:

JSRL DEIR Appendix B Attachment O2 Page 4 of 6

Source
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-1 for landfills, mean of graveled roads
Table 02
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-2 for industrial roads

Table O3.13 Vehicle Weight Assumptions (assumes full load in and empty out)

| Category | Type | Percent | GVW, lb | NVW, lb | Average, lb | Av Tons |
|--|------------------------|---------|---------|---------|------------------|---------|
| Small Vehicle (Public /Self Haul) | Ford F250 Gross Weight | NA | 9,900 | 7,700 | 8,800 | 4.4 |
| In County Commercial | Garbage Truck | NA | 51,000 | 31,000 | 41,000 | 20.5 |
| Out of County Commercial | Waste Transfer Truck | NA | 75,000 | 33,000 | 54,000 | 27.0 |
| Support Vehicles For Construction | | | | | | |
| Average of: | Miles | | | | | |
| Ford Mechanic Truck (DSL) | 2 | 5% | 14,000 | 8,600 | 11,300 | 5.7 |
| Ford F450 Flat Bed (DSL) | 1 | 2% | 14,000 | 8,600 | 11,300 | 5.7 |
| Water Truck (DSL), 4,000 gal | 32 | 76% | 63,000 | 29500 | 46,250 | 23.1 |
| Support Light Heavy Duty Trucks (2, DSL) | 4 | 10% | 14,000 | 8,600 | 11,300 | 5.7 |
| Tractor Trailer Delivery (DSL) | 1 | 2% | 75,000 | 33,000 | 54,000 | 37.5 |
| Carpool Vehicles (2, Gas) | 2 | 5% | 51,000 | 31,000 | 41,000 | 25.5 |
| Total | 42 | | | | Weighted Average | 20.7 |
| Off Road Dump | CAT 740 | NA | 162,399 | 78,632 | 120,516 | 60.3 |

GVW: Gross vehicle weight including load NVWL Net vehicle weight or :"curb weight" without load Source: US. EPA, Fifth Edition AP-42, Section 13.2.

Grading Equipment Passes Use for graders, loaders, rubber tired dozers, and scrapers to scrape or push soil

 $EF_{PM15} = 0.051 \text{ x (S)}^{2.0}$, and $EF_{PM10} = EF_{PM15} \text{ x } F_{PM10}$. Used for PM_{10}

EF_{TSP} - 0.4 x (S) $^{2.5}$, and EF $_{PM2.5}$ = EF_{TSP} x F_{PM2.5}, Used for PM_{2.5}

Source: CalEEMod 2020.4.0, Appendix A Page 8

Where:

| EF = emissions factor (lb/VMT) | | | Typical grading areas | Acres per day |
|--|-----------------|------|--|---------------|
| S = mean vehicle speed (mph) | AP-42 Default = | 7.1 | Crawler Tractors (Dozer) | 0.5 |
| $F_{PM2.5} = PM_{2.5}$ scaling factor. | AP-42 Default = | 0.03 | Graders | 0.5 |
| F _{PM10} = PM ₁₀ scaling factor. | AP-42 Default = | 0.6 | Rubber -Tired Dozers | 0.5 |
| | | | and the second s | |

1.543 lb/VMT 0.227 lb/VMT $EF_{PM10} = EF_{PM2.5} =$

JSRL DEIR Appendix B Attachment O2

Lawrence & Associates Page 5 of 6

Bulldozers Passes Use for compactors & tracked dozers

 $EF_D = k \times (0.0032) \times ((U/5)^{1.3} / (M/2)^{1.4})$

Truck Loading

```
From CalEEMod Appendix A and AP-42 Section 13.2.4

Where: 

EF = emissions factor (lb ton) 
k = Particle size multiplier

U = mean wind speed (mph) 
M = Material moisture content 

Per AP-42 defaults for Overburder

PM<sub>.10</sub> = 0.35 
PM<sub>.25</sub> = 0.053 

M = 7.90 
AP-42 Table 13.2.4-1 clay/dirt mix
```

Asphalt

While there is no specific screen associated with asphalt paving emissions, CalEEMod estimates VOC off-gassing emissions associated with asphalt paving of parking lots using the following equation: Source CalEEMod Users Manual, 2020, Page 18

$$\begin{split} E_{AP} = EF_{AP} \times A_{Purking} \\ Where: E = emissions (lb) \\ EF = emission factor (lb/acre). The SMAQMD default emission factor is 2.62 lb/acre.16 \\ A = area of the parking lot (acre) \\ E_{AP} = 9.17 lb. VOC /acre \\ Acres of New Pavement 3.5. A cres \\ Das of Construction = 2 \\ E_{AP} = 4.585 lb. VOC /day \end{split}$$

JSRL DEIR Appendix B Attachment O2
Page 6 of 6

Lawrence & Associates

John Smith Road Landfill

Attachment O4 - Scenario 2 West

Alternatives Assessment - Combination Construction & Operations

Table O4.1 - Summary Table - Scenario 2

| Location | PM ₁₀ , lb/day | PM _{2.5} , lb/day | ROG, lb/day | NOx, lb day | CO, lb day | SO2, lb/day |
|--|---------------------------|----------------------------|-------------|-------------|------------|-------------|
| Emissions from Paved Road | 8.96 | 1.38 | 2.42 | 2.12 | 2.06 | 0.04 |
| Emissions from Graveled Road | 15.21 | 1.74 | 0.45 | 0.39 | 0.38 | 0.01 |
| Emissions from Unpaved Road | 5.95 | 0.72 | 0.68 | 0.60 | 0.58 | 0.01 |
| Emissions from Soil Haul Path | 17.68 | 1.77 | 0.70 | 3.66 | 16.63 | 0.02 |
| Emissions from Waste Disposal Area | 3.20 | 1.91 | 1.08 | 8.97 | 22.65 | 0.06 |
| Emissions from Construction Area | 4.70 | 1.02 | 0.63 | 5.62 | 18.90 | 0.06 |
| Emissions from Stockpile | 1.34 | 1.30 | 0.21 | 0.39 | 5.29 | 0.01 |
| Flare or IC (peak) ¹ | 0.44 | 0.45 | 4.22 | 49.89 | 2.27 | 214.91 |
| Peak LFG Fugitive Emissions | NA | NA | 10.81 | NA | NA | NA |
| Indirect (peak tonnage day, off site)App L | NA | NA | 0.29 | 22.57 | NA | NA |
| Entrance Queuing | 0.00 | 0.00 | 0.10 | 1.05 | 1.45 | 0.00 |
| Total | 57.48 | 10.30 | 21.60 | 95.25 | 70.22 | 215.11 |
| Baseline (2021) | 80.80 | 14.35 | 19.88 | 63.73 | 66.46 | 42.79 |
| Change from Baseline | -23.31 | -4.06 | 1.72 | 31.51 | 3.76 | 172.32 |
| MBARD Thresholds | 82 | 82 | 137 | 137 | 550 | 150 |

- Notes:

 1: The values for ROG and CO from the flare represent the detection limit. The actual value will be lower.

 2: Described as VOC in CEQA Guidelines (Assume ROG is synonymous)

 3: Described as NO_X as NO₂ in CEQA Guidelines. Assume all NO_X is NO₂ for this analysis.

 4: Describes as SO_X as SO₂ in CEQA Guidelines. Assume all SO_X is SO₂ for this analysis.

Variables

| v at tables | | | | | | | |
|----------------------------------|--------|------------------------|----------------------|-----------------|---------------|---------------------|------|
| Project Year | 2030 | | | | | | |
| Waste Delivery Miles - Paved | 4,080 | 0.77 | Miles One | Way | | | 4,84 |
| Waste Delivery Miles - Graveled | 760 | 0.14 | Miles One | Way | | | |
| Construction Access - Unpaved | 1,150 | 0.22 | Miles One | Way In Addition | on to Waste I | Delivery | |
| Construction Soil Haul - Unpaved | 920 | 0.17 | Miles One | Way | | | |
| Construction Area | | 7.9 | Acres | | | | |
| Stockpile Area | | 8.7 | Acres | | | | |
| Waste Disposal Area | | 1 | Acres | Assume 20 | 00 x 200 worl | king face | |
| Assumed Speeds | | | | | | | |
| Compactor Speed | 3 | mph | | | | | |
| Dozer Speed | 3 | mph | | | | | |
| Loader Speed | 7.1 | mph, AP-42 Default | | | | | |
| Grader Speed | 7.1 | mph, AP-42 Default | | | | | |
| Off-Road Haul Truck Speed | 7.1 | mph, AP-42 Default | | | | | |
| Excavator Speed | 0 | mph | mostly stat | ionary | | | |
| Backhoe Speed | 0 | mph | mostly stat | tionary | | | |
| Construction Excavation | 6,000 | cy | | | | | |
| Construction Excavation | 10,020 | tons @1.67 t/cy | 239 | Loads | 41.68 | Total Miles One way | |
| Daily Cover Excavation | 320 | cy (2000 tpd waste /0. | .75 x 0.12 cy soil/o | y waste | | | |
| Daily Cover Excavation | 534 | tons @1.67 t/cy | 15 | Loads = | 2.60 | Total Miles One way | |
| | | | | | | | |

Waste Delivery On-Site Emissions - Assuming

See Footnotes on Attachment O1

ruction or Operations Peak Day

| | | Vehicle Properties | | | | | | | | | | | | | | | | | | Emission Fa | actors and C | Calculations | | | | | | | | | | | | |
|---|------------------|--------------------|--------------------------|--------------------|------------------------------------|--------------------------------------|--------------------|-----------------------------|---------------------------------|---|-----------------------------------|--|------------|-----------|---|---|--|-----------|----------|-------------|--|-------------------|----------------|-------------------|---|-------------------------------|-----------------|-----------|---------------------|--------------------|-----------|----------|---|---------|
| On-Road Vehicles | Vehicle Category | Trips/Day | Trip Dist (both ways) | Total Miles Day | Paved Miles / Day (both ways | Graveled Miles/Day (both ways) | Miles/Day (both | Load Factor ⁵ | RUNEX Emissions Factor NO | RUNEX Emissions NOx (lbs/day) ⁸ | STREX Emissions NOx (g/trip | STREX Emissions Factor NOx (lb/day) | Factor ROG | Emissions | STREX Emissions Factor ROG (g/trip) ¹⁰ | STREX Emissions ROG (lbs/day) ⁸ | RUNLOSS Emissions Factor ROG (g/trip) ¹⁰ | Emissions | | PM10 | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Emissions PM10 | Factor PM10 | Emissions PM10 | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | Exhaust Emissions PM2.5 | Factor PM2.5 | Tire Wear | Emissions Factor | Emissions PM2.5 | Factor CO | CO | Emissions Factor SOx (g/mile) ¹⁰ | |
| ord Mechanic Truck (DSL) | LHD1 | 2 | 4.5 | 4.5 | 3.1 | 0.6 | 0.9 | 1 | 1.79 | 0.0 | 0.00 | 0.000 | 1.69E-01 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 2.54E-02 | 0.000 | 1.20E-02 | 0.000 | 7.64E-02 | 0.001 | 2.43E-02 | 0.000 | 0.003 | 0.000 | 0.033 | 0.000 | 8.28E-01 | 0.008 | 4.96E-03 | 5E-03 |
| ord F450 Flat Bed (DSL) | LHD2 | 1 | 2.3 | 2.3 | 1.5 | 0.3 | 0.4 | 1 | 1.30 | 0.0 | 0.00 | 0.000 | 1.56E-01 | 0.001 | 0.00 | 0.000 | 0.00 | 0.000 | 2.65E-02 | 0.000 | 1.20E-02 | 0.000 | 8.92E-02 | 0.000 | 2.54E-02 | 0.000 | 0.003 | 0.038 | 0.038 | 0.000 | 7.72E-01 | 0.004 | 5.54E-03 | 3E-05 |
| /ater Truck (DSL) ¹ | T6 CAIRP heavy | 32 | 72.6 | 72.6 | 49.5 | 9.2 | 13.9 | 1 | 2.86 | 0.5 | 0.00 | 0.000 | 1.02E-02 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 1.79E-02 | 0.003 | 1.20E-02 | 0.002 | 1.30E-01 | 0.021 | 1.71E-02 | 0.003 | 0.003 | 0.000 | 0.001 | 0.000 | 8.47E-02 | 0.014 | 9.01E-03 | 1E-03 |
| upport Light Heavy Duty Trucks (2, DSL) | LHD1 | 4 | 9.1 | 9.1 | 6.2 | 1.2 | 1.7 | 1 | 1.79 | 0.0 | 0.00 | 0.000 | 1.69E-01 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 2.54E-02 | 0.001 | 1.20E-02 | 0.000 | 7.64E-02 | 0.002 | 2.43E-02 | 0.000 | 0.003 | 0.000 | 3.28E-02 | 0.001 | 8.28E-01 | 0.017 | 4.96E-03 | 1E-04 |
| ractor Trailer Delivery (DSL) | T7 CAIRP | 1 | 2.3 | 2.3 | 1.5 | 0.3 | 0.4 | 1 | 2.12 | 0.0 | 0.00 | 0.000 | 2.02E-02 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 2.86E-02 | 0.000 | 3.60E-02 | 0.000 | 6.17E-02 | 0.000 | 2.74E-02 | 0.000 | 0.009 | 0.000 | 0.026 | 0.000 | 1.88E-01 | 0.001 | 1.02E-02 | 5E-05 |
| arpool Vehicles (2, Gas) | LDT1 | 2 | 4.5 | 4.5 | 3.1 | 0.6 | 0.9 | 1 | 0.03 | 0.0 | 0.17 | 0.001 | 7.13E-01 | 0.007 | 0.21 | 0.001 | 0.46 | 0.002 | 1.08E-03 | 0.000 | 8.00E-03 | 0.000 | 3.68E-02 | 0.000 | 9.97E-04 | 0.000 | 0.002 | 0.000 | 0.016 | 0.000 | 5.01E-01 | 0.005 | 2.52E-03 | 3E-05 |
| otals | | | | 95 | 64.9 | 12 | 18 | | | 0.529 | | 0.001 | | 0.013 | | 0.001 | | 0.002 | | 0.004 | | 0.003 | | 0.024 | | 0.004 | | 0.039 | | 0.002 | | 0.048 | | 0.007 |
| rorated by Mile | | | | | | | | | | 5.55E-03 | | 8.06E-06 | | 1.37E-04 | | 9,78E-06 | | 2.13E-05 | | 4.10E-05 | | 2.73E-05 | | 2.55E-04 | | 3.93E-05 | | 4.08E-04 | | 1.66E-05 | | 5.06E-04 | | 7.40E-0 |

Notes: Assume 2 start per day.

Attachment O4
Lawrence & Associates JSRL DEIR Appendix B 1 of 4

Table O4.3 - On-Road Waste Delivery On-Site Vehicles Proposed Project Peak Tonnage Day

Assuming 2030 Emissions Year Miles On Site

| | | Site Properties | | | | | | | | | | | | | | | | | | Emission F | actors and C | Calculations | | | | | | | | | | | | |
|-----------------------------------|---|--|-----|--------------------|--------------------------|------------|--|---|--|---|------------------------------------|------------|------------|----------|---|---|--|-----------|--|--|--|--|-------|-------------------|---|---|-----------------|-----------|---------------------|---|-----------|----------|------------|----------|
| On-Road Vehicles | Vehicle Category | Trips / Day (Peak Tonnage) from Att K | | Total Miles Day | / Miles on Paved Road | | Unpaved Miles/Day (both ways) | | RUNEX Emissions Factor NOx (g/mile) ¹⁰ | RUNEX Emissions NOx (lbs/day) ⁸ | STREX Emissions NOx (g/trip) | Factor NOx | Factor ROG | ROG | STREX Emissions Factor ROG (g/trip) ¹⁰ | STREX Emissions ROG (lbs/day) ⁸ | RUNLOSS Emissions Factor ROG (g/trip) ¹⁰ | Emissions | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Exhaust Emissions PM10 (lbs/day) ⁸ | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Tire Wear Emissions PM10 (lbs/day) ⁸ | | Emissions PM10 | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | Exhaust Emissions PM2.5 (lbs/day) ⁸ | Factor PM2.5 | Tire Wear | Emissions Factor | Brake Emissions PM2.5 (lbs/day) ⁸ | Factor CO | | Factor SOx | |
| n-County Self Haul/Residential 12 | Light/Heavy Duty Trucks (LHD-1 - Gas) | 217 | 398 | 492 | 335 | 62 | 95 | 1 | 0.163 | 0.143 | 0.47 | 0.415 | 0.027 | 0.024 | 0.10 | 0.091 | 1.22 | 1.068 | 0.002 | 0.002 | 0.008 | 0.007 | 0.076 | 0.067 | 0.002 | 0.002 | 0.002 | 0.002 | 0.033 | 0.029 | 0.524 | 0.460 | 0.009 | 0.008 |
| n-County Commercial Diesel | T7-SWCV (Dsl) | 29 | 53 | 65 | 45 | 8 | 13 | 1 | 0.464 | 0.054 | 5.53 | 0.645 | 0.024 | 0.003 | 0.00 | 0.000 | 0.00 | 0.000 | 0.018 | 0.002 | 0.036 | 0.004 | 0.062 | 0.007 | 0.017 | 0.002 | 0.009 | 0.001 | 0.026 | 0.003 | 0.066 | 0.008 | 0.028 | 0.003 |
| n County Commercial CNG | T7-SWCV (NG) | 10 | 19 | 23 | 16 | 3 | 4 | 1 | 0.313 | 0.013 | 0.00 | 0.000 | 0.043 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 0.003 | 0.000 | 0.036 | 0.001 | 0.062 | 0.003 | 0.003 | 0.000 | 0.009 | 0.000 | 0.026 | 0.001 | 11.219 | 0.460 | 0.000 | 0.000 |
| Out of County Commercial 2 | Heavy-Heavy Duty Trucks (Ta CAIRP - Dsl) | 95 | 174 | 216 | 147 | 27 | 41 | 1 | 2.120 | 0.814 | 2.23 | 0.857 | 0.024 | 0.009 | 0.00 | 0.000 | 0.00 | 0.000 | 0.029 | 0.011 | 0.036 | 0.014 | 0.027 | 0.011 | 0.009 | 0.003 | 0.009 | 0.003 | 0.026 | 0.010 | 0.188 | 0.072 | 0.010 | 0.004 |
| TOTALS | | 351 | | 796 | 542 | 101.045455 | 153 | | | 1.024 | | | | 0.038 | | 0.091 | | 1.068 | | 0.015 | | 0.027 | | 0.087 | | 0.007 | | 0.007 | | 0.043 | | 0.999 | | 0.015 |
| rorated by Mile | _ | | | | | | | | | 1.29E-03 | | 0.00E+00 | | 6,95E-05 | | 1.68E-04 | | 1.97E-03 | | 2.81E-05 | | 4.89E-05 | | 1.61E-04 | | 1,37E-05 | | 1.22E-05 | | 7.94E-05 | | 1.84E-03 | | 2.79E-05 |

Table O4.4 - Emissions from Off-Road Vehicles for Construction Peak Day

Assuming 2025 Model Year or Better for PM2.5, CO, and SO2

Assuming Tier 4 final for all equipment over 200 hp

| | | Vehicle Properti | es | | | | | | | | | | | Air Quality | / Emission F | actors and Cal | culations | | | | |
|---------------------------------------|---|---|-----------------------|-----------------|------------|-------------------|-----------------------------|--|-----------------------------------|--|--|--|--|--|--|--|--|---|---|--|------|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/ Model/ Fuel ² | Model Year (motor) | HP ³ | Miles /Day | Tier ⁴ | Load Factor ⁵ | Peak Operating Hours per Day ⁶ | Days of Operation ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | Emissions NOx (lbs/day) ⁹ | Emissions Factor ROG (g/bhp-hr) ⁷ | Emissions ROG (lbs/day) ⁹ | Exhaust Emissions Factor PM10 (g/bhp-hr) ⁷ | Exhaust Emissions PM10 (lbs/day) ⁹ | Emissions Factor PM2.5 (g/bhp hr) ¹¹ | Emissions PM2.5 (lbs/day) ⁹ | Emissions Factor CO (g/bhp-hr) ⁷ | Emissions CO (lbs/day) ⁹ | Emissions Factor SO ₂ (g/bhp-hr) ⁷ | |
| Dozer (not used for bulk exc.) | Crawler Tractors | Caterpillar D6T LGP | 2025 | 165 | 24 | 3 | 0.43 | 8 | 7 | 2.32 | 2.90 | 0.09 | 0.11 | 0.112 | 0.14 | 0.138 | 0.17 | 3.209 | 4.02 | 0.005 | 0.01 |
| Dozer | Crawler Tractors | Caterpillar D8T Diesel | 2025 | 310 | 24 | 4 (Final) | 0.43 | 8 | 7 | 0.26 | 0.61 | 0.05 | 0.12 | 0.009 | 0.02 | 0.074 | 0.17 | 1.717 | 4.04 | 0.005 | 0.01 |
| Dozer (Stockpile Area) | Crawler Tractors | Caterpillar D6R Diesel | 2025 | 140 | 12 | 3 | 0.43 | 4 | 7 | 2.32 | 1.23 | 0.09 | 0.05 | 0.112 | 0.06 | 0.138 | 0.07 | 3.209 | 1.70 | 0.005 | 0.00 |
| Grader (not used for bulk excav.) | Graders | Caterpillar 140G Diesel | 2025 | 150 | 0 | 3 | 0.41 | 0 | 7 | 2.32 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.140 | 0.00 | 3.418 | 0.00 | 0.005 | 0.00 |
| Loader (Stockpile Area for Screening) | Rubber Tired Loaders | Caterpillar 938M Diesel | 2025 | 190 | 56.8 | 3 | 0.36 | 8 | 7 | 2.32 | 2.80 | 0.09 | 0.11 | 0.088 | 0.11 | 0.045 | 0.05 | 1.142 | 1.38 | 0.005 | 0.01 |
| Pad-Foot Compactor | Rollers | Caterpillar 826C Diesel | 2025 | 341 | 27 | 4 (Final) | 0.38 | 9 | 7 | 0.26 | 0.67 | 0.05 | 0.13 | 0.009 | 0.02 | 0.083 | 0.21 | 1.968 | 5.06 | 0.005 | 0.01 |
| Smooth Drum Roller (NA) | Rollers | Caterpillar CS34 Diesel | 2025 | 74 | 0 | 3 | 0.38 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.125 | 0.00 | 3.444 | 0.00 | 0.005 | 0.00 |
| Backhoe (NA) | Tractors/Loaders/ Backhoes | Caterpillar 426C Diesel | 2025 | 88 | 0 | 3 | 0.37 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.079 | 0.00 | 3.522 | 0.00 | 0.005 | 0.00 |
| Excavator (2) | Excavators | John Deere 350 Diesel | 2025 | 271 | 0 | 4 (Final) | 0.38 | 18 | 7 | 0.26 | 1.06 | 0.05 | 0.20 | 0.009 | 0.04 | 0.024 | 0.10 | 1.051 | 4.29 | 0.005 | 0.02 |
| Screening Plant (Stockpile Area) | Other Construction Equipment | t Spyder 514TS Diesel | 2025 | 74 | 0 | 3 | 0.42 | 9 | 7 | 2.74 | 1.69 | 0.09 | 0.06 | 0.192 | 0.12 | 0.187 | 0.12 | 3.584 | 2.21 | 0.005 | 0.00 |
| Extended Loader (for liner) | Tractors/Loaders/ Backhoes | JCB 20TC | 2025 | 74 | 0 | 3 | 0.37 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.079 | 0.00 | 3.522 | 0.00 | 0.005 | 0.00 |
| Off-Road Dump/haul truck (3) | Off-Highway Trucks | Caterpillar 740 diesel | 2025 | 453 | 191.7 | 4 (Final) | 0.38 | 27 | 7 | 0.26 | 2.66 | 0.05 | 0.51 | 0.009 | 0.09 | 0.035 | 0.36 | 1.182 | 12.11 | 0.005 | 0.05 |
| Totals | • | • | | | | • | • | • | • | | 13.63 | | 1.29 | | 0.60 | | 1.26 | | 34.81 | | 0.11 |

Table O4.5 Off-Road Vehicles for Operations - Future - 2030

Assuming 2025 Model Year or Better for PM2.5, CO, and SO2

| | V | chicle Properties | | | | | | Operation | Properties | | | | | Emis | sion Factors | and Calculatio | ons | | | | |
|--------------------|---|--|-----------------------|-----------------|------------------|-------------------|-----------------------------|------------------------------------|-----------------------------------|--|--|--|--|-------------|---|--|--|--|---|---|--|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/Model/ Fuel ² | Model Year (motor) | HP ³ | Miles Per Day | Tier ⁴ | Load Factor ⁵ | Peak Hours per Day ⁶ | Days of Operation ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | Emissions NOx (lbs/day) ⁹ | Emissions Factor ROG (g/bhp-hr) ⁷ | Emissions ROG (lbs/day) ⁹ | Factor PM10 | Emissions PM10 (lbs/day) ⁹ | Emissions Factor PM2.5 (g/bhp hr) ¹¹ | Emissions PM2.5 (lbs/day) ⁹ | Emissions Factor CO (g/bhp-hr) ¹¹ | Emissions CO (lbs/day) ⁹ | Emissions Factor SO ₂ (g/bhp-hr) ¹¹ | Emissions SO ₂ (lbs/day) ⁹ |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D6T LGP | 2025 | 255 | 10 | 4 (Final) | 0.43 | 8 | 7 | 0.260 | 0.50 | 0.050 | 0.10 | 0.009 | 0.02 | 0.074 | 0.14 | 1.717 | 3.32 | 0.005 | 0.01 |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D8T Diesel | 2025 | 310 | 10 | 4 (Final) | 0.43 | 8 | 7 | 0.260 | 0.61 | 0.050 | 0.12 | 0.009 | 0.02 | 0.074 | 0.17 | 1.717 | 4.04 | 0.005 | 0.01 |
| Dozer (Support) | Crawler Tractors | Caterpillar D6R Diesel | 2025 | 200 | 3 | 4 (Final) | 0.43 | 2 | 7 | 0.260 | 0.10 | 0.050 | 0.02 | 0.009 | 0.00 | 0.088 | 0.03 | 1.308 | 0.50 | 0.005 | 0.00 |
| Grader | Graders | Caterpillar 140G Diesel | 2025 | 150 | 6 | 4 (Final) | 0.41 | 2 | 7 | 7.600 | 2.06 | 0.620 | 0.17 | 0.274 | 0.07 | 0.140 | 0.04 | 3.418 | 0.93 | 0.005 | 0.00 |
| Loader | Rubber Tired Loaders | Caterpillar 938M Diesel | 2025 | 182 | 5 | 4 (Final) | 0.36 | 2 | 7 | 12.090 | 3.49 | 1.310 | 0.38 | 0.605 | 0.17 | 0.104 | 0.03 | 1.269 | 0.37 | 0.005 | 0.00 |
| Compactor | Rollers | Caterpillar 826K Diesel | 2025 | 426 | 9 | 4 (Final) | 0.38 | 8 | 7 | 0.260 | 0.74 | 0.050 | 0.14 | 0.009 | 0.03 | 0.083 | 0.24 | 1.968 | 5.62 | 0.005 | 0.01 |
| Compactor | Rollers | Caterpillar 826K Diesel | 2025 | 426 | 5 | 4 (Final) | 0.38 | 4 | 7 | 0.260 | 0.37 | 0.050 | 0.07 | 0.009 | 0.01 | 0.083 | 0.12 | 1.968 | 2.81 | 0.005 | 0.01 |
| Backhoe | Tractors/Loaders/Backhoes | Caterpillar 426C Diesel | 2025 | 81.8 | 0 | 4 (Final) | 0.37 | 2 | 7 | 0.260 | 0.03 | 0.050 | 0.01 | 0.009 | 0.00 | 0.079 | 0.01 | 3.522 | 0.47 | 0.005 | 0.00 |
| Excavator | Excavators | John Deere 350 Diesel | 2025 | 283 | 0 | 4 (Final) | 0.38 | 6 | 7 | 0.260 | 0.37 | 0.050 | 0.07 | 0.009 | 0.01 | 0.024 | 0.03 | 1.051 | 1.49 | 0.005 | 0.01 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2025 | 380 | 22 | 4 (Final) | 0.38 | 8 | 7 | 0.260 | 0.66 | 0.050 | 0.13 | 0.009 | 0.02 | 0.035 | 0.09 | 1.182 | 3.01 | 0.005 | 0.01 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2025 | 380 | 11 | 4 (Final) | 0.38 | 4 | 7 | 0.260 | 0.33 | 0.050 | 0.06 | 0.009 | 0.01 | 0.035 | 0.04 | 1.182 | 1.51 | 0.005 | 0.01 |
| Truck Tipper | Other Construction Equipmen | t Columbia | 2025 | 156 | NA | 4 (Final) | 0.42 | 8 | 7 | 0.260 | 0.30 | 0.050 | 0.06 | 0.009 | 0.01 | 0.103 | 0.12 | 3.136 | 3.62 | 0.005 | 0.01 |
| Street Sweeper | Other Construction Equipmen | Elgin 2019 | 2025 | 74 | NA | 4 (Final) | 0.42 | 4 | 7 | 2.740 | 0.75 | 0.090 | 0.02 | 0.009 | 0.00 | 0.187 | 0.05 | 3.584 | 0.98 | 0.005 | 0.00 |
| Totals | • | • | | | | | • | • | • | | 10.33 | | 1.35 | | 0.39 | | 1.12 | | 28,66 | | 0.08 |

Table O4.6 Fugitive Dust - Paved Operations and Construction Support

| Construction Astricts | David Distance Book Wasse | PM ₁₀ Emissions Factor, | Control Efficiency | Paved Road Const. PM ₁₀ Emissions lb per Dav ³ | Emissions | Paved Road PM _{2.5} Emissions lb |
|------------------------------|---------------------------|------------------------------------|-----------------------|---|-----------|---|
| Construction Activity | Road Distance Both Ways | | | 1 | | per Day |
| In County Public / Self Haul | 335 | 0.135 | 90% | 4.53 | 0.007 | 0.23 |
| In/County Commercial | 60 | 0.134 | 90% | 0.81 | 0.033 | 0.20 |
| Out of County Commercial | 147 | 0.178 | 90% | 2.61 | 0.044 | 0.64 |
| Operations/Support | 65 | 0.135 | 90% | 0.88 | 0.033 | 0.22 |
| Current & Proposed | | | | 8.83 | | 1.28 |

Table O4.7 Fugitive Dust - Graveled Operations & Construction

| Construction Activity | Road Distance Both Ways | PM ₁₀ Emissions Factor, lb/VMT | Control Efficiency | Paved Road Const. PM ₁₀ Emissions lb per Day ³ | Emissions | Paved Road PM _{2.5} Emissions lb per Day ³ |
|---------------------------------|-------------------------|--|-----------------------|---|-----------|---|
| In County Public / Self Haul | 62 | 1.012 | 90% | 6.32 | 0.101 | 0.63 |
| In/County Commercial | 11 | 0.134 | 90% | 0.15 | 0.202 | 0.23 |
| Out of County Commercial | 27 | 2.290 | 90% | 6.26 | 0.229 | 0.63 |
| Construction/Operations Support | 12 | 2.030 | 90% | 2.45 | 0.203 | 0.25 |
| Totals | | | | 15.19 | | 1.73 |

Note: Increased time for this analysis

For a typical construction project, it is assumed that highest emissions takes place during the bulk excavation phase - assuming site-specific excavation equipment consisting primarily of two scrapers and a dozer as listed above as Tier 4. Additional equipment

Table O4.8 Fugitive Dust - Unpaved Operations

| rubic o no rugitive buse empareu oper | | | | | | |
|---------------------------------------|-------------------------|-----------------------------|------------|--|---|--|
| | | PM_{10} Emissions Factor, | Control | Paved Road Const. PM ₁₀ Emissions | PM _{2.5} Emissions Factor, | Paved Road PM _{2.5} Emissions |
| Construction Activity | Road Distance Both Ways | lb/VMT | Efficiency | per Day ³ | lb/VMT | per Day ³ |
| Construction Support | 18 | 2.030 | 90% | 3.71 | 0.262 | 0.48 |
| Daily Cover Haul Truck | 5 | 4.242 | 90% | 2.21 | 0.424 | 0.22 |
| Totals | | | | 5.92 | | 0.70 |

Table O4.9 Fugitive Dust - Unpaved Construction

| Construction Activity | Road Distance Both Ways | PM ₁₀ Emissions Factor, | | Paved Road Const. PM ₁₀ Emissions per Dav ³ | 1 1412.5 | Paved Road PM _{2.5} Emissions per Day ³ |
|-----------------------|-------------------------|------------------------------------|------|--|----------|--|
| Soil Haul Truck | 83 | 4,242 | 95% | 17.68 | 0.424 | 1.77 |
| Totals | 03 | 7.292 | /3/0 | 17.68 | 0.424 | 1.77 |

Table O4.10 Fugitive Dust - Waste Filling Pad (Operations)

| Construction Activity | VMT | PM ₁₀ Emissions Factor, | Control Efficiency | Paved Road Const. PM ₁₀ Emissions lb per Day ³ | | Paved Road PM _{2.5} Emissions lb per Day ³ |
|---------------------------|-------|------------------------------------|-----------------------|---|--------|---|
| Grader, Loader, Scraper | 11 | 1.543 | 90% | 1.69 | 0.227 | 0.25 |
| Compacting Waste & Dozers | Hr | lb/hr | | | lb/hr | |
| Compactor/Dozer | 12 | 0.753 | 90% | 0.93 | 0.414 | 0.51 |
| Unloading Daily Cover | Ton | lb/ton | | | lb/ton | |
| Daily Cover Unloading | 1,069 | 0.0002 | 25% | 0.19 | 0.000 | 0.03 |
| Totals | | | | 2.80 | | 0.79 |

Table O4.11 Fugitive Dust - Construction Area

| Construction Activity | VMT | PM ₁₀ Emissions Factor, | Control Efficiency | Paved Road Const. PM ₁₀ Emissions lb per Day ³ | Emissions | Paved Road PM _{2.5} Emissions per Day ³ |
|--------------------------|--------|------------------------------------|-----------------------|---|-----------|--|
| Loader, grader, scraper | 11 | 1.543 | 90% | 1.69 | 0.227 | 0.25 |
| Ripping/Compacting | Hr | lb/hr | 7070 | 1.07 | lb/hr | 0.23 |
| Dozer, Compactor, Grader | 12 | 0.753 | 90% | 0.90 | 0.414 | 0.50 |
| Loading | Tons | lb/ton | | | lb/ton | |
| Daily Cover Unloading | 10,020 | 0.0002 | 25% | 1.80 | 0.000 | 0.27 |
| Totals | | | | 4.39 | | 1.02 |

Table O4.12 Fugitive Dust - Stockpiling Area (including screening)

| | | | Control | Paved Road Const. PM ₁₀ Emissions | | Paved Road PM _{2.5} Emissions |
|-------------------------|--------|--------|------------|--|--------|--|
| Construction Activity | Hr | Lb/Hr | Efficiency | per Day ³ | lb/VMT | per Day ³ |
| Loader (to load screen) | 6 | 1.543 | 75% | 2.31 | 0.227 | 0.34 |
| Dozer, Compactor, | 6 | 1.543 | 75% | 2.31 | 0.414 | 0.62 |
| Loading | Tons | | | | | |
| Screening | 887 | 0.0002 | 75% | 0.05 | 0.000 | 0.01 |
| Unloading | 10,020 | 0.0002 | 75% | 0.60 | 0.000 | 0.09 |
| Totals | | | | 5.28 | | 1.06 |

- 1: Average trips from Table K1 x miles on paved or unpaved road
 2: Average trips from Table K2 x miles on paved or unpaved road
 3: Assuming (Ep truck x VMT truck) + (Ep car x VMT car)
 4: Assuming (Ep truck x VMT truck) + (Ep car x VMT car)
 5: Assumes regular watering during and/or dust suppressants during dry periods per AP-42 Section 13, Figure 13.2.2-2 Moisture Ratio of 4.25
 6: Assumes 10 delivery and employee trips per project at Proposed Project mileage
 7: Assumes 4,000 cy/day 2.5 cytrip = 100 trips and one mile round trip to stockpile
 8: Assuming (Eup Off-Road Dump x VMT truck) + (Eup Off-Road Car x VMT car)

Dust Emissions Factor Calculation

Paved Road Emission Factor Equation for On-Site Roads

 $Ep = [k(sL)^0.91 (W)^1.02] \times (1-P/4N)$

Equation (1) from USEPA, AP-42 Fifth Edition, 2011, Section 13.2.1

- Where:

 Ep = particulate matter factor (having units matching the units of K)

 k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.1-1

 sl. = road surface silt loading (g/m2)

 W = average weight (tons) of the vehicles traveling the road

 P = number of wet days with at least 0.01 inch or precipitation during the averaging period

 N = number of averaging days for period

| | | In-County | | |
|--------------------|---------------------|------------------|----------------|----------------|
| When: | Out of County Units | Commercial Units | Self Haul | Operations |
| k _{2.5} = | 0.00054 lb/VMT | 0.00054 lb/VMT | 0.00054 lb/VMT | 0.00054 lb/VMT |
| $k_{10} =$ | 0.0022 lb/VMT | 0.0022 lb/VMT | 0.0022 lb/VMT | 0.0022 lb/VMT |
| sL = | 4.25 g/m2 | 4.25 g/m2 | 4.25 g/m2 | 4.25 g/m2 |
| W = | 27.00 tons | 20.5 tons | 4.4 tons | 20.7 tons |
| On Site P = | 1 days | 1 days | 1 days | 1 days |
| On Site N = | 1 days | 1 days | 1 days | 1 days |
| Then: | | | | |
| Ep2.5 = | 0.044 lb/VMT | 0.033 lb/VMT | 0.007 lb/VMT | 0.033 lb/VMT |
| Ep10 = | 0.178 lb/VMT | 0.134 lb/VMT | 0.028 lb/VMT | 0.135 lb/VMT |

JSRL DEIR Appendix B 3 of 4 Lawrence & Associates

Source AP-42 Table 13.2.1-1 AP-42 Table 13.2.1-1 AP-42 Table 13.2.1-5 Assume st See Table Q12 below days Assume watered surface days Assume watered surface Assume surface low range of 1.1 on onbound leg and mean of 7.4 on outbound leg from 13.2.1.-3, average of: 4.25

Gravel Road Emission Factor

 $E = k * (s/12)^a * (W/3)^b$

Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2

Where:

Eup = size-specific emission factor (lb/VMT) for unpaved surface

k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2

s = surface material silt content (%)

W = mean vehicle weight (tons)

a = industrial road constant from AP-42, Table 13.2.2-2

b = industrial road constant from AP-42, Table 13.2.2-2

| | | In-County | | |
|--------------|---------------------|------------------|--------------|--------------|
| When: | Out of County Units | Commercial Units | Self Haul | Operations |
| $k_{2.5} =$ | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT |
| $k_{10} =$ | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT |
| $_{S} =$ | 6.4 % | 6.4 % | 6.4 % | 6.4 % |
| W = | 27.0 tons | 20.5 tons | 4.4 tons | 20.7 tons |
| a = | 0.9 | 0.9 | 0.9 | 0.9 |
| b = | 0.45 | 0.45 | 0.45 | 0.45 |
| Then: | | | | |
| Eup2.5 = | 0.229 lb/VMT | 0.202 lb/VMT | 0.101 lb/VMT | 0.203 lb/VMT |
| $E_{UP}10 =$ | 2.290 lb/VMT | 2.023 lb/VMT | 1.012 lb/VMT | 2.030 lb/VMT |

Unpaved Road Emission Factor

 $E = k * (s/12)^a * (W/3)^b$

| Equ | uation (1a) from USEPA, AP-42 Fifth Edition, 2006, S | Section 13.2.2 | |
|--------------|--|-------------------------------|---|
| Where: | | | |
| Eup = size | e-specific emission factor (lb/VMT) for unpaved surfa | ce | |
| k = par | ticle size multiplier for particle size range and units of | interest from AP-42 Table 13. | 2.2-2 |
| s = sur | face material silt content (%) | | |
| W = mea | an vehicle weight (tons) | | |
| a = ind | ustrial road constant from AP-42, Table 13.2.2-2 | | |
| b = ind | ustrial road constant from AP-42, Table 13.2.2-2 | | |
| When: | Haul Truck Units | Operations Units | Source |
| $k_{2.5} =$ | 0.15 lb/VMT | 0.15 lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| $k_{10} =$ | 1.5 lb/VMT | 1.5 lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| $_{S} =$ | 8.5 % | 8.5 % | Per AP-42 Table 13.2.2-1 for landfills, mean for construction site scraper routes |
| W = | 60.3 tons | 20.7 tons | Table Q13 |
| a = | 0.9 | 0.9 | Per AP-42 Table 13.2.2-2 for industrial roads |
| b = | 0.45 | 0.45 | Per AP-42 Table 13.2.2-2 for industrial roads |
| Then: | | | |
| Eup2.5 = | 0.424 lb/VMT | 0.262 lb/VMT | |
| $E_{UP}10 =$ | 4.242 lb/VMT | 2.621 lb/VMT | |

Table O4.13 Vehicle Weight Assumptions (assumes full load in and empty out)

| Category | Type | Percent | GVW, lb | NVW, lb | Average, lb | Av Tons |
|--|------------------------|---------|---------|---------|-------------|---------|
| Small Vehicle (Public /Self Haul) | Ford F250 Gross Weight | NA | 9,900 | 7,700 | 8,800 | 4.4 |
| In County Commercial | Garbage Truck | NA | 51,000 | 31,000 | 41,000 | 20.5 |
| Out of County Commercial | Waste Transfer Truck | NA | 75,000 | 33,000 | 54,000 | 27.0 |
| Support Vehicles For Construction | | | | | | |
| Average of: | Miles | | | | | |
| Ford Mechanic Truck (DSL) | 2 | 5% | 14,000 | 8,600 | 11,300 | 5.7 |
| Ford F450 Flat Bed (DSL) | 1 | 2% | 14,000 | 8,600 | 11,300 | 5.7 |
| Water Truck (DSL), 4,000 gal | 32 | 76% | 63,000 | 29500 | 46,250 | 23.1 |
| Support Light Heavy Duty Trucks (2, DSL) | 4 | 10% | 14,000 | 8,600 | 11,300 | 5.7 |
| Tractor Trailer Delivery (DSL) | 1 | 2% | 75,000 | 33,000 | 54,000 | 37.5 |
| Carpool Vehicles (2, Gas) | 2 | 5% | 51,000 | 31,000 | 41,000 | 25.5 |
| Total | 42 | | | | Weighted Av | 20.7 |
| Off Road Dump | CAT 740 | NA | 162,399 | 78,632 | 120,516 | 60.3 |

GVW: Gross vehicle weight including load NVWL Net vehicle weight or :"curb weight" without load Source: US. EPA, Fifth Edition AP-42, Section 13.2.

JSRL DEIR Appendix B 4 of 4 Lawrence & Associates

Source
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-1 for industrial roads
Per AP-42 Table 13.2.2-1 for landfills, mean of graveled roads
Table 02
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-2 for industrial roads

John Smith Road Landfill Attachment Q - Scenario 3 - North

Use This Version - Enter Indirect Manually

Alternatives Assessment

Table O5.1- Summary Table - Scenario 3

| PM ₁₀ , lb/day | PM _{2.5} , lb/day | ROG, lb/day | NOx, lb day | CO, lb day | SO2, lb/day |
|---------------------------|--|---|---|---|---|
| 16.73 | 2.67 | 2.04 | 2.19 | 1.74 | 0.03 |
| 10.51 | 1.21 | 0.14 | 0.15 | 0.12 | 0.00 |
| 6.31 | 0.70 | 0.14 | 0.15 | 0.12 | 0.00 |
| 35.79 | 3.58 | 0.70 | 3.66 | 16.63 | 0.02 |
| 3.20 | 1.91 | 1.08 | 8.97 | 22.65 | 0.06 |
| 4.70 | 1.02 | 0.63 | 5.62 | 18.90 | 0.06 |
| 1.34 | 1.30 | 0.21 | 0.39 | 5.29 | 0.01 |
| 0.44 | 0.45 | 4.22 | 49.89 | 2.27 | 214.91 |
| NA | NA | 10.81 | NA | NA | NA |
| NA | NA | 0.29 | 22.57 | NA | NA |
| 0.00 | 0.00 | 0.10 | 1.05 | 1.45 | 0.00 |
| 79.03 | 12.84 | 20.38 | 94.63 | 69.18 | 215.09 |
| 80.80 | 14.35 | 19.88 | 63.73 | 66.46 | 42.79 |
| -1.77 | -1.52 | 0.49 | 30.90 | 2.72 | 172.29 |
| 82 | 82 | 137 | 137 | 550 | 150 |
| | 16.73 10.51 6.31 35.79 3.20 4.70 1.34 0.44 NA NA 0.00 79.03 80.80 -1.77 | 16.73 2.67 10.51 1.21 6.31 0.70 35.79 3.58 3.20 1.91 4.70 1.02 1.34 1.30 0.44 0.45 NA NA NA NA NA NA NA 0.00 0.00 79.03 12.84 80.80 14.35 -1.77 -1.52 | 16.73 2.67 2.04 10.51 1.21 0.14 6.31 0.70 0.14 35.79 3.58 0.70 3.20 1.91 1.08 4.70 1.02 0.63 1.34 1.30 0.21 0.44 0.45 4.22 NA NA 10.81 NA NA 0.29 0.00 0.00 0.10 79.03 12.84 20.38 80.80 14.35 19.88 6.80 14.35 19.88 | 16.73 2.67 2.04 2.19 10.51 1.21 0.14 0.15 6.31 0.70 0.14 0.15 35.79 3.58 0.70 3.66 3.20 1.91 1.08 8.97 4.70 1.02 0.63 5.62 1.34 1.30 0.21 0.39 0.44 0.45 4.22 49.89 NA NA 10.81 NA NA 0.29 22.57 0.00 0.00 0.10 1.05 79.03 12.84 20.38 94.63 80.80 14.35 19.88 63.73 -1.77 -1.52 0.49 30.90 | 16.73 2.67 2.04 2.19 1.74 10.51 1.21 0.14 0.15 0.12 6.31 0.70 0.14 0.15 0.12 35.79 3.58 0.70 3.66 16.63 3.20 1.91 1.08 8.97 22.65 4.70 1.02 0.63 5.62 18.90 1.34 1.30 0.21 0.39 5.29 0.44 0.45 4.22 49.89 2.27 NA NA 10.81 NA NA NA NA 0.29 22.57 NA 0.00 0.00 0.10 1.05 1.45 79.03 12.84 20.38 94.63 69.18 80.80 14.35 19.88 63.73 66.46 -1.77 -1.52 0.49 30.90 2.72 |

- Notes:

 1: The values for ROG and CO from the flare represent the detection limit. The actual value will be lower.

 2: Described as VOC in CEQA Guidelines (Assume ROG is synonymous)

 3: Described as NO₂ as NO₂ in CEQA Guidelines. Assume all NO₂ is NO₂ for this analysis.

 4: Describes as SO₂ as SQ₂ in CEQA Guidelines. Assume all SO₂ is SO₂ for this analysis.

Variables

| v ar lables | | | | | | | |
|----------------------------------|--------|--------------------|--------------|------------------|-----------------|---------------------|------|
| Project Year | 2040 | | | | | | |
| Waste Delivery Miles - Paved | 7,630 | 1.45 | Miles One | e Way | | | 8,15 |
| Waste Delivery Miles - Graveled | 525 | 0.10 | Miles One | e Way | | | |
| Construction Access - Unpaved | 540 | 0.10 | Miles One | Way In Addition | to Waste Deliv | rery | |
| Construction Soil Haul - Unpaved | 1,900 | 0.36 | Miles One | e Way | | | |
| Construction Area | | 7.3 | Acres | | | | |
| Stockpile Area | | 7.2 | Acres | | | | |
| Waste Disposal Area | | 1 | Acres | Assume 20 | 0 x 200 working | g face | |
| Assumed Speeds | | | | | | | |
| Compactor Speed | 3 | mph | | | | | |
| Dozer Speed | 3 | mph | | | | | |
| Loader Speed | 7.1 | mph, AP-42 Defau | lt | | | | |
| Grader Speed | 7.1 | mph, AP-42 Defau | lt | | | | |
| Off-Road Haul Truck Speed | 7.1 | mph, AP-42 Defau | lt | | | | |
| Excavator Speed | 0 | mph | mostly sta | itionary | | | |
| Backhoe Speed | 0 | mph | mostly sta | tionary | | | |
| Construction Excavation | 6,000 | cy | | | | | |
| Construction Excavation | 10.020 | tons @1.67 t/cy | 239 | Loads | 86.08 | Total Miles One way | |
| Daily Cover Excavation | 320 | cv (2000 tnd waste | /0.75 x 0.12 | cv soil/cv waste | | | |

tons @1.67 t/cy 15

Waste Delivery On-Site Emissions - Assuming

Daily Cover Excavation

| | | Vehicle | Properties | | | | | | | | | | | | | | | | | Emissi | on Factors an | d Calculatio | ns | | | | | | | | | | | |
|--|------------------|-----------|------------|---------------|-------------------------------------|-----------|----------------------|--------------------------|------------|----------|-----------|------------|-------------------------|---|--|------------------|------------|------------------|----------|-------------------|----------------|--------------|----------------|-------------------|-----------------|----------|-----------------|----------|-----------------|--------------------|-----------|----------|------------|--------|
| On-Road Vehicles | Vehicle Category | Trips/Day | Trip Dist | Total Miles / | Paved Miles / Day (both ways) | Miles/Day | Unpaved Miles/Day | Load Factor ⁵ | Factor NOx | | Emissions | Factor NOx | Emissions Factor ROG | RUNEX Emissions ROG (lbs/day) ⁸ | STREX Emissions Factor ROG (g/trip) ¹⁰ | Emissions ROG | Factor ROG | Emissions ROG | | Emissions PM10 | Factor PM10 | | Factor PM10 | Emissions PM10 | Factor PM2.5 | | Factor PM2.5 | | Factor PM2.5 | Brake Emissions | Factor CO | | Factor SOx | |
| ord Mechanic Truck (DSL) | LHD1 | 2 | 6.6 | 6.6 | 5.8 | 0.4 | 0.4 | Load Pactor | 1.79 | 0.0 | 0.00 | 0.000 | 1.69E-01 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 2.54E-02 | 0.000 | 1.20E-02 | 0.000 | 7.64E-02 | 0.001 | 2.43E-02 | 0.000 | 0.003 | 0.000 | 0.033 | 0.000 | 8.28E-01 | 0.012 | 4.96E-03 | 5E-4 |
| ord F450 Flat Bed (DSL) | LHD2 | 1 | 3.3 | 3.3 | 2.9 | 0.2 | 0.2 | 1 | 1.30 | 0.0 | 0.00 | 0.000 | 1.56E-01 | 0.001 | 0.00 | 0.000 | 0.00 | 0.000 | 2.65E-02 | 0.000 | 1.20E-02 | 0.000 | 8.92E-02 | 0.001 | 2.54E-02 | 0.000 | 0.003 | 0.038 | 0.038 | 0.000 | 7.72E-01 | 0.006 | 5.54E-03 | 4E-0 |
| Vater Truck (DSL) ¹ | T6 CAIRP heavy | 32 | 105.4 | 105.4 | 92.5 | 6.4 | 6.5 | 1 | 2.86 | 0.7 | 0.00 | 0.000 | 1.02E-02 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 1.79E-02 | 0.004 | 1.20E-02 | 0.003 | 1.30E-01 | 0.030 | 1.71E-02 | 0.004 | 0.003 | 0.001 | 0.001 | 0.000 | 8.47E-02 | 0.020 | 9.01E-03 | 2E-0 |
| Support Light Heavy Duty Trucks (2, DSL) | LHD1 | 4 | 13.2 | 13.2 | 11.6 | 0.8 | 0.8 | 1 | 1.79 | 0.1 | 0.00 | 0.000 | 1.69E-01 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 2.54E-02 | 0.001 | 1.20E-02 | 0.000 | 7.64E-02 | 0.002 | 2.43E-02 | 0.001 | 0.003 | 0.000 | 3.28E-02 | 0.001 | 8.28E-01 | 0.024 | 4.96E-03 | 1E-0 |
| ractor Trailer Delivery (DSL) | T7 CAIRP | 1 | 3.3 | 3.3 | 2.9 | 0.2 | 0.2 | 1 | 2.12 | 0.0 | 0.00 | 0.000 | 2.02E-02 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 2.86E-02 | 0.000 | 3.60E-02 | 0.000 | 6.17E-02 | 0.000 | 2.74E-02 | 0.000 | 0.009 | 0.000 | 0.026 | 0.000 | 1.88E-01 | 0.001 | 1.02E-02 | 7E-05 |
| Carpool Vehicles (2, Gas) | LDT1 | 2 | 6.6 | 6.6 | 5.8 | 0.4 | 0.4 | 1 | 0.03 | 0.0 | 0.17 | 0.001 | 7.13E-01 | 0.010 | 0.21 | 0.001 | 0.46 | 0.002 | 1.08E-03 | 0.000 | 8.00E-03 | 0.000 | 3.68E-02 | 0.001 | 9.97E-04 | 0.000 | 0.002 | 0.000 | 0.016 | 0.000 | 5.01E-01 | 0.007 | 2.52E-03 | 4E-0 |
| otals | | | | 138 | 121.4 | 8 | 9 | | | 0.767 | | 0.001 | | 0.019 | | 0.001 | | 0.002 | | 0.006 | | 0.004 | | 0.035 | | 0.005 | | 0.039 | | 0.002 | | 0.070 | | 0.008 |
| Prorated by Mile | | | | | | | | | | 5.55E-03 | | 5.56E-06 | | 1.37E-04 | | 6.74E-06 | | 1.47E-05 | | 4.10E-05 | | 2.73E-05 | | 2.55E-04 | | 3.93E-05 | | 2.83E-04 | | 1.66E-05 | | 5.06E-04 | | 5.64E- |

Note: The values for STREX, HTSK, REST, DIURN, RUNL were all zero in the EMFAC2017 output and were not analyzed. Notes: Assume 2 start per day.

Loads = 5.37

Total Miles One way

JSRL DEIR Appendix B Attachment O5
Lawrence & Associates 1 of 5

See Footnotes on Attachment O1

| Table O5.3 - On-Road Waste Deliver | ry On-Site Vehicles P | roposed Project P | eak Tonnage | Day | | | | Assuming 2030 | Emissions Ye | ear | Miles On Site | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|--|-------------|---------------|-------|------------------------|-------------------------------------|--------------------------|--|----------|------------------------------------|--|--|-----------|--|---|--|------------------|----------------|----------|--|--------------|----------------|---|-----------------|-------------------------------|-------|----------|-----------------|-----------------------------|-----------|----------|---|---------|
| | | Site Pr | operties | | | | | | | | | | | | | | | | | Emissio | on Factors an | d Calculatio | ns | | | | | | | | | | | |
| On-Road Vehicles | Vehicle Category | Trips / Day (Peak Tonnage) from Att | | Total Miles / | | Miles on I Gravel Road | Unpaved Miles/Day (both ways) | Load Factor ⁵ | RUNEX Emissions Factor NOs (g/mile) ¹⁰ | | STREX Emissions NOx (g/trip) | STREX Emissions Factor NOx (lb/day) | RUNEX Emissions Factor ROG (g/mile) ¹⁰ | Emissions | STREX Emissions Factor ROG (g/trip) ¹⁰ | STREX Emissions ROG (lbs/day) ⁸ | RUNLOSS Emissions Factor ROG (g/trip) ¹⁰ | Emissions ROG | Factor PM10 | | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | | Factor PM10 | Brake Wear Emissions PM10 (lbs/day) ⁸ | Factor PM2.5 | Exhaust Emissions PM2.5 | PM2.5 | | Factor PM2.5 | Brake Emissions PM2.5 | Factor CO | | Emissions Factor SOx (g/mile) ¹⁰ | s SOx |
| n-County Self Haul/Residential 12 | Light/Heavy Duty Trucks (LHD-1 - Gas) | 217 | 670 | 715 | 627 | 43 | 44 | 1 | 0.163 | 0.240 | 0.47 | 0.700 | 0.027 | 0.040 | 0.10 | 0.153 | 1.22 | 1.800 | 0.002 | 0.003 | 0.008 | 0.012 | 0.076 | 0.113 | 0.002 | 0.003 | 0.002 | 4.43E-04 | 0.033 | 0.048 | 0.524 | 0.774 | 0.009 | 0.013 |
| In-County Commercial Diesel11 | T7-SWCV (Ds | 29 | 89 | 95 | 83 | 6 | 6 | 1 | 0.464 | 0.091 | 5.53 | 1.087 | 0.024 | 0.005 | 0.00 | 0.000 | 0.00 | 0.000 | 0.018 | 0.003 | 0.036 | 0.007 | 0.062 | 0.012 | 0.017 | 0.003 | 0.009 | 2.65E-03 | 0.026 | 0.005 | 0.066 | 0.013 | 0.028 | 0.005 |
| In County Commercial CNG | T7-SWCV (NO | 10 | 31 | 33 | 29 | 2 | 2 | 1 | 0.313 | 0.022 | 0.00 | 0.000 | 0.043 | 0.003 | 0.00 | 0.000 | 0.00 | 0.000 | 0.003 | 0.000 | 0.036 | 0.002 | 0.062 | 0.004 | 0.003 | 0.000 | 0.009 | 3.98E-03 | 0.026 | 0.002 | 11.219 | 0.775 | 0.000 | 0.000 |
| Out of County Commercial ² | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 95 | 293 | 313 | 275 | 19 | 19 | 1 | 2.120 | 1.372 | 2.23 | 1.443 | 0.024 | 0.016 | 0.00 | 0.000 | 0.00 | 0.000 | 0.029 | 0.019 | 0.036 | 0.023 | 0.027 | 0.018 | 0.009 | 0.006 | 0.009 | 1.19E-01 | 0.026 | 0.017 | 0.188 | 0.121 | 0.010 | 0.007 |
| TOTALS | | 351 | | 1156 | 1,014 | 69.80113636 | 72 | | | 1.725 | | | | 0.064 | | 0.153 | | 1.800 | | 0.026 | | 0.045 | | 0.147 | | 0.013 | | 0.126 | | 0.073 | | 1.683 | | 0.026 |
| Prorated by Mile | | | | | | | | | | 1.49E-03 | | 0.00E+00 | | 6.26E-05 | | 1.51E-04 | | 1.77E-03 | | 2.53E-05 | | 4.40E-05 | | 1.45E-04 | | 1.23E-05 | | 1.25E-04 | | 7.15E-05 | | 1.66E-03 | | 2.52E-0 |

Table O5 4 - Emissions from Off-Road Vehicles for Construction Peak Day Assuming 2025 Model Year or Better for PM2.5, CO, and SO2

Assuming Tier 4 final for all equipment over 200 hp

| Table Q5.4 - Emissions from Off-Road | Vehicles for Const | | | | Assuming 2025 | Model Year o | r Better for PM2 | 1.5, CO, and SO2 | | Assuming Tie | er 4 final for all | equipment over | 200 hp | | | | | | | | |
|---------------------------------------|--|---|-----------------------|-----------------|---------------|-------------------|--------------------------|--|-----------------------------------|--|--|--|--|--|--|--|--|---|---|------------------------|-----------------|
| | | Vo | hicle Properties | 3 | | | | | | | | | | Air Quality | Emission Fac | tors and Calcu | ılations | | | | |
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/ Model/ Fuel ² | Model Year (motor) | HP ³ | Miles /Day | Tier ⁴ | Load Factor ⁵ | Peak Operating Hours per Day ⁶ | Days of Operation ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | Emissions NOx (lbs/day) ⁹ | Emissions Factor ROG (g/bhp-hr) ⁷ | Emissions ROG (lbs/day) ⁹ | Exhaust Emissions Factor PM10 (g/bhp-hr) ⁷ | Exhaust Emissions PM10 (lbs/day) ⁹ | Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Emissions PM2.5 (lbs/day) ⁹ | Emissions Factor CO (g/bhp-hr) ⁷ | Emissions CO (lbs/day) ⁹ | Factor SO ₂ | SO ₂ |
| Dozer (not used for bulk exc.) | Crawler Tractors | Caterpillar D6T LGP | 2025 | 165 | 24 | 3 | 0.43 | 8 | 7 | 2.32 | 2.90 | 0.09 | 0.11 | 0.112 | 0.14 | 0.138 | 0.17 | 3.209 | 4.02 | 0.005 | 0.01 |
| Dozer | Crawler Tractors | Caterpillar D8T Dies | 2025 | 310 | 24 | 4 (Final) | 0.43 | 8 | 7 | 0.26 | 0.61 | 0.05 | 0.12 | 0.009 | 0.02 | 0.074 | 0.17 | 1.717 | 4.04 | 0.005 | 0.01 |
| Dozer (Stockpile Area) | Crawler Tractors | Caterpillar D6R Dies | 2025 | 140 | 12 | 3 | 0.43 | 4 | 7 | 2.32 | 1.23 | 0.09 | 0.05 | 0.112 | 0.06 | 0.138 | 0.07 | 3.209 | 1.70 | 0.005 | 0.00 |
| Grader (not used for bulk excav.) | Graders | Caterpillar 140G Die | 2025 | 150 | 0 | 3 | 0.41 | 0 | 7 | 2.32 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.140 | 0.00 | 3.418 | 0.00 | 0.005 | 0.00 |
| Loader (Stockpile Area for Screening) | Rubber Tired Loaders | Caterpillar 938M Die | 2025 | 190 | 56.8 | 3 | 0.36 | 8 | 7 | 2.32 | 2.80 | 0.09 | 0.11 | 0.088 | 0.11 | 0.045 | 0.05 | 1.142 | 1.38 | 0.005 | 0.01 |
| Pad-Foot Compactor | Rollers | Caterpillar 826C Die | 2025 | 341 | 27 | 4 (Final) | 0.38 | 9 | 7 | 0.26 | 0.67 | 0.05 | 0.13 | 0.009 | 0.02 | 0.083 | 0.21 | 1.968 | 5.06 | 0.005 | 0.01 |
| Smooth Drum Roller (NA) | Rollers | Caterpillar CS34 Die | 2025 | 74 | 0 | 3 | 0.38 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.125 | 0.00 | 3.444 | 0.00 | 0.005 | 0.00 |
| Backhoe (NA) | Tractors/Loaders/ Backhoes | Caterpillar 426C Die | 2025 | 88 | 0 | 3 | 0.37 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.079 | 0.00 | 3.522 | 0.00 | 0.005 | 0.00 |
| Excavator (2) | Excavators | John Deere 350 Diesel | 2025 | 271 | 0 | 4 (Final) | 0.38 | 18 | 7 | 0.26 | 1.06 | 0.05 | 0.20 | 0.009 | 0.04 | 0.024 | 0.10 | 1.051 | 4.29 | 0.005 | 0.02 |
| Screening Plant (Stockpile Area) | Other Construction Equipment | Spyder 514TS Diesel | 2025 | 74 | 0 | 3 | 0.42 | 9 | 7 | 2.74 | 1.69 | 0.09 | 0.06 | 0.192 | 0.12 | 0.187 | 0.12 | 3.584 | 2.21 | 0.005 | 0.00 |
| Extended Loader (for liner) | Tractors/Loaders/ Backhoes | JCB 20TC | 2025 | 74 | 0 | 3 | 0.37 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.079 | 0.00 | 3.522 | 0.00 | 0.005 | 0.00 |
| Off-Road Dump/haul truck (3) | Off-Highway Trucks | Caterpillar 740 diesel | 2025 | 453 | 191.7 | 4 (Final) | 0.38 | 27 | 7 | 0.26 | 2.66 | 0.05 | 0.51 | 0.009 | 0.09 | 0.035 | 0.36 | 1.182 | 12.11 | 0.005 | 0.05 |
| Totals | | | | - | | | | | | | 13.63 | <u> </u> | 1.29 | | 0.60 | | 1.26 | | 34.81 | 1 | 0.11 |

Note: Increased time for this analysis

For a typical construction project, it is assumed that highest emissions takes place during the bulk excavation phase - assuming site-specific excavation equipment consisting primarily of two scrapers and a dozer as listed above as Tier 4. Additional

| Table O5.5 Off-Road Vehicles for Op | perations - Future - 2 | 2030 | | | Assuming 2025 | Model Year or | Better for PM2 | .5, CO, and SO2 | | | | | | | | | | | | | |
|-------------------------------------|--|---|-------------------------|-----------------|---------------|-------------------|--------------------------|------------------------------------|---|--|--|--|--|---|---|--|--|--|-------|---|--|
| | | Vehicle Properti | ies | | | | | Operation | ration Properties Emission Factors and Calculations | | | | | | | | | | | | |
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/Mod el/ Fuel ² | l Model Year (motor) | HP ³ | Miles Per Day | Tier ⁴ | Load Factor ⁵ | Peak Hours per Day ⁶ | Days of Operation ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | Emissions NOx (lbs/day) ⁹ | Emissions Factor ROG (g/bhp-hr) ⁷ | Emissions ROG (lbs/day) ⁹ | Emissions Factor PM10 (g/bhp-hr) ⁷ | Emissions PM10 (lbs/day) ⁹ | Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Emissions PM2.5 (lbs/day) ⁹ | Emissions Factor CO (g/bhp-hr) ¹¹ | | Emissions Factor SO ₂ (g/bhp-hr) ¹¹ | Emissions SO ₂ (lbs/day) ⁹ |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D6T LGF | 2025 | 255 | 10 | 4 (Final) | 0.43 | 8 | 7 | 0.260 | 0.50 | 0.050 | 0.10 | 0.009 | 0.02 | 0.074 | 0.14 | 1.717 | 3.32 | 0.005 | 0.01 |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D8T Dies | se 2025 | 310 | 10 | 4 (Final) | 0.43 | 8 | 7 | 0.260 | 0.61 | 0.050 | 0.12 | 0.009 | 0.02 | 0.074 | 0.17 | 1.717 | 4.04 | 0.005 | 0.01 |
| Dozer (Support) | Crawler Tractors | Caterpillar D6R Dies | s 2025 | 200 | 3 | 4 (Final) | 0.43 | 2 | 7 | 0.260 | 0.10 | 0.050 | 0.02 | 0.009 | 0.00 | 0.088 | 0.03 | 1.308 | 0.50 | 0.005 | 0.00 |
| Grader | Graders | Caterpillar 140G Die | 2025 | 150 | 6 | 4 (Final) | 0.41 | 2 | 7 | 7.600 | 2.06 | 0.620 | 0.17 | 0.274 | 0.07 | 0.140 | 0.04 | 3.418 | 0.93 | 0.005 | 0.00 |
| Loader | Rubber Tired Loaders | Caterpillar 938M Die | e 2025 | 182 | 5 | 4 (Final) | 0.36 | 2 | 7 | 12.090 | 3.49 | 1.310 | 0.38 | 0.605 | 0.17 | 0.104 | 0.03 | 1.269 | 0.37 | 0.005 | 0.00 |
| Compactor | Rollers | Caterpillar 826K Die | 2025 | 426 | 9 | 4 (Final) | 0.38 | 8 | 7 | 0.260 | 0.74 | 0.050 | 0.14 | 0.009 | 0.03 | 0.083 | 0.24 | 1.968 | 5.62 | 0.005 | 0.01 |
| Compactor | Rollers | Caterpillar 826K Die | 2025 | 426 | 5 | 4 (Final) | 0.38 | 4 | 7 | 0.260 | 0.37 | 0.050 | 0.07 | 0.009 | 0.01 | 0.083 | 0.12 | 1.968 | 2.81 | 0.005 | 0.01 |
| Backhoe | Tractors/Loaders/ Backhoes | Caterpillar 426C Die | es 2025 | 81.8 | 0 | 4 (Final) | 0.37 | 2 | 7 | 0.260 | 0.03 | 0.050 | 0.01 | 0.009 | 0.00 | 0.079 | 0.01 | 3.522 | 0.47 | 0.005 | 0.00 |
| Excavator | Excavators | John Deere 350 Diesel | 2025 | 283 | 0 | 4 (Final) | 0.38 | 6 | 7 | 0.260 | 0.37 | 0.050 | 0.07 | 0.009 | 0.01 | 0.024 | 0.03 | 1.051 | 1.49 | 0.005 | 0.01 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2025 | 380 | 22 | 4 (Final) | 0.38 | 8 | 7 | 0.260 | 0.66 | 0.050 | 0.13 | 0.009 | 0.02 | 0.035 | 0.09 | 1.182 | 3.01 | 0.005 | 0.01 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2025 | 380 | 11 | 4 (Final) | 0.38 | 4 | 7 | 0.260 | 0.33 | 0.050 | 0.06 | 0.009 | 0.01 | 0.035 | 0.04 | 1.182 | 1.51 | 0.005 | 0.01 |
| Truck Tipper | Other Construction Equipment | Columbia | 2025 | 156 | NA | 4 (Final) | 0.42 | 8 | 7 | 0.260 | 0.30 | 0.050 | 0.06 | 0.009 | 0.01 | 0.103 | 0.12 | 3.136 | 3.62 | 0.005 | 0.01 |
| Street Sweeper | Other Construction Equipment | Elgin 2019 | 2025 | 74 | NA | 4 (Final) | 0.42 | 4 | 7 | 2.740 | 0.75 | 0.090 | 0.02 | 0.009 | 0.00 | 0.187 | 0.05 | 3.584 | 0.98 | 0.005 | 0.00 |
| Totals | | | | | | | | | | | 10.33 | | 1.35 | | 0.39 | | 1.12 | | 28.66 | | 0.08 |

Table O5.6 Fugitive Dust - Paved Operations and Construction Support

| Construction Activity | Road Distance Both Ways | PM ₁₀ Emissions Factor, lb/VMT | Control Efficiency | Paved Road Const. PM ₁₀ Emissions lb per Day ³ | PM _{2.5} Emissions Factor, lb/VMT | Paved Road PM _{2.5} Emissions lb per Day ³ |
|------------------------------|----------------------------|--|-----------------------|---|---|---|
| In County Public / Self Haul | 627 | 0.135 | 90% | 8.48 | 0.007 | 0.43 |
| In/County Commercial | 113 | 0.134 | 90% | 1.51 | 0.033 | 0.37 |
| Out of County Commercial | 275 | 0.178 | 90% | 4.87 | 0.044 | 1.20 |
| Operations/Support | 121 | 0.135 | 90% | 1.64 | 0.033 | 0.40 |
| Current & Proposed | | | | 16.50 | | 2.40 |

Table O5.7 Fugitive Dust - Graveled Operations & Construction

| Construction Activity | Road Distance Both Ways | PM ₁₀ Emissions Factor, lb/VMT | Control Efficiency | Paved Road Const. PM ₁₀ Emissions lb per Day ³ | PM _{2.5} Emissions Factor, lb/VMT | Paved Road PM _{2.5} Emissions lb per Day ³ |
|---------------------------------|----------------------------|--|-----------------------|---|---|---|
| In County Public / Self Haul | 43 | 1.012 | 90% | 4.37 | 0.101 | 0.44 |
| In/County Commercial | 8 | 0.134 | 90% | 0.10 | 0.202 | 0.16 |
| Out of County Commercial | 19 | 2.290 | 90% | 4.33 | 0.229 | 0.43 |
| Construction/Operations Support | 8 | 2.030 | 90% | 1.70 | 0.203 | 0.17 |
| Totals | | | | 10.49 | | 1.20 |

Table O5.8 Fugitive Dust - Unpaved Operations

| Construction Activity | Road Distance Both Ways | PM ₁₀ Emissions Factor, lb/VMT | Control Efficiency | Paved Road Const. PM ₁₀ Emissions per Day ³ | PM _{2.5} Emissions Factor, lb/VMT | Paved Road PM _{2.5} Emissions per Day ³ |
|------------------------|----------------------------|--|-----------------------|--|---|--|
| Construction Support | 9 | 2.030 | 90% | 1.74 | 0.262 | 0.23 |
| Daily Cover Haul Truck | 11 | 4.242 | 90% | 4.55 | 0.424 | 0.46 |
| Totals | | | | 6.30 | | 0.68 |

Table O5.9 Fugitive Dust - Unpaved Construction

| | Road Distance | PM ₁₀ Emissions | Control | Paved Road Const. PM ₁₀ Emissions per | PM _{2.5} Emissions Factor, | Paved Road PM _{2.5} Emissions per |
|-----------------------|---------------|----------------------------|------------|--|---|--|
| Construction Activity | Both Ways | Factor, lb/VMT | Efficiency | Day ³ | lb/VMT | Day ³ |
| Soil Haul Truck | 172 | 4.242 | 95% | 35.79 | 0.424 | 3.58 |
| Totals | | | | 35.79 | | 3.58 |

Table O5.10 Fugitive Dust - Waste Filling Pad (Operations)

| Construction Activity | VMT | PM ₁₀ Emissions Factor, lb/VMT | Control Efficiency | Paved Road Const. PM ₁₀ Emissions lb per Day ³ | PM _{2.5} Emissions Factor, lb/VMT | Paved Road PM _{2.5} Emissions lb per Day ³ |
|---------------------------|-------|--|-----------------------|---|---|---|
| Grader, Loader, Scraper | 11 | 1.543 | 90.00% | 1.69 | 0.227 | 0.25 |
| Compacting Waste & Dozers | Hr | lb/hr | | | lb/hr | |
| Compactor/Dozer | 12 | 0.753 | 90.00% | 0.93 | 0.414 | 0.51 |
| Unloading Daily Cover | Ton | lb/ton | | | lb/ton | |
| Daily Cover Unloading | 1,069 | 0.0002 | 25.00% | 0.19 | 0.000 | 0.03 |
| Totals | | | | 2.80 | | 0.79 |

Table O5.11 Fugitive Dust - Construction Area

| Construction Activity | VMT | PM ₁₀ Emissions Factor, lb/VMT | Control Efficiency | Paved Road Const. PM ₁₀ Emissions lb per Day ³ | PM _{2.5} Emissions Factor, lb/VMT | Paved Road PM _{2.5} Emissions per Day ³ |
|--------------------------|--------|--|-----------------------|---|---|--|
| · | | , | | | | |
| Loader, grader, scraper | 11 | 1.543 | 90.00% | 1.69 | 0.227 | 0.25 |
| Ripping/Compacting | Hr | lb/hr | | | lb/hr | |
| Dozer, Compactor, Grader | 12 | 0.753 | 90.00% | 0.90 | 0.414 | 0.50 |
| Loading | Tons | lb/ton | | | lb/ton | |
| Daily Cover Unloading | 10,020 | 0.0002 | 25.00% | 1.80 | 0.000 | 0.27 |
| Totals | | | | 4.39 | | 1.02 |

Table O5.12 Fugitive Dust - Stockpiling Area (including screening)

| Construction Activity | Hr | Lb/Hr | Control Efficiency | Paved Road Const. PM ₁₀ Emissions per Day ³ | PM _{2.5} Emissions Factor, lb/VMT | Paved Road PM _{2.5} Emissions per Day ³ |
|-------------------------|--------|--------|-----------------------|--|---|--|
| Loader (to load screen) | 6 | 1.543 | 75% | 2.31 | 0.227 | 0.34 |
| Dozer, Compactor, | 6 | 1.543 | 75% | 2.31 | 0.414 | 0.62 |
| Loading | Tons | | | | | |
| Screening | 820 | 0.0002 | 75% | 0.05 | 0.000 | 0.01 |
| Unloading | 10,020 | 0.0002 | 75% | 0.60 | 0.000 | 0.09 |
| Totals | | | | 5.28 | | 1.06 |

- 1: Average trips from Table K.1 x miles on paved or unpaved road
 2: Average trips from Table K.2 x miles on paved or unpaved road
 3: Assuming (Ep truck x VMT truck) + (Ep car x VMT car)
 4: Assuming (Eup truck x VMT truck) + (Eup car x VMT car)
 5: Assumes (Eup truck x VMT truck) + (Eup car x VMT car)
 6: Assumes regular watering during and/or dust suppressants during dry periods per AP-42 Section 13, Figure 13.2.2-2 Moisture Ratio of 4.25
 6: Assumes 10 delivery and employee trips per project at Proposed Project mileage
 7: Assumes 4,000 cy/day @ 25 cy/trip = 160 trips and one mile round trip to stockpile
 8: Assuming (Eup Off-Road Dump x VMT truck) + (Eup Off-Road Car x VMT car)

JSRL DEIR Appendix B 3 of 5

Dust Emissions Factor Calculation

Paved Road Emission Factor Equation for On-Site Roads

Ep = [k(sL)^0.91 (W)^1.02]x (1-P/4N)

Equation (1) from USEPA, AP-42 Fifth Edition, 2011, Section 13.2.1

Where:

Ep = particulate matter factor (having units matching the units of K)

k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.1-1

sL = road surface silt loading (g/m2)

W = average weight (tons) of the vehicles traveling the road

P = number of wet days with at least 0.01 inch or precipitation during the averaging period

N = number of averaging days for period

| | | in-County | | | |
|-------------|---------------------|------------------|----------------|----------------|---|
| When: | Out of County Units | Commercial Units | Self Haul | Operations | Source |
| $k_{2.5} =$ | 0.00054 lb/VMT | 0.00054 lb/VMT | 0.00054 lb/VMT | 0.00054 lb/VMT | AP-42 Table 13.2.1-1 |
| $k_{10} =$ | 0.0022 lb/VMT | 0.0022 lb/VMT | 0.0022 lb/VMT | 0.0022 lb/VMT | AP-42 Table 13.2.1-1 |
| sL = | 4.25 g/m2 | 4.25 g/m2 | 4.25 g/m2 | 4.25 g/m2 | AP-42 Table 13.2.1-5 Assume surface low range of 1.1 on onbound leg and mean of 7.4 on outbound leg from 13.2.13, average of: |
| W = | 27.00 tons | 20.5 tons | 4.4 tons | 20.7 tons | See Table Q12 below |
| On Site P = | 1 days | 1 days | 1 days | 1 days | days Assume watered surface |
| On Site N = | 1 days | 1 days | 1 days | 1 days | days Assume watered surface |
| Then: | 0.044 H. G.D.AT | 0.022 H ADAT | 0.007 H 4.747 | 0.022 II 374T | |
| Ep2.5 = | 0.044 lb/VMT | 0.033 lb/VMT | 0.007 lb/VMT | 0.033 lb/VMT | |
| Ep10 = | 0.178 lb/VMT | 0.134 lb/VMT | 0.028 lb/VMT | 0.135 lb/VMT | |
| | | | | | |

Source Per AP-42 Table 13.2.2-2 for industrial roads

Table O2
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-2 for industrial roads

Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-1 for landfills, mean of graveled roads

Gravel Road Emission Factor

 $E = k * (s/12)^a * (W/3)^b$

Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2

Equation (1a) from USEPA, AP-42 Fitth Edition, 2006, Section 13.2.2.

Where:

Eup = size-specific emission factor (lb/VMT) for unpaved surface

k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2

s = surface material silt content (%)

W = mean vehicle weight (tons)

a = industrial road constant from AP-42, Table 13.2.2-2

b = industrial road constant from AP-42, Table 13.2.2-2

| | | in-County | | |
|--------------|---------------------|------------------|--------------|--------------|
| When: | Out of County Units | Commercial Units | Self Haul | Operations |
| $k_{2.5} =$ | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT |
| $k_{10} =$ | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT |
| $_{S} =$ | 6.4 % | 6.4 % | 6.4 % | 6.4 % |
| W = | 27.0 tons | 20.5 tons | 4.4 tons | 20.7 tons |
| a = | 0.9 | 0.9 | 0.9 | 0.9 |
| b = | 0.45 | 0.45 | 0.45 | 0.45 |
| Then: | | | | |
| Eup2.5 = | 0.229 lb/VMT | 0.202 lb/VMT | 0.101 lb/VMT | 0.203 lb/VMT |
| $E_{UP}10 =$ | 2.290 lb/VMT | 2.023 lb/VMT | 1.012 lb/VMT | 2.030 lb/VMT |
| | | | | |

Unpaved Road Emission Factor

 $E = k * (s/12)^a * (W/3)^b$

Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2

Where:

Eup = size-specific emission factor (lb/VMT) for unpaved surface
k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2
s = surface material silt content (%)
W = mean vehicle weight (tons)
a = industrial road constant from AP-42, Table 13.2.2-2
b = industrial road constant from AP-42, Table 13.2.2-2

Haul Truck Units When: Operations Units Source
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-1 for landfills, mean for construction site scraper routes 0.15 lb/VMT 1.5 lb/VMT 0.15 lb/VMT 1.5 lb/VMT $\mathbf{k}_{10} =$ 60.3 tons 0.9 0.45 20.7 tons 0.9 0.45 Table Q13
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-2 for industrial roads Then: Eup2.5 = 0.424 lb/VMT 0.262 lb/VMT 4.242 lb/VMT 2.621 lb/VMT

Table O5.13 Vehicle Weight Assumptions (assumes full load in and empty out)

| Category | Type | Percent | GVW, lb | NVW, lb | Average, lb | Av Tons |
|--|-------------------|---------|---------|---------|---------------|---------|
| Small Vehicle (Public /Self Haul) | Ford F250 Gross V | NA | 9,900 | 7,700 | 8,800 | 4.4 |
| In County Commercial | Garbage Truck | NA | 51,000 | 31,000 | 41,000 | 20.5 |
| Out of County Commercial | Waste Transfer Tr | NA | 75,000 | 33,000 | 54,000 | 27.0 |
| Support Vehicles For Construction | | | | | | |
| Average of: | Miles | | | | | |
| Ford Mechanic Truck (DSL) | 2 | 5% | 14,000 | 8,600 | 11,300 | 5.7 |
| Ford F450 Flat Bed (DSL) | 1 | 2% | 14,000 | 8,600 | 11,300 | 5.7 |
| Water Truck (DSL), 4,000 gal | 32 | 76% | 63,000 | 29500 | 46,250 | 23.1 |
| Support Light Heavy Duty Trucks (2, DSL) | 4 | 10% | 14,000 | 8,600 | 11,300 | 5.7 |
| Tractor Trailer Delivery (DSL) | 1 | 2% | 75,000 | 33,000 | 54,000 | 37.5 |
| Carpool Vehicles (2, Gas) | 2 | 5% | 51,000 | 31,000 | 41,000 | 25.5 |
| Total | 42 | | | | Weighted Aver | 20.7 |
| Off Road Dump | CAT 740 | NA | 162,399 | 78,632 | 120,516 | 60.3 |

GVW: Gross vehicle weight including load

JSRL DEIR 4 of 5

4.25

Grading Equipment Passes Use for graders, loaders, rubber tired dozers, and scrapers to scrape or push soil

```
EF_{PM15} = 0.051 \text{ x (S)}^{2.0}, and EF_{PM10} = EF_{PM15} \text{ x } F_{PM10}, Used for PM_{10}
           EF_{TSP} = 0.4 x (S)<sup>2.5</sup>, and EF_{PM2.5} = EF_{TSP} x F_{PM2.5}, Used for PM_{2.5}
           Source: CalEEMod 2020.4.0, Appendix A Page 8
 Where :

EF = emissions factor (lb/VMT)

S = mean vehicle speed (mph)
                                                                                            Typical grading areas Acres per day
7.1 Crawler Tractors (Dozer) 0.5
                                                            AP-42 Default =
 F_{PM2.5} = PM_{2.5} scaling factor.

F_{PM10} = PM_{10} scaling factor.
                                                          AP-42 Default =
AP-42 Default =
                                                                                             0.03
                                                                                                                             Graders
                                                                                                                                                      0.5
0.5
                                                                                                               Rubber -Tired Dozers
                       1.543 lb/VMT
                    0.227 lb/VMT
EF_{PM2.5} =
```

Bulldozers Passes Use for compactors & tracked dozers

```
EF_{PM15} = (C_{PM15} \ x \ s^{1.5}) \ / \ M^{1.4} \ \ , \ and \ EF_{PM10} = EF_{PM15} \ x \ \ F_{PM10}; \ used \ for \ PM_{10}
                                            EF_{TSP} - (C_{TSP} x s ^{1.2} )/ M^{1.3} , and EF_{PM2.5} = EF_{TSP} x F_{PM2.5};\;\;used\;for\;PM_{2.5}
                                          CalEEMod 2020.4.0, Appendix A Page 9
          Where:
EF = emissions factor (lb/hr)
                                                                                                                                                                                                                                           Per AP-42 defaults for Overburden
                                                                                                                                                                                                                                                                                                                                                                                               C_{PM15} = 1
AP-42 Baseline On site material is bedrock that is being ripped or broken
                          C = Coefficient used by AP-42
s = Material silt content (%)
                                                                                                                                                                                                                                                                                C_{TSP} = 5.7

s = 6.90
     \begin{array}{lll} s = _{PMLS} s = _{PML
                                                                                                                                                                                                                                                                                                                                                                                               AP-42 Baseline
                                                                                            0.753 lb/hr x hr/day
EF_{PM2.5} =
                                                                                            0.414 lb/hr x hr/day
```

Truck Loading

From CalEEMod Appendix A and AP-42 Section 13.2.4 Per AP-42 defaults for Overburden

k = Particle size multiplier
U = mean wind speed (mph)
M = Material moisture content $PM_{10} = 0.35$ $PM_{2.5} = 0.053$ M = 7.90AP42 Table 13.2.4-1 clay/dirt mix

Assume: U = Load size = Fluff factor = 6.7 mph based on site specific wind data; Mode 30 CY loose, 1.3 CY loose/ CY banked Banked density =
Production =
Production = 1.6875 t/cy, in place 6,000 cy/day 10,125 t/day Screening Production = Screening Production =

 $EF_D = k \times (0.0032) \times ((U/5)^{1.3} / (M/2)^{1.4})$

2.3945E-04 lb/ton x production = 3.6260E-05 lb/ton x production = $EF_{PM2.5} =$

While there is no specific screen associated with asphalt paving emissions, CalEEMod estimates VOC off-gassing emissions associated with asphalt paving of parking lots using the following equation: Source CalEEMod Users Manual, 2020, Page 18

$$\begin{split} E_{AP} &= EF_{AP} \times A_{Parking} \\ Where: E &= emissions (lb) \\ EF &= emission factor (lb/acre). The SMAQMD default emission factor is 2.62 lb/acre.16 \\ A &= area of the parking lot (acre) \end{split}$$

9.17 lb. VOC /acre $E_{AP} =$ Acres of New Pavement
Das of Construction = 3.5 Acres 2 4.585 lb. VOC /day $E_{AP}d =$

JSRL DEIR 5 of 5

Last Revised Prepared by Checked by John Smith Road Landfill 10/29/2021 C. Coles

Attachment Q - Scenario 4

Alternatives Assessment

Table O6.1 - Summary Table - Scenario 4

| PM ₁₀ , lb/day | PM _{2.5} , lb/day | ROG, lb/day | NOx, lb day | CO, lb day | SO ₂ , lb/day |
|---------------------------|--|---|---|--|---|
| 9.43 | 1.45 | 2.42 | 2.12 | 2.06 | 0.04 |
| 15.22 | 1.74 | 0.45 | 0.39 | 0.38 | 0.01 |
| 5.95 | 0.72 | 0.68 | 0.60 | 0.58 | 0.01 |
| 17.68 | 1.77 | 0.70 | 3.66 | 16.63 | 0.02 |
| 3.20 | 1.91 | 1.08 | 8.97 | 22.65 | 0.06 |
| 4.70 | 1.02 | 0.63 | 5.62 | 18.90 | 0.06 |
| 1.34 | 1.30 | 0.21 | 0.39 | 5.29 | 0.01 |
| 0.44 | 0.45 | 4.22 | 49.89 | 2.27 | 214.91 |
| NA | NA | 10.81 | NA | NA | NA |
| NA | NA | 0.29 | 22.57 | NA | NA |
| 0.00 | 0.00 | 0.10 | 1.05 | 1.45 | 0.00 |
| 57.96 | 10.37 | 21.60 | 95.25 | 70.22 | 215.11 |
| 80.80 | 14.35 | 19.88 | 63.73 | 66.46 | 42.79 |
| -22.83 | -3.99 | 1.72 | 31.51 | 3.76 | 172.32 |
| 82 | 82 | 137 | 137 | 550 | 150 |
| | 9,43 15,22 5,95 17,68 3,20 4,70 1,34 0,44 NA NA NA 0,00 57,96 88,80 | 9,43 1.45 15.22 1.74 5.95 0.72 17.68 1.77 3.20 1.91 4.70 1.02 1.34 1.30 0.44 0.45 NA 0.00 0.00 57.96 10.37 80.80 14.35 -22.83 -3.99 | 9.43 1.45 2.42 15.22 1.74 0.45 5.95 0.72 0.68 17.68 1.77 0.70 3.20 1.91 1.08 4.70 1.02 0.63 1.34 1.30 0.21 0.44 0.45 4.22 NA NA 10.81 NA NA 0.29 0.00 0.00 0.10 57.96 10.37 21.60 80.80 14.35 19.88 -22.83 -3.99 1.72 | 9,43 1,45 2,42 2,12 15,12 15,12 16,14 16,15 16,15 16,15 16,15 17,16 18,15 17,16 18,15 17,16 18,15 17,16 18,15 17,16 18,15 17,16 18,15 17,16 18,15 17,16 18,15 17,16 18,15 18,1 | 943 1.45 2.42 2.12 2.06 15.22 1.74 0.45 0.39 0.38 5.95 0.72 0.68 0.60 0.58 17.68 1.77 0.70 3.66 16.63 3.20 1.91 1.08 8.97 22.65 4.70 1.02 0.63 5.62 18.90 1.34 1.30 0.21 0.39 5.29 0.44 0.45 4.22 49.89 2.27 NA NA NA 10.81 NA NA NA NA NA NA 0.29 22.57 NA NA NA 0.29 22.57 NA 0.00 0.00 0.10 1.05 1.45 57.96 10.37 21.60 95.25 70.22 80.80 14.35 19.88 63.73 66.46 -22.83 -3.99 1.72 31.51 3.76 |

Use This Version - Enter Indirect Manually

- Notes:

 1: The values for ROG and CO from the flare represent the detection limit. The actual value will be lower.

 2: Described as VOC in CEQA Guidelines (Assume ROG is synonymous)

 3: Described as NO₈ as NO₂ in CEQA Guidelines. Assume all NQ is NO₂ for this analysis.

 4: Describes as SO₈ as SO₂ in CEQA Guidelines. Assume all SQ is SO₂ for this analysis.

| Variables | | | | | | |
|----------------------------------|--------|--------------------------|-------------------------|---------------|-----------------------|---------------------|
| Project Year | 2030 | | | | | |
| Waste Delivery Miles - Paved | 4,080 | 0.77 | Miles One Way | | | 4,840 |
| Waste Delivery Miles - Graveled | 760 | 0.14 | Miles One Way | | | |
| Construction Access - Unpaved | 1,150 | 0.22 | Miles One Way In | Addition to V | Waste Delivery | |
| Construction Soil Haul - Unpaved | 920 | 0.17 | Miles One Way | | | |
| Construction Area | | 7.9 | Acres | | | |
| Stockpile Area | | 8.7 | Acres | | | |
| Waste Disposal Area | | 1 | Acres | Assume 20 | 00 x 200 working face | |
| Assumed Speeds | | | | | | |
| Compactor Speed | 3 | mph | | | | |
| Dozer Speed | 3 | mph | | | | |
| Loader Speed | 7.1 | mph, AP-42 Default | | | | |
| Grader Speed | 7.1 | mph, AP-42 Default | | | | |
| Off-Road Haul Truck Speed | 7.1 | mph, AP-42 Default | | | | |
| Excavator Speed | 0 | mph | mostly stationary | | | |
| Backhoe Speed | 0 | mph | mostly stationary | | | |
| Construction Excavation | 6,000 | cy | | | | |
| Construction Excavation | 10,020 | tons @1.67 t/cy | 239 | Loads | 41.68 | Total Miles One way |
| Daily Cover Excavation | 320 | cy (2000 tpd waste /0.75 | x 0.12 cy soil/cy waste | | | |
| Daily Cover Excavation | 534 | tons @1.67 t/cy | 15 | Loads = | 2.60 | Total Miles One way |
| | | | | | | |

Waste Delivery On-Site Emissions - Assuming

See Footnotes on Attachment O1

| | | Vehicle Prop | perties | | | | | | | | | | | | | | | | | Em | ission Factors : | and Calculatio | ns | | | | | | | | | | | |
|---|------------------|--------------|-----------------|---------------|----------------------------------|--------------------------------------|-------------------------------------|-----------------------------|--|----------|------------------------------------|--|--|----------|--|-----------|--|-----------|---|-----------|---|----------------|--|-----------|---|----------|---|------------------------|---|-----------|-----------|----------|---|----------|
| On-Road Vehicles | Vehicle Category | Trips/Day | Trip Dist (both | Total Miles / | Paved Miles / Day (both ways) | Graveled Miles/Day (both ways) | Unpaved Miles/Day (both ways) | Load Factor ⁵ | RUNEX Emissions Factor NOx (g/mile) ¹⁰ | | STREX Emissions NOx (g/trip) | STREX Emissions Factor NOx (lb/day) | RUNEX Emissions Factor ROC (g/mile) ¹⁰ | | STREX Emissions Factor ROG (g/trip) ¹⁰ | Emissions | RUNLOSS Emissions Factor ROG (g/trip) ¹⁰ | Emissions | Exhaust Emissions Factor PM10 (g/mile) ¹⁰ | Emissions | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Emissions | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | Emissions | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | | Tire Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Tire Wear Emissions | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Emissions | Factor CO | | Emissions Factor SOx (g/mile) ¹⁰ | |
| ord Mechanic Truck (DSL) | LHD1 | 2 | 4.5 | 4.5 | 3.1 | 0.6 | 0.9 | 1 | 1.79 | 0.0 | 0.00 | 0.000 | 1.69E-01 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 2.54E-02 | 0.000 | 1.20E-02 | 0.000 | 7.64E-02 | 0.001 | 2.43E-02 | 0.000 | 0.003 | 0.000 | 0.033 | 0.000 | 8.28E-01 | 0.008 | 4.96E-03 | 5E-03 |
| ord F450 Flat Bed (DSL) | LHD2 | 1 | 2.3 | 2.3 | 1.5 | 0.3 | 0.4 | 1 | 1.30 | 0.0 | 0.00 | 0.000 | 1.56E-01 | 0.001 | 0.00 | 0.000 | 0.00 | 0.000 | 2.65E-02 | 0.000 | 1.20E-02 | 0.000 | 8.92E-02 | 0.000 | 2.54E-02 | 0.000 | 0.003 | 0.038 | 0.038 | 0.000 | 7.72E-01 | 0.004 | 5.54E-03 | 3E-05 |
| Vater Truck (DSL) ¹ | T6 CAIRP heavy | 32 | 72.6 | 72.6 | 49.5 | 9.2 | 13.9 | 1 | 2.86 | 0.5 | 0.00 | 0.000 | 1.02E-02 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 1.79E-02 | 0.003 | 1.20E-02 | 0.002 | 1.30E-01 | 0.021 | 1.71E-02 | 0.003 | 0.003 | 0.000 | 0.001 | 0.000 | 8.47E-02 | 0.014 | 9.01E-03 | 1E-03 |
| upport Light Heavy Duty Trucks (2, DSL) | LHD1 | 4 | 9.1 | 9.1 | 6.2 | 1.2 | 1.7 | 1 | 1.79 | 0.0 | 0.00 | 0.000 | 1.69E-01 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 2.54E-02 | 0.001 | 1.20E-02 | 0.000 | 7.64E-02 | 0.002 | 2.43E-02 | 0.000 | 0.003 | 0.000 | 3.28E-02 | 0.001 | 8.28E-01 | 0.017 | 4.96E-03 | 1E-04 |
| ractor Trailer Delivery (DSL) | T7 CAIRP | 1 | 2.3 | 2.3 | 1.5 | 0.3 | 0.4 | 1 | 2.12 | 0.0 | 0.00 | 0.000 | 2.02E-02 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 2.86E-02 | 0.000 | 3.60E-02 | 0.000 | 6.17E-02 | 0.000 | 2.74E-02 | 0.000 | 0.009 | 0.000 | 0.026 | 0.000 | 1.88E-01 | 0.001 | 1.02E-02 | 5E-05 |
| Carpool Vehicles (2, Gas) | LDT1 | 2 | 4.5 | 4.5 | 3.1 | 0.6 | 0.9 | 1 | 0.03 | 0.0 | 0.17 | 0.001 | 7.13E-01 | 0.007 | 0.21 | 0.001 | 0.46 | 0.002 | 1.08E-03 | 0.000 | 8.00E-03 | 0.000 | 3.68E-02 | 0.000 | 9.97E-04 | 0.000 | 0.002 | 0.000 | 0.016 | 0.000 | 5.01E-01 | 0.005 | 2.52E-03 | 3E-05 |
| otals | | | | 95 | 64.9 | 12 | 18 | | | 0.529 | | 0.001 | | 0.013 | | 0.001 | | 0.002 | | 0.004 | | 0.003 | | 0.024 | | 0.004 | | 0.039 | | 0.002 | | 0.048 | | 0.007 |
| rorated by Mile | | | | | | | | | | 5.55E-03 | | 8.06E-06 | | 1.37E-04 | | 9.78E-06 | | 2.13E-05 | | 4.10E-05 | | 2.73E-05 | | 2.55E-04 | | 3.93E-05 | | 4.08E-04 | | 1.66E-05 | | 5.06E-04 | | 7.40E-05 |

Notes: Assume 2 start per day.

Table O6.3 - On-Road Waste Delivery On-Site Vehicles Proposed Project Peak Tonnage Day Assuming 2030 Emissions Year

| | | Site Prope | erties | | | | | | | | | | | | | | | | | Em | ission Factors a | nd Calculatio | ns | | | | | | | | | | | |
|---|---|--|-----------------|---------------|------------------------|---------------|-------------------------------|-----------------------------|--|---|------------------------------------|--|--|---|--|-----------|--|---|--------------------------|-----------|---|---------------|--|-----------|---|----------|---|------------------------|---|-----------|-----------|----------|---|---------|
| On-Road Vehicles | Vehicle Category | Trips / Day (Peak Tonnage) from Att K | Trip Dist (both | Total Miles / | Miles on Paved Road | Miles on Grav | Unpaved Miles/Day (both ways) | Load Factor ⁵ | RUNEX Emissions Factor NOx (g/mile) ¹⁰ | RUNEX Emissions NOx (lbs/day) ⁸ | STREX Emissions NOx (g/trip) | STREX Emissions Factor NOx (lb/day) | RUNEX Emissions Factor ROG (g/mile) ¹⁰ | RUNEX Emissions ROG (lbs/day) ⁸ | STREX Emissions Factor ROG (g/trip) ¹⁰ | Emissions | RUNLOSS Emissions Factor ROG (g/trip) ¹⁰ | RUNLOSS Emissions ROG (lbs/day) ⁸ | Emissions Factor PM10 | Emissions | Tire Wear Emissions Factor PM10 (g/mile) ¹⁰ | Emissions | Brake Wear Emissions Factor PM10 (g/mile) ¹⁰ | Emissions | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | | Tire Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Tire Wear Emissions | Brake Wear Emissions Factor PM2.5 (g/mile) ¹⁰ | Emissions | Factor CO | CO | Emissions Factor SOx (g/mile) ¹⁰ | so |
| -County Self Haul/Residential ^{†2} | Light/Heavy Duty Trucks (LHD 1 - Gas) | 217 | 398 | 492 | 335 | 62 | 95 | 1 | 0.163 | 0.143 | 0.47 | 0.415 | 0.027 | 0.024 | 0.10 | 0.091 | 1.22 | 1.068 | 0.002 | 0.002 | 0.008 | 0.007 | 0.076 | 0.067 | 0.002 | 0.002 | 0.002 | 0.002 | 0.033 | 0.029 | 0.524 | 0.460 | 0.009 | 0.008 |
| -County Commercial Diesel | T7-SWCV (Dsl) | 29 | 53 | 65 | 45 | 8 | 13 | 1 | 0.464 | 0.054 | 5.53 | 0.645 | 0.024 | 0.003 | 0.00 | 0.000 | 0.00 | 0.000 | 0.018 | 0.002 | 0.036 | 0.004 | 0.062 | 0.007 | 0.017 | 0.002 | 0.009 | 0.001 | 0.026 | 0.003 | 0.066 | 0.008 | 0.028 | 0.003 |
| County Commercial CNG | T7-SWCV (NG) | 10 | 19 | 23 | 16 | 3 | 4 | 1 | 0.313 | 0.013 | 0.00 | 0.000 | 0.043 | 0.002 | 0.00 | 0.000 | 0.00 | 0.000 | 0.003 | 0.000 | 0.036 | 0.001 | 0.062 | 0.003 | 0.003 | 0.000 | 0.009 | 0.000 | 0.026 | 0.001 | 11.219 | 0.460 | 0.000 | 0.000 |
| ut of County Commercial ² | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 95 | 174 | 216 | 147 | 27 | 41 | 1 | 2.120 | 0.814 | 2.23 | 0.857 | 0.024 | 0.009 | 0.00 | 0.000 | 0.00 | 0.000 | 0.029 | 0.011 | 0.036 | 0.014 | 0.027 | 0.011 | 0.009 | 0.003 | 0.009 | 0.003 | 0.026 | 0.010 | 0.188 | 0.072 | 0.010 | 0.004 |
| TOTALS | | 351 | | 796 | 542 | 101 | 153 | | | 1.024 | | | | 0.038 | | 0.091 | | 1.068 | | 0.015 | | 0.027 | | 0.087 | | 0.007 | | 0.007 | | 0.043 | | 0.999 | | 0.015 |
| orated by Mile | | | | - | · | | • | | | 1.29E-03 | | 0.00E+00 | | 6.95E-05 | | 1.68E-04 | | 1.97E-03 | | 2.81E-05 | | 4.89E-05 | | 1.61E-04 | | 1.37E-05 | | 1.22E-05 | | 7.94E-05 | | 1.84E-03 | i | 2.79E-0 |

Assuming 2025 Model Year or Better for PM2.5, CO, and SO2

Assuming Tier 4 final for all equipment over 200 hp

| | | Vehicle | e Properties | | | | | | | | | | | Air Quali | ity Emission l | actors and Ca | lculations | | | | |
|---------------------------------------|----------------------------------|---|-----------------------|-----------------|------------|-------------------|--------------------------|--|-----------------------------------|--|--|--|--|--|--|--|--|---|---|--|------|
| Off-Road Equipment | Off-Road Equipment Equivalent | Manufacturer/ Model/ Fuel ² | Model Year (motor) | HP ³ | Miles /Day | Tier ⁴ | Load Factor ⁵ | Peak Operating Hours per Day ⁶ | Days of Operation ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | Emissions NOx (lbs/day) ⁹ | Emissions Factor ROG (g/bhp- hr) ⁷ | Emissions ROG (lbs/day) ⁹ | Exhaust Emissions Factor PM10 (g/bhp-hr) ⁷ | Exhaust Emissions PM10 (lbs/day) ⁹ | Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Emissions PM2.5 (lbs/day) ⁹ | Emissions Factor CO (g/bhp-hr) ⁷ | Emissions CO (lbs/day) ⁹ | Emissions Factor SO ₂ (g/bhp-hr) ⁷ | _ |
| Dozer (not used for bulk exc.) | Crawler Tractors | Caterpillar D6T LGP | 2025 | 165 | 24 | 3 | 0.43 | 8 | 7 | 2.32 | 2.90 | 0.09 | 0.11 | 0.112 | 0.14 | 0.138 | 0.17 | 3.209 | 4.02 | 0.005 | 0.01 |
| Dozer | Crawler Tractors | Caterpillar D8T Diesel | 2025 | 310 | 24 | 4 (Final) | 0.43 | 8 | 7 | 0.26 | 0.61 | 0.05 | 0.12 | 0.009 | 0.02 | 0.074 | 0.17 | 1.717 | 4.04 | 0.005 | 0.01 |
| Pozer (Stockpile Area) | Crawler Tractors | Caterpillar D6R Diesel | 2025 | 140 | 12 | 3 | 0.43 | 4 | 7 | 2.32 | 1.23 | 0.09 | 0.05 | 0.112 | 0.06 | 0.138 | 0.07 | 3.209 | 1.70 | 0.005 | 0.00 |
| Grader (not used for bulk excav.) | Graders | Caterpillar 140G Diesel | 2025 | 150 | 0 | 3 | 0.41 | 0 | 7 | 2.32 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.140 | 0.00 | 3.418 | 0.00 | 0.005 | 0.00 |
| .oader (Stockpile Area for Screening) | Rubber Tired Loaders | Caterpillar 938M Diesel | 2025 | 190 | 56.8 | 3 | 0.36 | 8 | 7 | 2.32 | 2.80 | 0.09 | 0.11 | 0.088 | 0.11 | 0.045 | 0.05 | 1.142 | 1.38 | 0.005 | 0.01 |
| Pad-Foot Compactor | Rollers | Caterpillar 826C Diesel | 2025 | 341 | 27 | 4 (Final) | 0.38 | 9 | 7 | 0.26 | 0.67 | 0.05 | 0.13 | 0.009 | 0.02 | 0.083 | 0.21 | 1.968 | 5.06 | 0.005 | 0.01 |
| Smooth Drum Roller (NA) | Rollers | Caterpillar CS34 Diesel | 2025 | 74 | 0 | 3 | 0.38 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.125 | 0.00 | 3.444 | 0.00 | 0.005 | 0.00 |
| Backhoe (NA) | Tractors/Loaders/ Backhoes | Caterpillar 426C Diesel | 2025 | 88 | 0 | 3 | 0.37 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.079 | 0.00 | 3.522 | 0.00 | 0.005 | 0.00 |
| Excavator (2) | Excavators | John Deere 350 Diesel | 2025 | 271 | 0 | 4 (Final) | 0.38 | 18 | 7 | 0.26 | 1.06 | 0.05 | 0.20 | 0.009 | 0.04 | 0.024 | 0.10 | 1.051 | 4.29 | 0.005 | 0.02 |
| Screening Plant (Stockpile Area) | Other Construction Equipment | Spyder 514TS Diesel | 2025 | 74 | 0 | 3 | 0.42 | 9 | 7 | 2.74 | 1.69 | 0.09 | 0.06 | 0.192 | 0.12 | 0.187 | 0.12 | 3.584 | 2.21 | 0.005 | 0.00 |
| Extended Loader (for liner) | Tractors/Loaders/ Backhoes | JCB 20TC | 2025 | 74 | 0 | 3 | 0.37 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.079 | 0.00 | 3.522 | 0.00 | 0.005 | 0.00 |
| Off-Road Dump/haul truck (3) | Off-Highway Trucks | Caterpillar 740 diesel | 2025 | 453 | 191.7 | 4 (Final) | 0.38 | 27 | 7 | 0.26 | 2.66 | 0.05 | 0.51 | 0.009 | 0.09 | 0.035 | 0.36 | 1.182 | 12.11 | 0.005 | 0.05 |
| Totals | | | | | | • | | | | | 13.63 | 1 | 1.29 | | 0.60 | | 1.26 | | 34.81 | | 0.11 |

Note: Increased time for this analysis

For a typical construction project, it is assumed that highest emissions takes place during the bulk excavation phase - assuming site-specific excavation equipment consisting primarily of two scrapers and a dozer as listed above as Tier 4. Additional equipment listed is support equipment

| T 11 06 5 | OPEN INTE | Y2 4 | 2020 | |
|-----------|-----------|----------|------|--|

| Table O6.5 Off-Road Vehicles for Oper | ations - Future - 2030 | | | | Assuming 2025 Mode | el Year or Better fo | or PM2.5, CO, and | 1 SO2 | | | | | | | | | | | | | |
|---------------------------------------|----------------------------------|--|-----------------------|-----------------|--------------------|----------------------|--------------------------|------------|-----------------------------------|--|--|--|--|---|---|--|--|--|-------|---|--|
| | | Vehicle Properties | | | | | | Operation | Properties | | | | | Em | ission Factors | and Calculati | ons | | | | |
| Off-Road Equipment | Off-Road Equipment Equivalent | Manufacturer/Model/ Fuel ² | Model Year (motor) | HP ³ | Miles Per Day | Tier ⁴ | Load Factor ⁵ | Peak Hours | Days of Operation ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | Emissions NOx (lbs/day) ⁹ | Emissions Factor ROG (g/bhp- hr) ⁷ | Emissions ROG (lbs/day) ⁹ | Emissions Factor PM10 (g/bhp-hr) ⁷ | Emissions PM10 (lbs/day) ⁹ | Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Emissions PM2.5 (lbs/day) ⁹ | Emissions Factor CO (g/bhp-hr) ¹¹ | | Emissions Factor SO ₂ (g/bhp-hr) ¹¹ | Emissions SO ₂ (lbs/day) ⁹ |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D6T LGP | 2025 | 255 | 10 | 4 (Final) | 0.43 | 8 | 7 | 0.260 | 0.50 | 0.050 | 0.10 | 0.009 | 0.02 | 0.074 | 0.14 | 1.717 | 3.32 | 0.005 | 0.01 |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D8T Diesel | 2025 | 310 | 10 | 4 (Final) | 0.43 | 8 | 7 | 0.260 | 0.61 | 0.050 | 0.12 | 0.009 | 0.02 | 0.074 | 0.17 | 1.717 | 4.04 | 0.005 | 0.01 |
| Dozer (Support) | Crawler Tractors | Caterpillar D6R Diesel | 2025 | 200 | 3 | 4 (Final) | 0.43 | 2 | 7 | 0.260 | 0.10 | 0.050 | 0.02 | 0.009 | 0.00 | 0.088 | 0.03 | 1.308 | 0.50 | 0.005 | 0.00 |
| Grader | Graders | Caterpillar 140G Diesel | 2025 | 150 | 6 | 4 (Final) | 0.41 | 2 | 7 | 7.600 | 2.06 | 0.620 | 0.17 | 0.274 | 0.07 | 0.140 | 0.04 | 3.418 | 0.93 | 0.005 | 0.00 |
| Loader | Rubber Tired Loaders | Caterpillar 938M Diesel | 2025 | 182 | 5 | 4 (Final) | 0.36 | 2 | 7 | 12.090 | 3.49 | 1.310 | 0.38 | 0.605 | 0.17 | 0.104 | 0.03 | 1.269 | 0.37 | 0.005 | 0.00 |
| Compactor | Rollers | Caterpillar 826K Diesel | 2025 | 426 | 9 | 4 (Final) | 0.38 | 8 | 7 | 0.260 | 0.74 | 0.050 | 0.14 | 0.009 | 0.03 | 0.083 | 0.24 | 1.968 | 5.62 | 0.005 | 0.01 |
| Compactor | Rollers | Caterpillar 826K Diesel | 2025 | 426 | 5 | 4 (Final) | 0.38 | 4 | 7 | 0.260 | 0.37 | 0.050 | 0.07 | 0.009 | 0.01 | 0.083 | 0.12 | 1.968 | 2.81 | 0.005 | 0.01 |
| Backhoe | Tractors/Loaders/Backhoes | Caterpillar 426C Diesel | 2025 | 81.8 | 0 | 4 (Final) | 0.37 | 2 | 7 | 0.260 | 0.03 | 0.050 | 0.01 | 0.009 | 0.00 | 0.079 | 0.01 | 3.522 | 0.47 | 0.005 | 0.00 |
| Excavator | Excavators | John Deere 350 Diesel | 2025 | 283 | 0 | 4 (Final) | 0.38 | 6 | 7 | 0.260 | 0.37 | 0.050 | 0.07 | 0.009 | 0.01 | 0.024 | 0.03 | 1.051 | 1.49 | 0.005 | 0.01 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2025 | 380 | 22 | 4 (Final) | 0.38 | 8 | 7 | 0.260 | 0.66 | 0.050 | 0.13 | 0.009 | 0.02 | 0.035 | 0.09 | 1.182 | 3.01 | 0.005 | 0.01 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2025 | 380 | 11 | 4 (Final) | 0.38 | 4 | 7 | 0.260 | 0.33 | 0.050 | 0.06 | 0.009 | 0.01 | 0.035 | 0.04 | 1.182 | 1.51 | 0.005 | 0.01 |
| Truck Tipper | Other Construction Equipment | Columbia | 2025 | 156 | NA | 4 (Final) | 0.42 | 8 | 7 | 0.260 | 0.30 | 0.050 | 0.06 | 0.009 | 0.01 | 0.103 | 0.12 | 3.136 | 3.62 | 0.005 | 0.01 |
| Street Sweeper | Other Construction Equipment | Elgin 2019 | 2025 | 74 | NA | 4 (Final) | 0.42 | 4 | 7 | 2.740 | 0.75 | 0.090 | 0.02 | 0.009 | 0.00 | 0.187 | 0.05 | 3.584 | 0.98 | 0.005 | 0.00 |
| Totals | | | | | | | | | | | 10.33 | | 1.35 | | 0.39 | | 1.12 | | 28.66 | | 0.08 |

Table O6.6 Fugitive Dust - Paved Operations and Construction Support

| | | | | Paved Road | | |
|------------------------------|-------------------------|------------------------------------|--------------------|---|----------------|---|
| | | PM ₁₀ Emissions Factor, | | Const. PM ₁₀ Emissions lb | PM, Emissions | Paved Road PM _{2.5} Emissions |
| Construction Activity | Road Distance Both Ways | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | lb per Day ³ |
| In County Public / Self Haul | 335 | 0.142 | 90% | 4.78 | 0.007 | 0.24 |
| In/County Commercial | 60 | 0.141 | 90% | 0.85 | 0.035 | 0.21 |
| Out of County Commercial | 147 | 0.187 | 90% | 2.75 | 0.046 | 0.67 |
| Operations/Support | 65 | 0.142 | 90% | 0.92 | 0.035 | 0.23 |
| Current & Proposed | · | | | 9.30 | | 1.35 |

Table O6.7 Fugitive Dust - Graveled Operations & Construction

| | | PM ₁₀ Emissions Factor, | | Paved Road Const. PM ₁₀ Emissions lb | 4.3 | Paved Road PM _{2.5} Emissions |
|---------------------------------|-------------------------|------------------------------------|--------------------|---|----------------|---|
| Construction Activity | Road Distance Both Ways | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | lb per Day ³ |
| In County Public / Self Haul | 62 | 1.012 | 90.00% | 6.32 | 0.101 | 0.63 |
| In/County Commercial | 11 | 0.141 | 90.00% | 0.16 | 0.202 | 0.23 |
| Out of County Commercial | 27 | 2.290 | 90.00% | 6.26 | 0.229 | 0.63 |
| Construction/Operations Support | 12 | 2.030 | 90.00% | 2.45 | 0.203 | 0.25 |
| Totals | | | | 15.20 | | 1.73 |

Table O6.8 Fugitive Dust - Unpaved Operations

| | | | | Paved Road | | |
|------------------------|-------------------------|------------------------------------|--------------------|-------------------------|-----------------------------|-----------------------------|
| | | | | Const. PM ₁₀ | | Paved Road |
| | | PM ₁₀ Emissions Factor, | | Emissions | PM _{2.5} Emissions | PM _{2.5} Emissions |
| Construction Activity | Road Distance Both Ways | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | per Day ³ |
| Construction Support | 18 | 2.030 | 90.00% | 3.71 | 0.262 | 0.48 |
| Daily Cover Haul Truck | 5 | 4.242 | 90.00% | 2.21 | 0.424 | 0.22 |
| Totals | | | | 5.92 | | 0.70 |

Table O6.9 Fugitive Dust - Unpaved Construction

| | | | | Paved Road Const. PM ₁₀ | | Paved Road |
|-----------------------|-------------------------|------------------------------------|--------------------|---------------------------------------|-----------------------------|-----------------------------|
| | | PM ₁₀ Emissions Factor, | | Emissions | PM _{2.5} Emissions | PM _{2.5} Emissions |
| Construction Activity | Road Distance Both Ways | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | per Day ³ |
| Soil Haul Truck | 83 | 4.242 | 95% | 17.68 | 0.424 | 1.77 |
| Totals | | | | 17.68 | | 1.77 |

Table O6.10 Fugitive Dust - Waste Filling Pad (Operations)

| | | PM ₁₀ Emissions Factor, | | Paved Road Const. PM ₁₀ Emissions lb | PM _{2.5} Emissions | Paved Road PM _{2.5} Emissions |
|---------------------------|-------|------------------------------------|--------------------|---|-----------------------------|---|
| Construction Activity | VMT | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | lb per Day ³ |
| Grader, Loader, Scraper | 11 | 1.543 | 90.00% | 1.69 | 0.227 | 0.25 |
| Compacting Waste & Dozers | Hr | lb/hr | | | lb/hr | |
| Compactor/Dozer | 12 | 0.753 | 90.00% | 0.93 | 0.414 | 0.51 |
| Unloading Daily Cover | Ton | lb/ton | | | lb/ton | |
| Daily Cover Unloading | 1,069 | 0.0002 | 25.00% | 0.19 | 0.000 | 0.03 |
| Totals | | | | 2.80 | | 0.79 |

Table O6.11 Fugitive Dust - Construction Area

| - mart o and a general and a second | | | | | | |
|-------------------------------------|--------|------------------------------------|--------------------|---|-----------------------------|---|
| | | PM ₁₀ Emissions Factor, | | Paved Road Const. PM ₁₀ Emissions lb | PM _{2.5} Emissions | Paved Road PM _{2.5} Emissions |
| Construction Activity | VMT | lb/VMT | Control Efficiency | per Day | Factor, lb/VMT | per Day ³ |
| Loader, grader, scraper | 11 | 1.543 | 90.00% | 1.69 | 0.227 | 0.25 |
| Ripping/Compacting | Hr | lb/hr | | | lb/hr | |
| Dozer, Compactor, Grader | 12 | 0.753 | 90.00% | 0.90 | 0.414 | 0.50 |
| Loading | Tons | lb/ton | | | lb/ton | |
| Daily Cover Unloading | 10,020 | 0.0002 | 25.00% | 1.80 | 0.000 | 0.27 |
| Totals | | | | 4.39 | | 1.02 |

Table O6.12 Fugitive Dust - Stockpiling Area (including screening)

| Construction Activity | Hr | Lb/Hr | Control Efficiency | Paved Road Const. PM ₁₀ Emissions per Day ³ | PM _{2.5} Emissions Factor, lb/VMT | Paved Road PM _{2.5} Emissions per Day ³ |
|-------------------------|--------|--------|--------------------|--|---|---|
| Loader (to load screen) | 6 | 1.543 | 75.00% | 2.31 | 0.227 | 0.34 |
| Dozer, Compactor, | 6 | 1.543 | 75.00% | 2.31 | 0.414 | 0.62 |
| Loading | Tons | | | | | |
| Screening | 887 | 0.0002 | 75.00% | 0.05 | 0.000 | 0.01 |
| Unloading | 10,020 | 0.0002 | 75.00% | 0.60 | 0.000 | 0.09 |
| Totals | | | | 5.28 | | 1.06 |

- 1: Average trips from Table K1 x miles on paved or unpaved road
 2: Average trips from Table K2 x miles on paved or unpaved road
 3: Assuming (Ep truck x VMT truck) + (Ep car x VMT car)
 4: Assuming (Ep truck x VMT truck) + (Ep car x VMT car)
 5: Assumes 10 delivery and employee trips per project at Proposed Project mileage
 7: Assumes 10 delivery and employee trips per project at Proposed Project mileage
 7: Assumes 4,000 cyday @ 25 cy/trip = 160 traps and one mile round trip to stockpile
 8: Assuming (Eup Off-Road Dump x VMT truck) + (Eup Off-Road Car x VMT car)

Dust Emissions Factor Calculation

Paved Road Emission Factor Equation for On-Site Roads

Ep = [k(sL)^0.91 (W)^1.02]x (1-P/4N)

Equation (1) from USEPA, AP-42 Fifth Edition, 2011, Section 13.2.1

| • | | | | | | | |
|--------------------|---|---------------------------------------|----------------|----------------|-------------|--------------|--|
| Where: | | | | | | | |
| Ep = particula | te matter factor (having units matching the uni | ts of K) | | | | | |
| k = particle | size multiplier for particle size range and units | of interest from AP-42 Table 13.2.1-1 | | | | | |
| sL = road sur | face silt loading (g/m2) | | | | | | |
| W = average | weight (tons) of the vehicles traveling the road | | | | | | |
| P = number | of wet days with at least 0.01 inch or precipitat | ion during the averaging period | | | | | |
| N = number | of averaging days for period | | | | | | |
| | | | | | | | |
| | | In-County | | | | | |
| When: | Out of County Units | Commercial Units | Self Haul | Operations | Source | | |
| k _{2.5} = | 0.00054 lb/VMT | 0.00054 lb/VMT | 0.00054 lb/VMT | 0.00054 lb/VMT | AP-42 Tab | le 13.2.1-1 | |
| k ₁₀ = | 0.0022 lb/VMT | 0.0022 lb/VMT | 0.0022 lb/VMT | 0.0022 lb/VMT | AP-42 Tab | le 13.2.1-1 | |
| sL = | 4.5 g/m2 | 4.5 g/m2 | 4.5 g/m2 | 4.5 g/m2 | AP-42 Tab | le 13.2.1-5 | Assume surface low range of 1.1 on onbound leg and mean of 7.4 |
| W = | 27.00 tons | 20.5 tons | 4.4 tons | 20.7 tons | See Table (| Q12 below | |
| On Site P = | l days | 1 days | 1 days | 1 days | days | Assume water | red surface |
| On Site N = | l days | 1 days | 1 days | 1 days | days | Assume water | red surface |
| | | | | | | | |
| Then: | | | | | | | |
| Ep2.5 = | 0.046 lb/VMT | 0.035 lb/VMT | 0.007 lb/VMT | 0.035 lb/VMT | | | |
| Ep10 = | 0.187 lb/VMT | 0.141 lb/VMT | 0.029 lb/VMT | 0.142 lb/VMT | | | |

Gravel Road Emission Factor

 $E = k * (s/12)^a * (W/3)^b$

- Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2

 Where:

 Eup = size-specific emission factor (Ib/VMT) for unpaved surface
 k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2
 s = surface material silt content (%)

 W = mean vehicle weight (tons)
 a = industrial road constant from AP-42, Table 13.2.2-2
 b = industrial road constant from AP-42, Table 13.2.2-2

| | | in-County | | | |
|---------------|---------------------|------------------|--------------|--------------|-----|
| When: | Out of County Units | Commercial Units | Self Haul | Operations | Sou |
| $k_{2.5} =$ | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT | Per |
| $k_{10} =$ | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT | Per |
| s = | 6.4 % | 6.4 % | 6.4 % | 6.4 % | Per |
| W = | 27.0 tons | 20.5 tons | 4.4 tons | 20.7 tons | Tab |
| a = | 0.9 | 0.9 | 0.9 | 0.9 | Per |
| b = | 0.45 | 0.45 | 0.45 | 0.45 | Per |
| Then: | | | | | |
| Eup2.5 = | 0.229 lb/VMT | 0.202 lb/VMT | 0.101 lb/VMT | 0.203 lb/VMT | |
| $E_{IIP}10 =$ | 2.290 lb/VMT | 2.023 lb/VMT | 1.012 lb/VMT | 2.030 lb/VMT | |

Unpaved Road Emission Factor

 $E = k * (s/12)^a * (W/3)^b$

- Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2

 Where:

 Eup = size-specific emission factor (lb/VMT) for unpaved surface
 k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2
 s = surface material silt content (%)

 W = mean vehicle weight (tons)
 a = industrial road constant from AP-42, Table 13.2.2-2
 b = industrial road constant from AP-42, Table 13.2.2-2

| When: | Haul Truck Units | Operations Units | Source |
|----------------------|------------------|------------------|--|
| k _{2.5} = | 0.15 lb/VMT | 0.15 lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| $k_{10} =$ | 1.5 lb/VMT | 1.5 lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| s = | 8.5 % | 8.5 % | Per AP-42 Table 13.2.2-1 for landfills, mean for construction site scraper |
| W = | 60.3 tons | 20.7 tons | Table Q13 |
| a = | 0.9 | 0.9 | Per AP-42 Table 13.2.2-2 for industrial roads |
| b = | 0.45 | 0.45 | Per AP-42 Table 13.2.2-2 for industrial roads |
| Then: | | | |
| Eup2.5 = | 0.424 lb/VMT | 0.262 lb/VMT | |
| E _{UP} 10 = | 4.242 lb/VMT | 2.621 lb/VMT | |
| | | | |

7.4 on outbound leg from 13.2.1.-3, average of:

Source
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-1 for landfills, mean of graveled roads
Table 02
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-2 for industrial roads

| Table O6.13 Vehicle | Waight Accumption | e (accumae full laad i | n and ampty out) |
|---------------------|-------------------|------------------------|------------------|
| | | | |

| Category | Type | Percent | GVW, lb | NVW, lb | Average, lb | Av Tons |
|--|------------------------|---------|---------|---------|------------------|---------|
| Small Vehicle (Public /Self Haul) | Ford F250 Gross Weight | NA | 9,900 | 7,700 | 8,800 | 4.4 |
| In County Commercial | Garbage Truck | NA | 51,000 | 31,000 | 41,000 | 20.5 |
| Out of County Commercial | Waste Transfer Truck | NA | 75,000 | 33,000 | 54,000 | 27.0 |
| Support Vehicles For Construction | | | | | | |
| Average of: | Miles | | | | | |
| Ford Mechanic Truck (DSL) | 2 | 5% | 14,000 | 8,600 | 11,300 | 5.7 |
| Ford F450 Flat Bed (DSL) | 1 | 2% | 14,000 | 8,600 | 11,300 | 5.7 |
| Water Truck (DSL), 4,000 gal | 32 | 76% | 63,000 | 29500 | 46,250 | 23.1 |
| Support Light Heavy Duty Trucks (2, DSL) | 4 | 10% | 14,000 | 8,600 | 11,300 | 5.7 |
| Tractor Trailer Delivery (DSL) | 1 | 2% | 75,000 | 33,000 | 54,000 | 37.5 |
| Carpool Vehicles (2, Gas) | 2 | 5% | 51,000 | 31,000 | 41,000 | 25.5 |
| Total | 42 | | | | Weighted Average | 20.7 |
| Off Road Dump | CAT 740 | NA | 162,399 | 78,632 | 120,516 | 60.3 |

GVW: Gross vehicle weight including load

Grading Equipment Passes Use for graders, loaders, rubber tired dozers, and scrapers to scrape or push soil

Source: CalEEMod 2020.4.0, Appendix A Page 8

$$\begin{split} &EF_{PM15} = 0.051~x~(S)^{2.0}, \text{and } EF_{PM10} = EF_{PM15}~x~F_{PM10}. \text{Used for } PM_{10} \\ &EF_{TSP} - 0.4~x~(S)^{2.5}, \text{and } EF_{PM2.5} = EF_{TSP}~x~F_{PM2.5}. \text{Used for } PM_{2.5} \end{split}$$

 $\begin{aligned} & \text{Where:} \\ & \text{EF} = \text{ emissions factor (lb/VMT)} \\ & \text{S} = \text{mean vehicle speed (mph)} \\ & \text{F}_{\text{PM2.5}} = \text{PM}_{2.5} \text{ scaling factor.} \\ & \text{F}_{\text{PM10}} = \text{PM}_{10} \text{ scaling factor.} \end{aligned}$ AP-42 Default = 7.1 AP-42 Default = 0.03 AP-42 Default = 0.6

1.543 lb/VMT 0.227 lb/VMT

Bulldozers Passes Use for compactors & tracked dozers

$$EF_{PM15}=\left(C_{PM15}~x~s^{1.5}\right)/~M^{1.4}~$$
 , and $EF_{PM10}=EF_{PM15}~x~F_{PM10};~used~for~PM_{10}$

$$EF_{TSP}$$
 - (C $_{TSP}$ x $s^{1.2}$)/ $M^{1.3}$, and $EF_{PM2.5}$ = EF_{TSP} x $F_{PM2.5};\;\;used$ for $PM_{2.5}$

CalEEMod 2020.4.0, Appendix A Page 9

Per AP-42 defaults for Overburden

Where:
$$\begin{split} & \text{FF} = \text{emissions factor (lb/hr)} \\ & \text{C} = \text{Coefficient used by AP-42} \\ & \text{s} = \text{Material silt content (%)} \\ & \text{M} = \text{Material indrostoure content (%)} \\ & \text{F}_{\text{PM2}} = \text{PM}_{\text{20}} \text{ sealing factor.} \\ & \text{F}_{\text{PM0}} = \text{PM}_{\text{10}} \text{ scaling factor.} \\ \end{split}$$
 $& \text{AP-42 default is 0.031} \\ & \text{F}_{\text{M10}} = \text{PM}_{\text{10}} \text{ scaling factor.} \\ \end{split}$

0.753 lb/hr x hr/day 0.414 lb/hr x hr/day $EF_{PM10} = EF_{PM2.5} =$

Truck Loading

 $EF_D = k \times (0.0032) \times ((U/5)^{1.3} / (M/2)^{1.4})$

From CalEEMod Appendix A and AP-42 Section 13.2.4

Per AP-42 defaults for Overburden

From CalEEMod Appendix
Where:
EF = emissions factor (lb/ton)
k = Particle size multiplier
U = mean wind speed (mph)
M = Material moisture content $PM_{10} = 0.35$ $PM_{2.5} = 0.053$ M = 7.90 AP42 Table 13.2.4-1 clay/dirt mix

6.7 mph based on site specific wind data; Mode 30 CY loose, CY banked 1.8 CY loose/CY banked 1.6875 by, in place 1 6.000 cy/day 10.125 b/day 500 cy/day 500 cy/day 843.75 b/day

Assume:
U =
Load size =
Fluff factor =
Banked density =
Production =
Production =
Screening Production =
Screening Production =

 $EF_{PM10} = EF_{PM2.5} =$ 2.3945E-04 lb/ton x production = 3.6260E-05 lb/ton x production =

Asphalt

While there is no specific screen associated with asphalt paving emissions, CalEEMod estimates VOC off-gassing emissions associated with asphalt paving of parking lots using the following equation: Source CalEEMod Users Manual, 2020, Page 18

$$E_{AP} = EF_{AP} \times A_{Parking}$$

Where: E = emissions (lb)

EF = emission factor (lb/acre). The SMAQMD default emission factor is 2.62 lb/acre.16

A = area of the parking lot (acre)

$$\begin{split} E_{AP} = \\ Acres of New Pavement \\ Das of Construction = \\ E_{AP}d = \end{split}$$
9.17 lb. VOC /acre 3.5 Acres 2 4.585 lb. VOC /day

John Smith Road Landfill

Attachment Q - Scenario 5 - Class I Area Clean Closure

Alternatives Assessment

Table O7.1 - Summary Table - Scenario 5 - South Project & Class I Area

| Location | PM ₁₀ , lb/day | PM _{2.5} , lb/day | ROG, lb/day | NOx, lb day | CO, lb day | SO2, lb/day |
|--|---------------------------|----------------------------|-------------|-------------|------------|-------------|
| Emissions from Paved Road | 16.48 | 23.74 | 4.41 | 4.24 | 3.77 | 0.07 |
| Emissions from Graveled Road | 27.02 | 3.10 | 0.79 | 0.76 | 0.68 | 0.01 |
| Emissions from Unpaved Road | 7.78 | 0.86 | 0.45 | 0.44 | 0.39 | 0.01 |
| Emissions from Soil Haul Path | 42.28 | 4.23 | 0.70 | 3.66 | 16.63 | 0.02 |
| Emissions from Waste Disposal Area | 3.20 | 1.91 | 1.08 | 8.97 | 22.65 | 0.06 |
| Emissions from Construction Area | 4.70 | 1.02 | 0.63 | 5.62 | 18.90 | 0.06 |
| Emissions from Stockpile | 1.55 | 1.50 | 0.21 | 0.39 | 5.29 | 0.01 |
| Flare or IC (peak) ¹ | 0.44 | 0.45 | 4.22 | 49.89 | 2.27 | 214.91 |
| Peak LFG Fugitive Emissions | NA | NA | 10.81 | NA | NA | NA |
| Indirect (peak tonnage day, off site)App L | NA | NA | 0.29 | 22.57 | NA | NA |
| Entrance Queuing | 0.00 | 0.00 | 0.10 | 1.05 | 1.45 | 0.00 |
| Total | 103.46 | 36.81 | 23.72 | 97.58 | 72.03 | 215.14 |
| Baseline (2021) | 80.80 | 14.35 | 19.88 | 63.73 | 66.46 | 42.79 |
| Change from Baseline | 22.66 | 22.46 | 3.83 | 33.85 | 5.57 | 172.34 |
| MBARD Thresholds | 82 | 82 | 137 | 137 | 550 | 150 |

Notes:

1: The values for ROG and CO from the flare represent the detection limit. The actual value will be lower.

2: Described as VOC in CEQA Guidelines (Assume ROG is synonymous)

3: Described as NO_X as NO₂ in CEQA Guidelines. Assume all NO_X is NO₂ for this analysis.

4: Describes as SO_X as SO₂ in CEQA Guidelines. Assume all SO_X is SO₂ for this analysis.

| Variables | | | | | | |
|----------------------------------|--------|-------------------------|--------------------------|---------------|-----------------------|---------------------|
| Project Year | 2040 | | | | | |
| Waste Delivery Miles - Paved | 7,500 | 1.42 | Miles One Way | | | 8,850 |
| Waste Delivery Miles - Graveled | 1,350 | 0.26 | Miles One Way | | | |
| Construction Access - Unpaved | 770 | 0.15 | Miles One Way In | Addition to V | Waste Delivery | |
| Construction Soil Haul - Unpaved | 2,200 | 0.42 | Miles One Way | | | |
| Construction Area | | 9 | Acres | | | |
| Stockpile Area | | 5.7 | Acres | | | |
| Waste Disposal Area | | 1 | Acres | Assume 20 | 00 x 200 working face | |
| | | | | | | |
| Assumed Speeds | | | | | | |
| Compactor Speed | 3 | mph | | | | |
| Dozer Speed | 3 | mph | | | | |
| Loader Speed | 7.1 | mph, AP-42 Default | | | | |
| Grader Speed | 7.1 | mph, AP-42 Default | | | | |
| Off-Road Haul Truck Speed | 7.1 | mph, AP-42 Default | | | | |
| Excavator Speed | 0 | mph | mostly stationary | | | |
| Backhoe Speed | 0 | mph | mostly stationary | | | |
| | | | | | | |
| Construction Excavation | 6,000 | cy | | | | |
| Construction Excavation | 10,020 | tons @1.67 t/cy | 239 | Loads | 99.67 | Total Miles One way |
| Daily Cover Excavation | 320 | cy (2000 tpd waste /0.7 | 5 x 0.12 cy soil/cy wast | e | | |
| Daily Cover Excavation | 534 | tons @1.67 t/cy | 15 | Loads = | 6.22 | Total Miles One way |

Waste Delivery On-Site Emissions - Assuming

See Footnotes on Attachment O1

| Table O7.2 - On-Road Support Vehicles | s for Construction or Operat | tions Peak Day | | | | | | 2030 Calend | ar Year with A | ggregate Model | Years and Annu | al Emissions | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------------------|-----------------------|-----------------------|---------------|------------------------|----------|-------------|---------------------|----------------|-----------------------------------|----------------|--------------|------------------------|------------|------------------------|------------|-------------|------------|------------|---------------------------|------------|------------|--------------------------|------------|------------|------------------------------|------------|------------|-----------------------------|------------|------------|------------|------------------------|------------|
| | | Vehicle Pro | perties | | | | | | | Emission Factors and Calculations | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | Brake | | | | | | Brake | 1 ' | | 1 ' | l | |
| | | | | | | | | | | | | | | | | | | | Exhaust | | Tire Wear | | Wear | Brake | Exhaust | | Tire Wea | r | Wear | 1 ' | | 1 ' | l | |
| | | | | | | | | | RUNEX | RUNEX | | STREX | RUNEX | RUNEX | STREX | STREX | RUNLOSS | RUNLOSS | Emissions | Exhaust | Emissions | Tire Wear | Emissions | Wear | Emissions | Exhaust | Emission | Tire Wear | Emissions | Brake | | 1 ' | | |
| | | | | | | Graveled | Unpayed | | Emissions | Emissions | STREX | Emissions | Emissions | Emissions | Emissions | Emissions | Emissions | Emissions | Factor | Emissions | Factor | Emissions | Factor | Emissions | Factor | Emissions | Factor | Emissions | Factor | Emissions | Emissions | Emissions | Emissions | Emission |
| | | | Trip Dist (both | Total Miles | Paved Miles / Day | | Miles/Day | Load | Factor NOx | NOx | | Factor NOx | Factor ROG | ROG | Factor ROG | ROG | Factor ROG | ROG | PM10 | PM10 | PM10 | PM10 | PM10 | PM10 | PM2.5 | PM2.5 | PM2.5 | PM2.5 | PM2.5 | PM2.5 | Factor CO | co | Factor SOx | SOx |
| On-Road Vehicles | Vehicle Category | Trips/Day | ways) | / Day | (both ways) | ways) | (both ways) | Factor ⁵ | (g/mile)10 | (lbs/day)8 | NOx (g/trip) | (lb/day) | (g/mile) ¹⁰ | (lbs/day)8 | (g/trip) ¹⁰ | (lbs/day)8 | (g/trip) 10 | (lbs/day)8 | (g/mile)10 | (lbs/day)8 | (g/mile)10 | (lbs/day)8 | (g/mile)10 | (lbs/day)8 | (g/mile)10 | (lbs/day)8 | (g/mile)10 | (lbs/day)8 | (g/mile) ¹⁰ | (lbs/day)8 | (g/mile)10 | (lbs/day)8 | (g/mile) ¹⁰ | (lbs/day)8 |
| Ford Mechanic Truck (DSL) | LHD1 | 2 | 7.3 | 7.3 | 5.7 | 1.0 | 0.6 | 1 | 1.79 | 0.0 | 0.00 | 0.000 | 1.69E-01 | 0.003 | 0.00 | 0.000 | 0.00 | 0.000 | 2.54E-02 | 0.000 | 1.20E-02 | 0.000 | 7.64E-02 | 0.001 | 2.43E-02 | 0.000 | 0.003 | 0.000 | 0.033 | 0.001 | 8.28E-01 | 0.013 | 4.96E-03 | 5E-03 |
| Ford F450 Flat Bed (DSL) | LHD2 | 1 | 3.6 | 3.6 | 2.8 | 0.5 | 0.3 | 1 | 1.30 | 0.0 | 0.00 | 0.000 | 1.56E-01 | 0.001 | 0.00 | 0.000 | 0.00 | 0.000 | 2.65E-02 | 0.000 | 1.20E-02 | 0.000 | 8.92E-02 | 0.001 | 2.54E-02 | 0.000 | 0.003 | 0.038 | 0.038 | 0.000 | 7.72E-01 | 0.006 | 5.54E-03 | 4E-05 |
| Water Truck (DSL) ¹ | T6 CAIRP heavy | 32 | 116.6 | 116.6 | 90.9 | 16.4 | 9.3 | 1 | 2.86 | 0.7 | 0.00 | 0.000 | 1.02E-02 | 0.003 | 0.00 | 0.000 | 0.00 | 0.000 | 1.79E-02 | 0.005 | 1.20E-02 | 0.003 | 1.30E-01 | 0.034 | 1.71E-02 | 0.004 | 0.003 | 0.001 | 0.001 | 0.000 | 8.47E-02 | 0.022 | 9.01E-03 | 2E-03 |
| Support Light Heavy Duty Trucks (2, DSL) | LHD1 | 4 | 14.6 | 14.6 | 11.4 | 2.0 | 1.2 | 1 | 1.79 | 0.1 | 0.00 | 0.000 | 1.69E-01 | 0.003 | 0.00 | 0.000 | 0.00 | 0.000 | 2.54E-02 | 0.001 | 1.20E-02 | 0.000 | 7.64E-02 | 0.002 | 2.43E-02 | 0.001 | 0.003 | 0.000 | 3.28E-02 | 0.001 | 8.28E-01 | 0.027 | 4.96E-03 | 2E-04 |
| Fractor Trailer Delivery (DSL) | T7 CAIRP | 1 | 3.6 | 3.6 | 2.8 | 0.5 | 0.3 | 1 | 2.12 | 0.0 | 0.00 | 0.000 | 2.02E-02 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 2.86E-02 | 0.000 | 3.60E-02 | 0.000 | 6.17E-02 | 0.000 | 2.74E-02 | 0.000 | 0.009 | 0.000 | 0.026 | 0.000 | 1.88E-01 | 0.002 | 1.02E-02 | 8E-05 |
| Carpool Vehicles (2, Gas) | LDT1 | 2 | 7.3 | 7.3 | 5.7 | 1.0 | 0.6 | 1 | 0.03 | 0.0 | 0.17 | 0.001 | 7.13E-01 | 0.011 | 0.21 | 0.001 | 0.46 | 0.002 | 1.08E-03 | 0.000 | 8.00E-03 | 0.000 | 3.68E-02 | 0.001 | 9.97E-04 | 0.000 | 0.002 | 0.000 | 0.016 | 0.000 | 5.01E-01 | 0.008 | 2.52E-03 | 4E-05 |
| Totals | | | | 153 | 119.3 | 21 | 12 | | | 0.849 | | 0.001 | | 0.021 | | 0.001 | | 0.002 | | 0.006 | | 0.004 | | 0.039 | | 0.006 | | 0.039 | | 0.003 | | 0.077 | | 0.008 |
| Prorated by Mile | | | | | | | | | | 5.55E-03 | | 5.02E-06 | | 1.37E-04 | | 6.09E-06 | | 1.32E-05 | | 4.10E-05 | | 2.73E-05 | | 2.55E-04 | | 3.93E-05 | | 2.56E-04 | | 1.66E-05 | | 5.06E-04 | | 5.26E-05 |
| No | ote: The values for STREX, HTSK, I | REST, DIURN, RUNL wer | e all zero in the EMF | AC2017 output | t and were not analyze | d. | | | | | | | | | | | | | To | tal PM ₁₀ g/da | y 4.95E-02 | Tot | al PM ₁₀ g/mi | 3.23E-04 | To | otal PM _{2.5} g/day | y 4.78E-4 | 02 T | otal PM _{2.5} g/mi | i 3.12E-04 | | | | |

Note: The values for STREX, HTSK, REST, DIURN, RUNL were all zero in the EMFAC2017 output and were not analyzed. Notes: Assume 2 start per day.

| Table O7 3 On Pond Waste Delivery | y On-Site Vehicles Proposed Project Peak Tonnage Day | |
|-----------------------------------|--|--|
| | | |

| | | Site Prope | rties | | | | | | | | | | | | | | | | | Emissi | on Factors an | d Calculation | ns | | | | | | | | | | | |
|--|---|---------------------|-----------------|-------------|----------------|------------------------|----------------------|------|----------------------------------|---------------------------|--------------------|----------------------------------|------------------------|---------------------------|----------------------------------|------------------------|------------------------------------|------------------------|--|------------------------------|----------------------------------|------------------------|--|------------------------|---|-------------------------------|---|------------|---|-----------------------------|------------------------|----------|-------------------------|---------|
| | | Trips / Day (Peak | Trip Dist (both | Total Miles | Miles on Paved | Miles on Council | Unpaved Miles/Day | Load | RUNEX Emissions Factor NOx | RUNEX Emissions NOx | STREX Emissions | STREX Emissions Factor NOx | RUNEX Emissions | RUNEX Emissions ROG | STREX Emissions Factor ROG | Emissions | RUNLOSS Emissions Factor ROG | Emissions | Exhaust Emissions Factor PM10 | Exhaust Emissions PM10 | Tire Wear Emissions Factor | | Brake Wear Emissions Factor PM10 | Emissions | Exhaust Emissions Factor PM2.5 | Exhaust Emissions PM2.5 | Tire Wear Emissions Factor PM2.5 | | Brake Wear Emissions Factor PM2.5 | Brake Emissions PM2.5 | Emissions | | Emissions Factor SOx | |
| On-Road Vehicles | Vehicle Category | Tonnage) from Att K | ways) | / Day | Road | Miles on Grave Road | (both ways) | | (g/mile) ¹⁰ | | NOx (g/trip) | | (g/mile) ¹⁰ | | | (lbs/day) ⁸ | (g/trip) ¹⁰ | (lbs/day) ⁸ | | (lbs/day)8 | (g/mile) ¹⁰ | (lbs/day) ⁸ | (g/mile) ¹⁰ | (lbs/day) ⁸ | (g/mile) ¹⁰ | | 10 | (lbs/day)8 | 10 | (lbs/day) ⁸ | (g/mile) ¹⁰ | _ | (g/mile) ¹⁰ | |
| In-County Self Haul/Residential 12 | Light/Heavy Duty Trucks (LHD 1 - Gas) | 217 | 727 | 791 | 616 | 111 | 63 | 1 | 0.163 | 0.261 | 0.47 | 0.759 | 0.027 | 0.043 | 0.10 | 0.166 | 1.22 | 1.953 | 0.002 | 0.004 | 0.008 | 0.013 | 0.076 | 0.123 | 0.002 | 0.003 | 0.002 | 0.003 | 0.033 | 0.053 | 0.524 | 0.840 | 0.009 | 0.015 |
| In-County Commercial Diesel11 | T7-SWCV (Dsl) | 29 | 97 | 105 | 82 | 15 | 8 | 1 | 0.464 | 0.099 | 5.53 | 1.180 | 0.024 | 0.005 | 0.00 | 0.000 | 0.00 | 0.000 | 0.018 | 0.004 | 0.036 | 0.008 | 0.062 | 0.013 | 0.017 | 0.004 | 0.009 | 0.002 | 0.026 | 0.006 | 0.066 | 0.014 | 0.028 | 0.006 |
| In County Commercial CNG | T7-SWCV (NG) | 10 | 34 | 37 | 29 | 5 | 3 | 1 | 0.313 | 0.023 | 0.00 | 0.000 | 0.043 | 0.003 | 0.00 | 0.000 | 0.00 | 0.000 | 0.003 | 0.000 | 0.036 | 0.003 | 0.062 | 0.005 | 0.003 | 0.000 | 0.009 | 0.001 | 0.026 | 0.002 | 11.219 | 0.841 | 0.000 | 0.000 |
| Out of County Commercial ¹² | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 95 | 318 | 346 | 270 | 49 | 28 | 1 | 2.120 | 1.489 | 2.23 | 1.566 | 0.024 | 0.017 | 0.00 | 0.000 | 0.00 | 0.000 | 0.029 | 0.020 | 0.036 | 0.025 | 0.027 | 0.019 | 0.009 | 0.006 | 0.009 | 0.006 | 0.026 | 0.019 | 0.188 | 0.132 | 0.010 | 0.007 |
| TOTALS | <u> </u> | 351 | | 1279 | 997 | 179.4886364 | 102 | | | 1.872 | | • | | 0.069 | | 0.166 | | 1.953 | | 0.028 | | 0.048 | | 0.160 | | 0.014 | | 0.012 | | 0.079 | | 1.827 | | 0.028 |
| Prorated by Mile | | | | | | | | | | 1.46E-03 | | 0.00E+00 | | 6.91E-05 | | 1.67E-04 | | 1.96E-03 | | 2.79E-05 | | 4.86E-05 | | 1.60E-04 | | 1.36E-05 | | 1.22E-05 | | 7.90E-05 | | 1.83E-03 | | 2.78E-0 |

JSRL DEIR Appendix B Attachment O7

Lawrence & Associates 1 of 4

| Table O7.4 - Emissions from Off-Road Vehicles for Construction Peak Day | Assur |
|---|-------|
| | |

ssuming 2025 Model Year or Better for PM2.5, CO, and SO2 Assuming Tier 4 final for all equipment over 200 hp

| | | Vehicl | le Properties | | | | | | | | | | | Air Quality | Emission Fac | tors and Calcu | lations | | | | |
|---------------------------------------|---|---|-----------------------|-----------------|------------|-------------------|--------------------------|--|-----------------------------------|--|--|---|--|--|--|--|--|---|-------|--|------|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/ Model/ Fuel ² | Model Year (motor) | HP ³ | Miles /Day | Tier ⁴ | Load Factor ⁵ | Peak Operating Hours per Day ⁶ | Days of Operation ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | Emissions NOx (lbs/day) ⁹ | Emissions Factor ROG (g/bhp-hr) ⁷ | Emissions ROG (lbs/day) ⁹ | Exhaust Emissions Factor PM10 (g/bhp-hr) ⁷ | Exhaust Emissions PM10 (lbs/day) ⁹ | Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Emissions PM2.5 (lbs/day) ⁹ | Emissions Factor CO (g/bhp-hr) ⁷ | | Emissions Factor SO ₂ (g/bhp-hr) ⁷ | |
| Dozer (not used for bulk exc.) | Crawler Tractors | Caterpillar D6T LGP | 2025 | 165 | 24 | 3 | 0.43 | 8 | 7 | 2.32 | 2.90 | 0.09 | 0.11 | 0.112 | 0.14 | 0.138 | 0.17 | 3.209 | 4.02 | 0.005 | 0.01 |
| Dozer | Crawler Tractors | Caterpillar D8T Diesel | 2025 | 310 | 24 | 4 (Final) | 0.43 | 8 | 7 | 0.26 | 0.61 | 0.05 | 0.12 | 0.009 | 0.02 | 0.074 | 0.17 | 1.717 | 4.04 | 0.005 | 0.01 |
| Dozer (Stockpile Area) | Crawler Tractors | Caterpillar D6R Diesel | 2025 | 140 | 12 | 3 | 0.43 | 4 | 7 | 2.32 | 1.23 | 0.09 | 0.05 | 0.112 | 0.06 | 0.138 | 0.07 | 3.209 | 1.70 | 0.005 | 0.00 |
| Grader (not used for bulk excav.) | Graders | Caterpillar 140G Diesel | 2025 | 150 | 0 | 3 | 0.41 | 0 | 7 | 2.32 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.140 | 0.00 | 3.418 | 0.00 | 0.005 | 0.00 |
| Loader (Stockpile Area for Screening) | Rubber Tired Loaders | Caterpillar 938M Diesel | 2025 | 190 | 56.8 | 3 | 0.36 | 8 | 7 | 2.32 | 2.80 | 0.09 | 0.11 | 0.088 | 0.11 | 0.045 | 0.05 | 1.142 | 1.38 | 0.005 | 0.01 |
| Pad-Foot Compactor | Rollers | Caterpillar 826C Diesel | 2025 | 341 | 27 | 4 (Final) | 0.38 | 9 | 7 | 0.26 | 0.67 | 0.05 | 0.13 | 0.009 | 0.02 | 0.083 | 0.21 | 1.968 | 5.06 | 0.005 | 0.01 |
| Smooth Drum Roller (NA) | Rollers | Caterpillar CS34 Diesel | 2025 | 74 | 0 | 3 | 0.38 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.125 | 0.00 | 3.444 | 0.00 | 0.005 | 0.00 |
| Backhoe (NA) | Tractors/Loaders/ Backhoes | Caterpillar 426C Diesel | 2025 | 88 | 0 | 3 | 0.37 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.112 | 0.00 | 0.079 | 0.00 | 3.522 | 0.00 | 0.005 | 0.00 |
| Excavator (2) | Excavators | John Deere 350 Diesel | 2025 | 271 | 0 | 4 (Final) | 0.38 | 18 | 7 | 0.26 | 1.06 | 0.05 | 0.20 | 0.009 | 0.04 | 0.024 | 0.10 | 1.051 | 4.29 | 0.005 | 0.02 |
| Screening Plant (Stockpile Area) | Other Construction Equipment | Spyder 514TS Diesel | 2025 | 74 | 0 | 3 | 0.42 | 9 | 7 | 2.74 | 1.69 | 0.09 | 0.06 | 0.192 | 0.12 | 0.187 | 0.12 | 3.584 | 2.21 | 0.005 | 0.00 |
| Extended Loader (for liner) | Tractors/Loaders/ Backhoes | JCB 20TC | 2025 | 74 | 0 | 3 | 0.37 | 0 | 7 | 2.74 | 0.00 | 0.09 | 0.00 | 0.192 | 0.00 | 0.079 | 0.00 | 3.522 | 0.00 | 0.005 | 0.00 |
| Off-Road Dump/haul truck (3) | Off-Highway Trucks | Caterpillar 740 diesel | 2025 | 453 | 191.7 | 4 (Final) | 0.38 | 27 | 7 | 0.26 | 2.66 | 0.05 | 0.51 | 0.009 | 0.09 | 0.035 | 0.36 | 1.182 | 12.11 | 0.005 | 0.05 |
| Totals | | | | | | | | | | | 13.63 | | 1.29 | | 0.60 | | 1.26 | <u> </u> | 34.81 | | 0.11 |

| Iotals | 13.63 |
Note: Increased time for this analysis
For a typical construction project, it is assumed that highest emissions takes place during the bulk excavation phase - assuming site-specific excavation equipment consisting primarily of two scrapers and a dozer as listed above as Tier 4. Additional equipment listed is support

Table O7.5 Off-Road Vehicles for Operations - Future - 2030

| Table O7.5 Off-Road Vehicles for Op | erations - Future - 2030 | | | | Assuming 2025 Mode | rear or Better i | or PM2.5, CO, an | | | | | | | | | | | | | | |
|-------------------------------------|---|--|-----------------------|-----------------|--------------------|-------------------|--------------------------|------------------------------------|-----------------------------------|--|--|---|--|---|----------------|--|--|--|-------|---|--|
| | | Vehicle Properties | | | | | | Operation | Properties | | | | | Emis | sion Factors a | nd Calculations | | | | | |
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/Model/ Fuel ² | Model Year (motor) | HP ³ | Miles Per Day | Tier ⁴ | Load Factor ⁵ | Peak Hours per Day ⁶ | Days of Operation ⁶ | Emissions Factor NOx (g/bhp-hr) ⁷ | Emissions NOx (lbs/day) ⁹ | Emissions Factor ROG (g/bhp-hr) ⁷ | Emissions ROG (lbs/day) ⁹ | Emissions Factor PM10 (g/bhp-hr) ⁷ | (lbe/day)9 | Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Emissions PM2.5 (lbs/day) ⁹ | Emissions Factor CO (g/bhp-hr) ¹¹ | | Emissions Factor SO ₂ (g/bhp-hr) ¹¹ | Emissions SO ₂ (lbs/day) ⁹ |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D6T LGP | 2025 | 255 | 10 | 4 (Final) | 0.43 | 8 | 7 | 0.260 | 0.50 | 0.050 | 0.10 | 0.009 | 0.02 | 0.074 | 0.14 | 1.717 | 3.32 | 0.005 | 0.01 |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D8T Diesel | 2025 | 310 | 10 | 4 (Final) | 0.43 | 8 | 7 | 0.260 | 0.61 | 0.050 | 0.12 | 0.009 | 0.02 | 0.074 | 0.17 | 1.717 | 4.04 | 0.005 | 0.01 |
| Dozer (Support) | Crawler Tractors | Caterpillar D6R Diesel | 2025 | 200 | 3 | 4 (Final) | 0.43 | 2 | 7 | 0.260 | 0.10 | 0.050 | 0.02 | 0.009 | 0.00 | 0.088 | 0.03 | 1.308 | 0.50 | 0.005 | 0.00 |
| Grader | Graders | Caterpillar 140G Diesel | 2025 | 150 | 6 | 4 (Final) | 0.41 | 2 | 7 | 7.600 | 2.06 | 0.620 | 0.17 | 0.274 | 0.07 | 0.140 | 0.04 | 3.418 | 0.93 | 0.005 | 0.00 |
| Loader | Rubber Tired Loaders | Caterpillar 938M Diesel | 2025 | 182 | 5 | 4 (Final) | 0.36 | 2 | 7 | 12.090 | 3.49 | 1.310 | 0.38 | 0.605 | 0.17 | 0.104 | 0.03 | 1.269 | 0.37 | 0.005 | 0.00 |
| Compactor | Rollers | Caterpillar 826K Diesel | 2025 | 426 | 9 | 4 (Final) | 0.38 | 8 | 7 | 0.260 | 0.74 | 0.050 | 0.14 | 0.009 | 0.03 | 0.083 | 0.24 | 1.968 | 5.62 | 0.005 | 0.01 |
| Compactor | Rollers | Caterpillar 826K Diesel | 2025 | 426 | 5 | 4 (Final) | 0.38 | 4 | 7 | 0.260 | 0.37 | 0.050 | 0.07 | 0.009 | 0.01 | 0.083 | 0.12 | 1.968 | 2.81 | 0.005 | 0.01 |
| Backhoe | Tractors/Loaders/Backhoes | Caterpillar 426C Diesel | 2025 | 81.8 | 0 | 4 (Final) | 0.37 | 2 | 7 | 0.260 | 0.03 | 0.050 | 0.01 | 0.009 | 0.00 | 0.079 | 0.01 | 3.522 | 0.47 | 0.005 | 0.00 |
| Excavator | Excavators | John Deere 350 Diesel | 2025 | 283 | 0 | 4 (Final) | 0.38 | 6 | 7 | 0.260 | 0.37 | 0.050 | 0.07 | 0.009 | 0.01 | 0.024 | 0.03 | 1.051 | 1.49 | 0.005 | 0.01 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2025 | 380 | 22 | 4 (Final) | 0.38 | 8 | 7 | 0.260 | 0.66 | 0.050 | 0.13 | 0.009 | 0.02 | 0.035 | 0.09 | 1.182 | 3.01 | 0.005 | 0.01 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2025 | 380 | 11 | 4 (Final) | 0.38 | 4 | 7 | 0.260 | 0.33 | 0.050 | 0.06 | 0.009 | 0.01 | 0.035 | 0.04 | 1.182 | 1.51 | 0.005 | 0.01 |
| Truck Tipper | Other Construction Equipment | Columbia | 2025 | 156 | NA | 4 (Final) | 0.42 | 8 | 7 | 0.260 | 0.30 | 0.050 | 0.06 | 0.009 | 0.01 | 0.103 | 0.12 | 3.136 | 3.62 | 0.005 | 0.01 |
| Street Sweeper | Other Construction Equipment | Elgin 2019 | 2025 | 74 | NA | 4 (Final) | 0.42 | 4 | 7 | 2.740 | 0.75 | 0.090 | 0.02 | 0.009 | 0.00 | 0.187 | 0.05 | 3.584 | 0.98 | 0.005 | 0.00 |
| Totals | | | | | | | | | | | 10.33 | | 1.35 | | 0.39 | | 1.12 | | 28.66 | | 0.08 |

Table 07.6 Fugitive Dust - Paved Operations and Construction Support

| | | PM ₁₀ Emissions Factor, | | Paved Road Const. PM ₁₀ Emissions lb | | Paved Road PM _{2.5} Emissions |
|------------------------------|-------------------------|------------------------------------|--------------------|---|----------------|---|
| Construction Activity | Road Distance Both Ways | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | lb per Day ³ |
| In County Public / Self Haul | 616 | 0.135 | 90% | 8.33 | 0.007 | 4.22 |
| In/County Commercial | 111 | 0.134 | 90% | 1.49 | 0.033 | 3.65 |
| Out of County Commercial | 270 | 0.178 | 90% | 4.79 | 0.044 | 11.76 |
| Operations/Support | 119 | 0.135 | 90% | 1.61 | 0.033 | 3.96 |
| Current & Proposed | | | | 16.22 | | 23.59 |

Table O7.7 Fugitive Dust - Graveled Operations & Construction

| Construction Activity | Road Distance Both Ways | PM ₁₀ Emissions Factor, | | Paved Road Const. PM ₁₀ Emissions lb per Day ³ | PM _{2.5} Emissions Factor, lb/VMT | Paved Road PM _{2.5} Emissions lb per Day ³ |
|---------------------------------|-------------------------|------------------------------------|-----|---|---|--|
| In County Public / Self Haul | 111 | 1.012 | 90% | 11.23 | 0.101 | 1.12 |
| In/County Commercial | 20 | 0.134 | 90% | 0.27 | 0.202 | 0.40 |
| Out of County Commercial | 49 | 2.290 | 90% | 11.12 | 0.229 | 1.11 |
| Construction/Operations Support | 21 | 2.030 | 90% | 4.36 | 0.203 | 0.44 |
| Totals | | | | 26.98 | | 3.07 |

Table O7.8 Fugitive Dust - Unpaved Operations

| - more o tro t agric t a anti- o apa | | | | | | |
|--------------------------------------|-------------------------|------------------------------------|--------------------|---------------------------------------|-----------------------------|-----------------------------|
| | | | | Paved Road Const. PM ₁₀ | | Paved Road |
| | | PM ₁₀ Emissions Factor, | | Emissions | PM _{2.5} Emissions | PM _{2.5} Emissions |
| Construction Activity | Road Distance Both Ways | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | per Day ³ |
| Construction Support | 12 | 2.030 | 90% | 2.49 | 0.262 | 0.32 |
| Daily Cover Haul Truck | 12 | 4.242 | 90% | 5.27 | 0.424 | 0.53 |
| Totals | | | | 7.76 | | 0.85 |

Table O7.9 Fugitive Dust - Unpaved Construction Haul

| | | | | Paved Road | | |
|-----------------------|-------------------------|------------------------------------|--------------------|-------------------------|-----------------------------|-----------------------------|
| | | | | Const. PM ₁₀ | | Paved Road |
| | | PM ₁₀ Emissions Factor, | | Emissions | PM _{2.5} Emissions | PM _{2.5} Emissions |
| Construction Activity | Road Distance Both Ways | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | per Day ³ |
| Soil Haul Truck | 199 | 4.242 | 95% | 42.28 | 0.424 | 4.23 |
| Totals | | | | 42.28 | | 4.23 |

Table O7.10 Fugitive Dust - Waste Filling Pad (Operations)

| | | | | Paved Road | | |
|---------------------------|-------|------------------------------------|--------------------|-------------------------|-----------------------------|-----------------------------|
| | | | | Const. PM ₁₀ | | Paved Road |
| | | PM ₁₀ Emissions Factor, | | Emissions lb | PM _{2.5} Emissions | PM _{2.5} Emissions |
| Construction Activity | VMT | lb/VMT | Control Efficiency | per Day ³ | Factor, lb/VMT | lb per Day ³ |
| Grader, Loader, Scraper | 11 | 1.543 | 90% | 1.69 | 0.227 | 0.25 |
| Compacting Waste & Dozers | Hr | lb/hr | | | lb/hr | |
| Compactor/Dozer | 12 | 0.753 | 90% | 0.93 | 0.414 | 0.51 |
| Unloading Daily Cover | Ton | lb/ton | | | lb/ton | |
| Daily Cover Unloading | 1,069 | 0.0002 | 25% | 0.19 | 0.000 | 0.03 |
| Totals | | | | 2.80 | | 0.79 |

JSRL DEIR Appendix B 2 of 4

Table O7.11 Fugitive Dust - Construction Area

| | | PM ₁₀ Emissions Factor, | | Paved Road Const. PM ₁₀ Emissions lb | PM _{2.5} Emissions | Paved Road PM _{2.5} Emissions |
|--------------------------|--------|------------------------------------|--------------------|---|-----------------------------|---|
| Construction Activity | VMT | lb/VMT | Control Efficiency | per Day | Factor, lb/VMT | per Day ³ |
| Loader, grader, scraper | 11 | 1.543 | 90% | 1.69 | 0.227 | 0.25 |
| Ripping/Compacting | Hr | lb/hr | | | lb/hr | |
| Dozer, Compactor, Grader | 12 | 0.753 | 90% | 0.90 | 0.414 | 0.50 |
| Loading | Tons | lb/ton | | | lb/ton | |
| Daily Cover Unloading | 10,020 | 0.0002 | 25% | 1.80 | 0.000 | 0.27 |
| Totals | | | | 4.39 | | 1.02 |

Table O7.12 Fugitive Dust - Stockpiling Area (including screening)

| | | | | Paved Road Const. PM ₁₀ Emissions | PM _{2.5} Emissions | Paved Road PM _{2.5} Emissions |
|-------------------------|--------|--------|--------------------|--|-----------------------------|---|
| Construction Activity | Hr | Lb/Hr | Control Efficiency | per Day ³ | Factor, lb/VMT | per Day ³ |
| Loader (to load screen) | 6 | 1.543 | 75% | 2.31 | 0.227 | 0.34 |
| Dozer, Compactor, | 6 | 1.543 | 75% | 2.31 | 0.414 | 0.62 |
| Loading | Tons | | | | | |
| Screening | 1,010 | 0.0002 | 25% | 0.18 | 0.000 | 0.03 |
| Unloading | 10,020 | 0.0002 | 25% | 1.80 | 0.000 | 0.27 |
| Totals | | | | 6.61 | | 1.26 |

- 1: Average trips from Table K1 x miles on paved or unpaved road
 2: Average trips from Table K2 x miles on paved or unpaved road
 3: Assuming (Ep truck x VMT truck) + (Ep car x VMT car)
 4: Assuming (Eup truck x VMT truck) + (Ep car x VMT car)
 5: Assumes regular watering during and/or dust suppressants during dry periods per AP-42 Section 13, Figure 13.2.2-2 Moisture Ratio of 4.25
 6: Assumes 10 delivery and employee trips per project at Proposed Project mileage
 7: Assumes 4,000 cyd/aw (25 cytrip = 160 trips and one mile round trip to sockepile
 8: Assuming (Eup Off-Road Dump x VMT truck) + (Eup Off-Road Car x VMT car)

Dust Emissions Factor Calculation

Paved Road Emission Factor Equation for On-Site Roads

Ep = [k(sL)^0.91 (W)^1.02]x (1-P/4N)

Equation (1) from USEPA, AP-42 Fifth Edition, 2011, Section 13.2.1

- Where:

 Ep = particulate matter factor (having units matching the units of K)

 k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.1-1

 sl. = road surface sit loading (g/m2)

 W = average weight (tons) of the vehicles traveling the road

 P = number of wet days with at least 0.01 inch or precipitation during the averaging period

 N = number of averaging days for period

| | | In-County | | |
|-------------|---------------------|------------------|----------------|----------------|
| When: | Out of County Units | Commercial Units | Self Haul | Operations |
| $k_{2.5} =$ | 0.00054 lb/VMT | 0.00054 lb/VMT | 0.00054 lb/VMT | 0.00054 lb/VMT |
| $k_{10} =$ | 0.0022 lb/VMT | 0.0022 lb/VMT | 0.0022 lb/VMT | 0.0022 lb/VMT |
| sL= | 4.25 g/m2 | 4.25 g/m2 | 4.25 g/m2 | 4.25 g/m2 |
| W = | 27.00 tons | 20.5 tons | 4.4 tons | 20.7 tons |
| On Site P = | 1 days | 1 days | 1 days | 1 days |
| On Site N = | 1 days | 1 days | 1 days | 1 days |
| Then: | | | | |
| Ep2.5 = | 0.044 lb/VMT | 0.033 lb/VMT | 0.007 lb/VMT | 0.033 lb/VMT |
| Ep10 = | 0.178 lb/VMT | 0.134 lb/VMT | 0.028 lb/VMT | 0.135 lb/VMT |

Gravel Road Emission Factor

 $E = k * (s/12)^a * (W/3)^b$

Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2

- Where:

 Eup = size-specific emission factor (lb/VMT) for unpaved surface
 k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2
 s = surface material silt content (%)
 W = mean vehicle weight (tons)
 a = industrial road constant from AP-42, Table 13.2.2-2
 b = industrial road constant from AP-42, Table 13.2.2-2

| | | In-County | | | |
|--------------|---------------------|------------------|--------------|--------------|--|
| When: | Out of County Units | Commercial Units | Self Haul | Operations | |
| $k_{2.5} =$ | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT | 0.15 lb/VMT | |
| $k_{10} =$ | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT | 1.5 lb/VMT | |
| $_{S} =$ | 6.4 % | 6.4 % | 6.4 % | 6.4 % | |
| W = | 27.0 tons | 20.5 tons | 4.4 tons | 20.7 tons | |
| a = | 0.9 | 0.9 | 0.9 | 0.9 | |
| b = | 0.45 | 0.45 | 0.45 | 0.45 | |
| Then: | | | | | |
| Eup2.5 = | 0.229 lb/VMT | 0.202 lb/VMT | 0.101 lb/VMT | 0.203 lb/VMT | |
| $E_{UP}10 =$ | 2.290 lb/VMT | 2.023 lb/VMT | 1.012 lb/VMT | 2.030 lb/VMT | |

Unpaved Road Emission Factor

JSRL DEIR Appendix B

 $E = k * (s/12)^a * (W/3)^b$

Equation (1a) from USEPA, AP-42 Fifth Edition, 2006, Section 13.2.2

- Equation (1a) from USLIFA, A. INCLINE
 Where:

 Eup = size-specific emission factor (Ib/VMT) for unpaved surface

 k = particle size multiplier for particle size range and units of interest from AP-42 Table 13.2.2-2

 s = surface material silt content (%)

 W = mean vehicle weight (tons)

 a = industrial road constant from AP-42, Table 13.2.2-2

 b = industrial road constant from AP-42, Table 13.2.2-2

 Onerations Units

| $k_{2.5} =$ | 0.15 lb/VMT | 0.15 lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
|------------------|--------------|--------------|--|
| $k_{10} =$ | 1.5 lb/VMT | 1.5 lb/VMT | Per AP-42 Table 13.2.2-2 for industrial roads |
| $_{\mathbf{S}}=$ | 8.5 % | 8.5 % | Per AP-42 Table 13.2.2-1 for landfills, mean for |
| W = | 60.3 tons | 20.7 tons | Table Q13 |
| a = | 0.9 | 0.9 | Per AP-42 Table 13.2.2-2 for industrial roads |
| b = | 0.45 | 0.45 | Per AP-42 Table 13.2.2-2 for industrial roads |
| Then: | | | |
| Eup2.5 = | 0.424 lb/VMT | 0.262 lb/VMT | |
| $E_{rm}10 =$ | 4.242 lb/VMT | 2.621 lb/VMT | |

Source AP-42 Table 13.2.1-1

Source
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-1 for landfills, mean of graveled roads
Table 02
Per AP-42 Table 13.2.2-2 for industrial roads
Per AP-42 Table 13.2.2-2 for industrial roads

AP-42 Table 13.2.1-1
AP-42 Table 13.2.1-5
Assume surface low range of See Table Q12 below
Assume watered surface equalt to 0.1 in/day
days
Assume watered surface

Assume surface low range of 1.1 on onbound leg and mean of 7.4 on outbound leg from 13.2.1.-3, average of:

4.25

Attachment O7 3 of 4 Lawrence & Associates

Table O7.13 Vehicle Weight Assumptions (assumes full load in and empty out)

| Category | Type | Percent | GVW, lb | NVW, lb | Average, lb | Av Tons |
|--|------------------------|---------|---------|---------|------------------|---------|
| Small Vehicle (Public /Self Haul) | Ford F250 Gross Weight | NA | 9,900 | 7,700 | 8,800 | 4.4 |
| In County Commercial | Garbage Truck | NA | 51,000 | 31,000 | 41,000 | 20.5 |
| Out of County Commercial | Waste Transfer Truck | NA | 75,000 | 33,000 | 54,000 | 27.0 |
| Support Vehicles For Construction | | | | | | |
| Average of: | Miles | | | | | |
| Ford Mechanic Truck (DSL) | 2 | 5% | 14,000 | 8,600 | 11,300 | 5.7 |
| Ford F450 Flat Bed (DSL) | 1 | 2% | 14,000 | 8,600 | 11,300 | 5.7 |
| Water Truck (DSL), 4,000 gal | 32 | 76% | 63,000 | 29500 | 46,250 | 23.1 |
| Support Light Heavy Duty Trucks (2, DSL) | 4 | 10% | 14,000 | 8,600 | 11,300 | 5.7 |
| Tractor Trailer Delivery (DSL) | 1 | 2% | 75,000 | 33,000 | 54,000 | 37.5 |
| Carpool Vehicles (2, Gas) | 2 | 5% | 51,000 | 31,000 | 41,000 | 25.5 |
| Total | 42 | | | | Weighted Average | 20.7 |
| Off Road Dump | CAT 740 | NA | 162,399 | 78,632 | 120,516 | 60.3 |

GVW: Gross vehicle weight including load NVWL Net vehicle weight or :"curb weight" without load

US. EPA, Fifth Edition AP-42, Section 13.2.

Grading Equipment Passes Use for graders, loaders, rubber tired dozers, and scrapers to scrape or push soil

$$EF_{PM15}=0.051~x~(S)^{2.0},$$
 and $EF_{PM10}=EF_{PM15}~x~F_{PM10},$ Used for PM_{10}

EF_{TSP} - 0.4 x (S)
$$^{2.5}$$
, and EF _{PM2.5} = EF_{TSP} x F_{PM2.5}, Used for PM_{2.5}

Source: CalEEMod 2020.4.0, Appendix A Page 8

 $\begin{aligned} &Where:\\ &EF=\ emissions\ factor\ (lb/VMT)\\ &S=\ mean\ vehicle\ speed\ (mph)\\ &F_{PM2.5}=PM_{2.5}\ scaling\ factor.\\ &F_{PM10}=PM_{10}\ scaling\ factor. \end{aligned}$ Typical grading areas Acres per day
Crawler Tractors (Dozer) 0.5
Graders 0.5 AP-42 Default = 7.1 AP-42 Default = 0.03 0.6 Rubber -Tired Dozers AP-42 Default = 0.5

1.543 lb/VMT 0.227 lb/VMT

Bulldozers Passes Use for compactors & tracked dozers

$$EF_{PM15} = (C_{PM15}\,x\,\,s^{1.5})\,/\,M^{1.4}\,$$
 , and $EF_{\,PM10} = EF_{PM15}\,x\,\,F_{PM10};\,$ used for PM_{10}

EF_TSP - (C_TSP x s^{1.2})/ M^{1.3} , and EF
$$_{PM2.5}$$
 = EF_TSP x $F_{PM2.5};\;$ used for PM $_{2.5}$

CalEEMod 2020.4.0, Appendix A Page 9

Where:

EF = emissions factor (lb/hr)

C = Coefficient used by AP-42

s = Material silt content (%)

M = Material moisture content (%) $\begin{array}{lll} \textbf{Per AP-42 defaults for Overburden} \\ C_{TSP} = 5.7 & C_{PMI5} = 1 \\ s = 6.90 & AP-42 & Baseline \\ M = 7.90 & AP-42 & Baseline \\ F_{PM2.5} = 0.105 & F_{PM10} = 0.75 \end{array}$ AP-42 default is 0.031

$$\begin{split} F_{PM2.5} &= PM_{2.5} \text{ scaling factor.} \\ F_{PM10} &= PM_{10} \text{ scaling factor.} \end{split}$$
AP-42 default is 0.6

 $EF_{PM10} =$ $EF_{PM2.5} =$ 0.753 lb/hr x hr/day 0.414 lb/hr x hr/day

Truck Loading

 $EF_D = k \times (0.0032) \times ((U/5)^{1.3} / (M/2)^{1.4})$

From CalEEMod Appendix A and AP-42 Section 13.2.4

Where:

EF = emissions factor (lb/ton)

k = Particle size multiplier

Per AP-42 defaults for Overburden

 $PM_{10} = 0.35$ $PM_{2.5} = 0.053$ U = mean wind speed (mph) M = Material moisture content M = 7.90 AP42 Table 13.2.4-1 clay/dirt mix

6.7 mph based on site specific wind data; Mode 30 CY loose, 1.3 CY loose/ CY banked 1.6875 Vey, in place 12 6.000 cy/day 10.125 Vday 500 cy/day 843.75 t/day

Assume: U = Load size = Fluff factor = Banked density = Production = Production =

Screening Production = Screening Production =

2.3945E-04 lb/ton x production = 3.6260E-05 lb/ton x production = EF_{PM2.5} =

While there is no specific screen associated with asphalt paving emissions, CalEEMod estimates VOC off-gassing emissions associated with asphalt paving of parking lots using the following equation: Source CalEEMod Users Manual, 2020, Page 18

 $E_{AP} = EF_{AP} \times A_{Parking}$

Where: E = emissions (lb)

EF = emission factor (lb/acre). The SMAQMD default emission factor is 2.62 lb/acre.16

A = area of the parking lot (acre)

9.17 lb. VOC /acre 3.5 Acres
$$\begin{split} E_{AP} = \\ Acres of New Pavement \\ Das of Construction = \\ E_{AP}d = \end{split}$$
4.585 lb. VOC /day

JSRL DEIR Appendix B Attachment O7 4 of 4 Lawrence & Associates

John Smith Road Landfill - DEIR Cancer Risk, Chronic Hazards and Acute Hazard Risks Table P-1

1 Summary (Sum of Flare TACs + Fugitive TACs + DPM from Landfill + DPM from JSR)

| Exposure Characterization | Cancer Risk | Cancer Risk per Million | Chronic Hazard Index | Acute Hazard Risk | Receptor ID | Year ^A |
|----------------------------|-------------|----------------------------|-------------------------|-------------------|-------------|--|
| PMI | 1.49E-05 | 14.88 | 3.27E-02 | 7.53E-05 | P40 | 20188/202023,3,7 |
| MEIR | 3.59E-06 | 3.59 | 7.91E-03 | 1.99E-05 | RP_H31 | $2018^8/2019^2/2020^{3,7}$ |
| MEIW | 2.20E-07 | 0.22 | 7.86E-03 | 1.51E-05 | CR_WP_2 | $2018^8/2019^2/2020^{3,7}$ |
| School 1 | 2.70E-07 | 0.27 | 8.96E-04 | 4.28E-06 | CR_SC_13 | $2018^{2,3,7}/2020^8$ |
| School 2 | 1.94E-07 | 0.19 | 5.05E-04 | 3.41E-06 | CR_SC_14 | $2018^{3,7}/2020^{2,8}$ |
| Nearest Potential Receptor | 7.44E-06 | 7.44 | 1.64E-02 | 5.69E-05 | G68 | 2018 ^{2,8} /2020 ^{3,7} |

Note: A. Superscripts on year column correspond to the table number, as listed below for the corresponding cancer risk source peak year.

2 Summary - Landfill Flare Emissions at 2,400 CFM

| Exposure Characterization | Cancer Risk | Cancer Risk per Million | Chronic Hazard Index | Acute Hazard Risk | Receptor ID | Year |
|----------------------------|-------------|----------------------------|-------------------------|-------------------|-------------|------|
| PMI | 6.52E-09 | 0.01 | 2.08E-05 | 4.96E-08 | P40 | 2020 |
| MEIR | 6.60E-09 | 0.01 | 2.10E-05 | 5.02E-08 | RP_H31 | 2019 |
| MEIW | 2.01E-10 | 0.00 | 2.10E-05 | 2.18E-08 | CR_WP_2 | 2019 |
| School 1 | 2.17E-09 | 0.00 | 6.92E-06 | 1.75E-08 | CR_SC_13 | 2018 |
| School 2 | 4.30E-10 | 0.00 | 1.37E-06 | 4.68E-09 | CR_SC_14 | 2020 |
| Nearest Potential Receptor | 1.50E-08 | 0.01 | 4.78E-05 | 1.14E-07 | G68 | 2018 |

3 Summary - Landfill Fugitive Emissions at 160 CFM

| Exposure Characterization | Cancer Risk | Cancer Risk per Million | Chronic Hazard Index | Acute Hazard Risk | Receptor ID | Year |
|----------------------------|-------------|----------------------------|-------------------------|-------------------|-------------|------|
| PMI | 9.89E-06 | 9.89 | 3.15E-02 | 7.52E-05 | P40 | 2020 |
| MEIR | 2.38E-06 | 2.38 | 7.60E-03 | 1.99E-05 | RP_H31 | 2020 |
| MEIW | 1.46E-07 | 0.15 | 7.60E-03 | 1.51E-05 | CR_WP_2 | 2020 |
| School 1 | 1.93E-07 | 0.19 | 8.54E-04 | 4.27E-06 | CR_SC_13 | 2018 |
| School 2 | 1.52E-07 | 0.15 | 4.84E-04 | 3.41E-06 | CR_SC_14 | 2018 |
| Nearest Potential Receptor | 4.94E-06 | 4.94 | 1.57E-02 | 3.75E-05 | G68 | 2020 |

4 Summary (Sum of Landfill Gas from Flare at 2,400 CFM + Fugitive Emissions at 160 CFM)

| Exposure Characterization | Cancer Risk | Cancer Risk per Million | Chronic Hazard Index | Acute Hazard Risk | Receptor ID | Year ^A |
|----------------------------|-------------|----------------------------|-------------------------|-------------------|-------------|--------------------------------------|
| PMI | 9.90E-06 | 9.90 | 3.15E-02 | 7.53E-05 | P40 | $2020^{2,3}$ |
| MEIR | 2.39E-06 | 2.39 | 7.62E-03 | 1.99E-05 | RP_H31 | $2019^2/2020^3$ |
| MEIW | 1.46E-07 | 0.15 | 7.62E-03 | 1.51E-05 | CR_WP_2 | $2019^2/2020^3$ |
| School 1 | 1.95E-07 | 0.20 | 8.61E-04 | 4.28E-06 | CR_SC_13 | 2018 ^{2,3} |
| School 2 | 1.52E-07 | 0.15 | 4.85E-04 | 3.41E-06 | CR_SC_14 | $2018^3/2020^2$ |
| Nearest Potential Receptor | 4.95E-06 | 4.95 | 1.58E-02 | 3.77E-05 | G68 | 2018 ² /2020 ³ |

Note: A. Superscripts on year column correspond to the table number, as listed above for the corresponding cancer risk source peak year.

5 Nearest Potential Receptor - Landfill Fugitive Emissions at 242 CFM

| Exposure Characterization | Cancer Risk | Cancer Risk per Million | Chronic Hazard Index | Acute Hazard Risk | Receptor ID | Year |
|----------------------------|-------------|----------------------------|-------------------------|-------------------|-------------|------|
| Nearest Potential Receptor | 7.47E-06 | 7.47 | 2.38E-02 | 5.68E-05 | G68 | 2020 |

John Smith Road Landfill - DEIR Cancer Risk, Chronic Hazards and Acute Hazard Risks Table P-1

6 Summary (Sum of DPM from Landfill + DPM from JSR)

| Exposure Characterization | Cancer Risk | Cancer Risk per Million | Chronic Hazard Index | Acute Hazard Risk | Receptor ID | Year ^A |
|----------------------------|-------------|----------------------------|-------------------------|-------------------|-------------|--------------------------------------|
| PMI | 4.98E-06 | 4.98 | 1.18E-03 | NA | P40 | 2018 ⁸ /2020 ⁷ |
| MEIR | 1.20E-06 | 1.20 | 2.85E-04 | NA | RP_H31 | 2018 ⁸ /2020 ⁷ |
| MEIW | 7.45E-08 | 0.07 | 2.40E-04 | NA | CR_WP_2 | 2018 ⁸ /2020 ⁷ |
| School 1 | 7.47E-08 | 0.07 | 3.49E-05 | NA | CR_SC_13 | $2018^7/2020^8$ |
| School 2 | 4.18E-08 | 0.04 | 1.95E-05 | NA | CR_SC_14 | 2018 ⁷ /2020 ⁸ |
| Nearest Potential Receptor | 2.49E-06 | 2.49 | 5.90E-04 | NA | G68 | 2018 ⁸ /2020 ⁷ |

Note: A. Superscripts on year column correspond to the table number, as listed below for the corresponding cancer risk source peak year.

7 Cancer Risk DPM from Landfill

| Exposure Characterization | Cancer Risk | Cancer Risk per Million | Chronic Hazard Index | Acute Hazard Risk | Receptor ID | Year |
|----------------------------|-------------|----------------------------|-------------------------|-------------------|-------------|------|
| PMI | 4.98E-06 | 4.98 | 1.18E-03 | NA | P40 | 2020 |
| MEIR | 1.20E-06 | 1.20 | 2.85E-04 | NA | RP_H31 | 2020 |
| MEIW | 7.34E-08 | 0.07 | 2.39E-04 | NA | CR_WP_2 | 2020 |
| School 1 | 6.86E-08 | 0.07 | 3.20E-05 | NA | CR_SC_13 | 2018 |
| School 2 | 3.88E-08 | 0.04 | 1.81E-05 | NA | CR_SC_14 | 2018 |
| Nearest Potential Receptor | 2.49E-06 | 2.49 | 5.89E-04 | NA | G68 | 2020 |

8 Cancer Risk DPM from John Smith Road

| Exposure Characterization | Cancer Risk | Cancer Risk per Million | Chronic Hazard Index | Acute Hazard Risk | Receptor ID | Year |
|----------------------------|-------------|----------------------------|-------------------------|-------------------|-------------|------|
| PMI | 2.08E-09 | 0.002 | 4.94E-07 | NA | P40 | 2018 |
| MEIR | 1.38E-09 | 0.001 | 3.28E-07 | NA | RP_H31 | 2018 |
| MEIW | 1.05E-09 | 0.001 | 6.59E-07 | NA | CR_WP_2 | 2018 |
| School 1 | 6.13E-09 | 0.006 | 2.86E-06 | NA | CR_SC_13 | 2020 |
| School 2 | 2.92E-09 | 0.003 | 1.36E-06 | NA | CR_SC_14 | 2020 |
| Nearest Potential Receptor | 1.48E-09 | 0.001 | 3.51E-07 | NA | G68 | 2018 |

John Smith Road Landfill - DEIR Table P-2A

Summary - Landfill Flare Emissions at 2,400 CFM

| Exposure Characterization | Cancer Risk | Cancer Risk per Million | Chronic Hazard Index | Acute Hazard Risk | Receptor ID | Year |
|---------------------------|-------------|----------------------------|-------------------------|-------------------|-------------|------|
| PMI | 6.52E-09 | 0.01 | 2.08E-05 | 4.96E-08 | P40 | 2020 |
| MEIR | 6.60E-09 | 0.01 | 2.10E-05 | 5.02E-08 | RP_H31 | 2019 |
| MEIW | 2.01E-10 | 0.00 | 2.10E-05 | 2.18E-08 | CR_WP_2 | 2019 |
| School 1 | 2.17E-09 | 0.00 | 6.92E-06 | 1.75E-08 | CR_SC_13 | 2018 |
| School 2 | 4.30E-10 | 0.00 | 1.37E-06 | 4.68E-09 | CR_SC_14 | 2020 |

John Smith Road Landfill - DEIR Table P-2B

Concentration Summary for Peak Flare Concentration

| Peak Yearly Peak (| Concentration for R | eceptors | | | 2018 | 8 Highest Rece | ptors | | | 201 | 9 Highest Rece | ptors | | | 202 | 0 Highest Rece | ptors | |
|--------------------|---------------------------------------|---------------------------------------|---------------------------------------|-------------------|--|--------------------|---------------------|------------|-------------|----------------|--------------------|---------------------|----------|-------------|----------------|--------------------|---------------------|----------|
| Receptor | 2018 Peak Concentration (μg/m³) | 2019 Peak Concentration (μg/m³) | 2020 Peak Concentration (μg/m³) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) |
| PMI MEIR | 0.03106 0.00265 | 0.03425 0.00639 | 0.03811 0.00374 | P46 RP_H31 | Boundary Perimeter 46 House 31 | 648659 | 4076384 4077241 | 208 206 | * RP_H1 | * House 1 | * 648659 | * 4077241 | * 206 | * | * House 1 | * 648659 | * 4077241 | * 206 |
| MEIW School 1 | 0.00061 | 0.00109 | 0.0007 0.00064 | CR_WP_1 CR SC 13 | Workplace Rancho Santana School | 650902 646059 | 4076062 | 215 | CR_WP_1 * | Workplace * | 650902 * | 4076062 * | 215 | CR_WP_1 * | Workplace * | 650902 * | 4076062 * | 215 |
| School 2 | 0.00016 | 0.00015 | 0.00017 | | Future School | | 4075575 | 158 | * | * | * | * | * | * | * | * | * | * |

Peak deposition obtained from AERMOD.

Matching High Concentrations to Peak Fugitive Emission Receptors:

| | | | Concentration |
|----------|-------------|------|---------------|
| Receptor | Receptor ID | Year | $(\mu g/m^3)$ |
| PMI | P40 | 2020 | 0.00258 |
| MEIR | RP H31 | 2020 | 0.00261 |

^{*} Same as 2018

John Smith Road Landfill - DEIR Table P-2B_G68

Concentration Summary for Peak Flare Concentration

| Peak Yearly Peak C | oncentration for R | eceptors | | | 2018 | 8 Highest Recep | otors | | | 2019 | Highest Recep | otors | | | 2020 |) Highest Rece | otors | |
|--------------------|--------------------|---------------|---------------|-------------|---------------|-----------------|--------------|----------|-------------|-------------|---------------|--------------|----------|-------------|-------------|----------------|--------------|----------|
| | 2018 Peak | 2019 Peak | 2020 Peak | | | | | | | | | | | | | | | |
| | Concentration | Concentration | Concentration | | | UTM | UTM | | | | UTM | UTM | | | | UTM | UTM | |
| Receptor | $(\mu g/m^3)$ | $(\mu g/m^3)$ | $(\mu g/m^3)$ | Receptor ID | Description | Easting (m) | Northing (m) | Elev (m) | Receptor ID | Description | Easting (m) | Northing (m) | Elev (m) | Receptor ID | Description | Easting (m) | Northing (m) | Elev (m) |
| Potential Nearest | | | | | Grid Receptor | | | | | | | | | | | | | |
| Receptor | 0.00593 | 0.00568 | 0.0053 | G68 | 68 | 650144 | 4076373 | 231 | * | * | * | * | * | * | * | * | * | * |

Peak deposition obtained from AERMOD.

* Same as 2018

John Smith Road Landfill - DEIR

Table P-2C

Calculating Maximum Individual Cancer Risk from Peak Landfill Flare TACs (MICRr)

 $MICR^{[1]} = SUM [CP * Q_{tpv} * \chi/Q * CEF * MP * MWAF * 10^{-6}] =$

Where:

MICR: Maximum Individual Cancer Risk per million

CP: Cancer Potency in (mg/kg day)⁻¹

Qtpy: Emissions Rate in tons per year (tpy)

 χ /Q: Dispersion factor in $(\mu g/m^3)$ /(tpy) calculated using AERMOD for receptor of interest, where Q = 1 ton/yr

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

CEF: Combined Exposure Factor, residential or worker (L/Kg-day)

MPr: Multipathway Adjustment Factor (dimensionless)

10⁻⁶: Micrograms to milligrams conversion and liters to cubic meters conversion.

| John Smith Road Landfill Individual Cancer Risk Residential = | PMI 6.52E-09 | MEIR 6.60E-09 | MEIW 2.01E-10 | School 1 2.17E-09 | School 2 4.30E-10 | |
|--|-----------------|--------------------------|------------------|----------------------|----------------------|----------------------------|
| Factors: Dispersion Factor $(\chi/Q)^{[2]} =$ | PMI 0.00258 | MEIR | MEIW | School 1 | School 2 | (|
| _ | | 0.00261 | 0.00109 | 0.00086 | 0.00017 | (μg/m ³)/(tpy) |
| $ \begin{array}{c} \operatorname{CEFr}^{[3]} = \\ \operatorname{CEFw}^{[3]} = \\ \end{array} $ | 766.78 55.86 | (L/kg-day) (L/kg-day) | | | | |

| CAS No. | Volatile Carcinogenic Compounds ^[A] | MWAF ^[4] = | Q _{tpy} ^[B] | CP (mg/kg day) ⁻¹ [5] | MPr ^[6] | PMI MICR per million | MEIR MICR per million | MEIW MICR per million | School 1 MICR per million | School 2 MICR per million |
|----------|--|-----------------------|---------------------------------|-------------------------------------|--------------------|----------------------------|-----------------------------|-----------------------------|---------------------------------|---------------------------------|
| 79-34-5 | 1, 1, 2, 2-Tetrachloroethane | 1 | - | 2.00E-01 | 1 | - | - | - | - | - |
| 75-34-3 | 1,1-Dichloroethane (ethylidene dichloride) | 1 | - | 5.70E-03 | 1 | - | - | - | - | - |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 1 | - | 1.00E+00 | 1 | - | - | - | - | - |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 1 | 1.48E-03 | 7.20E-02 | 1 | 2.11E-10 | 2.14E-10 | 6.51E-12 | 7.05E-11 | 1.39E-11 |
| 78-87-5 | 1,2-Dichloropropane (propylene dichloride) | 1 | 8.51E-05 | 1.00E+00 | 1 | 1.68E-10 | 1.70E-10 | 5.18E-12 | 5.61E-11 | 1.11E-11 |
| 107-13-1 | Acrylonitrile | 1 | - | 1.00E+00 | 1 | - | - | - | - | - |
| 71-43-2 | Benzene | 1 | 4.39E-03 | 1.00E-01 | 1 | 8.68E-10 | 8.78E-10 | 2.67E-11 | 2.89E-10 | 5.72E-11 |
| 56-23-5 | Carbon tetrachloride | 1 | - | 1.50E-01 | 1 | - | - | - | - | - |
| 75-00-3 | Chlorodifluoromethane | 1 | 2.25E-03 | 1.00E+00 | 1 | 4.46E-09 | 4.51E-09 | 1.37E-10 | 1.49E-09 | 2.94E-10 |
| 67-66-3 | Chloroform | 1 | - | 1.90E-02 | 1 | - | - | - | - | - |
| 106-46-7 | Dichlorobenzene (1, 4-dichlorobenzene) | 1 | 2.10E-03 | 4.00E-02 | 1 | 1.66E-10 | 1.68E-10 | 5.11E-12 | 5.54E-11 | 1.09E-11 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 1 | 5.54E-04 | 3.50E-03 | 1 | 3.83E-12 | 3.88E-12 | 1.18E-13 | 1.28E-12 | 2.53E-13 |
| 100-41-4 | Ethylbenzene | 1 | 1.95E-02 | 8.70E-03 | 1 | 3.36E-10 | 3.40E-10 | 1.03E-11 | 1.12E-10 | 2.21E-11 |
| 106-93-4 | Ethylene dibromide (1, 2-dibromoethane) | 1 | 2.83E-04 | 2.50E-01 | 1 | 1.40E-10 | 1.42E-10 | 4.31E-12 | 4.67E-11 | 9.23E-12 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 1 | 1.88E-03 | 2.10E-02 | 1 | 7.81E-11 | 7.90E-11 | 2.40E-12 | 2.60E-11 | 5.15E-12 |
| 79-01-6 | Trichloroethylene (trichloroethane) | 1 | 7.28E-04 | 7.00E-03 | 1 | 1.01E-11 | 1.02E-11 | 3.10E-13 | 3.36E-12 | 6.64E-13 |
| 75-01-4 | Vinyl chloride | 1 | 1.44E-04 | 2.70E-01 | 1 | 7.69E-11 | 7.78E-11 | 2.37E-12 | 2.56E-11 | 5.07E-12 |
| | | | | | Total | 6.52E-09 | 6.60E-09 | 2.01E-10 | 2.17E-09 | 4.30E-10 |

Highlighted cells indicates assumed values of 1, where no data was available.

^[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating MICR, Page 12.

^[2] Obtained from AERMOD. Dispersion Factor calculated for annual concentration at residential receptor for location at: PMI at P46 for 2020, MEIR at RP_H1 for 2019, MIEW CR_WP_2 for 2019, School 1 at CR_SC_13 for 2018, and School 2 at CR_SC_14 for 2020. See Table P-2B.

^[3] from SCAQMD Permit Application Package N, Version 8.1 page 14. "Combined Exposure Factor" for 70 years, Table 4.1E

^[4] https://www2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Molecular Weight Adjustment Factor."

^[5] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB A pproved Risk Assessment Health Values, "Cancer Potency Factor."

^[6] SCAQMD Permit Application Package N, Version 8.1 Package N, Page 10. "Multipath way Adjustment" factors - Cancer, Table 3.1. Assumes inhalation pathway only.

[[]A] Volatile Carcinogenic Compounds derived from Title III Clean Air Act Amendments, 1990, and including compounds found in LFG, as determined by AP 42 Table 2.4-1 "Default Concentrations for Landfill Gas Constituents" and cross-referenced with California Proposition 65.

John Smith Road Landfill - DEIR

Table P-2C G68

Calculating Maximum Individual Cancer Risk from Peak Landfill Flare TACs (MICRr)

$$MICR^{[1]} = SUM [CP * Q_{tpv} * \chi/Q * CEF * MP * MWAF * 10^{-6}] =$$

Where:

MICR: Maximum Individual Cancer Risk per million

CP: Cancer Potency in (mg/kg day)

Qtpy: Emissions Rate in tons per year (tpy)

 χ /Q: Dispersion factor in $(\mu g/m^3)$ /(tpy) calculated using AERMOD for receptor of interest, where Q = 1 ton/yr

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

CEF: Combined Exposure Factor, residential or worker (L/Kg-day)

MPr: Multipathway Adjustment Factor (dimensionless)

 $10^{\text{-6}}$: Micrograms to milligrams conversion and liters to cubic meters conversion.

Potential Nearest Receptor 1.50E-08 John Smith Road Landfill Individual Cancer Risk Residential = **PMI** Factors: Dispersion Factor $(\chi/Q)^{[2]} =$ 0.00593 $(\mu g/m^3)/(tpy)$ CEFr^[3] (L/kg-day) CEFw^[3] 55.86

(L/kg-day)

| CAS No. | Volatile Carcinogenic Compounds ^[A] | MWAF ^[4] = | Q _{tpy} ^[B] | CP (mg/kg day) ^{-1 [5]} | MPr ^[6] | PMI MICR per million |
|----------|--|-----------------------|---------------------------------|-------------------------------------|--------------------|----------------------------|
| 79-34-5 | 1, 1, 2, 2-Tetrachloroethane | 1 | - | 2.00E-01 | 1 | - |
| 75-34-3 | 1,1-Dichloroethane (ethylidene dichloride) | 1 | - | 5.70E-03 | 1 | - |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 1 | - | 1.00E+00 | 1 | - |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 1 | 1.48E-03 | 7.20E-02 | 1 | 4.86E-10 |
| 78-87-5 | 1,2-Dichloropropane (propylene dichloride) | 1 | 8.51E-05 | 1.00E+00 | 1 | 3.87E-10 |
| 107-13-1 | Acrylonitrile | 1 | - | 1.00E+00 | 1 | - |
| 71-43-2 | Benzene | 1 | 4.39E-03 | 1.00E-01 | 1 | 2.00E-09 |
| 56-23-5 | Carbon tetrachloride | 1 | - | 1.50E-01 | 1 | - |
| 75-00-3 | Chlorodifluoromethane | 1 | 2.25E-03 | 1.00E+00 | 1 | 1.03E-08 |
| 67-66-3 | Chloroform | 1 | - | 1.90E-02 | 1 | - |
| 106-46-7 | Dichlorobenzene (1, 4-dichlorobenzene) | 1 | 2.10E-03 | 4.00E-02 | 1 | 3.82E-10 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 1 | 5.54E-04 | 3.50E-03 | 1 | 8.81E-12 |
| 100-41-4 | Ethylbenzene | 1 | 1.95E-02 | 8.70E-03 | 1 | 7.73E-10 |
| 106-93-4 | Ethylene dibromide (1, 2-dibromoethane) | 1 | 2.83E-04 | 2.50E-01 | 1 | 3.22E-10 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 1 | 1.88E-03 | 2.10E-02 | 1 | 1.79E-10 |
| 79-01-6 | Trichloroethylene (trichloroethane) | 1 | 7.28E-04 | 7.00E-03 | 1 | 2.32E-11 |
| 75-01-4 | Vinyl chloride | 1 | 1.44E-04 | 2.70E-01 | 1 | 1.77E-10 |
| | | | | | Total | 1.50E-08 |

Highlighted cells indicates assumed values of 1, where no data was available.

[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment.

Instructions for Calculating MICR, Page 12.

[2] Obtained from AERMOD. Dispersion Factor calculated for annual concentration at residential receptor for location at: PMI at P46 for 2020, MEIR at RP_H1 for 2019, MIEW CR_WP_2

for 2019, School 1 at CR SC 13 for 2018,

and School 2 at CR SC 14 for 2020. See Table P-2B.

[3] from SCAQMD Permit Application Package N, Version 8.1 page 14. "Combined Exposure Factor" for 70 years, Table 4.1E.

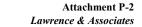
4 https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Molecular Weight Adjustment Factor."

[5] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Cancer Potency Factor." [6] SCAQMD Permit Application Package N, Version 8.1 Package N, Page 10. "Multipath way Adjustment" factors - Cancer, Table 3.1. Assumes inhalation

pathway only.

[A] Volatile Carcinogenic Compounds derived from Title III Clean Air Act Amendments, 1990, and including compounds found in LFG, as determined by AP

John Smith Road Landfill Page 1 of 1 **DEIR - Appendix B**



$\ \, \textbf{John Smith Road Landfill - DEIR} \\$

Table P-2D

Chronic Hazard Index from Peak Landfill Flare TAC (HIC)

 $HIC^{[1]} = ENDPOINT SUM (Q_{tpy} * \chi/Q * MWAF * MP * (1/REL)) =$

HIC: Hazard Index - Chronic

Qtpy: Emissions Rate in tons per year

 χ/Q : Dispersion factor in $(\mu g/m3)/(tpy)$ calculated using AERMOD for receptor of interest, where Q=1 ton/yr

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

MP: Multipathway Adjustment Factor (dimensionless)

REL: Reference Exposure Level (μg/m³)

HIC Endpoint Sum Summary for Landfill Flare TAC Emissions:

| | PMI | MEIR | MEIW | School 1 | School 2 |
|-------------------------------|----------|----------|----------|----------|----------|
| Chronic Hazard Endpoint Sum = | 2.08E-05 | 2.10E-05 | 2.10E-05 | 6.92E-06 | 1.37E-06 |
| Receptor ID | P40 | RP_H31 | CR_WP_2 | CR_SC_13 | CR_SC_14 |
| Peak Concentration Year | 2020 | 2020 | 2019 | 2018 | 2020 |

TAC Flow and Adjustment Factors

| CAS | TACs ^[2] | $Q_{(tpy)}^{[3]}$ | MP ^[4] | MWAF ^[5] |
|-----------|---|-------------------|-------------------|---------------------|
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | - | 1 | 1 |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | - | 1 | 1 |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 1.48E-03 | 1 | 1 |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 1.58E-01 | 1 | 1 |
| 107-13-1 | Acrylonitrile | - | 1 | 1 |
| 71-43-2 | Benzene | 4.39E-03 | 1 | 1 |
| 75-15-0 | Carbon disulfide | 8.65E-04 | 1 | 1 |
| 56-23-5 | Carbon tetrachloride | - | 1 | 1 |
| 108-90-7 | Chlorobenzene | 3.87E-04 | 1 | 1 |
| 75-00-3 | Chloroethane (ethyl chloride) | 2.25E-03 | 1 | 1 |
| 67-66-3 | Chloroform | - | 1 | 1 |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 2.10E-03 | 1 | 1 |
| 75-09-2 | Dichloromethane (methylene chloride) | 5.54E-04 | 1 | 1 |
| 100-41-4 | Ethylbenzene | 1.95E-02 | 1 | 1 |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | 2.83E-04 | 1 | 1 |
| 110-54-3 | Hexane | 5.48E-03 | 1 | 1 |
| 7439-97-6 | Mercury (total)(e) | 8.02E-07 | 1 | 1 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 1.88E-03 | 1 | 1 |
| 79-01-6 | Trichloroethylene (trichloroethene) | 7.28E-04 | 1 | 1 |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | 5.02E-02 | 1 | 1 |
| 108-88-3 | Toluene | 9.05E-02 | 1 | 1 |
| 1330-20-7 | Xylenes | 4.58E-02 | 1 | 1 |

John Smith Road Landfill - DEIR Table P-2D Chronic Hazard Index from Peak Landfill Flare TAC (HIC)

TAC RELs

| CAS | TACs | | | | RELs (μg/ | m³) from OEHH | A/ARB ^[6] | | | |
|-----------|---|------------|----------------|-----------|-----------|---------------|----------------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | 1.00E+03 | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 7.00E+01 | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 4.00E+02 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 7.00E+03 | | 7.00E+03 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | 5.00E+03 |
| 71-43-2 | Benzene | | | | | 3.00E+00 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 8.00E+02 | 8.00E+02 | |
| 56-23-5 | Carbon tetrachloride | 4.00E+01 | | | | | | 4.00E+01 | 4.00E+01 | |
| 108-90-7 | Chlorobenzene | 1.00E+03 | | | | | 1.00E+03 | | 1.00E+03 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 3.00E+04 | | | | | | | 3.00E+04 | |
| 67-66-3 | Chloroform | 3.00E+02 | | | | | 3.00E+02 | | 3.00E+02 | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 8.00E+02 | | | | | 8.00E+02 | 8.00E+02 | | 8.00E+02 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 4.00E+02 | | | | | 4.00E+02 | | |
| 100-41-4 | Ethylbenzene | 2.00E+03 | 2.00E+03 | 2.00E+03 | | | 2.00E+03 | | 2.00E+03 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 8.00E-01 | |
| 110-54-3 | Hexane | | | | | | | 7.00E+03 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 3.00E-02 | 3.00E-02 | 3.00E-02 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 3.50E+01 | | | | | 3.50E+01 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | <u>'</u> | | | 6.00E+02 | | | 6.00E+02 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | <u>'</u> | | | | | | | | 9.00E+00 |
| 108-88-3 | Toluene | | | | 4.20E+02 | | | | | |
| 1330-20-7 | Xylenes | | | | 7.00E+02 | | | 7.00E+02 | | 7.00E+02 |

John Smith Road Landfill - DEIR Table P-2D

Chronic Hazard Index from Peak Landfill Flare TAC (HIC)

Factors:

PMI Dispersion Factor $(\chi/Q)^{[7]}$ = 0.00258

 $(\mu g/m^3)/(tpy)$

Hazard Indices for PMI

| CAS | TACs | | | H | lazard Indices | s - Chronic (HIC |) - Calculated | | | |
|-----------|---|------------|----------------|-----------|----------------|------------------|----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 9.58E-09 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 5.83E-08 | | 5.83E-08 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | |
| 71-43-2 | Benzene | | | | | 3.77E-06 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 2.79E-09 | 2.79E-09 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | | |
| 108-90-7 | Chlorobenzene | 9.99E-10 | | | | | 9.99E-10 | | 9.99E-10 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 1.94E-10 | | | | | | | 1.94E-10 | |
| 67-66-3 | Chloroform | | | | | | | | | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 6.77E-09 | | | | | 6.77E-09 | 6.77E-09 | | 6.77E-09 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 3.57E-09 | | | | | 3.57E-09 | | |
| 100-41-4 | Ethylbenzene | 2.52E-08 | 2.52E-08 | 2.52E-08 | | | 2.52E-08 | | 2.52E-08 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 9.13E-07 | |
| 110-54-3 | Hexane | | | | | | | 2.02E-09 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 6.89E-08 | 6.89E-08 | 6.89E-08 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | | | | 1.39E-07 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 3.13E-09 | | | 3.13E-09 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | | | | | | | 1.44E-05 |
| 108-88-3 | Toluene | | | | 5.56E-07 | | | | _ | |
| 1330-20-7 | Xylenes | | | | 1.69E-07 | | | 1.69E-07 | | 1.69E-07 |
| | Endpoint Sum Totals | 4.27E-08 | 2.88E-08 | 2.52E-08 | 7.28E-07 | 3.77E-06 | 2.99E-07 | 2.56E-07 | 1.07E-06 | 1.46E-05 |
| | Total | 2.08E-05 | | | | | | | | |

John Smith Road Landfill - DEIR Table P-2D

Chronic Hazard Index from Peak Landfill Flare TAC (HIC)

MEIR

Dispersion Factor $(\chi/Q)^{[7]}$ =

0.00261

 $(\mu g/m^3)/(tpy)$

Hazard Indices for MEIR

| CAS | TACs | | | Н | lazard Indices | - Chronic (HIC |) - Calculated | | | |
|-----------|---|------------|----------------|-----------|----------------|----------------|----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 9.69E-09 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 5.90E-08 | | 5.90E-08 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | |
| 71-43-2 | Benzene | | | | | 3.82E-06 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 2.82E-09 | 2.82E-09 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | | |
| 108-90-7 | Chlorobenzene | 1.01E-09 | | | | | 1.01E-09 | | 1.01E-09 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 1.96E-10 | | | | | | | 1.96E-10 | |
| 67-66-3 | Chloroform | | | | | | | | | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 6.85E-09 | | | | | 6.85E-09 | 6.85E-09 | | 6.85E-09 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 3.61E-09 | | | | | 3.61E-09 | | |
| 100-41-4 | Ethylbenzene | 2.55E-08 | 2.55E-08 | 2.55E-08 | | | 2.55E-08 | | 2.55E-08 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 9.24E-07 | |
| 110-54-3 | Hexane | | | | | | | 0.00E+00 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 6.97E-08 | 6.97E-08 | 6.97E-08 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | | | | 1.40E-07 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 3.16E-09 | | | 3.16E-09 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | • | | | | | | 1.45E-05 |
| 108-88-3 | Toluene | | | • | 5.63E-07 | | | | | |
| 1330-20-7 | Xylenes | | | <u> </u> | 1.71E-07 | | · | 1.71E-07 | | 1.71E-07 |
| - | Endpoint Sum Totals | 4.32E-08 | 2.91E-08 | 2.55E-08 | 7.36E-07 | 3.82E-06 | 3.02E-07 | 2.57E-07 | 1.08E-06 | 1.47E-05 |
| | Total | 2.10E-05 | | | | | | | | |

John Smith Road Landfill - DEIR Table P-2D Chronic Hazard Index from Peak Landfill Flare TAC (HIC)

MEIW **Factors:**

Dispersion Factor $(\chi/Q)^{[7]}$ = 0.00109 $(\mu g/m^3)/(tpy)$

Hazard Indices for MEIW

| CAS | TAC | | | Н | Iazard Indices | s - Chronic (HIC |) - Calculated | | | |
|-----------|---|------------|----------------|-----------|----------------|------------------|----------------|----------|--------------|-------------|
| CAS | TACs | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 4.05E-09 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 2.46E-08 | | 2.46E-08 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | |
| 71-43-2 | Benzene | | | | | 1.59E-06 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 1.18E-09 | 1.18E-09 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | | |
| 108-90-7 | Chlorobenzene | 4.22E-10 | | | | | 4.22E-10 | | 4.22E-10 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 8.19E-11 | | | | | | | 8.19E-11 | |
| 67-66-3 | Chloroform | | | | | | | | | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 2.86E-09 | | | | | 2.86E-09 | 2.86E-09 | | 2.86E-09 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 1.51E-09 | | | | | 1.51E-09 | | |
| 100-41-4 | Ethylbenzene | 1.06E-08 | = | 1.06E-08 | | | 1.06E-08 | | 1.06E-08 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 3.86E-07 | |
| 110-54-3 | Hexane | | | | | | | 0.00E+00 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 2.91E-08 | 2.91E-08 | 2.91E-08 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | | | | 5.85E-08 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 1.32E-09 | | | 1.32E-09 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | | | | | | | 6.08E-06 |
| 108-88-3 | Toluene | | | | 2.35E-07 | | | | | |
| 1330-20-7 | Xylenes | | | · | 7.12E-08 | | | 7.12E-08 | | 7.12E-08 |
| | Endpoint Sum Totals | 1.81E-08 | 1.51E-09 | 1.06E-08 | 3.08E-07 | 1.59E-06 | 1.26E-07 | 1.07E-07 | 4.52E-07 | 6.15E-06 |
| | Total | 8.77E-06 | | · | · | | | | · | |

Lawrence & Associates

John Smith Road Landfill - DEIR Table P-2D

Chronic Hazard Index from Peak Landfill Flare TAC (HIC)

Factors: School 1

Dispersion Factor $(\chi/Q)^{[7]} = 0.00086$ $(\mu g/m^3)/(tpy)$

Hazard Indices for School 1

| CAS | TACs | Hazard Indices - Chronic (HIC) - Calculated | | | | | | | | |
|-----------|---|---|----------------|-----------|----------|-------------|----------|----------|--------------|-------------|
| | | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 3.19E-09 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 1.94E-08 | | 1.94E-08 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | |
| 71-43-2 | Benzene | | | | | 1.26E-06 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 9.30E-10 | 9.30E-10 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | | |
| 108-90-7 | Chlorobenzene | 3.33E-10 | | | | | 3.33E-10 | | 3.33E-10 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 6.46E-11 | | | | | | | 6.46E-11 | |
| 67-66-3 | Chloroform | | | | | | | | | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 2.26E-09 | | | | | 2.26E-09 | 2.26E-09 | | 2.26E-09 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 1.19E-09 | | | | | 1.19E-09 | | |
| 100-41-4 | Ethylbenzene | 8.40E-09 | - | 8.40E-09 | | | 8.40E-09 | | 8.40E-09 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 3.04E-07 | |
| 110-54-3 | Hexane | | | | | | | 0.00E+00 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 2.30E-08 | 2.30E-08 | 2.30E-08 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | | | | 4.62E-08 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 1.04E-09 | | | 1.04E-09 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | <u> </u> | | | - | | | 4.79E-06 |
| 108-88-3 | Toluene | | | <u> </u> | 1.85E-07 | | - | | | |
| 1330-20-7 | Xylenes | | | | 5.62E-08 | | | 5.62E-08 | | 5.62E-08 |
| | Endpoint Sum Totals | 1.42E-08 | 1.19E-09 | 8.40E-09 | 2.43E-07 | 1.26E-06 | 9.96E-08 | 8.46E-08 | 3.57E-07 | 4.85E-06 |
| | Total | 6.92E-06 | | | | | | | | |

John Smith Road Landfill - DEIR Table P-2D

Chronic Hazard Index from Peak Landfill Flare TAC (HIC)

Factors: School 2

Dispersion Factor $(\chi/Q)^{[7]} = 0.00017$

 $(\mu g/m^3)/(tpy)$

Hazard Indices for School 2

| CAS | TACs | | | Н | Iazard Indices | s - Chronic (HIC |) - Calculated | 1 | | |
|-----------|---|------------|----------------|-----------|----------------|------------------|----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 6.31E-10 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 3.84E-09 | | 3.84E-09 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | |
| 71-43-2 | Benzene | | | | | 2.49E-07 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 1.84E-10 | 1.84E-10 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | | |
| 108-90-7 | Chlorobenzene | 6.58E-11 | | | | | 6.58E-11 | | 6.58E-11 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 1.28E-11 | | | | | | | 1.28E-11 | |
| 67-66-3 | Chloroform | | | | | | | | | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 4.46E-10 | | | | | 4.46E-10 | 4.46E-10 | | 4.46E-10 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 2.35E-10 | | | | | 2.35E-10 | | |
| 100-41-4 | Ethylbenzene | 1.66E-09 | - | 1.66E-09 | | | 1.66E-09 | | 1.66E-09 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 6.02E-08 | |
| 110-54-3 | Hexane | | | | | | | 0.00E+00 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 4.54E-09 | 4.54E-09 | 4.54E-09 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | | | | 9.13E-09 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 2.06E-10 | | | 2.06E-10 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | | | | - | | | 9.48E-07 |
| 108-88-3 | Toluene | | | | 3.67E-08 | | | | | |
| 1330-20-7 | Xylenes | | | | 1.11E-08 | | | 1.11E-08 | | 1.11E-08 |
| • | Endpoint Sum Totals | 2.82E-09 | 2.35E-10 | 1.66E-09 | 4.80E-08 | 2.49E-07 | 1.97E-08 | 1.67E-08 | 7.05E-08 | 9.59E-07 |
| | Total | 1.37E-06 | | | | | | | | |

[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating HIC, Page 19.

^[2] Toxic Air Contaminants TACs.

^[3] Maximum emission rates in tons per year is the sum of current and future flare potential to emit.

^[4] SCAQMD Permit Application package N, Version 8.1 page 12. "Multipathway adjustment" factors - chronic HI, Table 3.2. No value tabulated, therefore assumed inhalation pathway only.

^[5] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1 - "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values."

⁶ https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/totables.pdf, Table 4 - "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs."

^[7] Obtained from AERMOD. Dispersion Factor calculated for annual concentration at residential receptor for location at: PMI at P46 for 2020, MEIR at RP_H1 for 2019, MIEW CR_WP_2 for 2019, School 1 at CR_SC_13 for 2018, and School 2 at CR_SC_14 for 2020. See Table P-2B.

John Smith Road Landfill - DEIR Table P-2D_G68

Chronic Hazard Index from Peak Landfill Flare TAC (HIC)

 $HIC^{[1]} = ENDPOINT SUM (Q_{tpy} * \chi/Q * MWAF * MP * (1/REL)) =$

HIC: Hazard Index - Chronic

Qtpy: Emissions Rate in tons per year

 χ/Q : Dispersion factor in $(\mu g/m3)/(tpy)$ calculated using AERMOD for receptor of interest, where Q=1 ton/yr

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

MP: Multipathway Adjustment Factor (dimensionless)

REL: Reference Exposure Level (μg/m³)

HIC Endpoint Sum Summary for Landfill Flare TAC Emissions:

| | PMI |
|-------------------------------|----------|
| Chronic Hazard Endpoint Sum = | 4.78E-05 |
| Receptor ID | P40 |
| Peak Concentration Year | 2020 |

TAC Flow and Adjustment Factors

| CAS | TACs ^[2] | Q _(tpy) [3] | MP ^[4] | MWAF ^[5] |
|-----------|---|------------------------|-------------------|---------------------|
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | - | 1 | 1 |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | - | 1 | 1 |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 1.48E-03 | 1 | 1 |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 1.58E-01 | 1 | 1 |
| 107-13-1 | Acrylonitrile | = | 1 | 1 |
| 71-43-2 | Benzene | 4.39E-03 | 1 | 1 |
| 75-15-0 | Carbon disulfide | 8.65E-04 | 1 | 1 |
| 56-23-5 | Carbon tetrachloride | - | 1 | 1 |
| 108-90-7 | Chlorobenzene | 3.87E-04 | 1 | 1 |
| 75-00-3 | Chloroethane (ethyl chloride) | 2.25E-03 | 1 | 1 |
| 67-66-3 | Chloroform | = | 1 | 1 |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 2.10E-03 | 1 | 1 |
| 75-09-2 | Dichloromethane (methylene chloride) | 5.54E-04 | 1 | 1 |
| 100-41-4 | Ethylbenzene | 1.95E-02 | 1 | 1 |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | 2.83E-04 | 1 | 1 |
| 110-54-3 | Hexane | 5.48E-03 | 1 | 1 |
| 7439-97-6 | Mercury (total)(e) | 8.02E-07 | 1 | 1 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 1.88E-03 | 1 | 1 |
| 79-01-6 | Trichloroethylene (trichloroethene) | 7.28E-04 | 1 | 1 |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | 5.02E-02 | 1 | 1 |
| 108-88-3 | Toluene | 9.05E-02 | 1 | 1 |
| 1330-20-7 | Xylenes | 4.58E-02 | 1 | 1 |

John Smith Road Landfill - DEIR Table P-2D_G68 Chronic Hazard Index from Peak Landfill Flare TAC (HIC)

TAC RELs

| CAS | TACs | | | | RELs (μg/i | m³) from OEHH | A/ARB ^[6] | | | |
|-----------|---|------------|----------------|-----------|------------|---------------|----------------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | 1.00E+03 | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 7.00E+01 | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 4.00E+02 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 7.00E+03 | | 7.00E+03 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | 5.00E+03 |
| 71-43-2 | Benzene | | | | | 3.00E+00 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 8.00E+02 | 8.00E+02 | |
| 56-23-5 | Carbon tetrachloride | 4.00E+01 | | | | | | 4.00E+01 | 4.00E+01 | |
| 108-90-7 | Chlorobenzene | 1.00E+03 | | | | | 1.00E+03 | | 1.00E+03 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 3.00E+04 | | | | | | | 3.00E+04 | |
| 67-66-3 | Chloroform | 3.00E+02 | | | | | 3.00E+02 | | 3.00E+02 | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 8.00E+02 | | | | | 8.00E+02 | 8.00E+02 | | 8.00E+02 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 4.00E+02 | | | | | 4.00E+02 | | |
| 100-41-4 | Ethylbenzene | 2.00E+03 | 2.00E+03 | 2.00E+03 | | | 2.00E+03 | | 2.00E+03 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 8.00E-01 | |
| 110-54-3 | Hexane | | | | | | | 7.00E+03 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 3.00E-02 | 3.00E-02 | 3.00E-02 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 3.50E+01 | | | | | 3.50E+01 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 6.00E+02 | | | 6.00E+02 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | | | | | | | 9.00E+00 |
| 108-88-3 | Toluene | | | <u>-</u> | 4.20E+02 | | | | | |
| 1330-20-7 | Xylenes | | | | 7.00E+02 | | | 7.00E+02 | | 7.00E+02 |

John Smith Road Landfill - DEIR Table P-2D_G68 Chronic Hazard Index from Peak Landfill Flare TAC (HIC)

Potential Nearst

Factors: Receptor

Dispersion Factor $(\gamma/Q)^{[7]} = 0.00593$

 $(\mu g/m^3)/(tpy)$

Hazard Indices for PMI

| CAS | TAC | | | H | Iazard Indices | s - Chronic (HIC |) - Calculated | | | |
|-----------|---|------------|----------------|-----------|----------------|------------------|----------------|-------------|--------------|-------------|
| CAS | TACs | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 2.20E-08 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 1.34E-07 | | 1.34E-07 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | |
| 71-43-2 | Benzene | | | | | 8.67E-06 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 6.42E-09 | 6.42E-09 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | | |
| 108-90-7 | Chlorobenzene | 2.30E-09 | | | | | 2.30E-09 | | 2.30E-09 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 4.46E-10 | | | | | | | 4.46E-10 | |
| 67-66-3 | Chloroform | | | | | | | | | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 1.56E-08 | | | | | 1.56E-08 | 1.56E-08 | | 1.56E-08 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 8.21E-09 | | | | | 8.21E-09 | | |
| 100-41-4 | Ethylbenzene | 5.79E-08 | 5.79E-08 | 5.79E-08 | | | 5.79E-08 | | 5.79E-08 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 2.10E-06 | |
| 110-54-3 | Hexane | | | | | | | 4.64E-09 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 1.58E-07 | 1.58E-07 | 1.58E-07 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | | | | 3.18E-07 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 7.19E-09 | | | 7.19E-09 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | | | | | | | 3.31E-05 |
| 108-88-3 | Toluene | | | • | 1.28E-06 | | | | | |
| 1330-20-7 | Xylenes | | | • | 3.88E-07 | | | 3.88E-07 | | 3.88E-07 |
| | Endpoint Sum Totals | 9.82E-08 | 6.61E-08 | 5.79E-08 | 1.67E-06 | 8.67E-06 | 6.87E-07 | 5.88E-07 | 2.46E-06 | 3.35E-05 |
| | Total | 4.78E-05 | | | | | | | | |

[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating HIC, Page 19.

^[2] Toxic Air Contaminants TACs.

^[3] Maximum emission rates in tons per year is the sum of current and future flare potential to emit.

^[4] SCAQMD Permit Application package N, Version 8.1 page 12. "Multipathway adjustment" factors - chronic HI, Table 3.2. No value tabulated, therefore assumed inhalation pathway only.

^[5] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1 - "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values."

^[6] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/totables.pdf, Table 4 - "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs."

^[7] Obtained from AERMOD. Dispersion Factor calculated for annual concentration at residential receptor for location at: PMI at P46 for 2020, MEIR at RP_H1 for 2019, MIEW CR_WP_2 for 2019, School 1 at CR_SC_13 for 2018, and School 2 at CR_SC_14 for 2020. See Table P-2B.

Acute Hazard from Peak Flare Emissions (AHI)

$$AHI^{[1]} = ENDPOINT SUM (Qtpy * \chi/Q * MWAF * (1/REL)) =$$

Where:

AHI: Acute Hazard Index

Q_{tov}: Emissions Rate in tons per year

 χ /Q: Dispersion factor in (μ g/m3)/(tpy) calculated using AERMOD for receptor of interest, where Q = 1 ton/yr

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

REL: Reference Exposure Level (μg/m³)

HIC Endpoint Sum Summary for Landfill Flare TAC Emissions:

| | PMI | MEIR | MEIW | School 1 | School 1 |
|-------------------------------|----------|----------|----------|----------|----------|
| Chronic Hazard Endpoint Sum = | 4.96E-08 | 5.02E-08 | 2.18E-08 | 1.75E-08 | 4.68E-09 |
| Receptor ID | P40 | RP_H31 | CR_WP_2 | CR_SC_13 | CR_SC_14 |
| Peak Concentration Year | 2020 | 2019 | 2019 | 2018 | 2020 |

| CAS | TACs ^[2] | $Q_{tpy}^{[3]}$ | MWAF ^[5] |
|-----------|---|-----------------|---------------------|
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | - | 1 |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 4.55E-03 | 1 |
| 71-43-2 | Benzene | 1.26E-04 | 1 |
| 75-15-0 | Carbon disulfide | 2.49E-05 | 1 |
| 56-23-5 | Carbon tetrachloride | - | 1 |
| 67-66-3 | Chloroform | - | 1 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 1.59E-05 | 1 |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | 1.44E-03 | 1 |
| 7439-97-6 | Mercury (total)(e) | 2.31E-08 | 1 |
| 78-93-3 | Methyl ethyl ketone | 2.73E-04 | 1 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 5.41E-05 | 1 |
| 108-88-3 | Toluene | 2.60E-03 | 1 |
| 75-01-4 | Vinyl chloride | 4.14E-06 | 1 |
| 1330-20-7 | Xylenes | 1.32E-03 | 1 |

John Smith Road Landfill, Hollister CA

Table P-2E

Acute Hazard from Peak Flare Emissions (AHI)

Acute Hazard RELs

| CAS | TACs | | | REI | Ls (μg/m³) from (| OEHHA/ARI | 3 ^[6] | | |
|-----------|---|------------|----------------|----------|-------------------|-----------|-------------------------|--------------|-------------|
| CHS | mes | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nervous | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | 6.80E+04 | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 3.20E+03 | | |
| 71-43-2 | Benzene | | | | 2.70E+01 | 2.70E+01 | | 2.70E+01 | |
| 75-15-0 | Carbon disulfide | | | | | | 6.20E+03 | 6.20E+03 | |
| 56-23-5 | Carbon tetrachloride | 1.90E+03 | | | | | 1.90E+03 | 1.90E+03 | |
| 67-66-3 | Chloroform | | | | | | 1.50E+03 | 1.50E+02 | 1.50E+02 |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 1.40E+04 | | | | 1.40E+04 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 2.10E+03 | | | | | 2.10E+03 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 6.00E-01 | 6.00E-01 | |
| 78-93-3 | Methyl ethyl ketone | | | 1.30E+04 | | | | | 1.30E+04 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 2.00E+04 | | | 2.00E+04 | | 2.00E+04 |
| 108-88-3 | Toluene | | | 5.00E+03 | | | 5.00E+03 | 5.00E+03 | 5.00E+03 |
| 75-01-4 | Vinyl chloride | | | 1.80E+05 | | | 1.80E+05 | | 1.80E+05 |
| 1330-20-7 | Xylenes | | | 2.20E+04 | | • | 2.20E+04 | | 2.20E+04 |

Acute Hazard from Peak Flare Emissions (AHI)

Factors: PMI

Dispersion Factor $(\chi/Q)^{[7]}$ =

0.00258 $(\mu g/m^3)/(tpy)$

Acute Hazard Calculated for PMI

| CAS | TACs | | | Haza | ard Indices - Chr | onic (calculat | ed) | | |
|-----------|---|------------|----------------|----------|-------------------|----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 3.67E-09 | | |
| 71-43-2 | Benzene | | | | 1.21E-08 | 1.21E-08 | | 1.21E-08 | |
| 75-15-0 | Carbon disulfide | | | | | | 1.04E-11 | 1.04E-11 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | |
| 67-66-3 | Chloroform | | | | | | | | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 2.94E-12 | | | | 2.94E-12 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 1.77E-09 | | | | | 1.77E-09 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 9.92E-11 | 9.92E-11 | |
| 78-93-3 | Methyl ethyl ketone | | | 5.41E-11 | | | | | 5.41E-11 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 6.98E-12 | | | 6.98E-12 | | 6.98E-12 |
| 108-88-3 | Toluene | | | 1.34E-09 | | | 1.34E-09 | 1.34E-09 | 1.34E-09 |
| 75-01-4 | Vinyl chloride | | | 5.94E-14 | | | 5.94E-14 | | 5.94E-14 |
| 1330-20-7 | Xylenes | | | 1.54E-10 | | | 1.54E-10 | | 1.54E-10 |
| | Endpoint Sum Totals | 0.00E+00 | 2.94E-12 | 3.33E-09 | 1.21E-08 | 1.21E-08 | 5.29E-09 | 1.35E-08 | 3.33E-09 |

John Smith Road Landfill, Hollister CA Table P-2E Acute Hazard from Peak Flare Emissions (AHI)

Factors: MEIR
Dispersion Factor $(\chi/Q)^{[7]} = 0.00261$

 $(\mu g/m^3)/(tpy)$

Acute Hazard Calculated for MEIR

| CAS | TACs | | | Haza | ard Indices - Chr | onic (calculat | red) | | |
|-----------|---|------------|----------------|----------|-------------------|----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 3.71E-09 | | |
| 71-43-2 | Benzene | | | | 1.22E-08 | 1.22E-08 | | 1.22E-08 | |
| 75-15-0 | Carbon disulfide | | | | | | 1.05E-11 | 1.05E-11 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | |
| 67-66-3 | Chloroform | | | | | | | | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 2.94E-12 | | | | 2.97E-12 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 1.79E-09 | | | | | 1.79E-09 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 1.00E-10 | 1.00E-10 | |
| 78-93-3 | Methyl ethyl ketone | | | 5.47E-11 | | | | | 5.47E-11 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 7.06E-12 | | | 6.98E-12 | | 7.06E-12 |
| 108-88-3 | Toluene | | | 1.36E-09 | | | 1.34E-09 | 1.36E-09 | 1.36E-09 |
| 75-01-4 | Vinyl chloride | | | 6.00E-14 | | | 5.94E-14 | | 6.00E-14 |
| 1330-20-7 | Xylenes | | | 1.56E-10 | | | 1.54E-10 | | 1.56E-10 |
| | Endpoint Sum Totals | 0.00E+00 | 2.94E-12 | 3.37E-09 | 1.22E-08 | 1.22E-08 | 5.33E-09 | 1.37E-08 | 3.37E-09 |
| | Total | 5.02E-08 | | | | | | | |

Acute Hazard from Peak Flare Emissions (AHI)

Factors: MEIW

Dispersion Factor $(\chi/Q)^{[7]}$ =

0.00109

 $(\mu g/m^3)/(tpy)$

Acute Hazard Calculated for MEIW

| CAS | TACs | | | Haza | rd Indices - Chr | onic (calculat | red) | | |
|-----------|---|------------|----------------|----------|------------------|----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 1.55E-09 | | |
| 71-43-2 | Benzene | | | | 5.10E-09 | 5.10E-09 | | 5.10E-09 | |
| 75-15-0 | Carbon disulfide | | | | | | 4.38E-12 | 4.38E-12 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | |
| 67-66-3 | Chloroform | | | | | | | | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 2.94E-12 | | | | 1.24E-12 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 7.49E-10 | | | | | 7.49E-10 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 4.19E-11 | 4.19E-11 | |
| 78-93-3 | Methyl ethyl ketone | | | 2.28E-11 | | | | | 2.28E-11 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 2.95E-12 | | | 6.98E-12 | | 2.95E-12 |
| 108-88-3 | Toluene | | | 5.68E-10 | | | 1.34E-09 | 5.68E-10 | 5.68E-10 |
| 75-01-4 | Vinyl chloride | | | 2.51E-14 | | | 5.94E-14 | | 2.51E-14 |
| 1330-20-7 | Xylenes | | | 6.52E-11 | | | 1.54E-10 | | 6.52E-11 |
| | Endpoint Sum Totals | 0.00E+00 | 2.94E-12 | 1.41E-09 | 5.10E-09 | 5.10E-09 | 3.10E-09 | 5.71E-09 | 1.41E-09 |

Total 2.18E-08

Acute Hazard from Peak Flare Emissions (AHI)

Factors: School 1

Dispersion Factor $(\chi/Q)^{[7]} =$

0.00086

 $(\mu g/m^3)/(tpy)$

Acute Hazard Calculated for School 1

| CAS | TACs | | | Haza | rd Indices - Chr | onic (calculat | ed) | | |
|-----------|---|------------|----------------|----------|------------------|----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 1.22E-09 | | |
| 71-43-2 | Benzene | | | | 4.02E-09 | 4.02E-09 | | 4.02E-09 | |
| 75-15-0 | Carbon disulfide | | | | | | 3.45E-12 | 3.45E-12 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | |
| 67-66-3 | Chloroform | | | | | | | | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 2.94E-12 | | | | 9.79E-13 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 5.91E-10 | | | | | 5.91E-10 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 3.31E-11 | 3.31E-11 | |
| 78-93-3 | Methyl ethyl ketone | | | 1.80E-11 | | | | | 1.80E-11 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 2.33E-12 | | | 6.98E-12 | | 2.33E-12 |
| 108-88-3 | Toluene | | | 4.48E-10 | | | 1.34E-09 | 4.48E-10 | 4.48E-10 |
| 75-01-4 | Vinyl chloride | | | 1.98E-14 | | · | 5.94E-14 | | 1.98E-14 |
| 1330-20-7 | Xylenes | | | 5.14E-11 | | | 1.54E-10 | | 5.14E-11 |
| | Endpoint Sum Totals | 0.00E+00 | 2.94E-12 | 1.11E-09 | 4.02E-09 | 4.02E-09 | 2.77E-09 | 4.51E-09 | 1.11E-09 |

Total 1.75E-08

Acute Hazard from Peak Flare Emissions (AHI)

Factors: School 2

Dispersion Factor $(\chi/Q)^{[7]}$ =

0.00017

 $(\mu g/m^3)/(tpy)$

Acute Hazard Calculated for School 2

| CAS | TACs | | | Haza | rd Indices - Chr | onic (calculat | red) | | |
|-----------|---|------------|----------------|----------|------------------|----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 2.42E-10 | | |
| 71-43-2 | Benzene | | | | 7.95E-10 | 7.95E-10 | | 7.95E-10 | |
| 75-15-0 | Carbon disulfide | | | | | | 6.83E-13 | 6.83E-13 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | |
| 67-66-3 | Chloroform | | | | | | | | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 2.94E-12 | | | | 1.93E-13 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 1.17E-10 | | | | | 1.17E-10 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 6.53E-12 | 6.53E-12 | |
| 78-93-3 | Methyl ethyl ketone | | | 3.56E-12 | | | | | 3.56E-12 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 4.60E-13 | | | 6.98E-12 | | 4.60E-13 |
| 108-88-3 | Toluene | | | 8.86E-11 | | | 1.34E-09 | 8.86E-11 | 8.86E-11 |
| 75-01-4 | Vinyl chloride | | | 3.91E-15 | | | 5.94E-14 | | 3.91E-15 |
| 1330-20-7 | Xylenes | | | 1.02E-11 | | | 1.54E-10 | | 1.02E-11 |
| | Endpoint Sum Totals | 0.00E+00 | 2.94E-12 | 2.20E-10 | 7.95E-10 | 7.95E-10 | 1.75E-09 | 8.91E-10 | 2.20E-10 |
| | Total | 4.68E-09 | | | | • | • | • | • |

^[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating HIC, Page 19.

^[2] Toxic Air Contaminants TACs.

^[3] Maximum emission rates in tons per year is the sum of current and future flare potential to emit.

^[4] SCAQMD Permit Application package N, Version 8.1 page 10. "Multipathway adjustment" factors - chronic HI, Table 3.2. No value tabulated, therefore assumed inhalation pathway only.

^[5] https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable.pdf, Table 1 - "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values."

⁶ https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/totables.pdf, Table 4 - "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs."

^[7] Dispersion Factor calculated by AERMOD. See Table P-2B.

John Smith Road Landfill, Hollister CA Table P-2E_G68 Acute Hazard from Peak Flare Emissions (AHI)

$$AHI^{[1]} = ENDPOINT SUM (Qtpy * \chi/Q * MWAF * (1/REL)) =$$

Where:

AHI: Acute Hazard Index

Q_{tov}: Emissions Rate in tons per year

 χ /Q: Dispersion factor in (µg/m3)/(tpy) calculated using AERMOD for receptor of interest, where Q = 1 ton/yr

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

REL: Reference Exposure Level (μg/m³)

HIC Endpoint Sum Summary for Landfill Flare TAC Emissions:

| | PMI |
|-------------------------------|----------|
| Chronic Hazard Endpoint Sum = | 1.14E-07 |
| Receptor ID | P40 |
| Peak Concentration Year | 2020 |

| CAS | TACs ^[2] | $Q_{tpy}^{[3]}$ | MWAF ^[5] |
|-----------|---|-----------------|---------------------|
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | - | 1 |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 4.55E-03 | 1 |
| 71-43-2 | Benzene | 1.26E-04 | 1 |
| 75-15-0 | Carbon disulfide | 2.49E-05 | 1 |
| 56-23-5 | Carbon tetrachloride | - | 1 |
| 67-66-3 | Chloroform | - | 1 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 1.59E-05 | 1 |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | 1.44E-03 | 1 |
| 7439-97-6 | Mercury (total)(e) | 2.31E-08 | 1 |
| 78-93-3 | Methyl ethyl ketone | 2.73E-04 | 1 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 5.41E-05 | 1 |
| 108-88-3 | Toluene | 2.60E-03 | 1 |
| 75-01-4 | Vinyl chloride | 4.14E-06 | 1 |
| 1330-20-7 | Xylenes | 1.32E-03 | 1 |

Acute Hazard from Peak Flare Emissions (AHI)

Acute Hazard RELs

| CAS | TACs | RELs (μg/m³) from OEHHA/ARB ^[6] | | | | | | | | | | | |
|-----------|---|--|----------------|----------|-------------|----------|----------|--------------|-------------|--|--|--|--|
| CHS | mes | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nervous | Reproductive | Respiratory | | | | |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | 6.80E+04 | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 3.20E+03 | | | | | | |
| 71-43-2 | Benzene | | | | 2.70E+01 | 2.70E+01 | | 2.70E+01 | | | | | |
| 75-15-0 | Carbon disulfide | | | | | | 6.20E+03 | 6.20E+03 | | | | | |
| 56-23-5 | Carbon tetrachloride | 1.90E+03 | | | | | 1.90E+03 | 1.90E+03 | | | | | |
| 67-66-3 | Chloroform | | | | | | 1.50E+03 | 1.50E+02 | 1.50E+02 | | | | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 1.40E+04 | | | | 1.40E+04 | | | | | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 2.10E+03 | | | | | 2.10E+03 | | | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 6.00E-01 | 6.00E-01 | | | | | |
| 78-93-3 | Methyl ethyl ketone | | | 1.30E+04 | | | | | 1.30E+04 | | | | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 2.00E+04 | | | 2.00E+04 | | 2.00E+04 | | | | |
| 108-88-3 | Toluene | | | 5.00E+03 | | | 5.00E+03 | 5.00E+03 | 5.00E+03 | | | | |
| 75-01-4 | Vinyl chloride | | | 1.80E+05 | | | 1.80E+05 | | 1.80E+05 | | | | |
| 1330-20-7 | Xylenes | | | 2.20E+04 | | • | 2.20E+04 | | 2.20E+04 | | | | |

John Smith Road Landfill, Hollister CA Table P-2E_G68 Acute Hazard from Peak Flare Emissions (AHI)

Nearest **Potential**

Factors:

Receptor Dispersion Factor $(\chi/Q)^{[7]}$ = 0.00593

 $(\mu g/m^3)/(tpy)$

Acute Hazard Calculated for PMI

| CAS | TACs | | | Haza | rd Indices - Chr | onic (calculat | ed) | | |
|-----------|---|------------|----------------|----------|------------------|----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 8.44E-09 | | |
| 71-43-2 | Benzene | | | | 2.77E-08 | 2.77E-08 | | 2.77E-08 | |
| 75-15-0 | Carbon disulfide | | | | | | 2.38E-11 | 2.38E-11 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | |
| 67-66-3 | Chloroform | | | | | | | | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 6.75E-12 | | | | 6.75E-12 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 4.08E-09 | | | | | 4.08E-09 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 2.28E-10 | 2.28E-10 | |
| 78-93-3 | Methyl ethyl ketone | | | 1.24E-10 | | | | | 1.24E-10 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 1.60E-11 | | | 1.60E-11 | | 1.60E-11 |
| 108-88-3 | Toluene | | | 3.09E-09 | | | 3.09E-09 | 3.09E-09 | 3.09E-09 |
| 75-01-4 | Vinyl chloride | | | 1.36E-13 | | | 1.36E-13 | | 1.36E-13 |
| 1330-20-7 | Xylenes | | | 3.55E-10 | | | 3.55E-10 | | 3.55E-10 |
| | Endpoint Sum Totals | 0.00E+00 | 6.75E-12 | 7.66E-09 | 2.77E-08 | 2.77E-08 | 1.22E-08 | 3.11E-08 | 7.66E-09 |
| | Total | 1.14E-07 | | | | | | | |

[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating HIC, Page 19.

[2] Toxic Air Contaminants TACs.

[3] Maximum emission rates in tons per year is the sum of current and future flare potential to emit.

[4] SCAQMD Permit Application package N, Version 8.1 page 10. "Multipathway adjustment" factors - chronic HI, Table 3.2. No value tabulated, therefore assumed inhalation pathway only. [5] https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable.pdf, Table 1 - "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values."

[6] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/totables.pdf, Table 4 - "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs."

[7] Dispersion Factor calculated by AERMOD. See Table P-2B.

John Smith Road Landfill - DEIR Table P-2F Potential-to-Emit Estimates for Proposed LFG Flare

Variables:

| Model Input Variables: | | | | | | | | | | |
|---|-------|-------|--|--|--|--|--|--|--|--|
| Methane Content | 50.0% | | | | | | | | | |
| Max LFG Collection Rate to Flare | 2,400 | DSCFM | | | | | | | | |
| (based on 75% of peak 5,500 dscfm rate) | | | | | | | | | | |

Conversion Factors*

| Imperial Ton | 2,000.00 lbs. |
|----------------|------------------|
| lb. | 453.60 grams |
| hour | 60.00 min |
| hour | 3,600.00 sec |
| day | 24.00 hrs. |
| 12 months | 365.00 days |
| mol conversion | 24.04 L @ 20° C |
| cubic foot | 28.32 L |
| MMBtu | 1,000,000.00 Btu |

^{*} Assume Ideal Gas Law at Standard Atmospheric Pressure & Temperature for all calculations, conversions, and constants.

| CAS No. | HAPs Compounds ^[1] | Molecular weight (g/Mol) ^[2] | Ave. Concentration of Compounds Found in LFG at Inlet (ppmv) ^[3] | Pollutant Flow Rate to Flare (ton/year) ^[4] | Flare Destruction Efficiency ^[5] | Maximum Emissions from Flare (tons/yr.) ^[6] |
|-----------|--|---|---|--|--|---|
| 100-41-4 | Ethylbenzene | 106.16 | 5.62E+00 | 9.76E-01 | 98.00% | 1.95E-02 |
| 106-46-7 | Dichlorobenzene (1, 4-dichlorobenzene) | 147 | 4.36E-01 | 1.05E-01 | 98.00% | 2.10E-03 |
| 106-93-4 | Ethylene dibromide (1, 2-dibromoethane) | 187.88 | 4.60E-02 | 1.42E-02 | 98.00% | 2.83E-04 |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 98.96 | 4.58E-01 | 7.42E-02 | 98.00% | 1.48E-03 |
| 107-13-1 | Acrylonitrile | 53.06 | = | - | 98.00% | - |
| 108-88-3 | Toluene | 92.13 | 3.00E+01 | 4.53E+00 | 98.00% | 9.05E-02 |
| 108-90-7 | Chlorobenzene | 112.56 | 1.05E-01 | 1.94E-02 | 98.00% | 3.87E-04 |
| 110-54-3 | Hexane | 86.18 | 1.94E+00 | 2.74E-01 | 98.00% | 5.48E-03 |
| 127-18-4 | Perchloroethylene (tetrachloroethene) | 165.83 | 3.46E-01 | 9.40E-02 | 98.00% | 1.88E-03 |
| 1330-20-7 | Xylenes | 106.16 | 1.32E+01 | 2.29E+00 | 98.00% | 4.58E-02 |
| 56-23-5 | Carbon tetrachloride | 153.84 | - | - | 98.00% | - |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 60.11 | 8.04E+01 | 7.91E+00 | 98.00% | 1.58E-01 |
| 67-66-3 | Chloroform | 119.39 | - | - | 98.00% | - |
| 71-43-2 | Benzene | 78.11 | 1.72E+00 | 2.19E-01 | 98.00% | 4.39E-03 |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | 133.41 | - | - | 98.00% | - |
| 7439-97-6 | Mercury (total)(e) | 200.59 | 1.22E-04 | 4.01E-05 | 98.00% | 8.02E-07 |
| 75-00-3 | Chlorodifluoromethane | 86.47 | 7.96E-01 | 1.13E-01 | 98.00% | 2.25E-03 |
| 75-01-4 | Vinyl chloride | 62.5 | 7.03E-02 | 7.20E-03 | 98.00% | 1.44E-04 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 84.94 | 1.99E-01 | 2.77E-02 | 98.00% | 5.54E-04 |
| 75-15-0 | Carbon disulfide | 76.13 | 3.47E-01 | 4.33E-02 | 98.00% | 8.65E-04 |
| 75-34-3 | 1,1-Dichloroethane (ethylidene dichloride) | 98.97 | - | - | 98.00% | - |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 96.94 | - | - | 98.00% | - |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) ^[7] | 36.46 | 4.20E+01 | 2.51E+00 | 98.00% | 5.02E-02 |
| | 1,2-Dichloropropane (propylene dichloride) | 112.99 | 2.30E-02 | 4.26E-03 | 98.00% | 8.51E-05 |
| 78-93-3 | Methyl ethyl ketone | 72.11 | 4.01E+00 | 4.74E-01 | 98.00% | 9.47E-03 |
| 79-01-6 | Trichloroethylene (trichloroethane) | 131.4 | 1.69E-01 | 3.64E-02 | 98.00% | 7.28E-04 |
| 79-34-5 | 1, 1, 2, 2-Tetrachloroethane | 167.85 | - | _ | 98.00% | - |
| | | | | | | |

See Notes on Following Page

Notes

- [1] List Hazardous Air Pollutants (HAPs) per Title III Clean Air Act Amendments, 1990, and include compounds found in landfill gas, per AP-42 Table 2.4-1 "Default Concentrations for LFG Constituents."
- [2] Molecular weight obtained from AP-42 Table 2.4-1 "Default Concentrations for LFG Constituents."
- [3] Constituent concentration obtained from flare test conducted on June 22, 2020 By AtmAA Inc.
- [5] Flare Destruction Efficiency based on regulatory thresholds (99%).
- [6] Maximum Emissions from flare calculated using Equation 1, multiplied by the inverse Flare Destruction Efficiency and converted to corresponding units.
- [7] Concentration of HCL is based on AP-42 default, 2.4.4.2, (11/98)
- "Indicates compounds found in trace amounts, or less than detectable testing limits amounting to negligible results.

Yellow highlight data from AP-42 (2008) Tables 2.4-1 AND 2.4-1 "Default Concentrations for LFG Constituents with waste in place on or after 1992".

Example Calculation (Equation 1)

Total Pollutant Flow Rate (To Flare) = ((Concentration of compound [ppmv]/1,000,000)) * (Molecular Weight of Compound [g/mol]) * (Total LFG to Flare [cfm])

*(60 min * 24 hr. * 365 days) * (1 ton/2,000 lbs.)* (1 lb./ 453.6 g) * (1 mol/24.04L) * (28.32 L/1 CF)

John Smith Road Landfill - DEIR Table P-2F_G68 Potential-to-Emit Estimates for Proposed LFG Flare

Variables:

| Model Input Variables: | | | | | | | | | | |
|---|-------|-------|--|--|--|--|--|--|--|--|
| Methane Content | 50.0% | | | | | | | | | |
| Max LFG Collection Rate to Flare | 2,400 | DSCFM | | | | | | | | |
| (based on 75% of peak 5,500 dscfm rate) | | | | | | | | | | |

Conversion Factors*

| Imperial Ton | 2,000.00 lbs. |
|----------------|------------------|
| lb. | 453.60 grams |
| hour | 60.00 min |
| hour | 3,600.00 sec |
| day | 24.00 hrs. |
| 12 months | 365.00 days |
| mol conversion | 24.04 L @ 20° C |
| cubic foot | 28.32 L |
| MMBtu | 1,000,000.00 Btu |

^{*} Assume Ideal Gas Law at Standard Atmospheric Pressure & Temperature for all calculations, conversions, and constants.

| CAS No. | HAPs Compounds ^[1] | Molecular weight (g/Mol) ^[2] | Ave. Concentration of Compounds Found in LFG at Inlet (ppmv) ^[3] | Pollutant Flow Rate to Flare (ton/year) ^[4] | Flare Destruction Efficiency ^[5] | Maximum Emissions from Flare (tons/yr.) ^[6] |
|-----------|--|---|---|--|--|---|
| 100-41-4 | Ethylbenzene | 106.16 | 5.62E+00 | 9.76E-01 | 98.00% | 1.95E-02 |
| 106-46-7 | Dichlorobenzene (1, 4-dichlorobenzene) | 147 | 4.36E-01 | 1.05E-01 | 98.00% | 2.10E-03 |
| 106-93-4 | Ethylene dibromide (1, 2-dibromoethane) | 187.88 | 4.60E-02 | 1.42E-02 | 98.00% | 2.83E-04 |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 98.96 | 4.58E-01 | 7.42E-02 | 98.00% | 1.48E-03 |
| 107-13-1 | Acrylonitrile | 53.06 | = | - | 98.00% | - |
| 108-88-3 | Toluene | 92.13 | 3.00E+01 | 4.53E+00 | 98.00% | 9.05E-02 |
| 108-90-7 | Chlorobenzene | 112.56 | 1.05E-01 | 1.94E-02 | 98.00% | 3.87E-04 |
| 110-54-3 | Hexane | 86.18 | 1.94E+00 | 2.74E-01 | 98.00% | 5.48E-03 |
| 127-18-4 | Perchloroethylene (tetrachloroethene) | 165.83 | 3.46E-01 | 9.40E-02 | 98.00% | 1.88E-03 |
| 1330-20-7 | Xylenes | 106.16 | 1.32E+01 | 2.29E+00 | 98.00% | 4.58E-02 |
| 56-23-5 | Carbon tetrachloride | 153.84 | - | - | 98.00% | - |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 60.11 | 8.04E+01 | 7.91E+00 | 98.00% | 1.58E-01 |
| 67-66-3 | Chloroform | 119.39 | - | - | 98.00% | - |
| 71-43-2 | Benzene | 78.11 | 1.72E+00 | 2.19E-01 | 98.00% | 4.39E-03 |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | 133.41 | - | - | 98.00% | - |
| 7439-97-6 | Mercury (total)(e) | 200.59 | 1.22E-04 | 4.01E-05 | 98.00% | 8.02E-07 |
| 75-00-3 | Chlorodifluoromethane | 86.47 | 7.96E-01 | 1.13E-01 | 98.00% | 2.25E-03 |
| 75-01-4 | Vinyl chloride | 62.5 | 7.03E-02 | 7.20E-03 | 98.00% | 1.44E-04 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 84.94 | 1.99E-01 | 2.77E-02 | 98.00% | 5.54E-04 |
| 75-15-0 | Carbon disulfide | 76.13 | 3.47E-01 | 4.33E-02 | 98.00% | 8.65E-04 |
| 75-34-3 | 1,1-Dichloroethane (ethylidene dichloride) | 98.97 | - | - | 98.00% | - |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 96.94 | - | - | 98.00% | - |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) ^[7] | 36.46 | 4.20E+01 | 2.51E+00 | 98.00% | 5.02E-02 |
| | 1,2-Dichloropropane (propylene dichloride) | 112.99 | 2.30E-02 | 4.26E-03 | 98.00% | 8.51E-05 |
| 78-93-3 | Methyl ethyl ketone | 72.11 | 4.01E+00 | 4.74E-01 | 98.00% | 9.47E-03 |
| 79-01-6 | Trichloroethylene (trichloroethane) | 131.4 | 1.69E-01 | 3.64E-02 | 98.00% | 7.28E-04 |
| 79-34-5 | 1, 1, 2, 2-Tetrachloroethane | 167.85 | - | _ | 98.00% | - |
| | | | | | | |

See Notes on Following Page

Notes

- [1] List Hazardous Air Pollutants (HAPs) per Title III Clean Air Act Amendments, 1990, and include compounds found in landfill gas, per AP-42 Table 2.4-1 "Default Concentrations for LFG Constituents."
- [2] Molecular weight obtained from AP-42 Table 2.4-1 "Default Concentrations for LFG Constituents."
- [3] Constituent concentration obtained from flare test conducted on June 22, 2020 By AtmAA Inc.
- [5] Flare Destruction Efficiency based on regulatory thresholds (99%).
- [6] Maximum Emissions from flare calculated using Equation 1, multiplied by the inverse Flare Destruction Efficiency and converted to corresponding units.
- [7] Concentration of HCL is based on AP-42 default, 2.4.4.2, (11/98)
- "Indicates compounds found in trace amounts, or less than detectable testing limits amounting to negligible results.

Yellow highlight data from AP-42 (2008) Tables 2.4-1 AND 2.4-1 "Default Concentrations for LFG Constituents with waste in place on or after 1992".

Example Calculation (Equation 1)

Total Pollutant Flow Rate (To Flare) = ((Concentration of compound [ppmv]/1,000,000)) * (Molecular Weight of Compound [g/mol]) * (Total LFG to Flare [cfm])

*(60 min * 24 hr. * 365 days) * (1 ton/2,000 lbs.)* (1 lb./ 453.6 g) * (1 mol/24.04L) * (28.32 L/1 CF)

John Smith Road Landfill - DEIR

Table P-2G

Concentration Summary for Landfill Fugitive TACs Emissions

| Peak Yearly DPM | Deposition for Reco | eptors | | | 201 | 18 Highest Recep | otors | | | 201 | 19 Highest Recep | otors | | 2020 Highest Receptors | | | | |
|-----------------|--|--|--|-------------|--------------------------|------------------|---------------------|----------|-------------|-------------|------------------|---------------------|----------|------------------------|-------------|-----------------|---------------------|----------|
| Receptor | 2018 Peak Dispersion Factors (µg/m³) | 2019 Peak Dispersion Factors (µg/m³) | 2020 Peak Dispersion Factors (µg/m³) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) |
| | | | | | Boundary | | | | | | | | | | | | | |
| PMI | 12,408,169 | 10,870,574 | 12,924,632 | P40 | Permiter 40 | 649980 | 4076627 | 215 | * | * | * | * | * | * | * | * | * | * |
| MEIR | 2,806,308 | 2,484,311 | 3,116,868 | RP_H31 | House 31 | 648659 | 4077241 | 206 | * | * | * | * | * | * | * | * | * | * |
| MEIW | 2,029,204 | 2,274,519 | 2,615,205 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189 | * | * | * | * | * | * | * | * | * | * |
| School 1 | 350,639 | 188,442 | 244,067 | CR_SC_13 | Rancho Santana School | 646059 | 4078443 | 129 | * | * | * | * | * | * | * | * | * | * |
| School 2 | 198,589 | 125,121 | 175,355 | CR_SC_14 | Future School | 647269 | 4075575 | 158 | * | * | * | * | * | * | * | * | * | * |

Peak deposition obtained from AERMOD.

^{*} Same as 2018

John Smith Road Landfill - DEIR

Table P-2G_G68

Concentration Summary for Landfill Fugitive TACs Emissions

| Peak Yearly Deposit | tion for Receptors | | | | 201 | 8 Highest Recep | otors | | | 201 | 9 Highest Recep | otors | | | Receptor ID Description (m) Northing (m) E | | | |
|---------------------|-------------------------|-------------------------|------------------------------|-------------|---------------|-----------------|--------------|----------|-------------|-------------|-----------------|--------------|----------|-------------|--|-------------|--------------|----------|
| | 2018 Peak Dispersion | 2019 Peak Dispersion | 2020 Peak Dispersion | | | UTM Easting | UTM | | | | UTM Easting | | | | | UTM Easting | _ | |
| Receptor | Factors (µg/m³) | Factors (µg/m³) | Factors (µg/m ³) | Receptor ID | Description | (m) | Northing (m) | Elev (m) | Receptor ID | Description | (m) | Northing (m) | Elev (m) | Receptor ID | Description | (m) | Northing (m) | Elev (m) |
| Nearest Potential | | | | | Grid Receptor | | | | | | | | | | | | | |
| Receptor | 5,808,936 | 5,349,452 | 6,450,904 | G68 | 68 | 649980 | 4076373 | 231 | * | * | * | * | * | * | * | * | * | * |

Peak deposition obtained from AERMOD.

^{*} Same as 2018

John Smith Road Landfill - DEIR Table P-2G_G68_242CFM

Concentration Summary for Landfill Fugitive TACs Emissions

| Peak Yearly Deposit | tion for Receptors | | | | 201 | 8 Highest Recep | otors | | | 201 | 9 Highest Recep | otors | | | Receptor ID Description UTM Easting (m) Northing (m) | | | |
|---------------------|--|--|--|-------------|---------------|-----------------|---------------------|----------|-------------|-------------|--------------------|---------------------|----------|-------------|--|---|---|----------|
| Receptor | 2018 Peak Dispersion Factors (µg/m³) | 2019 Peak Dispersion Factors (µg/m³) | 2020 Peak Dispersion Factors (µg/m³) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) | Receptor ID | | | | Elev (m) |
| Nearest Potential | | | | | Grid Receptor | | | | | | | | | | | | | |
| Receptor | 5,808,936 | 5,349,452 | 6,450,904 | G68 | 68 | 649980 | 4076373 | 231 | * | * | * | * | * | * | * | * | * | * |

Peak deposition obtained from AERMOD.

^{*} Same as 2018

John Smith Road Landfill - DEIR

Table P-2H

Calculating Maximum Individual Cancer Risk from Landfill Fugitive TACs Emissions (MICRr)

 $MICR^{[1]} = SUM [CP * Q_{tpv} * \chi/Q * CEF * MP * MWAF * 10^{-6}] =$

Where:

MICR: Maximum Individual Cancer Risk per million

CP: Cancer Potency in (mg/kg day)⁻¹

Qtpy: Emissions Rate in tons per year (tpy)

 χ /Q: Dispersion factor in (μ g/m³)/(lb/hr-sf) calculated using AERMOD for receptor of interest, where Q = 1 lb/hr-sf

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

CEF: Combined Exposure Factor, residential or worker (L/Kg-day)

MPr: Multipathway Adjustment Factor (dimensionless)

10⁻⁶: Micrograms to milligrams conversion and liters to cubic meters conversion.

| John Smith Road Landfill Individual Cancer Risk = | PMI 9.89E-06 | MEIR 2.38E-06 | MEIW 1.46E-07 | School 1 1.93E-07 | School 2 1.52E-07 | |
|---|---------------------|--------------------------|------------------|----------------------|----------------------|--------------------------|
| Factors: Dispersion Factor $(\chi/Q)^{[2]} =$ | PMI 1.29E+07 | MEIR 3.12E+06 | MEIW 2.62E+06 | School 1 3.51E+05 | School 2 1.99E+05 | $(\mu g/m^3)/(lb/hr-sf)$ |
| $ CEFr^{[3]} = CEFw^{[3]} = $ | 766.78 55.86 | (L/kg-day) (L/kg-day) | | | | |

| CAS No. | Volatile Carcinogenic Compounds ^[A] | MWAF ^[4] = | Q _{tpy} [B] | CP (mg/kg day) ⁻¹ [5] | MPr ^[6] | PMI MICR | MEIR MICR | MEIW MICR | School 1 MICR | School 2 MICR |
|----------|--|-----------------------|----------------------|-------------------------------------|--------------------|-------------|--------------|--------------|------------------|------------------|
| 79-34-5 | 1, 1, 2, 2-Tetrachloroethane | 1 | - | 2.00E-01 | 1 | - | - | - | - | - |
| 75-34-3 | 1,1-Dichloroethane (ethylidene dichloride) | 1 | - | 5.70E-03 | 1 | - | - | - | - | - |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 1 | - | 1.00E+00 | 1 | - | - | - | - | - |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 1 | 4.50E-10 | 7.20E-02 | 1 | 3.21E-07 | 7.74E-08 | 4.73E-09 | 8.70E-09 | 4.93E-09 |
| 78-87-5 | 1,2-Dichloropropane (propylene dichloride) | 1 | 2.58E-11 | 1.00E+00 | 1 | 2.55E-07 | 6.16E-08 | 3.77E-09 | 6.93E-09 | 3.93E-09 |
| 107-13-1 | Acrylonitrile | 1 | - | 1.00E+00 | 1 | - | - | - | - | - |
| 71-43-2 | Benzene | 1 | 1.33E-09 | 1.00E-01 | 1 | 1.32E-06 | 3.18E-07 | 1.94E-08 | 3.57E-08 | 2.02E-08 |
| 56-23-5 | Carbon tetrachloride | 1 | - | 1.50E-01 | 1 | - | - | - | - | - |
| 75-00-3 | Chlorodifluoromethane | 1 | 6.83E-10 | 1.00E+00 | 1 | 6.77E-06 | 1.63E-06 | 9.97E-08 | 1.84E-07 | 1.04E-07 |
| 67-66-3 | Chloroform | 1 | - | 1.90E-02 | 1 | - | - | - | - | - |
| 106-46-7 | Dichlorobenzene (1, 4-dichlorobenzene) | 1 | 6.36E-10 | 4.00E-02 | 1 | 2.52E-07 | 6.08E-08 | 3.71E-09 | 6.84E-09 | 3.87E-09 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 1 | 1.68E-10 | 3.50E-03 | 1 | 5.82E-09 | 1.40E-09 | 8.57E-11 | 1.58E-10 | 8.94E-11 |
| 100-41-4 | Ethylbenzene | 1 | 5.91E-09 | 8.70E-03 | 1 | 5.10E-07 | 1.23E-07 | 7.51E-09 | 1.38E-08 | 7.83E-09 |
| 106-93-4 | Ethylene dibromide (1, 2-dibromoethane) | 1 | 8.57E-11 | 2.50E-01 | 1 | 2.12E-07 | 5.12E-08 | 3.13E-09 | 5.76E-09 | 3.26E-09 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 1 | 5.69E-10 | 2.10E-02 | 1 | 1.18E-07 | 2.86E-08 | 1.75E-09 | 3.21E-09 | 1.82E-09 |
| 79-01-6 | Trichloroethylene (trichloroethane) | 1 | 2.20E-10 | 7.00E-03 | 1 | 1.53E-08 | 3.69E-09 | 2.25E-10 | 4.15E-10 | 2.35E-10 |
| 75-01-4 | Vinyl chloride | 1 | 4.36E-11 | 2.70E-01 | 1 | 1.17E-07 | 2.81E-08 | 1.72E-09 | 3.16E-09 | 1.79E-09 |
| | | | | | Total | 9.89E-06 | 2.38E-06 | 1.46E-07 | 2.68E-07 | 1.52E-07 |

Highlighted cells indicates assumed values of 1, where no data was available.

^[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment,

Instructions for Calculating MICR, Page 12.

^[2] Obtained from AERMOD. See Table P-2G.

^[3] from SCAQMD Permit Application Package N, Version 8.1 page 14. "Combined Exposure Factor" for 70 years, Table 4.1E.

^[4] https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Molecular Weight Adjustment Factor."

^[5] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Cancer Potency Factor."

^[6] SCAQMD Permit Application Package N, Version 8.1 Package N, Page 10. "Multipath way Adjustment" factors - Cancer, Table 3.1. Assumes inhalation pathway only.

[[]A] Volatile Carcinogenic Compounds derived from Title III Clean Air Act Amendments, 1990, and including compounds found in LFG, as determined by AP 42 Table 2.4-1 "Default Concentrations for Landfill Gas Constituents" and cross-referenced with California Proposition 65.

[[]B] Maximum emissions rate (tons/year) obtained from Table P-1.7.

John Smith Road Landfill - DEIR

Table P-2H G68

Calculating Maximum Individual Cancer Risk from Landfill Fugitive TACs Emissions (MICRr)

$$MICR^{[1]} = SUM [CP * Q_{tpy} * \chi/Q * CEF * MP * MWAF * 10^{-6}] =$$

Where:

MICR: Maximum Individual Cancer Risk per million

CP: Cancer Potency in (mg/kg day)⁻¹

Qtpy: Emissions Rate in tons per year (tpy)

 χ /Q: Dispersion factor in (µg/m³)/(lb/hr-sf) calculated using AERMOD for receptor of interest, where Q = 1 lb/hr-sf MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

CEF: Combined Exposure Factor, residential or worker (L/Kg-day)

MPr: Multipathway Adjustment Factor (dimensionless)

10⁻⁶: Micrograms to milligrams conversion and liters to cubic meters conversion.

Nearest **Potential**

Receptor

John Smith Road Landfill Individual Cancer Risk = 4.94E-06

> **PMI Factors:** Dispersion Factor $(\chi/Q)^{[2]} = 6.45E+06$ $(\mu g/m^3)/(lb/hr-sf)$ CEFr^[3] 766.78 (L/kg-day) CEFw^[3] 55.86 (L/kg-day)

| CAS No. | Volatile Carcinogenic Compounds ^[A] | MWAF ^[4] = | Q _{tpy} ^[B] | CP (mg/kg day) ^{-1 [5]} | MPr ^[6] | PMI MICR |
|----------|--|-----------------------|---------------------------------|-------------------------------------|--------------------|-------------|
| 79-34-5 | 1, 1, 2, 2-Tetrachloroethane | 1 | - | 2.00E-01 | 1 | - |
| 75-34-3 | 1,1-Dichloroethane (ethylidene dichloride) | 1 | - | 5.70E-03 | 1 | - |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 1 | - | 1.00E+00 | 1 | - |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 1 | 4.50E-10 | 7.20E-02 | 1 | 1.60E-07 |
| 78-87-5 | 1,2-Dichloropropane (propylene dichloride) | 1 | 2.58E-11 | 1.00E+00 | 1 | 1.28E-07 |
| 107-13-1 | Acrylonitrile | 1 | - | 1.00E+00 | 1 | - |
| 71-43-2 | Benzene | 1 | 1.33E-09 | 1.00E-01 | 1 | 6.57E-07 |
| 56-23-5 | Carbon tetrachloride | 1 | - | 1.50E-01 | 1 | - |
| 75-00-3 | Chlorodifluoromethane | 1 | 6.83E-10 | 1.00E+00 | 1 | 3.38E-06 |
| 67-66-3 | Chloroform | 1 | - | 1.90E-02 | 1 | - |
| 106-46-7 | Dichlorobenzene (1, 4-dichlorobenzene) | 1 | 6.36E-10 | 4.00E-02 | 1 | 1.26E-07 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 1 | 1.68E-10 | 3.50E-03 | 1 | 2.90E-09 |
| 100-41-4 | Ethylbenzene | 1 | 5.91E-09 | 8.70E-03 | 1 | 2.54E-07 |
| 106-93-4 | Ethylene dibromide (1, 2-dibromoethane) | 1 | 8.57E-11 | 2.50E-01 | 1 | 1.06E-07 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 1 | 5.69E-10 | 2.10E-02 | 1 | 5.91E-08 |
| 79-01-6 | Trichloroethylene (trichloroethane) | 1 | 2.20E-10 | 7.00E-03 | 1 | 7.63E-09 |
| 75-01-4 | Vinyl chloride | 1 | 4.36E-11 | 2.70E-01 | 1 | 5.82E-08 |

4.94E-06 Total

Highlighted cells indicates assumed values of 1, where no data was available.

- [1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating MICR, Page 12.
 [2] Obtained from AERMOD. See Table P-2G.
- [3] from SCAQMD Permit Application Package N, Version 8.1 page 14. "Combined Exposure Factor" for 70 years, Table 4.1E.
- [4] https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Molecular Weight Adjustment Factor."
- [5] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB A pproved Risk Assessment Health Values, "Cancer Potency Factor."
- [6] SCAQMD Permit Application Package N, Version 8.1 Package N, Page 10. "Multipath way Adjustment" factors Cancer, Table 3.1. Assumes inhalation
- [A] Volatile Carcinogenic Compounds derived from Title III Clean Air Act Amendments, 1990, and including compounds found in LFG, as determined by AP 42 Table 2.4-1 "Default Concentrations for Landfill Gas Constituents" and cross-referenced with California Proposition 65.
- [B] Maximum emissions rate (tons/year) obtained from Table P-1.7.

John Smith Road Landfill - DEIR Table P-2H G68 242CFM

Calculating Maximum Individual Cancer Risk from Landfill Fugitive TACs Emissions (MICRr)

 $MICR^{[1]} = SUM [CP * Q_{tpy} * \chi/Q * CEF * MP * MWAF * 10^{-6}] =$

Where:

MICR: Maximum Individual Cancer Risk per million

CP: Cancer Potency in (mg/kg day)⁻¹

Qtpy: Emissions Rate in tons per year (tpy)

 χ /Q: Dispersion factor in $(\mu g/m^3)/(lb/hr-sf)$ calculated using AERMOD for receptor of interest, where Q = 1 lb/hr-sf

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

CEF: Combined Exposure Factor, residential or worker (L/Kg-day)

MPr: Multipathway Adjustment Factor (dimensionless)

 10^{-6} : Micrograms to milligrams conversion and liters to cubic meters conversion.

Nearest Potential Receptor John Smith Road Landfill Individual Cancer Risk = 7.47E-06

> Factors: Dispersion Factor $(\chi/Q)^{[2]} = 6.45E+06 (\mu g/m^3)/(lb/hr-sf)$ CEFr^[3] (L/kg-day) CEFw^[3] (L/kg-day)

| CAS No. | Volatile Carcinogenic Compounds ^[A] | MWAF ^[4] = | Q _{tpy} ^[B] | CP (mg/kg day) ⁻¹ [5] | MPr ^[6] | PMI MICR |
|----------|--|-----------------------|---------------------------------|-------------------------------------|--------------------|-------------|
| 79-34-5 | 1, 1, 2, 2-Tetrachloroethane | 1 | - | 2.00E-01 | 1 | - |
| 75-34-3 | 1,1-Dichloroethane (ethylidene dichloride) | 1 | - | 5.70E-03 | 1 | - |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 1 | - | 1.00E+00 | 1 | - |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 1 | 6.80E-10 | 7.20E-02 | 1 | 2.42E-07 |
| 78-87-5 | 1,2-Dichloropropane (propylene dichloride) | 1 | 3.90E-11 | 1.00E+00 | 1 | 1.93E-07 |
| 107-13-1 | Acrylonitrile | 1 | - | 1.00E+00 | 1 | - |
| 71-43-2 | Benzene | 1 | 2.01E-09 | 1.00E-01 | 1 | 9.94E-07 |
| 56-23-5 | Carbon tetrachloride | 1 | - | 1.50E-01 | 1 | - |
| 75-00-3 | Chlorodifluoromethane | 1 | 1.03E-09 | 1.00E+00 | 1 | 5.11E-06 |
| 67-66-3 | Chloroform | 1 | - | 1.90E-02 | 1 | - |
| 106-46-7 | Dichlorobenzene (1, 4-dichlorobenzene) | 1 | 9.62E-10 | 4.00E-02 | 1 | 1.90E-07 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 1 | 2.54E-10 | 3.50E-03 | 1 | 4.39E-09 |
| 100-41-4 | Ethylbenzene | 1 | 8.94E-09 | 8.70E-03 | 1 | 3.85E-07 |
| 106-93-4 | Ethylene dibromide (1, 2-dibromoethane) | 1 | 1.30E-10 | 2.50E-01 | 1 | 1.60E-07 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 1 | 8.61E-10 | 2.10E-02 | 1 | 8.94E-08 |
| 79-01-6 | Trichloroethylene (trichloroethane) | 1 | 3.33E-10 | 7.00E-03 | 1 | 1.15E-08 |
| 75-01-4 | Vinyl chloride | 1 | 6.59E-11 | 2.70E-01 | 1 | 8.80E-08 |
| | | - | | - | Total | 7.47E-06 |

Highlighted cells indicates assumed values of 1, where no data was available.

John Smith Road Landfill Attachment P-1 Page 1 of 1 DEIR - Appendix B Lawrence & Associates

^[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment,

Instructions for Calculating MICR, Page 12. [2] Obtained from AERMOD. See Table P-2G.

^[3] from SCAQMD Permit Application Package N, Version 8.1 page 14. "Combined Exposure Factor" for 70 years, Table 4.1E.
[4] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB A pproved Risk Assessment Health Values, "Molecular Weight Adjustment Factor."

^[5] https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB A pproved Risk Assessment Health Values, "Cancer Potency Factor."

^[6] SCAQMD Permit Application Package N, Version 8.1 Package N, Page 10. "Multipath way Adjustment" factors - Cancer, Table 3.1. Assumes inhalation pathway only.

[[]A] Volatile Carcinogenic Compounds derived from Title III Clean Air Act Amendments, 1990, and including compounds found in LFG, as determined by AP 42 Table 2.4-1 "Default Concentrations for Landfill Gas Constituents" and cross-referenced with California Proposition 65.

[[]B] Maximum emissions rate (tons/year) obtained from Table P-1.7.

John Smith Road Landfill - DEIR

Table P-2I

Chronic Hazard Index from Landfill Fugitive TACs Emissions (HIC)

 $HIC^{[1]} = ENDPOINT SUM (Q_{tpy} * \chi/Q * MWAF * MP * (1/REL)) =$

HIC: Hazard Index - Chronic

Qtpy: Emissions Rate in tons per year

 χ /Q: Dispersion factor in (μ g/m3)/(lb/hr-sf) calculated using AERMOD for receptor of interest, where Q = 1 lb/hr-sf MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

MP: Multipathway Adjustment Factor (dimensionless)

REL: Reference Exposure Level (μg/m³)

HIC Endpoint Sum Summary for Landfill Flare TAC Emissions:

| | PMI | MEIR | MEIW | School 1 | School 1 |
|-------------------------------|----------|----------|----------|----------|----------|
| Chronic Hazard Endpoint Sum = | 0.031518 | 0.007600 | 0.007600 | 0.000854 | 0.000484 |
| Receptor ID | P40 | RP_H31 | CR_WP_2 | CR_SC_13 | CR_SC_14 |
| Peak Concentration Year | 2020 | 2019 | 2019 | 2018 | 2020 |

| CAS | TACs ^[2] | Q _(lb/hr-sf) ^[3] | MP ^[4] | MWAF ^[5] |
|-----------|---|--|-------------------|---------------------|
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | - | 1 | 1 |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | - | 1 | 1 |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 4.50E-10 | 1 | 1 |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 4.79E-08 | 1 | 1 |
| 107-13-1 | Acrylonitrile | - | 1 | 1 |
| 71-43-2 | Benzene | 1.33E-09 | 1 | 1 |
| 75-15-0 | Carbon disulfide | 2.62E-10 | 1 | 1 |
| 56-23-5 | Carbon tetrachloride | - | 1 | 1 |
| 108-90-7 | Chlorobenzene | 1.17E-10 | 1 | 1 |
| 75-00-3 | Chloroethane (ethyl chloride) | 6.83E-10 | 1 | 1 |
| 67-66-3 | Chloroform | - | 1 | 1 |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 6.36E-10 | 1 | 1 |
| 75-09-2 | Dichloromethane (methylene chloride) | 1.68E-10 | 1 | 1 |
| 100-41-4 | Ethylbenzene | 5.91E-09 | 1 | 1 |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | 8.57E-11 | 1 | 1 |
| 110-54-3 | Hexane | 1.66E-09 | 1 | 1 |
| 7439-97-6 | Mercury (total)(e) | 2.43E-13 | 1 | 1 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 5.69E-10 | 1 | 1 |
| 79-01-6 | Trichloroethylene (trichloroethene) | 2.20E-10 | 1 | 1 |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | 1.52E-08 | 1 | 1 |
| 108-88-3 | Toluene | 2.74E-08 | 1 | 1 |
| 1330-20-7 | Xylenes | 1.39E-08 | 1 | 1 |

John Smith Road Landfill - DEIR Table P-2I Chronic Hazard Index from Landfill Fugitive TACs Emissions (HIC)

| CAS | TACs | | | | RELs (μg/i | m³) from OEHH | A/ARB ^[6] | | | |
|-----------|---|------------|----------------|-----------|------------|---------------|----------------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | 1.00E+03 | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 7.00E+01 | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 4.00E+02 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 7.00E+03 | | 7.00E+03 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | 5.00E+03 |
| 71-43-2 | Benzene | | | | | 3.00E+00 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 8.00E+02 | 8.00E+02 | |
| 56-23-5 | Carbon tetrachloride | 4.00E+01 | | | | | | 4.00E+01 | 4.00E+01 | |
| 108-90-7 | Chlorobenzene | 1.00E+03 | | | | | 1.00E+03 | | 1.00E+03 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 3.00E+04 | | | | | | | 3.00E+04 | |
| 67-66-3 | Chloroform | 3.00E+02 | | | | | 3.00E+02 | | 3.00E+02 | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 8.00E+02 | | | | | 8.00E+02 | 8.00E+02 | | 8.00E+02 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 4.00E+02 | | | | | 4.00E+02 | | |
| 100-41-4 | Ethylbenzene | 2.00E+03 | 2.00E+03 | 2.00E+03 | | | 2.00E+03 | | 2.00E+03 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 8.00E-01 | |
| 110-54-3 | Hexane | | | | | | | 7.00E+03 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 3.00E-02 | 3.00E-02 | 3.00E-02 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 3.50E+01 | | | | | 3.50E+01 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 6.00E+02 | | | 6.00E+02 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | | | | | | | 9.00E+00 |
| 108-88-3 | Toluene | | | | 4.20E+02 | | | | | |
| 1330-20-7 | Xylenes | | | • | 7.00E+02 | | | 7.00E+02 | | 7.00E+02 |

John Smith Road Landfill - DEIR Table P-2I Chronic Hazard Index from Landfill Fugitive TACs Emissions (HIC)

Factors: PMI
Dispersion Factor $(\chi/Q)^{[7]} = \frac{1.29E+07}{(\mu g/m^3)/(lb/hr-sf)}$

| CAS | TACs | | | H | lazard Indices | - Chronic (HIC |) - Calculated | | | |
|-----------|---|------------|----------------|-----------|----------------|----------------|----------------|----------|--------------|-------------|
| CAS | IACS | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 1.45E-05 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 8.85E-05 | | 8.85E-05 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | |
| 71-43-2 | Benzene | | | | | 5.72E-03 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 4.23E-06 | 4.23E-06 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | | |
| 108-90-7 | Chlorobenzene | 1.52E-06 | | | | | 1.52E-06 | | 1.52E-06 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 2.94E-07 | | | | | | | 2.94E-07 | |
| 67-66-3 | Chloroform | | | | | | | | | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 1.03E-05 | | | | | 1.03E-05 | 1.03E-05 | | 1.03E-05 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 5.42E-06 | | | | | 5.42E-06 | | |
| 100-41-4 | Ethylbenzene | 3.82E-05 | 3.82E-05 | 3.82E-05 | | | 3.82E-05 | | 3.82E-05 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 1.38E-03 | |
| 110-54-3 | Hexane | | | | | | | 3.06E-06 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 1.05E-04 | 1.05E-04 | 1.05E-04 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | | | | 2.10E-04 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 4.74E-06 | | | 4.74E-06 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | | | | | | | 2.18E-02 |
| 108-88-3 | Toluene | | | | 8.44E-04 | | | | | |
| 1330-20-7 | Xylenes | | | | 2.56E-04 | | - | 2.56E-04 | | 2.56E-04 |
| | Endpoint Sum Totals | 6.48E-05 | 4.36E-05 | 3.82E-05 | 1.10E-03 | 5.72E-03 | 4.53E-04 | 3.88E-04 | 1.62E-03 | 2.21E-02 |
| | Total | 3.15E-02 | | | | · | · | · | | · |

John Smith Road Landfill - DEIR Table P-2I

Chronic Hazard Index from Landfill Fugitive TACs Emissions (HIC)

Factors: MEIR

Dispersion Factor $(\chi/Q)^{[7]} = \frac{3.12E+06}{(\mu g/m^3)/(lb/hr-sf)}$

| CAS | TACs | | | E | Iazard Indices | s - Chronic (HIC |) - Calculated | | | |
|-----------|---|------------|----------------|-----------|----------------|------------------|----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 3.50E-06 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 2.13E-05 | | 2.13E-05 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | |
| 71-43-2 | Benzene | | | | | 1.38E-03 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 1.02E-06 | 1.02E-06 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | | |
| 108-90-7 | Chlorobenzene | 3.65E-07 | | | | | 3.65E-07 | | 3.65E-07 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 7.09E-08 | | | | | | | 7.09E-08 | |
| 67-66-3 | Chloroform | | | | | | | | | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 2.48E-06 | | | | | 2.48E-06 | 2.48E-06 | | 2.48E-06 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 1.31E-06 | | | | | 1.31E-06 | | |
| 100-41-4 | Ethylbenzene | 9.21E-06 | 9.21E-06 | 9.21E-06 | | | 9.21E-06 | | 9.21E-06 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 3.34E-04 | |
| 110-54-3 | Hexane | | | | | | | 0.00E+00 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 2.52E-05 | 2.52E-05 | 2.52E-05 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | | | | 5.07E-05 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 1.14E-06 | | | 1.14E-06 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | | | | | | | 5.26E-03 |
| 108-88-3 | Toluene | | | | 2.03E-04 | | | | | |
| 1330-20-7 | Xylenes | | | | 6.17E-05 | | | 6.17E-05 | | 6.17E-05 |
| | Endpoint Sum Totals | 1.56E-05 | 1.05E-05 | 9.21E-06 | 2.66E-04 | 1.38E-03 | 1.09E-04 | 9.28E-05 | 3.91E-04 | 5.32E-03 |
| | Total | 7.60E-03 | | | | | | | | |

John Smith Road Landfill - DEIR Table P-2I **Chronic Hazard Index from Landfill Fugitive TACs Emissions (HIC)**

MEIW **Factors:**

Dispersion Factor $(\chi/Q)^{[7]} = 2.62E+06$ $(\mu g/m^3)/(lb/hr-sf)$

| 0.40 | T.C. | | | Н | lazard Indices | - Chronic (HIC |) - Calculated | | | |
|-----------|---|------------|----------------|-----------|----------------|----------------|----------------|----------|--------------|-------------|
| CAS | TACs | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 2.94E-06 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 1.79E-05 | | 1.79E-05 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | |
| 71-43-2 | Benzene | | | | | 1.16E-03 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 8.57E-07 | 8.57E-07 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | | |
| 108-90-7 | Chlorobenzene | 3.07E-07 | | | | | 3.07E-07 | | 3.07E-07 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 5.95E-08 | | | | | | | 5.95E-08 | |
| 67-66-3 | Chloroform | | | | | | | | | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 2.08E-06 | | | | | 2.08E-06 | 2.08E-06 | | 2.08E-06 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 1.10E-06 | | | | | 1.10E-06 | | |
| 100-41-4 | Ethylbenzene | 7.73E-06 | - | 7.73E-06 | | | 7.73E-06 | | 7.73E-06 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 2.80E-04 | |
| 110-54-3 | Hexane | | | | | | | 0.00E+00 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 2.12E-05 | 2.12E-05 | 2.12E-05 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | | | | 4.25E-05 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 9.60E-07 | | | 9.60E-07 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | | | | | | | 4.41E-03 |
| 108-88-3 | Toluene | | | | 1.71E-04 | | | | | |
| 1330-20-7 | Xylenes | | | | 5.18E-05 | | - | 5.18E-05 | | 5.18E-05 |
| | Endpoint Sum Totals | 1.31E-05 | 1.10E-06 | 7.73E-06 | 2.23E-04 | 1.16E-03 | 9.17E-05 | 7.79E-05 | 3.28E-04 | 4.47E-03 |
| | Total | 6.37E-03 | | | | | | | | |

John Smith Road Landfill - DEIR Table P-2I

Chronic Hazard Index from Landfill Fugitive TACs Emissions (HIC)

Factors: School 1

Dispersion Factor $(\chi/Q)^{[7]} = \frac{3.51E+05}{(\mu g/m^3)/(lb/hr-sf)}$

| CAS | TACs | Hazard Indices - Chronic (HIC) - Calculated | | | | | | | | |
|-----------|---|---|----------------|-----------|----------|-------------|----------|----------|--------------|-------------|
| | | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 3.94E-07 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 2.40E-06 | | 2.40E-06 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | |
| 71-43-2 | Benzene | | | | | 1.55E-04 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 1.15E-07 | 1.15E-07 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | | |
| 108-90-7 | Chlorobenzene | 4.11E-08 | | | | | 4.11E-08 | | 4.11E-08 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 7.98E-09 | | | | | | | 7.98E-09 | |
| 67-66-3 | Chloroform | | | | | | | | | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 2.79E-07 | | | | | 2.79E-07 | 2.79E-07 | | 2.79E-07 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 1.47E-07 | | | | | 1.47E-07 | | |
| 100-41-4 | Ethylbenzene | 1.04E-06 | - | 1.04E-06 | | | 1.04E-06 | | 1.04E-06 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 3.76E-05 | |
| 110-54-3 | Hexane | | | | | | | 0.00E+00 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 2.84E-06 | 2.84E-06 | 2.84E-06 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | | | | 5.70E-06 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 1.29E-07 | | | 1.29E-07 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | | | | | | | 5.92E-04 |
| 108-88-3 | Toluene | | | | 2.29E-05 | | | | | |
| 1330-20-7 | Xylenes | | | | 6.94E-06 | | | 6.94E-06 | | 6.94E-06 |
| • | Endpoint Sum Totals | 1.76E-06 | 1.47E-07 | 1.04E-06 | 3.00E-05 | 1.55E-04 | 1.23E-05 | 1.04E-05 | 4.40E-05 | 5.99E-04 |
| | Total | 8.54E-04 | | | | | | | | |

John Smith Road Landfill - DEIR Table P-2I

Chronic Hazard Index from Landfill Fugitive TACs Emissions (HIC)

actors: School 2

Dispersion Factor $(\chi/Q)^{[7]} = \frac{1.99E+05}{(\mu g/m^3)/(lb/hr-sf)}$

| CAS | TACs | Hazard Indices - Chronic (HIC) - Calculated | | | | | | | | |
|-----------|---|---|----------------|-----------|----------|-------------|----------|----------|--------------|-------------|
| | | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 2.23E-07 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 1.36E-06 | | 1.36E-06 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | |
| 71-43-2 | Benzene | | | | | 8.80E-05 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 6.50E-08 | 6.50E-08 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | | |
| 108-90-7 | Chlorobenzene | 2.33E-08 | | | | | 2.33E-08 | | 2.33E-08 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 4.52E-09 | | | | | | | 4.52E-09 | |
| 67-66-3 | Chloroform | | | | | | | | | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 1.58E-07 | | | | | 1.58E-07 | 1.58E-07 | | 1.58E-07 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 8.32E-08 | | | | | 8.32E-08 | | |
| 100-41-4 | Ethylbenzene | 5.87E-07 | - | 5.87E-07 | | | 5.87E-07 | | 5.87E-07 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 2.13E-05 | |
| 110-54-3 | Hexane | | | | | | | 0.00E+00 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 1.61E-06 | 1.61E-06 | 1.61E-06 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | | | | 3.23E-06 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 7.29E-08 | | | 7.29E-08 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | • | | | | | | 3.35E-04 |
| 108-88-3 | Toluene | | | • | 1.30E-05 | | | | | |
| 1330-20-7 | Xylenes | | | • | 3.93E-06 | | | 3.93E-06 | | 3.93E-06 |
| | Endpoint Sum Totals | 9.96E-07 | 8.32E-08 | 5.87E-07 | 1.70E-05 | 8.80E-05 | 6.96E-06 | 5.92E-06 | 2.49E-05 | 3.39E-04 |
| | Total | 4.84E-04 | | · | · | · | | · | · | · |

[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating HIC, Page 19.

^[2] Toxic Air Contaminants TACs.

^[3] Maximum emission rates in tons per year is the sum of current and future flare potential to emit.

^[4] SCAQMD Permit Application package N, Version 8.1 page 12. "Multipathway adjustment" factors - chronic HI, Table 3.2. No value tabulated, therefore assumed inhalation pathway only.

^[5] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1 - "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values."

^[6] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/totables.pdf, Table 4 - "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs."

^[7] Obtained from AERMOD. Dispersion Factor calculated for annual concentration at residential receptor for location at: PMI at P46 for 2020, MEIR at RP_H1 for 2019, MIEW CR_WP_2 for 2019, School 1 at CR_SC_13 for 2018, and School 2 at

John Smith Road Landfill - DEIR Table P-2I_G68

Chronic Hazard Index from Landfill Fugitive TACs Emissions (HIC)

$$HIC^{[1]} = ENDPOINT SUM (Q_{tpy} * \chi/Q * MWAF * MP * (1/REL)) =$$

HIC: Hazard Index - Chronic

Qtpy: Emissions Rate in tons per year

 χ /Q: Dispersion factor in (μ g/m3)/(lb/hr-sf) calculated using AERMOD for receptor of interest, where Q = 1 lb/hr-sf MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

MP: Multipathway Adjustment Factor (dimensionless)

REL: Reference Exposure Level (μg/m³)

HIC Endpoint Sum Summary for Landfill Flare TAC Emissions:

| | Nearest Pot. |
|-------------------------------|--------------|
| | Recept. |
| Chronic Hazard Endpoint Sum = | 0.015731 |
| Receptor ID | G68 |
| Peak Concentration Year | 2020 |

| CAS | TACs ^[2] | Q _(lb/hr-sf) ^[3] | MP ^[4] | MWAF ^[5] |
|-----------|---|--|-------------------|---------------------|
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | - | 1 | 1 |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | - | 1 | 1 |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 4.50E-10 | 1 | 1 |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 4.79E-08 | 1 | 1 |
| 107-13-1 | Acrylonitrile | - | 1 | 1 |
| 71-43-2 | Benzene | 1.33E-09 | 1 | 1 |
| 75-15-0 | Carbon disulfide | 2.62E-10 | 1 | 1 |
| 56-23-5 | Carbon tetrachloride | - | 1 | 1 |
| 108-90-7 | Chlorobenzene | 1.17E-10 | 1 | 1 |
| 75-00-3 | Chloroethane (ethyl chloride) | 6.83E-10 | 1 | 1 |
| 67-66-3 | Chloroform | - | 1 | 1 |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 6.36E-10 | 1 | 1 |
| 75-09-2 | Dichloromethane (methylene chloride) | 1.68E-10 | 1 | 1 |
| 100-41-4 | Ethylbenzene | 5.91E-09 | 1 | 1 |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | 8.57E-11 | 1 | 1 |
| 110-54-3 | Hexane | 1.66E-09 | 1 | 1 |
| 7439-97-6 | Mercury (total)(e) | 2.43E-13 | 1 | 1 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 5.69E-10 | 1 | 1 |
| 79-01-6 | Trichloroethylene (trichloroethene) | 2.20E-10 | 1 | 1 |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | 1.52E-08 | 1 | 1 |
| 108-88-3 | Toluene | 2.74E-08 | 1 | 1 |
| 1330-20-7 | Xylenes | 1.39E-08 | 1 | 1 |

| CAS | TACs | RELs (µg/m³) from OEHHA/ARB ^[6] | | | | | | | | |
|-----------|---|--|----------------|-----------|----------|-------------|----------|----------|--------------|-------------|
| | | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | 1.00E+03 | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 7.00E+01 | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 4.00E+02 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 7.00E+03 | | 7.00E+03 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | 5.00E+03 |
| 71-43-2 | Benzene | | | | | 3.00E+00 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 8.00E+02 | 8.00E+02 | |
| 56-23-5 | Carbon tetrachloride | 4.00E+01 | | | | | | 4.00E+01 | 4.00E+01 | |
| 108-90-7 | Chlorobenzene | 1.00E+03 | | | | | 1.00E+03 | | 1.00E+03 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 3.00E+04 | | | | | | | 3.00E+04 | |
| 67-66-3 | Chloroform | 3.00E+02 | | | | | 3.00E+02 | | 3.00E+02 | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 8.00E+02 | | | | | 8.00E+02 | 8.00E+02 | | 8.00E+02 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 4.00E+02 | | | | | 4.00E+02 | | |
| 100-41-4 | Ethylbenzene | 2.00E+03 | 2.00E+03 | 2.00E+03 | | | 2.00E+03 | | 2.00E+03 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 8.00E-01 | |
| 110-54-3 | Hexane | | | | | | | 7.00E+03 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 3.00E-02 | 3.00E-02 | 3.00E-02 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 3.50E+01 | | | | | 3.50E+01 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 6.00E+02 | | | 6.00E+02 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | | | | · | | | 9.00E+00 |
| 108-88-3 | Toluene | | | | 4.20E+02 | | | | | |
| 1330-20-7 | Xylenes | | | | 7.00E+02 | | | 7.00E+02 | | 7.00E+02 |

Nearest Pot.

Factors: Recept

Dispersion Factor $(\chi/Q)^{[7]} = \frac{6.45E+06}{(\mu g/m^3)/(lb/hr-sf)}$

| CAS | TAC | | | | Iazard Indices | s - Chronic (HIC |) - Calculated | | · | • |
|-----------|---|------------|----------------|-----------|----------------|------------------|----------------|----------|--------------|-------------|
| CAS | TACs | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 7.25E-06 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 4.41E-05 | | 4.41E-05 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | |
| 71-43-2 | Benzene | | | | | 2.86E-03 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 2.11E-06 | 2.11E-06 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | | |
| 108-90-7 | Chlorobenzene | 7.56E-07 | | | | | 7.56E-07 | | 7.56E-07 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 1.47E-07 | | | | | | | 1.47E-07 | |
| 67-66-3 | Chloroform | | | | | | | | | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 5.13E-06 | | | | | 5.13E-06 | 5.13E-06 | | 5.13E-06 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 2.70E-06 | | | | | 2.70E-06 | | |
| 100-41-4 | Ethylbenzene | 1.91E-05 | 1.91E-05 | 1.91E-05 | | | 1.91E-05 | | 1.91E-05 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 6.91E-04 | |
| 110-54-3 | Hexane | | | | | | | 1.53E-06 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 5.22E-05 | 5.22E-05 | 5.22E-05 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | | | | 1.05E-04 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 2.37E-06 | | | 2.37E-06 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | | | | | | | 1.09E-02 |
| 108-88-3 | Toluene | | | - | 4.21E-04 | | | | | |
| 1330-20-7 | Xylenes | | | <u> </u> | 1.28E-04 | | - | 1.28E-04 | | 1.28E-04 |
| | Endpoint Sum Totals | 3.24E-05 | 2.18E-05 | 1.91E-05 | 5.51E-04 | 2.86E-03 | 2.26E-04 | 1.94E-04 | 8.10E-04 | 1.10E-02 |
| | Total | 1.57E-02 | | • | • | • | | • | | • |

[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating HIC, Page 19.

^[2] Toxic Air Contaminants TACs.

^[3] Maximum emission rates in tons per year is the sum of current and future flare potential to emit.

^[4] SCAQMD Permit Application package N, Version 8.1 page 12. "Multipathway adjustment" factors - chronic HI, Table 3.2. No value tabulated, therefore assumed inhalation pathway only.

^[5] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1 - "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values."

^[6] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/totables.pdf, Table 4 - "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs."

^[7] Obtained from AERMOD. Dispersion Factor calculated for annual concentration at residential receptor for location at: PMI at P46 for 2020, MEIR at RP H1 for 2019, MIEW CR WP 2 for 2019, School 1 at CR SC 13 for 2018, and School 2 at

John Smith Road Landfill - DEIR Table P-2I_G68_242CFM

Chronic Hazard Index from Landfill Fugitive TACs Emissions (HIC)

 $HIC^{[1]} = ENDPOINT SUM (Q_{tpy} * \chi/Q * MWAF * MP * (1/REL)) =$

HIC: Hazard Index - Chronic

Qtpy: Emissions Rate in tons per year

 χ /Q: Dispersion factor in (μ g/m3)/(lb/hr-sf) calculated using AERMOD for receptor of interest, where Q = 1 lb/hr-sf MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

MP: Multipathway Adjustment Factor (dimensionless)

REL: Reference Exposure Level (μg/m³)

HIC Endpoint Sum Summary for Landfill Flare TAC Emissions:

| | Nearest Pot. |
|-------------------------------|--------------|
| | Recept. |
| Chronic Hazard Endpoint Sum = | 0.023793 |
| Receptor ID | G68 |
| Peak Concentration Year | 2020 |

| CAS | TACs ^[2] | Q _(lb/hr-sf) ^[3] | MP ^[4] | MWAF ^[5] |
|-----------|---|--|-------------------|---------------------|
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | - | 1 | 1 |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | - | 1 | 1 |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 6.80E-10 | 1 | 1 |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 7.25E-08 | 1 | 1 |
| 107-13-1 | Acrylonitrile | - | 1 | 1 |
| 71-43-2 | Benzene | 2.01E-09 | 1 | 1 |
| 75-15-0 | Carbon disulfide | 3.96E-10 | 1 | 1 |
| 56-23-5 | Carbon tetrachloride | - | 1 | 1 |
| 108-90-7 | Chlorobenzene | 1.77E-10 | 1 | 1 |
| 75-00-3 | Chloroethane (ethyl chloride) | 1.03E-09 | 1 | 1 |
| 67-66-3 | Chloroform | - | 1 | 1 |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 9.62E-10 | 1 | 1 |
| 75-09-2 | Dichloromethane (methylene chloride) | 2.54E-10 | 1 | 1 |
| 100-41-4 | Ethylbenzene | 8.94E-09 | 1 | 1 |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | 1.30E-10 | 1 | 1 |
| 110-54-3 | Hexane | 2.51E-09 | 1 | 1 |
| 7439-97-6 | Mercury (total)(e) | 3.67E-13 | 1 | 1 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 8.61E-10 | 1 | 1 |
| 79-01-6 | Trichloroethylene (trichloroethene) | 3.33E-10 | 1 | 1 |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | 2.30E-08 | 1 | 1 |
| 108-88-3 | Toluene | 4.15E-08 | 1 | 1 |
| 1330-20-7 | Xylenes | 2.10E-08 | 1 | 1 |

John Smith Road Landfill - DEIR Table P-2I_G68_242CFM Chronic Hazard Index from Landfill Fugitive TACs Emissions (HIC)

| CAS | TACs | | | | RELs (μg/ι | m³) from OEHH | A/ARB ^[6] | | | |
|-----------|---|------------|----------------|-----------|------------|---------------|----------------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | 1.00E+03 | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 7.00E+01 | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 4.00E+02 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 7.00E+03 | | 7.00E+03 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | 5.00E+03 |
| 71-43-2 | Benzene | | | | | 3.00E+00 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 8.00E+02 | 8.00E+02 | |
| 56-23-5 | Carbon tetrachloride | 4.00E+01 | | | | | | 4.00E+01 | 4.00E+01 | |
| 108-90-7 | Chlorobenzene | 1.00E+03 | | | | | 1.00E+03 | | 1.00E+03 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 3.00E+04 | | | | | | | 3.00E+04 | |
| 67-66-3 | Chloroform | 3.00E+02 | | | | | 3.00E+02 | | 3.00E+02 | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 8.00E+02 | | | | | 8.00E+02 | 8.00E+02 | | 8.00E+02 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 4.00E+02 | | | | | 4.00E+02 | | |
| 100-41-4 | Ethylbenzene | 2.00E+03 | 2.00E+03 | 2.00E+03 | | | 2.00E+03 | | 2.00E+03 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 8.00E-01 | |
| 110-54-3 | Hexane | | | | | | | 7.00E+03 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 3.00E-02 | 3.00E-02 | 3.00E-02 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 3.50E+01 | | | | | 3.50E+01 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 6.00E+02 | | | 6.00E+02 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | | | | | | | 9.00E+00 |
| 108-88-3 | Toluene | | | | 4.20E+02 | | | | | |
| 1330-20-7 | Xylenes | | | • | 7.00E+02 | | | 7.00E+02 | | 7.00E+02 |

John Smith Road Landfill - DEIR Table P-2I_G68_242CFM Chronic Hazard Index from Landfill Fugitive TACs

Chronic Hazard Index from Landfill Fugitive TACs Emissions (HIC)

Nearest Pot.

Factors: Recept

Dispersion Factor $(\chi/Q)^{[7]} = \frac{6.45E+06}{(\mu g/m^3)/(lb/hr-sf)}$

| CAS | TACs | | | Н | Iazard Indices | - Chronic (HIC |) - Calculated | | | |
|-----------|---|------------|----------------|-----------|----------------|----------------|---------------------------------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Endocrine | Eye | Hematologic | Kidney | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | | |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | | | | | | | | | |
| 107-06-2 | 1,2,Dichloroethane (ethylene dichloride) | 1.10E-05 | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 6.68E-05 | | 6.68E-05 | |
| 107-13-1 | Acrylonitrile | | | | | | | | | |
| 71-43-2 | Benzene | | | | | 4.32E-03 | | | | |
| 75-15-0 | Carbon disulfide | | | | | | | 3.20E-06 | 3.20E-06 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | | |
| 108-90-7 | Chlorobenzene | 1.14E-06 | | | | | 1.14E-06 | | 1.14E-06 | |
| 75-00-3 | Chloroethane (ethyl chloride) | 2.22E-07 | | | | | | | 2.22E-07 | |
| 67-66-3 | Chloroform | | | | | | | | | |
| 106-46-7 | Dichlorobenzene (1,4-Dichlorobenzene) | 7.75E-06 | | | | | 7.75E-06 | 7.75E-06 | | 7.75E-06 |
| 75-09-2 | Dichloromethane (methylene chloride) | | 4.09E-06 | | | | | 4.09E-06 | | |
| 100-41-4 | Ethylbenzene | 2.88E-05 | 2.88E-05 | 2.88E-05 | | | 2.88E-05 | | 2.88E-05 | |
| 106-93-4 | Ethylene dibromide (1,2-Dibromaethane) | | | | | | | | 1.05E-03 | |
| 110-54-3 | Hexane | | | | | | | 2.31E-06 | | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 7.89E-05 | 7.89E-05 | 7.89E-05 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | | | | 1.59E-04 | | | |
| 79-01-6 | Trichloroethylene (trichloroethene) | | | | 3.58E-06 | | | 3.58E-06 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | | | | | | | 1.65E-02 |
| 108-88-3 | Toluene | | | | 6.37E-04 | | | | | |
| 1330-20-7 | Xylenes | | | <u> </u> | 1.93E-04 | | · · · · · · · · · · · · · · · · · · · | 1.93E-04 | | 1.93E-04 |
| | Endpoint Sum Totals | 4.89E-05 | 3.29E-05 | 2.88E-05 | 8.34E-04 | 4.32E-03 | 3.42E-04 | 2.93E-04 | 1.22E-03 | 1.67E-02 |
| | Total | 2.38E-02 | | | | | | | | |

[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating HIC, Page 19.

^[2] Toxic Air Contaminants TACs.

^[3] Maximum emission rates in tons per year is the sum of current and future flare potential to emit.

^[4] SCAQMD Permit Application package N, Version 8.1 page 12. "Multipathway adjustment" factors - chronic HI, Table 3.2. No value tabulated, therefore assumed inhalation pathway only.

^[5] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1 - "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values."

^[6] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/totables.pdf, Table 4 - "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs."

^[7] Obtained from AERMOD. Dispersion Factor calculated for annual concentration at residential receptor for location at: PMI at P46 for 2020, MEIR at RP_H1 for 2019, MIEW CR_WP_2 for 2019, School 1 at CR_SC_13 for 2018, and School 2 at

John Smith Road Landfill, Hollister CA Table P-2J

Acute Hazard from Landfill Fugitive TACs Emissions (AHI)

 $AHI^{[1]} = ENDPOINT SUM (Qtpy * <math>\chi/Q$ * MWAF * (1/REL)) =

Where:

AHI: Acute Hazard Index

Q_{tpy}: Emissions Rate in tons per year

 $\chi/Q:\ \ Dispersion\ factor\ in\ (\mu g/m3)/(lb/hr-sf)\ calculated\ using\ AERMOD\ for\ \ receptor\ of\ interest,\ where\ Q=1\ lb/hr-sf$

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

REL: Reference Exposure Level (μg/m³)

HIC Endpoint Sum Summary for Landfill Flare TAC Emissions:

| | PMI | MEIR | MEIW | School 1 | School 1 |
|-------------------------------|----------|----------|----------|----------|----------|
| Chronic Hazard Endpoint Sum = | 7.52E-05 | 1.99E-05 | 1.51E-05 | 4.27E-06 | 3.41E-06 |
| Receptor ID | P40 | RP_H31 | CR_WP_2 | CR_SC_13 | CR_SC_14 |
| Peak Concentration Year | 2020 | 2019 | 2019 | 2018 | 2020 |

| CAS | TACs ^[2] | Q(lb/hr-sf) ^[3] | MWAF ^[5] |
|-----------|---|----------------------------|---------------------|
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | - | 1 |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 1.38E-09 | 1 |
| 71-43-2 | Benzene | 3.82E-11 | 1 |
| 75-15-0 | Carbon disulfide | 7.54E-12 | 1 |
| 56-23-5 | Carbon tetrachloride | = | 1 |
| 67-66-3 | Chloroform | = | 1 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 4.82E-12 | 1 |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | 4.37E-10 | 1 |
| 7439-97-6 | Mercury (total)(e) | 6.98E-15 | 1 |
| 78-93-3 | Methyl ethyl ketone | 8.25E-11 | 1 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 1.64E-11 | 1 |
| 108-88-3 | Toluene | 7.89E-10 | 1 |
| 75-01-4 | Vinyl chloride | 1.25E-12 | 1 |
| 1330-20-7 | Xylenes | 3.98E-10 | 1 |

John Smith Road Landfill, Hollister CA

Table P-2J

Acute Hazard from Landfill Fugitive TACs Emissions (AHI)

Acute Hazard RELs

| CAS | TACs | | | REL | s (μg/m³) from C | DEHHA/ARB | [6] | | |
|-----------|---|------------|----------------|----------|------------------|-----------|----------|--------------|-------------|
| | ITIOS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nervous | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | 6.80E+04 | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 3.20E+03 | | |
| 71-43-2 | Benzene | | | | 2.70E+01 | 2.70E+01 | | 2.70E+01 | |
| 75-15-0 | Carbon disulfide | | | | | | 6.20E+03 | 6.20E+03 | |
| 56-23-5 | Carbon tetrachloride | 1.90E+03 | | | | | 1.90E+03 | 1.90E+03 | |
| 67-66-3 | Chloroform | | | | | | 1.50E+03 | 1.50E+02 | 1.50E+02 |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 1.40E+04 | | | | 1.40E+04 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 2.10E+03 | | | | | 2.10E+03 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 6.00E-01 | 6.00E-01 | |
| 78-93-3 | Methyl ethyl ketone | | | 1.30E+04 | | | | | 1.30E+04 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 2.00E+04 | | | 2.00E+04 | | 2.00E+04 |
| 108-88-3 | Toluene | | | 5.00E+03 | | | 5.00E+03 | 5.00E+03 | 5.00E+03 |
| 75-01-4 | Vinyl chloride | | | 1.80E+05 | | | 1.80E+05 | | 1.80E+05 |
| 1330-20-7 | Xylenes | | | 2.20E+04 | | | 2.20E+04 | | 2.20E+04 |

John Smith Road Landfill, Hollister CA Table P-2J

Acute Hazard from Landfill Fugitive TACs Emissions (AHI)

Factors: PMI

Dispersion Factor $(\chi/Q)^{[7]} = \frac{1.29E+07}{(\mu g/m^3)/(lb/hr-sf)}$

Acute Hazard Calculated for PMI

| CAS | TACs | | | Hazai | rd Indices - Chro | onic (calculate | ed) | | |
|-----------|---|------------|----------------|----------|--|-----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 5.57E-06 | | |
| 71-43-2 | Benzene | | | | 1.83E-05 | 1.83E-05 | | 1.83E-05 | |
| 75-15-0 | Carbon disulfide | | | | | | 1.57E-08 | 1.57E-08 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | |
| 67-66-3 | Chloroform | | | | | | | | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 4.45E-09 | | | | 4.45E-09 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 2.69E-06 | | | | | 2.69E-06 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 1.50E-07 | 1.50E-07 | |
| 78-93-3 | Methyl ethyl ketone | | | 8.20E-08 | | | | | 8.20E-08 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 1.06E-08 | | | 1.06E-08 | | 1.06E-08 |
| 108-88-3 | Toluene | | | 2.04E-06 | | | 2.04E-06 | 2.04E-06 | 2.04E-06 |
| 75-01-4 | Vinyl chloride | | | 9.00E-11 | | | 9.00E-11 | | 9.00E-11 |
| 1330-20-7 | Xylenes | | | 2.34E-07 | | • | 2.34E-07 | | 2.34E-07 |
| | Endpoint Sum Totals | 0.00E+00 | 4.45E-09 | 5.05E-06 | 1.83E-05 | 1.83E-05 | 8.02E-06 | 2.05E-05 | 5.05E-06 |
| | Total | 7.52E-05 | | | <u>. </u> | | _ | _ | _ |

Factors: MEIR

Dispersion Factor $(\chi/Q)^{[7]} = \frac{3.12E+06}{(\mu g/m^3)/(lb/hr-sf)}$

Acute Hazard Calculated for MEIR

| CAS | TACs | | | Haza | rd Indices - Chro | nic (calculate | ed) | | |
|-----------|---|------------|----------------|----------|-------------------|----------------|----------|--------------|-------------|
| CAS | IACS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 1.34E-06 | | |
| 71-43-2 | Benzene | | | | 4.41E-06 | 4.41E-06 | | 4.41E-06 | |
| 75-15-0 | Carbon disulfide | | | | | | 3.79E-09 | 3.79E-09 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | |
| 67-66-3 | Chloroform | | | | | | | | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 4.45E-09 | | | | 1.07E-09 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 6.49E-07 | | | | | 6.49E-07 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 3.63E-08 | 3.63E-08 | |
| 78-93-3 | Methyl ethyl ketone | | | 1.98E-08 | | | | | 1.98E-08 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 2.55E-09 | | | 1.06E-08 | | 2.55E-09 |
| 108-88-3 | Toluene | | | 4.92E-07 | | | 2.04E-06 | 4.92E-07 | 4.92E-07 |
| 75-01-4 | Vinyl chloride | | | 2.17E-11 | | | 9.00E-11 | | 2.17E-11 |
| 1330-20-7 | Xylenes | | | 5.65E-08 | | | 2.34E-07 | | 5.65E-08 |

John Smith Road Landfill, Hollister CA

Table P-2J

Acute Hazard from Landfill Fugitive TACs Emissions (AHI)

| 9 | () | | | | | | | | |
|---|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| | Endpoint Sum Totals | 0.00E+00 | 4.45E-09 | 1.22E-06 | 4.41E-06 | 4.41E-06 | 3.67E-06 | 4.94E-06 | 1.22E-06 |
| | Total | 1.99E-05 | | | | | | | |
| | | | | | | | | | |

Factors: MEIW

Dispersion Factor $(\chi/Q)^{[7]} =$ 2.27E+06 $(\mu g/m^3)/(lb/hr-sf)$

Acute Hazard Calculated for MEIW

| CAS | TACs | | | Hazai | rd Indices - Chro | onic (calculate | ed) | | |
|-----------|---|------------|----------------|----------|-------------------|-----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 9.80E-07 | | |
| 71-43-2 | Benzene | | | | 3.22E-06 | 3.22E-06 | | 3.22E-06 | |
| 75-15-0 | Carbon disulfide | | | | | | 2.77E-09 | 2.77E-09 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | |
| 67-66-3 | Chloroform | | | | | | | | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 4.45E-09 | | | | 7.84E-10 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 4.73E-07 | | | | | 4.73E-07 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 2.65E-08 | 2.65E-08 | |
| 78-93-3 | Methyl ethyl ketone | | | 1.44E-08 | | | | | 1.44E-08 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 1.86E-09 | | | 1.06E-08 | | 1.86E-09 |
| 108-88-3 | Toluene | | | 3.59E-07 | | | 2.04E-06 | 3.59E-07 | 3.59E-07 |
| 75-01-4 | Vinyl chloride | | | 1.58E-11 | | | 9.00E-11 | | 1.58E-11 |
| 1330-20-7 | Xylenes | | | 4.12E-08 | | - | 2.34E-07 | | 4.12E-08 |
| - | Endpoint Sum Totals | 0.00E+00 | 4.45E-09 | 8.90E-07 | 3.22E-06 | 3.22E-06 | 3.29E-06 | 3.61E-06 | 8.90E-07 |
| | Total | 1.51E-05 | | | | | | | |

Factors: School 1

Dispersion Factor $(\chi/Q)^{[7]} =$ 3.51E+05 $(\mu g/m^3)/(lb/hr-sf)$

Acute Hazard Calculated for School 1

| CAS | TACs | | | Hazai | rd Indices - Chro | onic (calculate | ed) | | |
|-----------|---|------------|----------------|----------|-------------------|-----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 1.51E-07 | | |
| 71-43-2 | Benzene | | | | 4.96E-07 | 4.96E-07 | | 4.96E-07 | |
| 75-15-0 | Carbon disulfide | | | | | | 4.26E-10 | 4.26E-10 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | |
| 67-66-3 | Chloroform | | | | | | | | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 4.45E-09 | | | | 1.21E-10 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 7.30E-08 | | | | | 7.30E-08 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 4.08E-09 | 4.08E-09 | |
| 78-93-3 | Methyl ethyl ketone | | | 2.23E-09 | | | | | 2.23E-09 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 2.87E-10 | | | 1.06E-08 | | 2.87E-10 |

John Smith Road Landfill, Hollister CA

Table P-2J

Acute Hazard from Landfill Fugitive TACs Emissions (AHI)

| 108-88-3 | Toluene | | | 5.53E-08 | | | 2.04E-06 | 5.53E-08 | 5.53E-08 |
|-----------|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 75-01-4 | Vinyl chloride | | | 2.44E-12 | | | 9.00E-11 | | 2.44E-12 |
| 1330-20-7 | Xylenes | | | 6.35E-09 | | | 2.34E-07 | | 6.35E-09 |
| | Endpoint Sum Totals | 0.00E+00 | 4.45E-09 | 1.37E-07 | 4.96E-07 | 4.96E-07 | 2.44E-06 | 5.56E-07 | 1.37E-07 |
| | Total | 4.27E-06 | | | _ | | _ | | |

Factors: School 2

Dispersion Factor $(\chi/Q)^{[7]}$ = $(\mu g/m^3)/(lb/hr-sf)$ 1.99E+05

Acute Hazard Calculated for School 2

| CAS | TACo | | <u> </u> | Hazai | rd Indices - Chro | onic (calculate | ed) | _ | <u> </u> |
|-----------|---|------------|----------------|----------|-------------------|-----------------|----------|--------------|-------------|
| CAS | TACs | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 8.55E-08 | | |
| 71-43-2 | Benzene | | | | 2.81E-07 | 2.81E-07 | | 2.81E-07 | |
| 75-15-0 | Carbon disulfide | | | | | | 2.41E-10 | 2.41E-10 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | |
| 67-66-3 | Chloroform | | | | | | | | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 4.45E-09 | | | | 6.84E-11 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 4.13E-08 | | | | | 4.13E-08 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 2.31E-09 | 2.31E-09 | |
| 78-93-3 | Methyl ethyl ketone | | | 1.26E-09 | | | | | 1.26E-09 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 1.63E-10 | | | 1.06E-08 | | 1.63E-10 |
| 108-88-3 | Toluene | | | 3.13E-08 | | | 2.04E-06 | 3.13E-08 | 3.13E-08 |
| 75-01-4 | Vinyl chloride | | | 1.38E-12 | | | 9.00E-11 | | 1.38E-12 |
| 1330-20-7 | Xylenes | | | 3.60E-09 | | | 2.34E-07 | | 3.60E-09 |
| | Endpoint Sum Totals | 0.00E+00 | 4.45E-09 | 7.77E-08 | 2.81E-07 | 2.81E-07 | 2.37E-06 | 3.15E-07 | 7.77E-08 |
| | Total | 3.41E-06 | | | | | | | |

^[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating HIC, Page 19.

^[2] Toxic Air Contaminants TACs.

^[3] Maximum emission rates in tons per year is the sum of current and future flare potential to emit.

^[4] SCAQMD Permit Application package N, Version 8.1 page 10. "Multipathway adjustment" factors - chronic HI, Table 3.2. No value tabulated, therefore assumed inhalation pathway only. [5] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1 - "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values."

^[6] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/totables.pdf, Table 4 - "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs."

^[7] Dispersion Factor calculated by AERMOD for UTM receptor (648225.5, 4076181.52).

John Smith Road Landfill, Hollister CA Table P-2J_G68

Acute Hazard from Landfill Fugitive TACs Emissions (AHI)

$$AHI^{[1]} = ENDPOINT SUM (Qtpy * \chi/Q * MWAF * (1/REL)) =$$

Where:

AHI: Acute Hazard Index

Q_{tpy}: Emissions Rate in tons per year

 χ /Q: Dispersion factor in (μ g/m3)/(lb/hr-sf) calculated using AERMOD for receptor of interest, where Q = 1 lb/hr-sf MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

REL: Reference Exposure Level (μg/m³)

HIC Endpoint Sum Summary for Landfill Flare TAC Emissions:

| | Nearest Pot. Recept. |
|-------------------------------|-------------------------|
| Chronic Hazard Endpoint Sum = | 3.75E-05 |
| Receptor ID | P40 |
| Peak Concentration Year | 2020 |

| CAS | TACs ^[2] | Q(lb/hr-sf) ^[3] | MWAF ^[5] |
|-----------|---|----------------------------|---------------------|
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | - | 1 |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 1.38E-09 | 1 |
| 71-43-2 | Benzene | 3.82E-11 | 1 |
| 75-15-0 | Carbon disulfide | 7.54E-12 | 1 |
| 56-23-5 | Carbon tetrachloride | - | 1 |
| 67-66-3 | Chloroform | - | 1 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 4.82E-12 | 1 |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | 4.37E-10 | 1 |
| 7439-97-6 | Mercury (total)(e) | 6.98E-15 | 1 |
| 78-93-3 | Methyl ethyl ketone | 8.25E-11 | 1 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 1.64E-11 | 1 |
| 108-88-3 | Toluene | 7.89E-10 | 1 |
| 75-01-4 | Vinyl chloride | 1.25E-12 | 1 |
| 1330-20-7 | Xylenes | 3.98E-10 | 1 |

Acute Hazard RELs

| CAS | TACs | | RELs (μg/m³) from OEHHA/ARB ^[6] | | | | | | | |
|-----------|---|------------|--|----------|-------------|----------|----------|--------------|-------------|--|
| CAS | TACS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nervous | Reproductive | Respiratory | |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | 6.80E+04 | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 3.20E+03 | | | |
| 71-43-2 | Benzene | | | | 2.70E+01 | 2.70E+01 | | 2.70E+01 | | |
| 75-15-0 | Carbon disulfide | | | | | | 6.20E+03 | 6.20E+03 | | |
| 56-23-5 | Carbon tetrachloride | 1.90E+03 | | | | | 1.90E+03 | 1.90E+03 | | |
| 67-66-3 | Chloroform | | | | | | 1.50E+03 | 1.50E+02 | 1.50E+02 | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 1.40E+04 | | | | 1.40E+04 | | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 2.10E+03 | | | | | 2.10E+03 | |
| 7439-97-6 | Mercury (total)(e) | | | | | | 6.00E-01 | 6.00E-01 | | |
| 78-93-3 | Methyl ethyl ketone | | | 1.30E+04 | | | | | 1.30E+04 | |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 2.00E+04 | | | 2.00E+04 | | 2.00E+04 | |
| 108-88-3 | Toluene | | | 5.00E+03 | | | 5.00E+03 | 5.00E+03 | 5.00E+03 | |
| 75-01-4 | Vinyl chloride | | | 1.80E+05 | | | 1.80E+05 | | 1.80E+05 | |
| 1330-20-7 | Xylenes | | | 2.20E+04 | | | 2.20E+04 | | 2.20E+04 | |

Factors: earest Pot. Recept.

Dispersion Factor $(\chi/Q)^{[7]} = \frac{6.45E+06}{(\mu g/m^3)/(lb/hr-sf)}$

Acute Hazard Calculated for PMI

| CAS | TACs | | | Hazai | rd Indices - Chro | onic (calculate | ed) | | |
|-----------|---|------------|----------------|----------|-------------------|-----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 2.78E-06 | | |
| 71-43-2 | Benzene | | | | 9.13E-06 | 9.13E-06 | | 9.13E-06 | |
| 75-15-0 | Carbon disulfide | | | | | | 7.84E-09 | 7.84E-09 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | |
| 67-66-3 | Chloroform | | | | | | | | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 2.22E-09 | | | | 2.22E-09 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 1.34E-06 | | | | | 1.34E-06 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 7.51E-08 | 7.51E-08 | |
| 78-93-3 | Methyl ethyl ketone | | | 4.09E-08 | | | | | 4.09E-08 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 5.28E-09 | | | 5.28E-09 | | 5.28E-09 |
| 108-88-3 | Toluene | | | 1.02E-06 | | | 1.02E-06 | 1.02E-06 | 1.02E-06 |
| 75-01-4 | Vinyl chloride | | | 4.49E-11 | | | 4.49E-11 | | 4.49E-11 |
| 1330-20-7 | Xylenes | | | 1.17E-07 | | | 1.17E-07 | | 1.17E-07 |
| | Endpoint Sum Totals | 0.00E+00 | 2.22E-09 | 2.52E-06 | 9.13E-06 | 9.13E-06 | 4.00E-06 | 1.02E-05 | 2.52E-06 |
| • | Total | 3.75E-05 | | _ | _ | _ | _ | _ | <u> </u> |

^[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating HIC, Page 19.

^[2] Toxic Air Contaminants TACs.

^[3] Maximum emission rates in tons per year is the sum of current and future flare potential to emit.

^[4] SCAQMD Permit Application package N, Version 8.1 page 10. "Multipathway adjustment" factors - chronic HI, Table 3.2. No value tabulated, therefore assumed inhalation pathway only.

^[5] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1 - "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values."

^[6] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/totables.pdf, Table 4 - "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs."

^[7] Dispersion Factor calculated by AERMOD for UTM receptor (648225.5, 4076181.52).

John Smith Road Landfill, Hollister CA Table P-2J_G68_242CFM Acute Hazard from Landfill Fugitive TACs Emissions (AHI)

$$AHI^{[1]} = ENDPOINT SUM (Qtpy * \chi/Q * MWAF * (1/REL)) =$$

Where:

AHI: Acute Hazard Index

Q_{tpy}: Emissions Rate in tons per year

 $\chi/Q:\ Dispersion\ factor\ in\ (\mu g/m3)/(lb/hr-sf)\ calculated\ using\ AERMOD\ for\ \ receptor\ of\ interest,\ where\ Q=1\ lb/hr-sf$

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

REL: Reference Exposure Level (μg/m³)

HIC Endpoint Sum Summary for Landfill Flare TAC Emissions:

| | Nearest Pot. Recept. |
|-------------------------------|-------------------------|
| Chronic Hazard Endpoint Sum = | 5.68E-05 |
| Receptor ID | P40 |
| Peak Concentration Year | 2020 |

| CAS | TACs ^[2] | Q(lb/hr-sf) ^[3] | MWAF ^[5] |
|-----------|---|----------------------------|---------------------|
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | - | 1 |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 2.08E-09 | 1 |
| 71-43-2 | Benzene | 5.78E-11 | 1 |
| 75-15-0 | Carbon disulfide | 1.14E-11 | 1 |
| 56-23-5 | Carbon tetrachloride | - | 1 |
| 67-66-3 | Chloroform | - | 1 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 7.30E-12 | 1 |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | 6.61E-10 | 1 |
| 7439-97-6 | Mercury (total)(e) | 1.06E-14 | 1 |
| 78-93-3 | Methyl ethyl ketone | 1.25E-10 | 1 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | 2.48E-11 | 1 |
| 108-88-3 | Toluene | 1.19E-09 | 1 |
| 75-01-4 | Vinyl chloride | 1.90E-12 | 1 |
| 1330-20-7 | Xylenes | 6.03E-10 | 1 |

John Smith Road Landfill, Hollister CA Table P-2J_G68_242CFM

Acute Hazard from Landfill Fugitive TACs Emissions (AHI)

Acute Hazard RELs

| CAS | TACs | | | REL | s (μg/m³) from C | DEHHA/ARB | [6] | | |
|-----------|---|------------|----------------|----------|------------------|-----------|----------|--------------|-------------|
| Cris | THOS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nervous | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | 6.80E+04 | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 3.20E+03 | | |
| 71-43-2 | Benzene | | | | 2.70E+01 | 2.70E+01 | | 2.70E+01 | |
| 75-15-0 | Carbon disulfide | | | | | | 6.20E+03 | 6.20E+03 | |
| 56-23-5 | Carbon tetrachloride | 1.90E+03 | | | | | 1.90E+03 | 1.90E+03 | |
| 67-66-3 | Chloroform | | | | | | 1.50E+03 | 1.50E+02 | 1.50E+02 |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 1.40E+04 | | | | 1.40E+04 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 2.10E+03 | | | | | 2.10E+03 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 6.00E-01 | 6.00E-01 | |
| 78-93-3 | Methyl ethyl ketone | | | 1.30E+04 | | | | | 1.30E+04 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 2.00E+04 | | | 2.00E+04 | | 2.00E+04 |
| 108-88-3 | Toluene | | | 5.00E+03 | | | 5.00E+03 | 5.00E+03 | 5.00E+03 |
| 75-01-4 | Vinyl chloride | | | 1.80E+05 | | | 1.80E+05 | | 1.80E+05 |
| 1330-20-7 | Xylenes | | | 2.20E+04 | | | 2.20E+04 | | 2.20E+04 |

John Smith Road Landfill, Hollister CA Table P-2J_G68_242CFM

Acute Hazard from Landfill Fugitive TACs Emissions (AHI)

Factors: earest Pot. Recept.

Dispersion Factor $(\chi/Q)^{[7]} =$ $(\mu g/m^3)/(lb/hr-sf)$ 6.45E+06

Acute Hazard Calculated for PMI

| CAS | TACs | | • | Hazaı | rd Indices - Chro | onic (calculate | ed) | | |
|-----------|---|------------|----------------|----------|-------------------|-----------------|----------|--------------|-------------|
| CAS | TACS | Alimentary | Cardiovascular | Eye | Hematologic | Immune | Nerve | Reproductive | Respiratory |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | | | | | | | | |
| 67-63-0 | 2-propanol (isopropyl alcohol) | | | | | | 4.20E-06 | | |
| 71-43-2 | Benzene | | | | 1.38E-05 | 1.38E-05 | | 1.38E-05 | |
| 75-15-0 | Carbon disulfide | | | | | | 1.19E-08 | 1.19E-08 | |
| 56-23-5 | Carbon tetrachloride | | | | | | | | |
| 67-66-3 | Chloroform | | | | | | | | |
| 75-09-2 | Dichloromethane (methylene Chloride) | | 3.36E-09 | | | | 3.36E-09 | | |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) | | | 2.03E-06 | | | | | 2.03E-06 |
| 7439-97-6 | Mercury (total)(e) | | | | | | 1.14E-07 | 1.14E-07 | |
| 78-93-3 | Methyl ethyl ketone | | | 6.19E-08 | | | | | 6.19E-08 |
| 127-18-4 | Perchloroethylene (tetrachloroethylene) | | | 7.99E-09 | | | 7.99E-09 | | 7.99E-09 |
| 108-88-3 | Toluene | | | 1.54E-06 | | | 1.54E-06 | 1.54E-06 | 1.54E-06 |
| 75-01-4 | Vinyl chloride | | | 6.80E-11 | | | 6.80E-11 | | 6.80E-11 |
| 1330-20-7 | Xylenes | | | 1.77E-07 | | • | 1.77E-07 | | 1.77E-07 |
| | Endpoint Sum Totals | 0.00E+00 | 3.36E-09 | 3.82E-06 | 1.38E-05 | 1.38E-05 | 6.05E-06 | 1.55E-05 | 3.82E-06 |
| | Total | 5.68E-05 | | | | | _ | _ | _ |

^[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating HIC, Page 19.

^[2] Toxic Air Contaminants TACs.

^[3] Maximum emission rates in tons per year is the sum of current and future flare potential to emit.

^[4] SCAQMD Permit Application package N, Version 8.1 page 10. "Multipathway adjustment" factors - chronic HI, Table 3.2. No value tabulated, therefore assumed inhalation pathway only.

^[5] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1 - "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values." [6] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/totables.pdf, Table 4 - "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs."

^[7] Dispersion Factor calculated by AERMOD for UTM receptor (648225.5, 4076181.52).

John Smith Road Landfill - DEIR Table P-2K Potential-to-Emit Estimates for Proposed LFG Flare

Variables:

| Model Input Variables: | |
|------------------------------------|-----------|
| Methane Content | 50.0% |
| Fugitive Emission (25% of LandGem) | 160 DSCFM |
| | |

Conversion Factors*

| Imperial Ton | 2,000.00 | lbs. |
|----------------------------|---------------|-----------|
| lb. | 453.60 | grams |
| hour | 60.00 | min |
| hour | 3,600.00 | sec |
| day | 24.00 | hrs. |
| 12 months | 365.00 | days |
| mol conversion | 24.04 | L @ 20° C |
| cubic foot | 28.32 | L |
| Fugitive transmission area | 11,009,260.00 | SF |
| MMBtu | 1,000,000.00 | Btu |

^{*} Assume Ideal Gas Law at Standard Atmospheric Pressure & Temperature for all calculations, conversions, and constants.

| CAS No. | HAPs Compounds ^[1] | Molecular weight (g/Mol) ^[2] | Ave. Concentration of Compounds Found in LFG at Inlet (ppmv) ^[3] | Pollutant Flow Rate (ton/year) ^[4] | Pollutant Flow Rate (lb/hr) [5] | Fugitive Emissions (lb/hr-SF) ^[6] |
|-----------|--|---|---|---|------------------------------------|--|
| 100-41-4 | Ethylbenzene | 106.16 | 5.62E+00 | 6.51E-02 | 1.49E-02 | 5.91E-09 |
| 106-46-7 | Dichlorobenzene (1, 4-dichlorobenzene) | 147 | 4.36E-01 | 7.00E-03 | 1.49E-02 | 6.36E-10 |
| 106-93-4 | Ethylene dibromide (1, 2-dibromoethane) | 187.88 | 4.60E-02 | 9.44E-04 | 1.49E-02 | 8.57E-11 |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 98.96 | 4.58E-01 | 4.95E-03 | 1.49E-02 | 4.50E-10 |
| 107-13-1 | Acrylonitrile | 53.06 | - | - | 1.49E-02 | - |
| 108-88-3 | Toluene | 92.13 | 3.00E+01 | 3.02E-01 | 1.49E-02 | 2.74E-08 |
| 108-90-7 | Chlorobenzene | 112.56 | 1.05E-01 | 1.29E-03 | 1.49E-02 | 1.17E-10 |
| 110-54-3 | Hexane | 86.18 | 1.94E+00 | 1.83E-02 | 1.49E-02 | 1.66E-09 |
| 127-18-4 | Perchloroethylene (tetrachloroethene) | 165.83 | 3.46E-01 | 6.27E-03 | 1.49E-02 | 5.69E-10 |
| 1330-20-7 | Xylenes | 106.16 | 1.32E+01 | 1.53E-01 | 1.49E-02 | 1.39E-08 |
| 56-23-5 | Carbon tetrachloride | 153.84 | - | - | 1.49E-02 | - |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 60.11 | 8.04E+01 | 5.27E-01 | 1.49E-02 | 4.79E-08 |
| 67-66-3 | Chloroform | 119.39 | - | - | 1.49E-02 | - |
| 71-43-2 | Benzene | 78.11 | 1.72E+00 | 1.46E-02 | 1.49E-02 | 1.33E-09 |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | 133.41 | - | - | 1.49E-02 | - |
| 7439-97-6 | Mercury (total)(e) | 200.59 | 1.22E-04 | 2.67E-06 | 1.49E-02 | 2.43E-13 |
| 75-00-3 | Chlorodifluoromethane | 86.47 | 7.96E-01 | 7.52E-03 | 1.49E-02 | 6.83E-10 |
| 75-01-4 | Vinyl chloride | 62.5 | 7.03E-02 | 4.80E-04 | 1.49E-02 | 4.36E-11 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 84.94 | 1.99E-01 | 1.85E-03 | 1.49E-02 | 1.68E-10 |
| 75-15-0 | Carbon disulfide | 76.13 | 3.47E-01 | 2.88E-03 | 1.49E-02 | 2.62E-10 |
| 75-34-3 | 1,1-Dichloroethane (ethylidene dichloride) | 98.97 | - | - | 1.49E-02 | - |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 96.94 | - | - | 1.49E-02 | - |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) ^[7] | 36.46 | 4.20E+01 | 1.67E-01 | 1.49E-02 | 1.52E-08 |
| 78-87-5 | 1,2-Dichloropropane (propylene dichloride) | 112.99 | 2.30E-02 | 2.84E-04 | 1.49E-02 | 2.58E-11 |
| 78-93-3 | Methyl ethyl ketone | 72.11 | 4.01E+00 | 3.16E-02 | 1.49E-02 | 2.87E-09 |
| 79-01-6 | Trichloroethylene (trichloroethane) | 131.4 | 1.69E-01 | 2.43E-03 | 1.49E-02 | 2.20E-10 |
| 79-34-5 | 1, 1, 2, 2-Tetrachloroethane | 167.85 | - | - | 1.49E-02 | - |
| | | | | | | |

See Notes on Following Page

Notes

- [1] List Hazardous Air Pollutants (HAPs) per Title III Clean Air Act Amendments, 1990, and include compounds found in landfill gas, per AP-42 Table 2.4-1 "Default Concentrations for LFG Constituents."
- [2] Molecular weight obtained from AP-42 Table 2.4-1 "Default Concentrations for LFG Constituents."
- [3] Constituent concentration obtained from flare test conducted on June 22, 2020 By AtmAA Inc.
- [5] Conversion from tons/year to lb/hr.
- [6] Calculated by dividing the flow rate by the total gugitive transmission area.
- [7] Concentration of HCL is based on AP-42 default, 2.4.4.2, (11/98)

Yellow highlight data from AP-42 (2008) Tables 2.4-1 AND 2.4-1 "Default Concentrations for LFG Constituents with waste in place on or after 1992".

Example Calculation (Equation 1)

Total Pollutant Flow Rate (To Flare) = ((Concentration of compound [ppmv]/1,000,000)) * (Molecular Weight of Compound [g/mol]) * (Total LFG to Flare [cfm])

*(60 min * 24 hr. * 365 days) * (1 ton/2,000 lbs.)* (1 lb./ 453.6 g) * (1 mol/24.04L) * (28.32 L/1 CF)

John Smith Road Landfill - DEIR Table P-2K_G68 Potential-to-Emit Estimates for Proposed LFG Flare

Variables:

| Model Input Variables: | | | | | |
|------------------------------------|-----------|--|--|--|--|
| Methane Content | 50.0% | | | | |
| Fugitive Emission (25% of LandGem) | 160 DSCFM | | | | |
| | | | | | |

Conversion Factors*

| Imperial Ton | 2,000.00 lbs. |
|----------------------------|------------------|
| lb. | 453.60 grams |
| hour | 60.00 min |
| hour | 3,600.00 sec |
| day | 24.00 hrs. |
| 12 months | 365.00 days |
| mol conversion | 24.04 L @ 20° C |
| cubic foot | 28.32 L |
| Fugitive transmission area | 11,009,260.00 SF |
| MMBtu | 1,000,000.00 Btu |

^{*} Assume Ideal Gas Law at Standard Atmospheric Pressure & Temperature for all calculations, conversions, and constants.

| CAS No. | HAPs Compounds ^[1] | Molecular weight (g/Mol) ^[2] | Ave. Concentration of Compounds Found in LFG at Inlet (ppmv) ^[3] | Pollutant Flow Rate (ton/year) ^[4] | Pollutant Flow Rate (lb/hr) [5] | Fugitive Emissions (lb/hr-SF) ^[6] |
|-----------|--|---|---|---|------------------------------------|--|
| 100-41-4 | Ethylbenzene | 106.16 | 5.62E+00 | 6.51E-02 | 1.49E-02 | 5.91E-09 |
| 106-46-7 | Dichlorobenzene (1, 4-dichlorobenzene) | 147 | 4.36E-01 | 7.00E-03 | 1.49E-02 | 6.36E-10 |
| 106-93-4 | Ethylene dibromide (1, 2-dibromoethane) | 187.88 | 4.60E-02 | 9.44E-04 | 1.49E-02 | 8.57E-11 |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 98.96 | 4.58E-01 | 4.95E-03 | 1.49E-02 | 4.50E-10 |
| 107-13-1 | Acrylonitrile | 53.06 | - | - | 1.49E-02 | - |
| 108-88-3 | Toluene | 92.13 | 3.00E+01 | 3.02E-01 | 1.49E-02 | 2.74E-08 |
| 108-90-7 | Chlorobenzene | 112.56 | 1.05E-01 | 1.29E-03 | 1.49E-02 | 1.17E-10 |
| 110-54-3 | Hexane | 86.18 | 1.94E+00 | 1.83E-02 | 1.49E-02 | 1.66E-09 |
| 127-18-4 | Perchloroethylene (tetrachloroethene) | 165.83 | 3.46E-01 | 6.27E-03 | 1.49E-02 | 5.69E-10 |
| 1330-20-7 | Xylenes | 106.16 | 1.32E+01 | 1.53E-01 | 1.49E-02 | 1.39E-08 |
| 56-23-5 | Carbon tetrachloride | 153.84 | - | - | 1.49E-02 | - |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 60.11 | 8.04E+01 | 5.27E-01 | 1.49E-02 | 4.79E-08 |
| 67-66-3 | Chloroform | 119.39 | - | - | 1.49E-02 | - |
| 71-43-2 | Benzene | 78.11 | 1.72E+00 | 1.46E-02 | 1.49E-02 | 1.33E-09 |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | 133.41 | - | - | 1.49E-02 | - |
| 7439-97-6 | Mercury (total)(e) | 200.59 | 1.22E-04 | 2.67E-06 | 1.49E-02 | 2.43E-13 |
| 75-00-3 | Chlorodifluoromethane | 86.47 | 7.96E-01 | 7.52E-03 | 1.49E-02 | 6.83E-10 |
| 75-01-4 | Vinyl chloride | 62.5 | 7.03E-02 | 4.80E-04 | 1.49E-02 | 4.36E-11 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 84.94 | 1.99E-01 | 1.85E-03 | 1.49E-02 | 1.68E-10 |
| 75-15-0 | Carbon disulfide | 76.13 | 3.47E-01 | 2.88E-03 | 1.49E-02 | 2.62E-10 |
| 75-34-3 | 1,1-Dichloroethane (ethylidene dichloride) | 98.97 | - | - | 1.49E-02 | - |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 96.94 | - | - | 1.49E-02 | - |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) ^[7] | 36.46 | 4.20E+01 | 1.67E-01 | 1.49E-02 | 1.52E-08 |
| 78-87-5 | 1,2-Dichloropropane (propylene dichloride) | 112.99 | 2.30E-02 | 2.84E-04 | 1.49E-02 | 2.58E-11 |
| 78-93-3 | Methyl ethyl ketone | 72.11 | 4.01E+00 | 3.16E-02 | 1.49E-02 | 2.87E-09 |
| 79-01-6 | Trichloroethylene (trichloroethane) | 131.4 | 1.69E-01 | 2.43E-03 | 1.49E-02 | 2.20E-10 |
| 79-34-5 | 1, 1, 2, 2-Tetrachloroethane | 167.85 | - | - | 1.49E-02 | - |
| | | | | | | |

See Notes on Following Page

Notes

- [1] List Hazardous Air Pollutants (HAPs) per Title III Clean Air Act Amendments, 1990, and include compounds found in landfill gas, per AP-42 Table 2.4-1 "Default Concentrations for LFG Constituents."
- [2] Molecular weight obtained from AP-42 Table 2.4-1 "Default Concentrations for LFG Constituents."
- [3] Constituent concentration obtained from flare test conducted on June 22, 2020 By AtmAA Inc.
- [5] Conversion from tons/year to lb/hr.
- [6] Calculated by dividing the flow rate by the total gugitive transmission area.
- [7] Concentration of HCL is based on AP-42 default, 2.4.4.2, (11/98)

Yellow highlight data from AP-42 (2008) Tables 2.4-1 AND 2.4-1 "Default Concentrations for LFG Constituents with waste in place on or after 1992".

Example Calculation (Equation 1)

Total Pollutant Flow Rate (To Flare) = ((Concentration of compound [ppmv]/1,000,000)) * (Molecular Weight of Compound [g/mol]) * (Total LFG to Flare [cfm])

*(60 min * 24 hr. * 365 days) * (1 ton/2,000 lbs.)* (1 lb./ 453.6 g) * (1 mol/24.04L) * (28.32 L/1 CF)

John Smith Road Landfill - DEIR Table P-2K_G68_242CFM Potential-to-Emit Estimates for Proposed LFG Flare

Variables:

| Model Input Variables: | | |
|------------------------------------|-------|-------|
| Methane Content | 50.0% | |
| Fugitive Emission (25% of LandGem) | 242 | DSCFM |
| | | |

Conversion Factors*

| Imperial Ton | 2,000.00 lbs. |
|----------------------------|------------------|
| lb. | 453.60 grams |
| hour | 60.00 min |
| hour | 3,600.00 sec |
| day | 24.00 hrs. |
| 12 months | 365.00 days |
| mol conversion | 24.04 L @ 20° C |
| cubic foot | 28.32 L |
| Fugitive transmission area | 11,009,260.00 SF |
| MMBtu | 1,000,000.00 Btu |

^{*} Assume Ideal Gas Law at Standard Atmospheric Pressure & Temperature for all calculations, conversions, and constants.

| CAS No. | HAPs Compounds ^[1] | Molecular weight (g/Mol) ^[2] | Ave. Concentration of Compounds Found in LFG at Inlet (ppmv) ^[3] | Pollutant Flow Rate (ton/year) ^[4] | Pollutant Flow Rate (lb/hr) [5] | Fugitive Emissions (lb/hr-SF) ^[6] |
|-----------|--|---|---|---|------------------------------------|--|
| 100-41-4 | Ethylbenzene | 106.16 | 5.62E+00 | 9.85E-02 | 2.25E-02 | 8.94E-09 |
| 106-46-7 | Dichlorobenzene (1, 4-dichlorobenzene) | 147 | 4.36E-01 | 1.06E-02 | 2.25E-02 | 9.62E-10 |
| 106-93-4 | Ethylene dibromide (1, 2-dibromoethane) | 187.88 | 4.60E-02 | 1.43E-03 | 2.25E-02 | 1.30E-10 |
| 107-06-2 | 1,2-Dichloroethane (ethylene dichloride) | 98.96 | 4.58E-01 | 7.49E-03 | 2.25E-02 | 6.80E-10 |
| 107-13-1 | Acrylonitrile | 53.06 | = | = | 2.25E-02 | - |
| 108-88-3 | Toluene | 92.13 | 3.00E+01 | 4.57E-01 | 2.25E-02 | 4.15E-08 |
| 108-90-7 | Chlorobenzene | 112.56 | 1.05E-01 | 1.95E-03 | 2.25E-02 | 1.77E-10 |
| 110-54-3 | Hexane | 86.18 | 1.94E+00 | 2.76E-02 | 2.25E-02 | 2.51E-09 |
| 127-18-4 | Perchloroethylene (tetrachloroethene) | 165.83 | 3.46E-01 | 9.48E-03 | 2.25E-02 | 8.61E-10 |
| 1330-20-7 | Xylenes | 106.16 | 1.32E+01 | 2.31E-01 | 2.25E-02 | 2.10E-08 |
| 56-23-5 | Carbon tetrachloride | 153.84 | - | - | 2.25E-02 | - |
| 67-63-0 | 2-propanol (isopropyl alcohol) | 60.11 | 8.04E+01 | 7.98E-01 | 2.25E-02 | 7.25E-08 |
| 67-66-3 | Chloroform | 119.39 | - | - | 2.25E-02 | - |
| 71-43-2 | Benzene | 78.11 | 1.72E+00 | 2.21E-02 | 2.25E-02 | 2.01E-09 |
| 71-55-6 | 1,1,1-Trichloroethane (methyl chloroform) | 133.41 | - | - | 2.25E-02 | - |
| 7439-97-6 | Mercury (total)(e) | 200.59 | 1.22E-04 | 4.04E-06 | 2.25E-02 | 3.67E-13 |
| 75-00-3 | Chlorodifluoromethane | 86.47 | 7.96E-01 | 1.14E-02 | 2.25E-02 | 1.03E-09 |
| 75-01-4 | Vinyl chloride | 62.5 | 7.03E-02 | 7.26E-04 | 2.25E-02 | 6.59E-11 |
| 75-09-2 | Dichloromethane (methylene Chloride) | 84.94 | 1.99E-01 | 2.79E-03 | 2.25E-02 | 2.54E-10 |
| 75-15-0 | Carbon disulfide | 76.13 | 3.47E-01 | 4.36E-03 | 2.25E-02 | 3.96E-10 |
| 75-34-3 | 1,1-Dichloroethane (ethylidene dichloride) | 98.97 | - | - | 2.25E-02 | - |
| 75-35-4 | 1,1-Dichloroethene (vinylidene chloride) | 96.94 | - | - | 2.25E-02 | - |
| 7647-01-0 | Hydrogen Chloride (Hydrochloric Acid) ^[7] | 36.46 | 4.20E+01 | 2.53E-01 | 2.25E-02 | 2.30E-08 |
| 78-87-5 | 1,2-Dichloropropane (propylene dichloride) | 112.99 | 2.30E-02 | 4.29E-04 | 2.25E-02 | 3.90E-11 |
| 78-93-3 | Methyl ethyl ketone | 72.11 | 4.01E+00 | 4.78E-02 | 2.25E-02 | 4.34E-09 |
| 79-01-6 | Trichloroethylene (trichloroethane) | 131.4 | 1.69E-01 | 3.67E-03 | 2.25E-02 | 3.33E-10 |
| 79-34-5 | 1, 1, 2, 2-Tetrachloroethane | 167.85 | - | - | 2.25E-02 | - |
| | | | | | | |

See Notes on Following Page

Notes

- [1] List Hazardous Air Pollutants (HAPs) per Title III Clean Air Act Amendments, 1990, and include compounds found in landfill gas, per AP-42 Table 2.4-1 "Default Concentrations for LFG Constituents."
- [2] Molecular weight obtained from AP-42 Table 2.4-1 "Default Concentrations for LFG Constituents."
- [3] Constituent concentration obtained from flare test conducted on June 22, 2020 By AtmAA Inc.
- [5] Conversion from tons/year to lb/hr.
- [6] Calculated by dividing the flow rate by the total gugitive transmission area.
- [7] Concentration of HCL is based on AP-42 default, 2.4.4.2, (11/98)

Yellow highlight data from AP-42 (2008) Tables 2.4-1 AND 2.4-1 "Default Concentrations for LFG Constituents with waste in place on or after 1992".

Example Calculation (Equation 1)

Total Pollutant Flow Rate (To Flare) = ((Concentration of compound [ppmv]/1,000,000)) * (Molecular Weight of Compound [g/mol]) * (Total LFG to Flare [cfm])

*(60 min * 24 hr. * 365 days) * (1 ton/2,000 lbs.)* (1 lb./ 453.6 g) * (1 mol/24.04L) * (28.32 L/1 CF)

John Smith Road Landfill - DEIR Table P-3A

Landfill Area DPM Cancer Risk - Ground Level Concentration

Peak Yearly DPM Deposition for Receptors

| | 2018 Peak | 2019 Peak | 2020 Peak | | | | | |
|----------------------------|------------------|---------------|---------------|-------------|----------------|--------------------|--------------|----------|
| Receptor | Concentration | Concentration | Concentration | | | UTM Easting | UTM Northing | |
| | $(\mu g/m^3)$ | $(\mu g/m^3)$ | $(\mu g/m^3)$ | Receptor ID | Description | (m) | (m) | Elev (m) |
| | | | | | Boundary | | | |
| PMI | 12,408,169 | 10,870,574 | 12,924,632 | P40 | Perimeter 40 | 649980.44 | 4076626.71 | 214.82 |
| MEIR | 2,806,308 | 2,484,311 | 3,116,868 | RP_H31 | House 31 | 648659.32 | 4077241.2 | 205.79 |
| | | | | | Nearest | | | |
| MEIW | 2,029,204 | 2,274,519 | 2,615,205 | CR_WP_2 | Workplace | 648949 | 4077938 | 189.45 |
| | | | | | Rancho Santana | | | |
| School 1 | 350,639 | 188,442 | 244,067 | CR_SC_13 | School | 646058.93 | 4078443.2 | 128.52 |
| School 2 | 198,589 | 125,121 | 175,355 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | | | Grid Receptor | | | |
| Nearest Potential Receptor | 5,808,936 | 5,349,452 | 6,450,904 | G68 | 68 | 649980 | 4076373 | 231 |

Peak deposition obtained from AERMOD for flag pole elevation of 0 m.

^{*} Same as 2018

Calculation of Maximum Individual Cancer Risk for Diesel Engines

 $MICRr^{[1]} = SUM [CP * Q lb/hr-SF * \chi/Q * CEFr * MPr * MWAF * 10⁻⁶] =$

MICRr: Maximum Individual Cancer Risk - Residential

CP: Cancer Potency in (mg/kg-day)⁻¹

Q: Pollutant flow rate (lb/hr/SF)

χ/Q: Dispersion Factor in (μg/m3/lb/hr-SF) calculated using AERMOD for peak deposition at receptors

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

CEFr: Combined Exposure Factor, residential (L/kg-day) MPr: Multipathway Adjustment Factor (dimensionless)

10⁻⁶: Micrograms to milligrams conversion, liters to cubic meters conversion.

When:

DPM flow rate, Q = 4.57E-10 lb/hr-SF

John Smith Road Landfill - DEIR

Table P3-B

Calculated MICR Ground-Level Concentration

| Receptor | CP(mg/kg day) ⁻¹ [A] | χ/Q (μg/m³/lb/hr- SF) | CEF (L/kg-day) | MP [C] | MWAF [D] | MICR | MICR per Million | Receptor ID |
|----------------------------|---------------------------------|--------------------------|----------------|--------|----------|----------|---------------------|-------------|
| PMI | 1.1 | 5.90E-03 | 766.78 | 1 | 1 | 4.98E-06 | 4.98 | P13 |
| MEIR | 1.1 | 1.42E-03 | 766.78 | 1 | 1 | 1.20E-06 | 1.20 | RP_H31 |
| MEIW | 1.1 | 1.19E-03 | 55.86 | 1 | 1 | 7.34E-08 | 0.07 | CR_WP_2 |
| School 1 | 1.1 | 1.60E-04 | 389.23 | 1 | 1 | 6.86E-08 | 0.07 | CR_SC_13 |
| School 2 | 1.1 | 9.07E-05 | 389.23 | 1 | 1 | 3.88E-08 | 0.04 | CR_SC_14 |
| Nearest Potential Receptor | 1.1 | 2.95E-03 | 766.78 | 1 | 1 | 2.49E-06 | 2.49 | G68 |

^[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating MICR, Page 12.

[[]A] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Cancer Potency Factor."

[[]B] from SCAQMD Permit Application Package N, Version 8.1 page 14. "Combined Exposure Factor" for 70 years for PMI and MEIR, 9 years for MEIW, and 5 years for Schools. [C] SCAQMD Permit Application Package N, Version 8.1 Package N, Page 10. "Multipath way Adjustment" factors - Cancer, Table P-3.1. Assumes inhalation

pathway only. Assumes 1 for DPM.

[[]D] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Molecular Weight Adjustment Factor."

Chronic Hazard Index - Residential

$$HIC^{[1]} = \chi * MWAF * MP * (1/REL)) =$$

HIC: Hazard Index - Chronic

χ: Dispersion (μg/m³) calculated using AERMOD

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

MP: Multipathway Adjustment Factor (dimensionless)

REL: Reference Exposure Level (μg/m³)

John Smith Road Landfill - DEIR

Table P3-C

Calculated HIC

| ъ. | | | | Respiratory | | |
|----------------------------|--------------------|----------|--------|-------------|----------|-------------|
| Receptor | $\chi (\mu g/m^3)$ | MWAF [A] | MP [B] | RELs [C] | HIC | Receptor ID |
| PMI | 5.90E-03 | 1 | 1 | 5 | 1.18E-03 | P13 |
| MEIR | 1.42E-03 | 1 | 1 | 5 | 2.85E-04 | RP_H31 |
| MEIW | 1.19E-03 | 1 | 1 | 5 | 2.39E-04 | CR_WP_2 |
| School 1 | 1.60E-04 | 1 | 1 | 5 | 3.20E-05 | CR_SC_13 |
| School 2 | 9.07E-05 | 1 | 1 | 5 | 1.81E-05 | CR_SC_14 |
| Nearest Potential Receptor | 2.95E-03 | 1 | 1 | 5 | 5.89E-04 | G68 |

- [1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating HIC, Page 19. [A] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment
- Health Values, "Molecular Weight Adjustment Factor."
- [B] SCAQMD Permit Application Package N, Version 8.1 Package N, Page 10. "Multipath way Adjustment" factors Cancer, Table P-3.1. Assumes inhalation pathway only. Assumes 1 for DPM.
- [C] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/totables.pdf, Table 4 "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs."

Acute Hazard - Residential

There are no Acute Inhalation RELs for Diesel Particulate Matter, per Table 1 OEHHA/ARB Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values. https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf

John Smith Road Landfill - DEIR Table P-3D Landfill Area DPM Cancer Risk

Peak Yearly DPM Deposition for Receptors

| | 2018 Peak | 2019 Peak | 2020 Peak | | | | | |
|----------------------------|---------------|---------------|---------------|-------------|----------------|--------------------|--------------|----------|
| Receptor | Concentration | Concentration | Concentration | | | UTM Easting | UTM Northing | |
| | $(\mu g/m^3)$ | $(\mu g/m^3)$ | $(\mu g/m^3)$ | Receptor ID | Description | (m) | (m) | Elev (m) |
| | | | | | Boundary | | | |
| PMI | 12,408,169 | 10,870,574 | 12,924,632 | P40 | Perimeter 40 | 649980.44 | 4076626.71 | 214.82 |
| MEIR | 2,806,308 | 2,484,311 | 3,116,868 | RP_H31 | House 31 | 648659.32 | 4077241.2 | 205.79 |
| | | | | | Nearest | | | |
| MEIW | 2,029,204 | 2,274,519 | 2,615,205 | CR_WP_2 | Workplace | 648949 | 4077938 | 189.45 |
| | | | | | Rancho Santana | | | |
| School 1 | 350,639 | 188,442 | 244,067 | CR_SC_13 | School | 646058.93 | 4078443.2 | 128.52 |
| School 2 | 198,589 | 125,121 | 175,355 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | | | Grid Receptor | | | |
| Nearest Potential Receptor | 5,808,936 | 5,349,452 | 6,450,904 | G68 | 68 | 649980 | 4076373 | 231 |

Peak deposition obtained from AERMOD for flag pole elevation of 0 m.

^{*} Same as 2018

Calculation of Maximum Individual Cancer Risk for Diesel Engines

 $MICRr^{[1]} = SUM [CP * Q lb/hr-SF * \chi/Q * CEFr * MPr * MWAF * 10⁻⁶] =$

MICRr: Maximum Individual Cancer Risk - Residential

CP: Cancer Potency in (mg/kg-day)⁻¹

Q: Pollutant flow rate (lb/hr/SF)

χ/Q: Dispersion Factor in (μg/m3/lb/hr-SF) calculated using AERMOD for peak deposition at receptors

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

CEFr: Combined Exposure Factor, residential (L/kg-day) MPr: Multipathway Adjustment Factor (dimensionless)

10⁻⁶: Micrograms to milligrams conversion, liters to cubic meters conversion.

When:

DPM flow rate, Q = 4.57E-10 lb/hr-SF

John Smith Road Landfill - DEIR

Table P3-E

Calculated MICR

| Receptor | CP(mg/kg day) ⁻¹ [A] | χ/Q (μg/m³/lb/hr- SF) | CEF (L/kg-day) | MP [C] | MWAF [D] | MICR | MICR per Million | Receptor ID |
|----------------------------|---------------------------------|--------------------------|----------------|--------|----------|----------|---------------------|-------------|
| PMI | 1.1 | 5.90E-03 | 766.78 | 1 | 1 | 4.98E-06 | 4.98 | P13 |
| MEIR | 1.1 | 1.42E-03 | 766.78 | 1 | 1 | 1.20E-06 | 1.20 | RP_H31 |
| MEIW | 1.1 | 1.19E-03 | 55.86 | 1 | 1 | 7.34E-08 | 0.07 | CR_WP_2 |
| School 1 | 1.1 | 1.60E-04 | 389.23 | 1 | 1 | 6.86E-08 | 0.07 | CR_SC_13 |
| School 2 | 1.1 | 9.07E-05 | 389.23 | 1 | 1 | 3.88E-08 | 0.04 | CR_SC_14 |
| Nearest Potential Receptor | 1.1 | 2.95E-03 | 766.78 | 1 | 1 | 2.49E-06 | 2.49 | G68 |

^[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating MICR, Page 12.

[[]A] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Cancer Potency Factor."

[[]B] from SCAQMD Permit Application Package N, Version 8.1 page 14. "Combined Exposure Factor" for 70 years for PMI and MEIR, 9 years for MEIW, and 5 years for Schools. [C] SCAQMD Permit Application Package N, Version 8.1 Package N, Page 10. "Multipath way Adjustment" factors - Cancer, Table P-3.1. Assumes inhalation pathway only. Assumes 1 for DPM.

[[]D] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Molecular Weight Adjustment Factor."

Chronic Hazard Index - Residential

$$HIC^{[1]} = \chi * MWAF * MP * (1/REL)) =$$

HIC: Hazard Index - Chronic

χ: Dispersion (μg/m³) calculated using AERMOD

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

MP: Multipathway Adjustment Factor (dimensionless)

REL: Reference Exposure Level (μg/m³)

John Smith Road Landfill - DEIR

Table P3-F

Calculated HIC

| Б | | | | Respiratory | | |
|----------------------------|--------------------|----------|--------|-------------|----------|-------------|
| Receptor | $\chi (\mu g/m^3)$ | MWAF [A] | MP [B] | RELs [C] | HIC | Receptor ID |
| PMI | 5.90E-03 | 1 | 1 | 5 | 1.18E-03 | P13 |
| MEIR | 1.42E-03 | 1 | 1 | 5 | 2.85E-04 | RP_H31 |
| MEIW | 1.19E-03 | 1 | 1 | 5 | 2.39E-04 | CR_WP_2 |
| School 1 | 1.60E-04 | 1 | 1 | 5 | 3.20E-05 | CR_SC_13 |
| School 2 | 9.07E-05 | 1 | 1 | 5 | 1.81E-05 | CR_SC_14 |
| Nearest Potential Receptor | 2.95E-03 | 1 | 1 | 5 | 5.89E-04 | G68 |

- [1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating HIC, Page 19. [A] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment
- Health Values, "Molecular Weight Adjustment Factor."
- [B] SCAQMD Permit Application Package N, Version 8.1 Package N, Page 10. "Multipath way Adjustment" factors Cancer, Table P-3.1. Assumes inhalation pathway only. Assumes 1 for DPM.
- [C] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/totables.pdf, Table 4 "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs."

Acute Hazard - Residential

There are no Acute Inhalation RELs for Diesel Particulate Matter, per Table 1 OEHHA/ARB Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values. https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf

John Smith Road Landfill - DEIR Table P-4A Scenario 5 and Flare PM10 Concentrations

Peak Yearly DPM Deposition for Receptors

| Receptor | 2018 Peak Concentration (μg/m³) | 2019 Peak Concentration (μg/m³) | 2020 Peak Concentration (μg/m³) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) |
|----------|---------------------------------------|---------------------------------------|------------------------------------|-------------|--------------------------|-----------------|---------------------|----------|-------------|-------------|-----------------|---------------------|----------|-------------|-------------|-----------------|---------------------|----------|
| | | | | | Boundary | | | | | | | | | | | | | |
| PMI | 4.29631 | 3.9453 | 4.68082 | P37 | Perimeter 37 | 650791.48 | 4076854.05 | 246.79 | * | * | * | * | * | * | * | * | * | * |
| MEIR | 0.65392 | 0.55371 | 0.65992 | RP_H1 | House 1 | 650902 | 4076062 | 215.24 | * | * | * | * | * | * | * | * | * | * |
| MEIW | 0.37971 | 0.42668 | 0.51407 | CR_WP_2 | Nearest Worplace | 648949 | 4077938 | 189.45 | * | * | * | * | * | * | * | * | * | * |
| School 1 | 0.06921 | 0.04135 | 0.05172 | CR_SC_13 | Rancho Santana School | 646058.93 | 4078443.2 | 128.52 | ** | * | * | * | * | * | * | * | * | * |
| School 2 | 0.04465 | 0.0328 | 0.04293 | CR_SC_14 | Future School | 647269 | 4075575 | 158 | * | * | * | * | * | * | * | * | * | * |

Peak deposition obtained from AERMOD at flag pole elevation of 1.5m.

^{*} Same as 2018

John Smith Road Landfill - DEIR Table P-4B Scenario 5 and Flare PM10 Concentrations

Peak Yearly DPM Deposition for Receptors

| Rece | 2018 Peak Concentration (µg/m³) | 2019 Peak Concentration (μg/m³) | 2020 Peak Concentration (μg/m³) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) |
|----------|---------------------------------|---------------------------------------|------------------------------------|-------------|--------------------------|-----------------|---------------------|----------|-------------|-------------|-----------------|---------------------|----------|-------------|-------------|-----------------|---------------------|----------|
| | | | | | Boundary | | | | | | | | | | | | | ĺ |
| PMI | 4.28139 | 3.92194 | 4.66334 | P37 | Perimeter 37 | 650791.48 | 4076854.05 | 246.79 | * | * | * | * | * | * | * | * | * | * |
| MEIR | 0.65413 | 0.55474 | 0.6613 | RP_H1 | House 1 | 650902 | 4076062 | 215.24 | * | * | * | * | * | * | * | * | * | * |
| MEIW | 0.37941 | 0.42593 | 0.51371 | CR_WP_2 | Nearest Worplace | 648949 | 4077938 | 189.45 | * | * | * | * | * | * | * | * | * | * |
| School 1 | 0.06919 | 0.04133 | 0.05171 | CR_SC_13 | Rancho Santana School | 646058.93 | 4078443.2 | 128.52 | * | * | * | * | * | * | * | * | * | * |
| School 2 | 0.04463 | 0.03278 | 0.04291 | CR_SC_14 | Future School | 647269 | 4075575 | 158 | * | * | * | * | * | * | * | * | * | * |

Peak deposition obtained from AERMOD at flag pole elevation of 0m.

* Same as 2018

John Smith Road Landfill -DEIR Table P-5A Peak Flare SO2 Ground Level Concentrations

1-hr Peak Concentrations

| - | | | | oncentrations | | | |
|----------|-----------------------------|-----------------------|----------|-----------------------|-------------|--------------|----------|
| | | | 20 | 18 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting (m) | Northing (m) | Elev (m) |
| PMI | 0.68984 | 27.1 | P23 | Boundary Perimeter 23 | 650776.81 | 4077553.84 | 267.9 |
| MEIR | 0.17529 | 6.9 | RP_H25 | House 25 | 647823.91 | 4076643.73 | 168.29 |
| MEIW | 0.10712 | 4.2 | CR_WP_1 | Workplace | 646402 | 4076879.07 | 146.33 |
| School 1 | 0.06988 | 2.7 | CR_SC_13 | Rancho Santana School | 646058.93 | 4078443.2 | 128.52 |
| School 2 | 0.08783 | 3.4 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | 20 | 19 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting | Northing | Elev |
| PMI | 0.59816 | 23.5 | G85 | Grid Receptor 85 | 650944 | 4077573 | 276.5 |
| MEIR | 0.20031 | 7.9 | RP_H9 | House 9 | 648218.58 | 4076108.95 | 182.28 |
| MEIW | 0.24515 | 9.6 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.06332 | 2.5 | CR_SC_13 | Rancho Santana School | 646058.93 | 4078443.2 | 128.52 |
| School 2 | 0.14609 | 5.7 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | 20 | 20 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting | Northing | Elev |
| PMI | 0.68859 | 27.0 | G85 | Grid Receptor 85 | 650944 | 4077573 | 276.5 |
| MEIR | 0.17081 | 6.7 | RP_H2 | House 2 | 648371.71 | 4075470.41 | 173.69 |
| MEIW | 0.07455 | 2.9 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.08629 | 3.4 | CR_SC_13 | Rancho Santana School | 646058.93 | 4078443.2 | 128.52 |
| School 2 | 0.04735 | 1.9 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |

3-hr Peak Concentrations

| | | | 3-III Feak Co | ncentrations | | | |
|----------|----------------------|-----------------------|---------------|-----------------------|-----------|------------|--------|
| | | | 20 | 18 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting | Northing | Elev |
| PMI | 0.36012 | 14.1 | P9 | Boundary Perimeter 9 | 649384.06 | 4077536.25 | 258.43 |
| MEIR | 0.12291 | 4.8 | RP_H1 | House 1 | 648659.32 | 4077241.2 | 205.79 |
| MEIW | 0.03753 | 1.5 | CR_WP_1 | Workplace | 646402 | 4076879.07 | 146.33 |
| School 1 | 0.03029 | 1.2 | CR_SC_13 | Rancho Santana School | 646058.93 | 4078443.2 | 128.52 |
| School 2 | 0.02928 | 1.1 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | 20 | 19 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting | Northing | Elev |
| PMI | 0.33297 | 13.1 | G80 | Grid Receptor 80 | 650544 | 4075573 | 268.2 |
| MEIR | 0.15839 | 6.2 | RP_H1 | House 1 | 648659.32 | 4077241.2 | 205.79 |
| MEIW | 0.08764 | 3.4 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.02799 | 1.1 | CR_SC_13 | Rancho Santana School | 646058.93 | 4078443.2 | 128.52 |
| School 2 | 0.04877 | 1.9 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | 20: | 20 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting | Northing | Elev |
| PMI | 0.42138 | 16.5 | G80 | Grid Receptor 80 | 650544 | 4075573 | 268.2 |
| MEIR | 0.12436 | 4.9 | RP_H1 | House 1 | 648659.32 | 4077241.2 | 205.79 |
| MEIW | 0.03499 | 1.4 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.02917 | 1.1 | CR_SC_13 | Rancho Santana School | 646058.93 | 4078443.2 | 128.52 |
| School 2 | 0.02093 | 0.8 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |

John Smith Road Landfill -DEIR Table P-5A Peak Flare SO2 Ground Level Concentrations

24-hr Peak Concentrations

| | | | 20 | 18 | | | |
|----------|-----------------------------|-----------------------|---------|-----------------------|-------------|--------------|----------|
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting (m) | Northing (m) | Elev (m) |
| PMI | 0.12549 | 4.92 | P52 | Boundary Perimeter 52 | 648986.7 | 4076710.52 | 192.42 |
| MEIR | 0.03669 | 1.44 | RP_H1 | House 1 | 648659.32 | 4077241.2 | 205.79 |
| MEIW | 0.01152 | 0.45 | CR_WP_1 | Workplace | 646402 | 4076879.07 | 146.33 |
| School 1 | 0.00381 | 0.15 | G40 | Grid Receptor 40 | 648944 | 4075573 | 185.6 |
| School 2 | 0.00299 | 0.12 | G41 | Grid Receptor 41 | 649344 | 4079173 | 187.4 |
| | | | 20 | 19 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting (m) | Northing (m) | Elev (m) |
| PMI | 0.1134 | 4.45 | P46 | Boundary Perimeter 46 | 649482.48 | 4076383.73 | 207.5 |
| MEIR | 0.0346 | 1.36 | RP_H1 | House 1 | 648659.32 | 4077241.2 | 205.79 |
| MEIW | 0.011 | 0.43 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.03999 | 1.57 | G49 | Grid Receptor 49 | 649344 | 4075973 | 227.2 |
| School 2 | 0.01046 | 0.41 | G5 | Grid Receptor 5 | 647744 | 4077573 | 163.8 |
| | | | 20 | 20 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting (m) | Northing (m) | Elev (m) |
| PMI | 0.1134 | 4.45 | P46 | Boundary Perimeter 46 | 649482.48 | 4076383.73 | 207.5 |
| MEIR | 0.0346 | 1.36 | RP_H1 | House 1 | 648659.32 | 4077241.2 | 205.79 |
| MEIW | 0.011 | 0.43 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.0033 | 0.13 | G55 | Grid Receptor 55 | 649744 | 4077573 | 221.6 |
| School 2 | 0.09743 | 3.82 | G58 | Grid Receptor 58 | 649744 | 4076373 | 211.7 |

1-yr Peak Concetrations

| | | | 20 | 19 | | | |
|----------|----------------------|-----------------------|----------|-----------------------|-------------|--------------|----------|
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting (m) | Northing (m) | Elev (m) |
| PMI | 0.03063 | 1.201 | P46 | Boundary Perimeter 46 | 649482.48 | 4076383.73 | 207.5 |
| MEIR | 0.00261 | 0.102 | RP_H1 | House 1 | 648659.32 | 4077241.2 | 205.79 |
| MEIW | 0.0006 | 0.024 | CR_WP_1 | Workplace | 646402 | 4076879.07 | 146.33 |
| School 1 | 0.00085 | 0.033 | CR_SC_13 | Rancho Santana School | 646058.93 | 4078443.2 | 128.52 |
| School 2 | 0.00016 | 0.006 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | 20 | 19 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting (m) | Northing (m) | Elev (m) |
| PMI | 0.03376 | 1.324 | P46 | Boundary Perimeter 46 | 649482.48 | 4076383.73 | 207.5 |
| MEIR | 0.00628 | 0.246 | RP_H1 | House 1 | 648659.32 | 4077241.2 | 205.79 |
| MEIW | 0.00108 | 0.042 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.00081 | 0.032 | CR_SC_13 | Rancho Santana School | 646058.93 | 4078443.2 | 128.52 |
| School 2 | 0.00015 | 0.006 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | 20: | 20 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting (m) | Northing (m) | Elev (m) |
| PMI | 0.03607 | 1.415 | P46 | Boundary Perimeter 46 | 649482.48 | 4076383.73 | 207.5 |
| MEIR | 0.00363 | 0.142 | RP_H1 | House 1 | 648659.32 | 4077241.2 | 205.79 |
| MEIW | 0.00069 | 0.027 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.00062 | 0.024 | CR_SC_13 | Rancho Santana School | 646058.93 | 4078443.2 | 128.52 |
| School 2 | 0.00017 | 0.007 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |

Highlighted rows indicate p Highlighted cells indicate corresponding peak of the years analyzed.

John Smith Road Landfill -DEIR Table P-5B Peak Flare SO2 1.5m Concentrations

1-hr Peak Concentrations

| 1 | | | I III I CUIII CO | incenti ations | | | |
|----------|----------------------|-----------------------|------------------|-----------------------|-------------|--------------|----------|
| | | | 20: | 18 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting (m) | Northing (m) | Elev (m) |
| PMI | 0.73471 | 28.8 | P9 | Boundary Perimeter 9 | 649384 | 4077536 | 258.43 |
| MEIR | 0.17609 | 6.9 | RP_H25 | House 25 | 647824 | 4076644 | 168.29 |
| MEIW | 0.10747 | 4.2 | CR_WP_1 | Workplace | 646402 | 4076879 | 146.33 |
| School 1 | 0.07006 | 2.7 | CR_SC_13 | Rancho Santana School | 646059 | 4078443 | 128.52 |
| School 2 | 0.08819 | 3.5 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | 20 | 19 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting | Northing | Elev |
| PMI | 0.64976 | 25.5 | P9 | Boundary Perimeter 9 | 649384 | 4077536 | 258.43 |
| MEIR | 0.20174 | 7.9 | RP_H9 | House 9 | 648219 | 4076109 | 182.28 |
| MEIW | 0.24685 | 9.7 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.06344 | 2.5 | CR_SC_13 | Rancho Santana School | 646059 | 4078443 | 128.52 |
| School 2 | 0.14666 | 5.8 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | 202 | 20 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting | Northing | Elev |
| PMI | 0.73662 | 28.9 | P9 | Boundary Perimeter 9 | 649384 | 4077536 | 258.43 |
| MEIR | 0.17172 | 6.7 | RP_H2 | House 2 | 648372 | 4075470 | 173.69 |
| MEIW | 0.0753 | 3.0 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.08654 | 3.4 | CR_SC_13 | Rancho Santana School | 646059 | 4078443 | 128.52 |
| School 2 | 0.04748 | 1.9 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |

3-hr Peak Concentrations

| | | | 3-III Feak Co | neenti utions | | | |
|----------|----------------------|-----------------------|---------------|-----------------------|---------|----------|--------|
| | | | 20: | 18 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting | Northing | Elev |
| PMI | 0.39489 | 15.5 | P9 | Boundary Perimeter 9 | 649384 | 4077536 | 258.43 |
| MEIR | 0.1267 | 5.0 | RP_H1 | House 1 | 648659 | 4077241 | 205.79 |
| MEIW | 0.03756 | 1.5 | CR_WP_1 | Workplace | 646402 | 4076879 | 146.33 |
| School 1 | 0.03029 | 1.2 | CR_SC_13 | Rancho Santana School | 646059 | 4078443 | 128.52 |
| School 2 | 0.0294 | 1.2 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | 20 | 19 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting | Northing | Elev |
| PMI | 0.33829 | 13.3 | G80 | Grid Receptor 80 | 650544 | 4075573 | 268.2 |
| MEIR | 0.1613 | 6.3 | RP_H1 | House 1 | 648659 | 4077241 | 205.79 |
| MEIW | 0.08823 | 3.5 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.028 | 1.1 | CR_SC_13 | Rancho Santana School | 646059 | 4078443 | 128.52 |
| School 2 | 0.04895 | 1.9 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | 202 | 20 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting | Northing | Elev |
| PMI | 0.42915 | 16.8 | G80 | Grid Receptor 80 | 650544 | 4075573 | 268.2 |
| MEIR | 0.12766 | 5.0 | RP_H1 | House 1 | 648659 | 4077241 | 205.79 |
| MEIW | 0.03515 | 1.4 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.02925 | 1.1 | CR_SC_13 | Rancho Santana School | 646059 | 4078443 | 128.52 |
| School 2 | 0.02099 | 0.8 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |

John Smith Road Landfill -DEIR Table P-5B Peak Flare SO2 1.5m Concentrations

24-hr Peak Concentrations

| r | | | 2 . m. r can c | oncenti ations | | | |
|----------|-----------------------------|-----------------------|----------------|-----------------------|-------------|--------------|----------|
| | | | 20 | 18 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting (m) | Northing (m) | Elev (m) |
| PMI | 0.12637 | 4.96 | P52 | Boundary Perimeter 52 | 648987 | 4076711 | 192.42 |
| MEIR | 0.03748 | 1.47 | RP_H1 | House 1 | 648659 | 4077241 | 205.79 |
| MEIW | 0.01154 | 0.45 | CR_WP_1 | Workplace | 646402 | 4076879 | 0.01154 |
| School 1 | 0.01032 | 0.40 | CR_SC_13 | Rancho Santana School | 646059 | 4078443 | 128.52 |
| School 2 | 0.00379 | 0.15 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | 20 | 19 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting (m) | Northing (m) | Elev (m) |
| PMI | 0.11472 | 4.50 | P46 | Boundary Perimeter 46 | 649482 | 4076384 | 207.5 |
| MEIR | 0.07178 | 2.82 | RP_H1 | House 1 | 648659 | 4077241 | 205.79 |
| MEIW | 0.01771 | 0.69 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.00801 | 0.31 | CR_SC_13 | Rancho Santana School | 646059 | 4078443 | 128.52 |
| School 2 | 0.00616 | 0.24 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | 20 | 20 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting (m) | Northing (m) | Elev (m) |
| PMI | 0.11807 | 4.63 | P46 | Boundary Perimeter 46 | 649482 | 4076384 | 207.5 |
| MEIR | 0.0354 | 1.39 | RP_H1 | House 1 | 648659 | 4077241 | 205.79 |
| MEIW | 0.01108 | 0.43 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.01001 | 0.39 | CR_SC_13 | Rancho Santana School | 646059 | 4078443 | 128.52 |
| School 2 | 0.00275 | 0.11 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |

1-yr Peak Concetrations

| | | | 1-yr Peak Co | 18 | | | |
|----------|----------------------|-----------------------|--------------|-----------------------|-------------|--------------|----------|
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting (m) | Northing (m) | Elev (m) |
| PMI | 0.03187 | 1.250 | P46 | Boundary Perimeter 46 | 649482 | 4076384 | 207.5 |
| MEIR | 0.00264 | 0.104 | RP_H1 | House 1 | 648659 | 4077241 | 205.79 |
| MEIW | 0.0006 | 0.024 | CR_WP_1 | Workplace | 646402 | 4076879 | 146.33 |
| School 1 | 0.00085 | 0.033 | CR_SC_13 | Rancho Santana School | 646059 | 4078443 | 128.52 |
| School 2 | 0.00016 | 0.006 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| • | | | 20 | 19 | • | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting (m) | Northing (m) | Elev (m) |
| PMI | 0.03516 | 1.379 | P46 | Boundary Perimeter 46 | 649482 | 4076384 | 207.5 |
| MEIR | 0.00638 | 0.250 | RP H1 | House 1 | 648659 | 4077241 | 205.79 |
| MEIW | 0.00108 | 0.042 | CR_WP_2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.00081 | 0.032 | CR SC 13 | Rancho Santana School | 646059 | 4078443 | 128.52 |
| School 2 | 0.00015 | 0.006 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| | | | 20 | 20 | | | |
| Point | Concentration Factor | Concentration (µg/m³) | ID | Description | Easting (m) | Northing (m) | Elev (m) |
| PMI | 0.03748 | 1.470 | P46 | Boundary Perimeter 46 | 649482 | 4076384 | 207.5 |
| MEIR | 0.00368 | 0.144 | RP H1 | House 1 | 648659 | 4077241 | 205.79 |
| MEIW | 0.00069 | 0.027 | CR WP 2 | Nearest Workplace | 648949 | 4077938 | 189.45 |
| School 1 | 0.00063 | 0.025 | CR_SC_13 | Rancho Santana School | 646059 | 4078443 | 128.52 |
| School 2 | 0.00017 | 0.007 | CR SC 14 | Future School | 647269 | 4075575 | 158 |

Highlighted rows indicate p Highlighted cells indicate corresponding peak of the years analyzed.

John Smith Road Landfill - DEIR Table P-6A John Smith Road DPM Cancer Risk

Peak Yearly DPM Deposition for Receptors

| Receptor | 2018 Peak Concentration (μg/m³) | 2019 Peak Concentration (μg/m³) | 2020 Peak Concentration (μg/m³) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) |
|----------------------|---------------------------------------|---------------------------------------|---------------------------------------|-------------|--------------------------|-----------------|------------------|----------|
| | | | | | | | | |
| PMI | 3.4489 | 3.2003 | 3.5485 | G6 | Grid Receptor 6 | 647744 | 4077173 | 158.4 |
| MEIR | 2.8872 | 2.4673 | 2.8406 | RP_H42 | House 42 | 647286.42 | 4077474.4 | 149.68 |
| MEIW | 0.1975 | 0.1681 | 0.2162 | CR_WP_1 | Workplace | 646402 | 4076879.07 | 146.33 |
| School 1 | 0.1396 | 0.1525 | 0.1809 | CR_SC_13 | Rancho Santana School | 646058.93 | 4078443.2 | 128.52 |
| School 2 | 0.0720 | 0.0682 | 0.0861 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |
| Grid Receptor | 0.0221 | 0.0219 | 0.0207 | G68 | Grid Receptor 68 | 650144 | 4076373 | 231.4 |
| | | | | · | Boundary | | | |
| LF Boundary | 0.0312 | 0.0298 | 0.0287 | P40 | Perimeter 40 | 649980.44 | 4076626.71 | 214.82 |
| House SE of Landfill | 0.0207 | 0.0191 | | RP_H31 | House 31 | 648659.32 | 4077241.2 | 205.79 |
| Nearest Workplace | 0.0416 | 0.0270 | 0.0263 | CR WP 2 | Nearest Workplace | 648949 | 4077938 | 189.45 |

Peak deposition obtained from AERMOD for flag pole elevation of 0 m.

^{*} Same as 2018

Calculation of Maximum Individual Cancer Risk for Diesel Engines

 $MICRr^{[1]} = SUM [CP * Q lb/hr * \chi/Q * CEFr * MPr * MWAF * 10^{-6}] =$

Where

MICRr: Maximum Individual Cancer Risk - Residential

CP: Cancer Potency in (mg/kg-day)⁻¹

Q: Pollutant flow rate (lb/hr/SF)

χ/Q: Dispersion Factor in (μg/m3/lb/hr-SF) calculated using AERMOD for peak deposition at receptors

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

CEFr: Combined Exposure Factor, residential (L/kg-day)
MPr: Multipathway Adjustment Factor (dimensionless)

10⁻⁶: Micrograms to milligrams conversion, liters to cubic meters conversion.

When:

DPM flow rate, Q =

0.0019 lb/day 7.92E-05 lb/hr

John Smith Road Landfill - DEIR

Table P-6B

Calculated MICR

| Receptor | CP(mg/kg day) ⁻¹ [A] | χ/Q (μg/m³/lb/hr) | CEF (L/kg-day) [B] | MP [C] | MWAF [D] | MICR | MICR per Million | Receptor ID |
|----------------------|---------------------------------|-------------------|--------------------|--------|----------|----------|---------------------|-------------|
| PMI | 1.1 | 2.81E-04 | 766.78 | 1 | 1 | 2.37E-07 | 0.237 | G6 |
| MEIR | 1.1 | 2.29E-04 | 766.78 | 1 | 1 | 1.93E-07 | 0.193 | RP_H42 |
| MEIW | 1.1 | 1.71E-05 | 55.86 | 1 | 1 | 1.05E-09 | 0.001 | CR_WP_1 |
| School 1 - Student | 1.1 | 1.43E-05 | 389.23 | 1 | 1 | 6.13E-09 | 0.006 | CR_SC_13 |
| School 2 - Student | 1.1 | 6.82E-06 | 389.23 | 1 | 1 | 2.92E-09 | 0.003 | CR_SC_14 |
| LF Boundary | 1.1 | 2.47E-06 | 766.78 | 1 | 1 | 2.08E-09 | 0.002 | P40 |
| House SE of Landfill | 1.1 | 1.64E-06 | 766.78 | 1 | 1 | 1.38E-09 | 0.001 | RP_H31 |
| Neaerest Workplace | 1.1 | 3.30E-06 | 55.86 | 1 | 1 | 2.03E-10 | 0.000 | CR_WP_2 |
| Grid Receptor | 1.1 | 1.75E-06 | 766.78 | 1 | 1 | 1.48E-09 | 0.001 | G68 |

^[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating MICR, Page 12.

[[]A] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Cancer Potency Factor."

[[]B] from SCAQMD Permit Application Package N, Version 8.1 page 14. "Combined Exposure Factor" for 70 years for PMI and MEIR, 25 years for MEIW, and 5 years, 24 hrs for Schools to simulate 15 years. 8 hr/day

[[]C] SCAQMD Permit Application Package N, Version 8.1 Package N, Page 10. "Multipath way Adjustment" factors - Cancer, Table P-3.1. Assumes inhalation pathway only. Assumes 1 for DPM.

[[]D] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Molecular Weight Adjustment Factor."

Chronic Hazard Index - Residential

$$HIC^{[1]} = \chi * MWAF * MP * (1/REL)) =$$

HIC: Hazard Index - Chronic

χ: Dispersion (μg/m³) calculated using AERMOD

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

MP: Multipathway Adjustment Factor (dimensionless)

REL: Reference Exposure Level (μg/m³)

John Smith Road Landfill - DEIR

Table P-6C

Calculated HIC

| D / | | | | Respiratory | | |
|----------------------|--------------------|----------|--------|-------------|----------|-------------|
| Receptor | $\chi (\mu g/m^3)$ | MWAF [A] | MP [B] | RELs [C] | HIC | Receptor ID |
| PMI | 2.81E-04 | 1 | 1 | 5 | 5.62E-05 | G68 |
| MEIR | 2.29E-04 | 1 | 1 | 5 | 4.57E-05 | RP_H42 |
| MEIW | 1.71E-05 | 1 | 1 | 5 | 3.42E-06 | CR_WP_1 |
| School 1 | 1.43E-05 | 1 | 1 | 5 | 2.86E-06 | CR_SC_13 |
| School 2 | 6.82E-06 | 1 | 1 | 5 | 1.36E-06 | CR_SC_14 |
| LF Boundary | 2.47E-06 | 1 | 1 | 5 | 4.94E-07 | P40 |
| House SE of Landfill | 1.64E-06 | 1 | 1 | 5 | 3.28E-07 | RP_H31 |
| Neaerest Workplace | 3.30E-06 | 1 | 1 | 5 | 6.59E-07 | CR_WP_2 |
| Grid Receptor | 1.75E-06 | 1 | 1 | 5 | 3.51E-07 | G68 |

- [1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating HIC, Page 19. [A] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment
- Health Values, "Molecular Weight Adjustment Factor."
- [B] SCAQMD Permit Application Package N, Version 8.1 Package N, Page 10. "Multipath way Adjustment" factors Cancer, Table P-3.1. Assumes inhalation pathway only. Assumes 1 for DPM.
- [C] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/totables.pdf, Table 4 "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs."

Acute Hazard - Residential

There are no Acute Inhalation RELs for Diesel Particulate Matter, per Table 1 OEHHA/ARB Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values. https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf

John Smith Road Landfill - DEIR Table P6D Queuing DPM AERMOD Analysis

Peak Yearly DPM Deposition for Receptors

| Receptor | 2018 Peak Concentration (μg/m³) | 2019 Peak Concentration (μg/m³) | 2020 Peak Concentration (μg/m³) | Receptor ID | Description | UTM Easting (m) | UTM Northing (m) | Elev (m) |
|----------|---------------------------------------|---------------------------------------|------------------------------------|-------------|-----------------------|-----------------|------------------|----------|
| PMI | 1.73E-04 | 1.73E-04 | 2.20E-04 | P50 | Boundary Perimeter 50 | 649156.2 | 4076605.17 | 195.87 |
| MEIR | 4.67E-05 | 4.67E-05 | 5.33E-05 | RP_1 | House 1 | 648659.32 | 4077241.2 | 205.79 |
| MEIW | 3.33E-06 | 0.00E+00 | 0.00E+00 | CR_WP_2 | Nearest Worplace | 648949 | 4077938 | 189.45 |
| School 1 | 0 | 0 | 0 | CR_SC_13 | Rancho Santana School | 646058.93 | 4078443.2 | 128.52 |
| School 2 | 0 | 0 | 0 | CR_SC_14 | Future School | 647269 | 4075575 | 158 |

Peak deposition obtained from AERMOD on peak traffic day (one day per year)

Calculation of Maximum Individual Cancer Risk for Diesel Engines

 $MICRr^{[1]} = SUM [CP * \chi * CEFr * MPr * MWAF * 10^{-6}/365] =$

Where:

MICRr: Maximum Individual Cancer Risk - Residential

CP: Cancer Potency in (mg/kg-day)¹

χ: Dispersion in (μg/m3) calculated using AERMOD for peak deposition at receptor

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

CEFr: Combined Exposure Factor, residential (L/kg-day) MPr: Multipathway Adjustment Factor (dimensionless)

10⁻⁶: Micrograms to milligrams conversion, liters to cubic meters conversion.

365: days per year as this condition occurs once per year.

When:

Table P6E

Queuing DPM MICR

| Receptor | CP(mg/kg day) ⁻¹ [A] | χ (μg/m³) | CEF (L/kg-day) [B] | MP [C] | MWAF [D] | MICR | MICR per Million |
|----------|---------------------------------|-----------|--------------------|--------|----------|----------|---------------------|
| PMI | 1.1 | 2.20E-04 | 766.78 | 1 | 1 | 5.08E-10 | 0.0005 |
| MEIR | 1.1 | 5.33E-05 | 766.78 | 1 | 1 | 1.23E-10 | 0.0001 |
| MEIW | 1.1 | 3.33E-06 | 55.86 | 1 | 1 | 5.69E-12 | 0.0000 |
| School 1 | 1.1 | 0.00E+00 | 389.23 | 1 | 1 | 0.00E+00 | 0.00 |
| School 2 | 1.1 | 0.00E+00 | 389.23 | 1 | 1 | 0.00E+00 | 0.00 |

^[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating MICR, Page 12.

[[]A] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Cancer Potency Factor."

[[]B] from SCAQMD Permit Application Package N, Version 8.1 page 14. "Combined Exposure Factor" for 70 years for PMI and MEIR, 9 years for MEIW, and 5 years for Schools.

[[]C] SCAQMD Permit Application Package N, Version 8.1 Package N, Page 10. "Multipath way Adjustment" factors - Cancer, Table P-3.1. Assumes inhalation pathway only. Assumes 1 for DPM.

[[]D] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Molecular Weight Adjustment Factor."

Chronic Hazard Index - Residential

$$HIC^{[1]} = \chi * MWAF * MP * (1/REL) / 365 =$$

HIC: Hazard Index - Chronic

χ: Dispersion (μg/m³) calculated using AERMOD

MWAF: Molecular weight adjustment factor (dimensionless), available from CARB Consolidated Health Value Table

MP: Multipathway Adjustment Factor (dimensionless)

REL: Reference Exposure Level (μg/m³)

365: Occurs once per year on highest traffic day.

Table P6E

Queuing DPM HIC

| Receptor | χ (μg/m ³) | MWAF [A] | MP [B] | Respiratory RELs [C] | ніс |
|----------|------------------------|----------|--------|-------------------------|----------|
| PMI | 2.20E-04 | 1 | 1 | 5 | 1.21E-07 |
| MEIR | 5.33E-05 | 1 | 1 | 5 | 2.92E-08 |
| MEIW | 3.33E-06 | 1 | 1 | 5 | 1.83E-09 |
| School 1 | 0.00E+00 | 1 | 1 | 5 | 0 |
| School 2 | 0.00E+00 | 1 | 1 | 5 | 0 |

^[1] SCAQMD Risk Assessment Procedures for Rule 1401 and Rule 212, Version 8.1, Revised September 1, 2017, Tier 2 Screening Risk Assessment, Instructions for Calculating HIC, Page 19.

Acute Hazard - Residential

There are no Acute Inhalation RELs for Diesel Particulate Matter, per Table 1 OEHHA/ARB Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values. https://www2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf

[[]A] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/contable.pdf, Table 1, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, "Molecular Weight Adjustment Factor."

[[]B] SCAQMD Permit Application Package N, Version 8.1 Package N, Page 10. "Multipath way Adjustment" factors - Cancer, Table P-3.1. Assumes inhalation pathway only. Assumes 1 for DPM.

[[]C] https://ww2.arb.ca.gov/sites/default/files/classic//toxics/healthval/totables.pdf, Table 4 - "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs."

* AERMET (21112): 2018 16:18:56

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
|------------|---------|--------------|--------|--------|-------|--------|-----|----------------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.00229 | 123.85 | 123.85 | 0 | ANNUAL | ALL | 1 | AQ Monitoring Station | AQ_ST_1 | |
| 643903.65 | 4077719 | 0.00168 | 105.68 | 105.68 | 0 | ANNUAL | ALL | 1 | Hazel Hawkins Memorial Hospital | CR HP 1 | |
| 642056.782 | 4079416 | 0.00148 | 85.12 | 85.12 | 0 | ANNUAL | ALL | 1 | Dunne Park | CR PK 1 | |
| 642179.095 | 4079950 | 0.00142 | 117.99 | 117.99 | 0 | ANNUAL | ALL | 1 | Vista Park Hill Park | CR PK 2 | |
| 644733.142 | 4078753 | 0.00205 | 106.44 | 106.44 | 0 | ANNUAL | ALL | 1 | Las Brisas Park | CR PK 3 | |
| 645608.808 | 4078854 | 0.00213 | 112.86 | 112.86 | 0 | ANNUAL | ALL | 1 | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238.054 | 4078807 | 0.00196 | 95.25 | 95.25 | 0 | ANNUAL | ALL | 1 | Veterans Memorial Park | CR_PK_5 | |
| 645311.476 | 4076559 | 0.00115 | 134.61 | 134.61 | 0 | ANNUAL | ALL | 1 | Park 6 | CR_PK_6 | |
| 649581.689 | 4073424 | 0.00171 | 159.96 | 318 | 0 | ANNUAL | ALL | 1 | Park 7 | CR_PK_7 | |
| 645145.11 | 4077181 | 0.00169 | 133 | 133 | 0 | ANNUAL | ALL | 1 | Cerra Vista Elem School | CR_SC_1 | |
| 642904.712 | 4079955 | 0.00145 | 86 | 86 | 0 | ANNUAL | ALL | 1 | San Andreas Continuation | CR_SC_10 | |
| 645850.678 | 4074015 | 0.00035 | 123 | 313 | 0 | ANNUAL | ALL | 1 | SouthSide School | CR_SC_11 | |
| 642105.679 | | 0.00136 | 91 | 91 | 0 | ANNUAL | ALL | 1 | School 12 | CR_SC_12 | |
| 646058.93 | 4078443 | 0.00238 | 128.52 | 128.52 | 0 | ANNUAL | ALL | 1 | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.00045 | 158 | 158 | 0 | ANNUAL | ALL | 1 | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.00062 | 159 | 240 | 0 | ANNUAL | ALL | 1 | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644109.6 | 4078389 | 0.00197 | 98.2 | 98.2 | 0 | ANNUAL | ALL | 1 | Sunnyslope Elem School | CR_SC_2 | |
| 643920.12 | 4077304 | 0.00136 | 101.23 | 101.23 | 0 | ANNUAL | ALL | 1 | Hollister Montessori School | CR_SC_3 | |
| 642961.07 | 4078621 | 0.00165 | 92 | 92 | 0 | ANNUAL | ALL | 1 | Rancho San Justo Middle School | CR_SC_4 | |
| 643980.02 | 4079743 | 0.00163 | 88 | 88 | 0 | ANNUAL | ALL | 1 | Marguerite Maze Middle School | CR_SC_5 | |
| 641630.17 | 4079153 | 0.0014 | 85 | 85 | 0 | ANNUAL | ALL | 1 | Hollister Prep Schoo | CR_SC_6 | |
| 643350.03 | 4077181 | 0.00118 | 98.22 | 98.22 | 0 | ANNUAL | ALL | 1 | Ladd Lane Elementary School | CR_SC_7 | |
| 644002.96 | 4080079 | 0.0016 | 87 | 87 | 0 | ANNUAL | ALL | 1 | Gabilan Hills Elementary School | CR_SC_8 | |
| 642244.858 | 4078413 | 0.00146 | 90.17 | 90.17 | 0 | ANNUAL | ALL | 1 | San Benito High School | CR_SC_9 | |
| 642083.447 | 4079794 | 0.00143 | 87.58 | 127 | 0 | ANNUAL | ALL | 1 | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.00192 | 146.33 | 153 | 0 | ANNUAL | ALL | 1 | Workplace | CR_WP_1 | MEIW |
| 648949 | 4077938 | 0.00097 | 189.45 | 259 | 0 | ANNUAL | ALL | 1 | Nearest Workplace | CR_WP_2 | |
| 647744 | 4079173 | 0.00178 | 155.2 | 155.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.00038 | 160 | 160 | 0 | ANNUAL | ALL | 1 | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.00928 | 252.9 | 252.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.00118 | 165.9 | 165.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.00159 | 159.6 | 159.6 | 0 | ANNUAL | ALL | 1 | Grid Receptor 12 | G12 | |
| 648144 | 4078373 | 0.00233 | 146.2 | 146.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 13 | G13 | |
| 648144 | 4077973 | 0.00363 | 158.3 | 181 | 0 | ANNUAL | ALL | 1 | Grid Receptor 14 | G14 | |
| 648144 | 4077573 | 0.00461 | 166.6 | 179 | 0 | ANNUAL | ALL | 1 | Grid Receptor 15 | G15 | |
| 648144 | 4077173 | 0.00567 | 175.4 | 175.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 16 | G16 | |
| 648144 | 4076773 | 0.00481 | 177.1 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 17 | G17 | |
| 648144 | 4076373 | 0.00159 | 178 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 18 | G18 | |
| 648144 | 4075973 | 0.00056 | 173 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 19 | G19 | |
| 647744 | 4078773 | 0.00237 | 145.4 | 145.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 2 | G2 | |

09/01/21

* AERMET (21112): 2018

16:18:56

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*

- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|--------|---------|--------------|-------|-------|-------|--------|-----|----------------|------------------|-----|
| 648144 | 4075573 | 0.0004 | 168.8 | 190 | 0 | ANNUAL | ALL | 1 | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.00078 | 173.5 | 191 | 0 | ANNUAL | ALL | 1 | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.00095 | 166.2 | 166.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.00128 | 145.4 | 253 | 0 | ANNUAL | ALL | 1 | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.00218 | 173.9 | 214 | 0 | ANNUAL | ALL | 1 | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.00436 | 179.6 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.00703 | 191 | 226 | 0 | ANNUAL | ALL | 1 | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.01032 | 209.2 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.00437 | 233.7 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.00066 | 199.9 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.0032 | 144.4 | 144.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.00058 | 195.5 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.00057 | 190.4 | 194 | 0 | ANNUAL | ALL | 1 | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.0006 | 165.4 | 165.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.00068 | 159.6 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.00093 | 183.5 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.00213 | 224 | 226 | 0 | ANNUAL | ALL | 1 | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.00259 | 205 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.00113 | 208.8 | 220 | 0 | ANNUAL | ALL | 1 | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.00365 | 134.6 | 181 | 0 | ANNUAL | ALL | 1 | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00083 | 185.6 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00053 | 187.4 | 801 | 0 | ANNUAL | ALL | 1 | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.00053 | 160.9 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.00061 | 200.5 | 221 | 0 | ANNUAL | ALL | 1 | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 0.00115 | 229 | 253 | 0 | ANNUAL | ALL | 1 | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.00579 | 253.3 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.02226 | 220.2 | 263 | 0 | ANNUAL | ALL | 1 | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.00775 | 227.2 | 227.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.00393 | 163.8 | 171 | 0 | ANNUAL | ALL | 1 | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.00358 | 205.5 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.00049 | 176.1 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00054 | 195 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00061 | 196.1 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.00079 | 215.3 | 251 | 0 | ANNUAL | ALL | 1 | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.00111 | 221.6 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.03174 | 211.7 | 266 | 0 | ANNUAL | ALL | 1 | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.03515 | 237.7 | 257 | 0 | ANNUAL | ALL | 1 | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.00487 | 158.4 | 171 | 0 | ANNUAL | ALL | 1 | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.00911 | 204.2 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.0005 | 173 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 61 | G61 |

* AERMET (21112): 2018

16:18:56

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|-------|-------|--------|-----|----------------|-----------------------|-----|
| 650144 | 4078773 | 0.00054 | 171 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00074 | 204.6 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.00102 | 216.5 | 290 | 0 | ANNUAL | ALL | 1 | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.00358 | 257.7 | 257.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.01771 | 231.4 | 272 | 0 | ANNUAL | ALL | 1 | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.02684 | 249.4 | 266 | 0 | ANNUAL | ALL | 1 | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.0032 | 164.7 | 164.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.01522 | 216.4 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00057 | 177 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00068 | 180.9 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00082 | 196.6 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.00187 | 236.9 | 801 | 0 | ANNUAL | ALL | 1 | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.00413 | 261.3 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.01208 | 260.9 | 260.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.01167 | 226.7 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.00142 | 164 | 164 | 0 | ANNUAL | ALL | 1 | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 0.00992 | 268.2 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.00065 | 181.3 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00069 | 178.4 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00103 | 214.8 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.00388 | 249.9 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.00148 | 276.5 | 296 | 0 | ANNUAL | ALL | 1 | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.00363 | 225.6 | 296 | 0 | ANNUAL | ALL | 1 | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.00673 | 219.8 | 267 | 0 | ANNUAL | ALL | 1 | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.00764 | 209.2 | 273 | 0 | ANNUAL | ALL | 1 | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.00834 | 216.6 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.00067 | 160.7 | 160.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.01162 | 243.2 | 289 | 0 | ANNUAL | ALL | 1 | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00065 | 191 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00077 | 181 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.00133 | 214.3 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.00329 | 248.4 | 826 | 0 | ANNUAL | ALL | 1 | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.00233 | 213.2 | 826 | 0 | ANNUAL | ALL | 1 | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.00368 | 213.6 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.00526 | 203.5 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.0058 | 205.6 | 220 | 0 | ANNUAL | ALL | 1 | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.00645 | 205.8 | 269 | 0 | ANNUAL | ALL | 1 | Grid Receptor 99 | G99 |
| 648584.24 | 4077523 | 0.00456 | 183.61 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 1 | P1 |
| 649484.05 | 4077537 | 0.0053 | 254.01 | 257 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 10 | P10 |
| 649584.03 | 4077539 | 0.00228 | 235.3 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 11 | P11 |

16:18:56

* AERMET (21112): 2018

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*
- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-----------------------|-----|
| 649684.02 | 4077540 | 0.0011 | 221.29 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00122 | 222.37 | 260 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 13 | P13 |
| 649883.99 | 4077542 | 0.00203 | 233.6 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 14 | P14 |
| 649983.97 | 4077543 | 0.00395 | 249.54 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 15 | P15 |
| 650083.94 | 4077546 | 0.00344 | 258.89 | 258.89 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 16 | P16 |
| 650183.91 | 4077548 | 0.00361 | 259.56 | 259.56 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 17 | P17 |
| 650283.87 | 4077550 | 0.0044 | 256.77 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 18 | P18 |
| 650383.84 | 4077552 | 0.00432 | 242.37 | 290 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 19 | P19 |
| 648684.22 | 4077525 | 0.00403 | 197.16 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 2 | P2 |
| 650483.81 | 4077554 | 0.00434 | 242.23 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 20 | P20 |
| 650583.78 | 4077557 | 0.0046 | 259.71 | 290 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 21 | P21 |
| 650683.75 | 4077559 | 0.00502 | 257.58 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 22 | P22 |
| 650776.81 | 4077554 | 0.00263 | 267.9 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 23 | P23 |
| 650778.91 | 4077454 | 0.0016 | 275.91 | 275.91 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.00309 | 265.73 | 281 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 25 | P25 |
| 650783.1 | 4077254 | 0.00523 | 251.08 | 282 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 26 | P26 |
| 650785.19 | 4077154 | 0.00537 | 252.83 | 281 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 27 | P27 |
| 650787.29 | 4077054 | 0.00606 | 246.1 | 269 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 28 | P28 |
| 650789.38 | 4076954 | 0.00722 | 241.37 | 269 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 29 | P29 |
| 648784.19 | 4077527 | 0.00352 | 209.74 | 209.74 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 3 | P3 |
| 650791.48 | 4076854 | 0.00944 | 246.79 | 251 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 30 | P30 |
| 650793.57 | 4076754 | 0.00786 | 228.75 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 31 | P31 |
| 650754.39 | 4076683 | 0.00791 | 217.76 | 271 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 32 | P32 |
| 650660.22 | 4076650 | 0.00855 | 221.2 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 33 | P33 |
| 650561.43 | 4076650 | 0.00922 | 220.83 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 34 | P34 |
| 650462.72 | 4076666 | 0.01004 | 223.42 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 35 | P35 |
| 650364.01 | 4076682 | 0.01074 | 222.46 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 36 | P36 |
| 650264.24 | 4076683 | 0.01179 | 223.19 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 37 | P37 |
| 650164.71 | 4076674 | 0.01303 | 222.1 | 249 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 38 | P38 |
| 650065.8 | 4076660 | 0.01464 | 217.03 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 39 | P39 |
| 648884.17 | 4077529 | 0.00255 | 214.25 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 4 | P4 |
| 649980.44 | 4076627 | 0.01721 | 214.82 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 40 | P40 |
| 649920.26 | 4076547 | 0.02026 | 214.91 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 41 | P41 |
| 649852.19 | 4076474 | 0.02364 | 214.09 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 42 | P42 |
| 649770.68 | 4076417 | 0.02892 | 211.53 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 43 | P43 |
| 649680.48 | 4076375 | 0.03807 | 210.17 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 44 | P44 |
| 649580.91 | 4076368 | 0.05416 | 208.52 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 45 | P45 |
| 649482.48 | 4076384 | 0.07346 | 207.5 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 46 | P46 |
| 649391.59 | 4076425 | 0.06576 | 205.17 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 47 | P47 |
| 649303.5 | 4076472 | 0.00777 | 202.16 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 48 | P48 |

09/01/21

PMI

* AERMET (21112): 2018

16:18:56

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-----------------------|-------|
| 649226.19 | 4076535 | 0.00348 | 196.38 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 49 | P49 |
| 648984.14 | 4077530 | 0.0019 | 221.41 | 221.41 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 5 | P5 |
| 649156.2 | 4076605 | 0.02037 | 195.87 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 50 | P50 |
| 649068.25 | 4076653 | 0.02314 | 196.32 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 51 | P51 |
| 648986.7 | 4076711 | 0.01901 | 192.42 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 52 | P52 |
| 648936.53 | 4076759 | 0.01645 | 192.46 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 53 | P53 |
| 648868.58 | 4076833 | 0.01339 | 191.63 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 54 | P54 |
| 648797.23 | 4076902 | 0.01101 | 186.32 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 55 | P55 |
| 648710.56 | 4076952 | 0.00948 | 179.81 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 56 | P56 |
| 648620.79 | 4076996 | 0.00841 | 176.23 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 57 | P57 |
| 648607.19 | 4077051 | 0.00781 | 175.02 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 58 | P58 |
| 648680.07 | 4077119 | 0.00773 | 180.62 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 59 | P59 |
| 649084.12 | 4077532 | 0.00132 | 216.54 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 6 | P6 |
| 648759.24 | 4077180 | 0.00727 | 183.47 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 60 | P60 |
| 648791.44 | 4077262 | 0.0064 | 202.88 | 245 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 61 | P61 |
| 648788.45 | 4077362 | 0.00446 | 178.21 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 62 | P62 |
| 648691.25 | 4077361 | 0.00533 | 176.25 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 63 | P63 |
| 648591.35 | 4077357 | 0.00584 | 176 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 64 | P64 |
| 648525.69 | 4077371 | 0.00581 | 175.24 | 245 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 65 | P65 |
| 648586.93 | 4077430 | 0.00525 | 175.13 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 66 | P66 |
| 649184.09 | 4077534 | 0.00183 | 230.71 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 7 | P7 |
| 649284.08 | 4077535 | 0.00601 | 248.08 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 8 | P8 |
| 649384.06 | 4077536 | 0.00482 | 258.43 | 258.43 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.00271 | 127.38 | 127.38 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4077983 | 0.00274 | 131.21 | 131.21 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4077983 | 0.00277 | 135.89 | 135.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4077983 | 0.0028 | 139.18 | 139.18 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4077983 | 0.00281 | 140.76 | 140.76 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4077983 | 0.00283 | 143.89 | 143.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4077983 | 0.00284 | 145.22 | 145.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4077983 | 0.00285 | 147.21 | 147.21 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4077983 | 0.00286 | 148.3 | 160 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078083 | 0.00264 | 127.58 | 127.58 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078083 | 0.00266 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078083 | 0.00268 | 134.35 | 134.35 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078083 | 0.00269 | 139.22 | 139.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4078083 | 0.00271 | 144.65 | 144.65 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078083 | 0.00272 | 142.28 | 142.28 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4078083 | 0.00273 | 146.76 | 146.76 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4078083 | 0.00276 | 150.64 | 150.64 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |

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- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-----------------|--------|
| 646730 | 4078083 | 0.00279 | 155.4 | 157 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 645930 | 4078183 | 0.00256 | 127.22 | 127.22 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646030 | 4078183 | 0.00257 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646130 | 4078183 | 0.00258 | 133.89 | 133.89 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646230 | 4078183 | 0.0026 | 140.45 | 140.45 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646330 | 4078183 | 0.00262 | 146.94 | 146.94 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078183 | 0.00262 | 140.23 | 140.23 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646530 | 4078183 | 0.00266 | 147.25 | 147.25 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4078183 | 0.00269 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4078183 | 0.00275 | 157.78 | 166 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078283 | 0.00247 | 126.06 | 126.06 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078283 | 0.00248 | 129.56 | 129.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078283 | 0.0025 | 132.89 | 132.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078283 | 0.00252 | 139.24 | 139.24 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4078283 | 0.00254 | 142.68 | 142.68 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078283 | 0.00256 | 140.02 | 140.02 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4078283 | 0.00261 | 147.22 | 147.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4078283 | 0.00266 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4078283 | 0.00272 | 156.78 | 166 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 648659.32 | 4077241 | 0.0077 | 205.79 | 205.79 | 0 | ANNUAL | ALL | 1 | House 1 | RP_H1 |
| 648071.24 | 4076116 | 0.00083 | 169.6 | 240 | 0 | ANNUAL | ALL | 1 | House 10 | RP_H10 |
| 648247.37 | 4076278 | 0.00126 | 184.55 | 240 | 0 | ANNUAL | ALL | 1 | House 11 | RP_H11 |
| 648027.19 | 4076255 | 0.00115 | 169.38 | 240 | 0 | ANNUAL | ALL | 1 | House 12 | RP_H12 |
| 648065.77 | 4076359 | 0.00149 | 173.83 | 240 | 0 | ANNUAL | ALL | 1 | House 13 | RP_H13 |
| 648138.68 | 4076400 | 0.00172 | 178.22 | 240 | 0 | ANNUAL | ALL | 1 | House 14 | RP_H14 |
| 648254.71 | 4076411 | 0.00191 | 191.28 | 240 | 0 | ANNUAL | ALL | 1 | House 15 | RP_H15 |
| 647877.81 | 4076365 | 0.00144 | 165.39 | 240 | 0 | ANNUAL | ALL | 1 | House 16 | RP_H16 |
| 647520 | 4076206 | 0.00101 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 17 | RP_H17 |
| 647921 | 4076247 | 0.00111 | 164 | 240 | 0 | ANNUAL | ALL | 1 | House 18 | RP_H18 |
| 647708.78 | 4076352 | 0.00134 | 163.52 | 163.52 | 0 | ANNUAL | ALL | 1 | House 19 | RP_H19 |
| 648371.71 | 4075470 | 0.00048 | 173.69 | 227 | 0 | ANNUAL | ALL | 1 | House 2 | RP_H2 |
| 647703.58 | 4076251 | 0.0011 | 162.17 | 162.17 | 0 | ANNUAL | ALL | 1 | House 20 | RP_H20 |
| 647718.77 | 4076104 | 0.00086 | 159.35 | 159.35 | 0 | ANNUAL | ALL | 1 | House 21 | RP_H21 |
| 647843.32 | 4076125 | 0.00088 | 163 | 234 | 0 | ANNUAL | ALL | 1 | House 22 | RP_H22 |
| 647842.26 | 4076500 | 0.00195 | 167.93 | 167.93 | 0 | ANNUAL | ALL | 1 | House 23 | RP_H23 |
| 647727.75 | 4076644 | 0.00248 | 164.15 | 164.15 | 0 | ANNUAL | ALL | 1 | House 24 | RP_H24 |
| 647823.91 | 4076644 | 0.00264 | 168.29 | 168.29 | 0 | ANNUAL | ALL | 1 | House 25 | RP_H25 |
| 647530 | 4076497 | 0.0017 | 159.56 | 159.56 | 0 | ANNUAL | ALL | 1 | House 26 | RP_H26 |
| 647810.11 | 4076854 | 0.00396 | 162.9 | 162.9 | 0 | ANNUAL | ALL | 1 | House 27 | RP_H27 |
| 647697.48 | 4076989 | 0.00441 | 161.42 | 162 | 0 | ANNUAL | ALL | 1 | House 28 | RP_H28 |

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- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | ,3(1A,F13.3),3(1A,F8.2) AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
|-----------|---------|---|--------|--------|------------|--------|-----|----------------|-------------|--------|------|
| 648225.5 | 4076182 | 0.00096 | 183,22 | 240 | ZFLAG 0 | ANNUAL | ALL | NUM YRS NET ID | House 29 | RP H29 | |
| 647678.23 | 4075182 | 0.00098 | 159.5 | 159.5 | 0 | ANNUAL | ALL | 1 | House 3 | RP H3 | |
| 645876.32 | 4073909 | 0.0008 | 127.13 | 139.3 | 0 | ANNUAL | ALL | 1 | House 30 | RP_H30 | |
| 650902 | 407/487 | 0.00237 | 215.24 | 287 | 0 | ANNUAL | ALL | 1 | House 31 | | MIER |
| 651490 | 4076597 | 0.00843 | 205.5 | 813 | 0 | ANNUAL | ALL | 1 | House 32 | RP H32 | MIEK |
| 651565 | 4076397 | 0.00319 | 213.93 | 813 | 0 | ANNUAL | ALL | 1 | House 33 | RP H33 | |
| 648672.77 | 4077067 | 0.00416 | 225.91 | 227 | 0 | | ALL | 1 | House 34 | | |
| | 4075469 | 0.00083 | 174.44 | 227 | 0 | ANNUAL | ALL | 1 | House 35 | RP_H34 | |
| 648383.6 | | | | | | ANNUAL | | 1 | | RP_H35 | |
| 646379.37 | 4077233 | 0.00266 | 146 | 146 | 0 | ANNUAL | ALL | <u> </u> | House 36 | RP_H36 | |
| 651849.72 | 4075865 | 0.00502 | 201.97 | 333 | 0 | ANNUAL | ALL | 1 | House 37 | RP_H37 | |
| 652045.49 | 4076210 | 0.00413 | 196.88 | 813 | 0 | ANNUAL | ALL | 1 | House 38 | RP_H38 | |
| 652255.69 | 4076391 | 0.00369 | 197.06 | 813 | 0 | ANNUAL | ALL | 1 | House 39 | RP_H39 | |
| 647815.25 | 4075985 | 0.00066 | 162.04 | 162.04 | 0 | ANNUAL | ALL | 1 | House 4 | RP_H4 | |
| 646853.73 | 4077373 | 0.00345 | 145.99 | 145.99 | 0 | ANNUAL | ALL | 1 | House 40 | RP_H40 | |
| 647050.21 | 4077360 | 0.00369 | 145 | 145 | 0 | ANNUAL | ALL | 1 | House 41 | RP_H41 | |
| 647286.42 | 4077474 | 0.00381 | 149.68 | 153 | 0 | ANNUAL | ALL | 1 | House 42 | RP_H42 | |
| 647359.05 | 4077340 | 0.00409 | 154.45 | 159 | 0 | ANNUAL | ALL | 1 | House 43 | RP_H43 | |
| 647490.41 | 4077329 | 0.00427 | 162.28 | 162.28 | 0 | ANNUAL | ALL | 1 | House 44 | RP_H44 | |
| 647522.17 | 4077252 | 0.00443 | 164.3 | 164.3 | 0 | ANNUAL | ALL | 1 | House 45 | RP_H45 | |
| 647517.82 | 4077139 | 0.00437 | 164.01 | 164.01 | 0 | ANNUAL | ALL | 1 | House 46 | RP_H46 | |
| 646819.01 | 4077258 | 0.00326 | 151.53 | 152 | 0 | ANNUAL | ALL | 1 | House 47 | RP_H47 | |
| 646778.72 | 4077128 | 0.0029 | 158.51 | 158.51 | 0 | ANNUAL | ALL | 1 | House 48 | RP_H48 | |
| 646987.26 | 4077213 | 0.00342 | 146.44 | 146.44 | 0 | ANNUAL | ALL | 1 | House 49 | RP_H49 | |
| 647898.2 | 4076033 | 0.00071 | 163.83 | 237 | 0 | ANNUAL | ALL | 1 | House 5 | RP_H5 | |
| 647241.77 | 4077227 | 0.0039 | 154.85 | 154.85 | 0 | ANNUAL | ALL | 1 | House 50 | RP_H50 | |
| 646773.05 | 4077063 | 0.0027 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 51 | RP_H51 | |
| 647104.37 | 4077118 | 0.00339 | 148.99 | 148.99 | 0 | ANNUAL | ALL | 1 | House 52 | RP_H52 | |
| 647291.9 | 4077123 | 0.0038 | 158.62 | 158.62 | 0 | ANNUAL | ALL | 1 | House 53 | RP_H53 | |
| 646765.24 | 4076978 | 0.00243 | 158.67 | 158.67 | 0 | ANNUAL | ALL | 1 | House 54 | RP_H54 | |
| 646995.65 | 4076984 | 0.00273 | 152.34 | 152.34 | 0 | ANNUAL | ALL | 1 | House 55 | RP_H55 | |
| 647317.21 | 4077031 | 0.00353 | 160.22 | 160.22 | 0 | ANNUAL | ALL | 1 | House 56 | RP_H56 | |
| 647398.39 | 4077013 | 0.00365 | 161.26 | 161.26 | 0 | ANNUAL | ALL | 1 | House 57 | RP_H57 | |
| 646978.93 | 4076904 | 0.00245 | 156.81 | 156.81 | 0 | ANNUAL | ALL | 1 | House 58 | RP_H58 | |
| 647015.19 | 4076807 | 0.00221 | 156.21 | 156.21 | 0 | ANNUAL | ALL | 1 | House 59 | RP_H59 | |
| 648045.44 | 4076018 | 0.00065 | 168.26 | 240 | 0 | ANNUAL | ALL | 1 | House 6 | RP_H6 | |
| 647163.96 | 4076802 | 0.00234 | 154.38 | 154.38 | 0 | ANNUAL | ALL | 1 | House 60 | RP_H60 | |
| 647310.58 | 4076940 | 0.00312 | 162.49 | 162.49 | 0 | ANNUAL | ALL | 1 | House 61 | RP_H61 | |
| 647298.09 | 4076805 | 0.00252 | 158 | 158 | 0 | ANNUAL | ALL | 1 | House 62 | RP_H62 | |
| 647446.56 | 4076900 | 0.0032 | 159.45 | 159.45 | 0 | ANNUAL | ALL | 1 | House 63 | RP_H63 | |
| 647464.49 | 4076781 | 0.00267 | 159.32 | 159.32 | 0 | ANNUAL | ALL | 1 | House 64 | RP_H64 | |

* AERMET (21112): 2018

16:18:56

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-------------|--------|
| 647512 | 4076536 | 0.00182 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 65 | RP_H65 |
| 651131 | 4078767 | 0.0007 | 179.58 | 830 | 0 | ANNUAL | ALL | 1 | House 66 | RP_H66 |
| 647131 | 4077336 | 0.00379 | 146.77 | 146.77 | 0 | ANNUAL | ALL | 1 | House 67 | RP_H67 |
| 646798 | 4076740 | 0.0019 | 156.07 | 156.07 | 0 | ANNUAL | ALL | 1 | House 68 | RP_H68 |
| 646900 | 4076802 | 0.00211 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 69 | RP_H69 |
| 648126.33 | 4075955 | 0.00054 | 171.51 | 240 | 0 | ANNUAL | ALL | 1 | House 7 | RP_H7 |
| 647317 | 4076662 | 0.00208 | 159.9 | 159.9 | 0 | ANNUAL | ALL | 1 | House 70 | RP_H70 |
| 648249.26 | 4075970 | 0.00055 | 183.42 | 240 | 0 | ANNUAL | ALL | 1 | House 8 | RP_H8 |
| 648218.58 | 4076109 | 0.00078 | 182.28 | 240 | 0 | ANNUAL | ALL | 1 | House 9 | RP_H9 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in $\mu g/m^3$.

16:19:06

* AERMET (19191): 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*
- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| TORIV | 1A1. (A,1A | $, \mathcal{I}(1\Lambda, \Gamma 1\mathcal{I}, \mathcal{I}), \mathcal{I}(1\Lambda, \Gamma 0)$ | 2),211,110,211 | ,710,271,10.0 |),2M,MO) | | | | | | _ |
|--------------|------------|--|----------------|---------------|----------|--------|-----|----------------|------------------------------------|----------|-------|
| \mathbf{X} | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
| 645996 | 4078698 | 0.00262 | 123.85 | 123.85 | 0 | ANNUAL | ALL | 1 | AQ Monitoring Station | AQ_ST_1 | |
| 643903.65 | 4077719 | 0.00058 | 105.68 | 105.68 | 0 | ANNUAL | ALL | 1 | Hazel Hawkins Memorial Hospital | CR HP 1 | 1 |
| 642056.782 | 4079416 | 0.00079 | 85.12 | 85.12 | 0 | ANNUAL | ALL | 1 | Dunne Park | CR_PK_1 | |
| 642179.095 | 4079950 | 0.00099 | 117.99 | 117.99 | 0 | ANNUAL | ALL | 1 | Vista Park Hill Park | CR PK 2 | 1 |
| 644733.142 | 4078753 | 0.00145 | 106.44 | 106.44 | 0 | ANNUAL | ALL | 1 | Las Brisas Park | CR PK 3 | 1 |
| 645608.808 | 4078854 | 0.00227 | 112.86 | 112.86 | 0 | ANNUAL | ALL | 1 | Frank Klauer Memorial Park | CR PK 4 | 1 |
| 644238.054 | 4078807 | 0.00121 | 95.25 | 95.25 | 0 | ANNUAL | ALL | 1 | Veterans Memorial Park | CR PK 5 | |
| 645311.476 | 4076559 | 0.00036 | 134.61 | 134.61 | 0 | ANNUAL | ALL | 1 | Park 6 | CR PK 6 | 1 |
| 649581.689 | 4073424 | 0.00227 | 159.96 | 318 | 0 | ANNUAL | ALL | 1 | Park 7 | CR PK 7 | |
| 645145.11 | 4077181 | 0.00052 | 133 | 133 | 0 | ANNUAL | ALL | 1 | Cerra Vista Elem School | CR SC 1 | 1 |
| 642904.712 | 4079955 | 0.0012 | 86 | 86 | 0 | ANNUAL | ALL | 1 | San Andreas Continuation | CR SC 10 | |
| 645850.678 | 4074015 | 0.00033 | 123 | 313 | 0 | ANNUAL | ALL | 1 | SouthSide School | CR SC 11 | 1 |
| 642105.679 | 4078176 | 0.00051 | 91 | 91 | 0 | ANNUAL | ALL | 1 | School 12 | CR SC 12 | |
| 646058.93 | 4078443 | 0.00237 | 128.52 | 128.52 | 0 | ANNUAL | ALL | 1 | Rancho Santana School | CR SC 13 | Schoo |
| 647269 | 4075575 | 0.00041 | 158 | 158 | 0 | ANNUAL | ALL | 1 | Future School | CR SC 14 | Schoo |
| 648466 | 4074106 | 0.00091 | 159 | 240 | 0 | ANNUAL | ALL | 1 | Tres Pinos Union Elementary School | CR SC 15 | 1 |
| 644109.6 | 4078389 | 0.00092 | 98.2 | 98.2 | 0 | ANNUAL | ALL | 1 | Sunnyslope Elem School | CR SC 2 | |
| 643920.12 | 4077304 | 0.00044 | 101.23 | 101.23 | 0 | ANNUAL | ALL | 1 | Hollister Montessori School | CR SC 3 | 1 |
| 642961.07 | 4078621 | 0.00074 | 92 | 92 | 0 | ANNUAL | ALL | 1 | Rancho San Justo Middle School | CR SC 4 | |
| 643980.02 | 4079743 | 0.00156 | 88 | 88 | 0 | ANNUAL | ALL | 1 | Marguerite Maze Middle School | CR_SC_5 | |
| 641630.17 | 4079153 | 0.00066 | 85 | 85 | 0 | ANNUAL | ALL | 1 | Hollister Prep Schoo | CR_SC_6 | |
| 643350.03 | 4077181 | 0.00039 | 98.22 | 98.22 | 0 | ANNUAL | ALL | 1 | Ladd Lane Elementary School | CR_SC_7 | 1 |
| 644002.96 | 4080079 | 0.0017 | 87 | 87 | 0 | ANNUAL | ALL | 1 | Gabilan Hills Elementary School | CR_SC_8 | |
| 642244.858 | 4078413 | 0.00059 | 90.17 | 90.17 | 0 | ANNUAL | ALL | 1 | San Benito High School | CR_SC_9 | |
| 642083.447 | 4079794 | 0.00091 | 87.58 | 127 | 0 | ANNUAL | ALL | 1 | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.00054 | 146.33 | 153 | 0 | ANNUAL | ALL | 1 | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 0.00258 | 189.45 | 259 | 0 | ANNUAL | ALL | 1 | Nearest Workplace | CR_WP_2 | MEIV |
| 647744 | 4079173 | 0.00413 | 155.2 | 155.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.00038 | 160 | 160 | 0 | ANNUAL | ALL | 1 | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.00817 | 252.9 | 252.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.00286 | 165.9 | 165.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.00413 | 159.6 | 159.6 | 0 | ANNUAL | ALL | 1 | Grid Receptor 12 | G12 | |
| 648144 | 4078373 | 0.00596 | 146.2 | 146.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 13 | G13 | |
| 648144 | 4077973 | 0.00828 | 158.3 | 181 | 0 | ANNUAL | ALL | 1 | Grid Receptor 14 | G14 | |
| 648144 | 4077573 | 0.00894 | 166.6 | 179 | 0 | ANNUAL | ALL | 1 | Grid Receptor 15 | G15 | |
| 648144 | 4077173 | 0.00502 | 175.4 | 175.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 16 | G16 | |
| 648144 | 4076773 | 0.0012 | 177.1 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 17 | G17 | |
| 648144 | 4076373 | 0.00055 | 178 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 18 | G18 | |
| 648144 | 4075973 | 0.00053 | 173 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 19 | G19 | |
| 647744 | 4078773 | 0.00534 | 145.4 | 145.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 2 | G2 | |
| 648144 | 4075573 | 0.00043 | 168.8 | 190 | 0 | ANNUAL | ALL | 1 | Grid Receptor 20 | G20 | |
| | | | | | | | | | • | | |

09/01/21

ool 1 ool 2

* AERMET (19191): 2019

16:19:06

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID Description | ID |
|--------|---------|--------------|-------|-------|-------|--------|-----|---------|--------------------|-----|
| | 4079173 | 0.00174 | 173.5 | 191 | 0 | ANNUAL | ALL | 1 | Grid Receptor 21 | G21 |
| | 4078773 | 0.00231 | 166.2 | 166.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 22 | G22 |
| | 4078373 | 0.00352 | 145.4 | 253 | 0 | ANNUAL | ALL | 1 | Grid Receptor 23 | G23 |
| | 4077973 | 0.00656 | 173.9 | 214 | 0 | ANNUAL | ALL | 1 | Grid Receptor 24 | G24 |
| | 4077573 | 0.01155 | 179.6 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 25 | G25 |
| | 4077173 | 0.01301 | 191 | 226 | 0 | ANNUAL | ALL | 1 | Grid Receptor 26 | G26 |
| | 4076773 | 0.00314 | 209.2 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 27 | G27 |
| | 4076373 | 0.00211 | 233.7 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 28 | G28 |
| | 4075973 | 0.00068 | 199.9 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 29 | G29 |
| | 4078373 | 0.00652 | 144.4 | 144.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 3 | G3 |
| | 4075573 | 0.00058 | 195.5 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 30 | G30 |
| | 4079173 | 0.00105 | 190.4 | 194 | 0 | ANNUAL | ALL | 1 | Grid Receptor 31 | G31 |
| | 4078773 | 0.0012 | 165.4 | 165.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 32 | G32 |
| | 4078373 | 0.00155 | 159.6 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 33 | G33 |
| | 4077973 | 0.00245 | 183.5 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.00615 | 224 | 226 | 0 | ANNUAL | ALL | 1 | Grid Receptor 35 | G35 |
| | 4076373 | 0.00219 | 205 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 38 | G38 |
| | 4075973 | 0.00133 | 208.8 | 220 | 0 | ANNUAL | ALL | 1 | Grid Receptor 39 | G39 |
| | 4077973 | 0.00683 | 134.6 | 181 | 0 | ANNUAL | ALL | 1 | Grid Receptor 4 | G4 |
| | 4075573 | 0.00131 | 185.6 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00069 | 187.4 | 801 | 0 | ANNUAL | ALL | 1 | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.0007 | 160.9 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.00084 | 200.5 | 221 | 0 | ANNUAL | ALL | 1 | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 0.00141 | 229 | 253 | 0 | ANNUAL | ALL | 1 | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.00553 | 253.3 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.02684 | 220.2 | 263 | 0 | ANNUAL | ALL | 1 | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.00906 | 227.2 | 227.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.00517 | 163.8 | 171 | 0 | ANNUAL | ALL | 1 | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.00454 | 205.5 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.00053 | 176.1 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00058 | 195 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00063 | 196.1 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 53 | G53 |
| | 4077973 | 0.00082 | 215.3 | 251 | 0 | ANNUAL | ALL | 1 | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.00097 | 221.6 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 55 | G55 |
| | 4076373 | 0.04038 | 211.7 | 266 | 0 | ANNUAL | ALL | 1 | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.03528 | 237.7 | 257 | 0 | ANNUAL | ALL | 1 | Grid Receptor 59 | G59 |
| | 4077173 | 0.00237 | 158.4 | 171 | 0 | ANNUAL | ALL | 1 | Grid Receptor 6 | G6 |
| | 4075573 | 0.01037 | 204.2 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 60 | G60 |
| | 4079173 | 0.00056 | 173 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 61 | G61 |
| | 4078773 | 0.00059 | 171 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 62 | G62 |
| | 4078373 | 0.00062 | 204.6 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 63 | G63 |

* AERMET (19191): 2019

16:19:06

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|-------|-------|--------|-----|----------------|-----------------------|-----|
| 650144 | 4077973 | 0.00059 | 216.5 | 290 | 0 | ANNUAL | ALL | 1 | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.00197 | 257.7 | 257.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.01738 | 231.4 | 272 | 0 | ANNUAL | ALL | 1 | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.02681 | 249.4 | 266 | 0 | ANNUAL | ALL | 1 | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.0008 | 164.7 | 164.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.01609 | 216.4 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00051 | 177 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00045 | 180.9 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00045 | 196.6 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.001 | 236.9 | 801 | 0 | ANNUAL | ALL | 1 | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.0017 | 261.3 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.01016 | 260.9 | 260.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.01307 | 226.7 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.00044 | 164 | 164 | 0 | ANNUAL | ALL | 1 | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 0.01059 | 268.2 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.00039 | 181.3 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00038 | 178.4 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00054 | 214.8 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.0016 | 249.9 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.00083 | 276.5 | 296 | 0 | ANNUAL | ALL | 1 | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.0024 | 225.6 | 296 | 0 | ANNUAL | ALL | 1 | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.00451 | 219.8 | 267 | 0 | ANNUAL | ALL | 1 | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.00697 | 209.2 | 273 | 0 | ANNUAL | ALL | 1 | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.00908 | 216.6 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.00045 | 160.7 | 160.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.01135 | 243.2 | 289 | 0 | ANNUAL | ALL | 1 | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00036 | 191 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00043 | 181 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.00066 | 214.3 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.00142 | 248.4 | 826 | 0 | ANNUAL | ALL | 1 | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.0014 | 213.2 | 826 | 0 | ANNUAL | ALL | 1 | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.00254 | 213.6 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.0037 | 203.5 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.00518 | 205.6 | 220 | 0 | ANNUAL | ALL | 1 | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.00671 | 205.8 | 269 | 0 | ANNUAL | ALL | 1 | Grid Receptor 99 | G99 |
| 648584.24 | 4077523 | 0.01223 | 183.61 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 1 | P1 |
| 649484.05 | 4077537 | 0.00426 | 254.01 | 257 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 10 | P10 |
| 649584.03 | 4077539 | 0.00205 | 235.3 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 11 | P11 |
| 649684.02 | 4077540 | 0.00105 | 221.29 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00091 | 222.37 | 260 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 13 | P13 |
| 649883.99 | 4077542 | 0.00126 | 233.6 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 14 | P14 |

16:19:06

* AERMET (19191): 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | ,3(1X,F13.5),3(1X,F8.2 | | | | A X ZED | CDB | MINANDO METER | D : :: | TID. |
|-----------|---------|------------------------|--------|--------|-------|---------|-----|----------------|---|------------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID D15 |
| 649983.97 | 4077543 | 0.00219 | 249.54 | 259 | 0 | ANNUAL | ALL | l | Boundary Perimeter 15 | P15 |
| 650083.94 | 4077546 | 0.0019 | 258.89 | 258.89 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 16 | P16 |
| 650183.91 | 4077548 | 0.00194 | 259.56 | 259.56 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 17 | P17 |
| 650283.87 | 4077550 | 0.00214 | 256.77 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 18 | P18 |
| 650383.84 | 4077552 | 0.00193 | 242.37 | 290 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 19 | P19 |
| 648684.22 | 4077525 | 0.0122 | 197.16 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 2 | P2 |
| 650483.81 | 4077554 | 0.00188 | 242.23 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 20 | P20 |
| 650583.78 | 4077557 | 0.00187 | 259.71 | 290 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 21 | P21 |
| 650683.75 | 4077559 | 0.00207 | 257.58 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 22 | P22 |
| 650776.81 | 4077554 | 0.00127 | 267.9 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 23 | P23 |
| 650778.91 | 4077454 | 0.00091 | 275.91 | 275.91 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.0019 | 265.73 | 281 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 25 | P25 |
| 650783.1 | 4077254 | 0.0033 | 251.08 | 282 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 26 | P26 |
| 650785.19 | 4077154 | 0.00361 | 252.83 | 281 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 27 | P27 |
| 650787.29 | 4077054 | 0.00383 | 246.1 | 269 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 28 | P28 |
| 650789.38 | 4076954 | 0.00429 | 241.37 | 269 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 29 | P29 |
| 648784.19 | 4077527 | 0.01178 | 209.74 | 209.74 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 3 | P3 |
| 650791.48 | 4076854 | 0.00542 | 246.79 | 251 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 30 | P30 |
| 650793.57 | 4076754 | 0.00509 | 228.75 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 31 | P31 |
| 650754.39 | 4076683 | 0.00551 | 217.76 | 271 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 32 | P32 |
| 650660.22 | 4076650 | 0.00601 | 221.2 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 33 | P33 |
| 650561.43 | 4076650 | 0.00639 | 220.83 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 34 | P34 |
| 650462.72 | 4076666 | 0.0067 | 223.42 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 35 | P35 |
| 650364.01 | 4076682 | 0.00692 | 222.46 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 36 | P36 |
| 650264.24 | 4076683 | 0.00738 | 223.19 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 37 | P37 |
| 650164.71 | 4076674 | 0.00799 | 222.1 | 249 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 38 | P38 |
| 650065.8 | 4076660 | 0.00883 | 217.03 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 39 | P39 |
| 648884.17 | 4077529 | 0.00874 | 214.25 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 4 | P4 |
| 649980.44 | 4076627 | 0.01046 | 214.82 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 40 | P40 |
| 649920.26 | 4076547 | 0.01428 | 214.91 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 41 | P41 |
| 649852.19 | 4076474 | 0.02113 | 214.09 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 42 | P42 |
| 649770.68 | 4076417 | 0.03314 | 211.53 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 43 | P43 |
| 649680.48 | 4076375 | 0.04924 | 210.17 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 44 | P44 |
| 649580.91 | 4076368 | 0.06698 | 208.52 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 45 | P45 |
| 649482.48 | 4076384 | 0.08324 | 207.5 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 46 | P46 |
| 649391.59 | 4076425 | 0.07168 | 207.3 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 47 | P47 |
| 649391.39 | 4076423 | 0.07168 | 202.16 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 47 Boundary Perimeter 48 | P47 P48 |
| | | | | 264 | | | | 1 | • | |
| 649226.19 | 4076535 | 0.00271 | 196.38 | | 0 | ANNUAL | ALL | • | Boundary Perimeter 49 | P49 P5 |
| 648984.14 | 4077530 | 0.0056 | 221.41 | 221.41 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 5 | |
| 649156.2 | 4076605 | 0.01014 | 195.87 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 50 | P50 |
| 649068.25 | 4076653 | 0.01134 | 196.32 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 51 | P51 |

09/01/21

PMI

* AERMET (19191): 2019

16:19:06

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | V | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-----------------------|-------|
| 648986.7 | 4076711 | 0.01215 | 192.42 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 52 | P52 |
| 648936.53 | 4076759 | 0.0138 | 192.46 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 53 | P53 |
| 648868.58 | 4076833 | 0.01535 | 191.63 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 54 | P54 |
| 648797.23 | 4076902 | 0.01493 | 186.32 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 55 | P55 |
| 648710.56 | 4076952 | 0.01254 | 179.81 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 56 | P56 |
| 648620.79 | 4076996 | 0.01057 | 176.23 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 57 | P57 |
| 648607.19 | 4077051 | 0.01184 | 175.02 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 58 | P58 |
| 648680.07 | 4077119 | 0.01598 | 180.62 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 59 | P59 |
| 649084.12 | 4077532 | 0.00341 | 216.54 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 6 | P6 |
| 648759.24 | 4077180 | 0.01805 | 183.47 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 60 | P60 |
| 648791.44 | 4077262 | 0.01839 | 202.88 | 245 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 61 | P61 |
| 648788.45 | 4077362 | 0.01356 | 178.21 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 62 | P62 |
| 648691.25 | 4077361 | 0.01436 | 176.25 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 63 | P63 |
| 648591.35 | 4077357 | 0.014 | 176 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 64 | P64 |
| 648525.69 | 4077371 | 0.0132 | 175.24 | 245 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 65 | P65 |
| 648586.93 | 4077430 | 0.01321 | 175.13 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 66 | P66 |
| 649184.09 | 4077534 | 0.0029 | 230.71 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 7 | P7 |
| 649284.08 | 4077535 | 0.00614 | 248.08 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 8 | P8 |
| 649384.06 | 4077536 | 0.00441 | 258.43 | 258.43 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.00154 | 127.38 | 127.38 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646030 | 4077983 | 0.00164 | 131.21 | 131.21 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646130 | 4077983 | 0.00175 | 135.89 | 135.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4077983 | 0.00188 | 139.18 | 139.18 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4077983 | 0.00201 | 140.76 | 140.76 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4077983 | 0.00216 | 143.89 | 143.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4077983 | 0.00233 | 145.22 | 145.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4077983 | 0.00251 | 147.21 | 147.21 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4077983 | 0.00272 | 148.3 | 160 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078083 | 0.00169 | 127.58 | 127.58 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078083 | 0.0018 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078083 | 0.00192 | 134.35 | 134.35 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078083 | 0.00206 | 139.22 | 139.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4078083 | 0.00221 | 144.65 | 144.65 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078083 | 0.00236 | 142.28 | 142.28 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4078083 | 0.00254 | 146.76 | 146.76 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4078083 | 0.00274 | 150.64 | 150.64 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4078083 | 0.00297 | 155.4 | 157 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078183 | 0.00184 | 127.22 | 127.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078183 | 0.00196 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078183 | 0.00209 | 133.89 | 133.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078183 | 0.00223 | 140.45 | 140.45 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |

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- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| I | | | | | | | | | | | | |
|---|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-----------------|--------|---|
| | X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
| | 646330 | 4078183 | 0.00239 | 146.94 | 146.94 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | 1 |
| | 646430 | 4078183 | 0.00255 | 140.23 | 140.23 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| | 646530 | 4078183 | 0.00274 | 147.25 | 147.25 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | 1 |
| | 646630 | 4078183 | 0.00296 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| | 646730 | 4078183 | 0.00321 | 157.78 | 166 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | 1 |
| | 645930 | 4078283 | 0.00199 | 126.06 | 126.06 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | 1 |
| | 646030 | 4078283 | 0.00211 | 129.56 | 129.56 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | 1 |
| | 646130 | 4078283 | 0.00224 | 132.89 | 132.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| | 646230 | 4078283 | 0.00239 | 139.24 | 139.24 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | 1 |
| | 646330 | 4078283 | 0.00255 | 142.68 | 142.68 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| | 646430 | 4078283 | 0.00273 | 140.02 | 140.02 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | 1 |
| | 646530 | 4078283 | 0.00294 | 147.22 | 147.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| | 646630 | 4078283 | 0.00318 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| | 646730 | 4078283 | 0.00347 | 156.78 | 166 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| | 648659.32 | 4077241 | 0.0183 | 205.79 | 205.79 | 0 | ANNUAL | ALL | 1 | House 1 | RP_H1 | M |
| | 648071.24 | 4076116 | 0.00053 | 169.6 | 240 | 0 | ANNUAL | ALL | 1 | House 10 | RP_H10 | |
| | 648247.37 | 4076278 | 0.00061 | 184.55 | 240 | 0 | ANNUAL | ALL | 1 | House 11 | RP_H11 | |
| | 648027.19 | 4076255 | 0.0005 | 169.38 | 240 | 0 | ANNUAL | ALL | 1 | House 12 | RP_H12 | |
| | 648065.77 | 4076359 | 0.00052 | 173.83 | 240 | 0 | ANNUAL | ALL | 1 | House 13 | RP_H13 | |
| | 648138.68 | 4076400 | 0.00056 | 178.22 | 240 | 0 | ANNUAL | ALL | 1 | House 14 | RP_H14 | |
| | 648254.71 | 4076411 | 0.00064 | 191.28 | 240 | 0 | ANNUAL | ALL | 1 | House 15 | RP_H15 |] |
| | 647877.81 | 4076365 | 0.00046 | 165.39 | 240 | 0 | ANNUAL | ALL | 1 | House 16 | RP_H16 | |
| | 647520 | 4076206 | 0.00039 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 17 | RP_H17 | |
| | 647921 | 4076247 | 0.00046 | 164 | 240 | 0 | ANNUAL | ALL | 1 | House 18 | RP_H18 | |
| | 647708.78 | 4076352 | 0.00042 | 163.52 | 163.52 | 0 | ANNUAL | ALL | 1 | House 19 | RP_H19 | |
| | 648371.71 | 4075470 | 0.00049 | 173.69 | 227 | 0 | ANNUAL | ALL | 1 | House 2 | RP_H2 | |
| | 647703.58 | 4076251 | 0.00042 | 162.17 | 162.17 | 0 | ANNUAL | ALL | 1 | House 20 | RP_H20 | |
| | 647718.77 | 4076104 | 0.00043 | 159.35 | 159.35 | 0 | ANNUAL | ALL | 1 | House 21 | RP_H21 | |
| L | 647843.32 | 4076125 | 0.00046 | 163 | 234 | 0 | ANNUAL | ALL | 1 | House 22 | RP_H22 | |
| | 647842.26 | 4076500 | 0.00052 | 167.93 | 167.93 | 0 | ANNUAL | ALL | 1 | House 23 | RP_H23 | 4 |
| | 647727.75 | 4076644 | 0.0006 | 164.15 | 164.15 | 0 | ANNUAL | ALL | 1 | House 24 | RP_H24 | |
| | 647823.91 | 4076644 | 0.00063 | 168.29 | 168.29 | 0 | ANNUAL | ALL | 1 | House 25 | RP_H25 | 4 |
| | 647530 | 4076497 | 0.00046 | 159.56 | 159.56 | 0 | ANNUAL | ALL | 1 | House 26 | RP_H26 | |
| | 647810.11 | 4076854 | 0.00105 | 162.9 | 162.9 | 0 | ANNUAL | ALL | 1 | House 27 | RP_H27 | 4 |
| | 647697.48 | 4076989 | 0.00136 | 161.42 | 162 | 0 | ANNUAL | ALL | 1 | House 28 | RP_H28 | |
| | 648225.5 | 4076182 | 0.0006 | 183.22 | 240 | 0 | ANNUAL | ALL | 1 | House 29 | RP_H29 | 4 |
| | 647678.23 | 4075969 | 0.00044 | 159.5 | 159.5 | 0 | ANNUAL | ALL | 1 | House 3 | RP_H3 | _ |
| | 645876.32 | 4077487 | 0.00092 | 127.13 | 142 | 0 | ANNUAL | ALL | 1 | House 30 | RP_H30 | 4 |
| | 650902 | 4076062 | 0.00909 | 215.24 | 287 | 0 | ANNUAL | ALL | 1 | House 31 | RP_H31 | |
| | 651490 | 4076597 | 0.00404 | 205.5 | 813 | 0 | ANNUAL | ALL | 1 | House 32 | RP_H32 | 4 |
| | 651565 | 4077067 | 0.00278 | 213.93 | 813 | 0 | ANNUAL | ALL | 1 | House 33 | RP_H33 | |

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* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-------------|------------------|
| 648672.77 | 4075307 | 0.00125 | 225.91 | 227 | 0 | ANNUAL | ALL | 1 | House 34 | RP H34 |
| 648383.6 | 4075469 | 0.00123 | 174.44 | 227 | 0 | ANNUAL | ALL | 1 | House 35 | RP H35 |
| 646379.37 | 4077233 | 0.00045 | 146 | 146 | 0 | ANNUAL | ALL | 1 | House 36 | RP_H36 |
| 651849.72 | 4075865 | 0.0051 | 201.97 | 333 | 0 | ANNUAL | ALL | 1 | House 37 | RP_H37 |
| 652045.49 | 4076210 | 0.0031 | 196.88 | 813 | 0 | ANNUAL | ALL | 1 | House 38 | RP_H38 |
| 652255.69 | 4076391 | 0.00314 | 197.06 | 813 | 0 | ANNUAL | ALL | 1 | House 39 | RP H39 |
| 647815.25 | 4075985 | 0.00314 | 162.04 | 162.04 | 0 | ANNUAL | ALL | 1 | House 4 | RP H4 |
| 646853.73 | 4077373 | 0.00047 | 145.99 | 145.99 | 0 | ANNUAL | ALL | 1 | House 40 | RP_H40 |
| 647050.21 | 4077360 | 0.00156 | 145 | 145 | 0 | ANNUAL | ALL | 1 | House 41 | RP H41 |
| 647286.42 | 4077474 | 0.00130 | 149.68 | 153 | 0 | ANNUAL | ALL | 1 | House 42 | RP H42 |
| 647359.05 | 4077340 | 0.00243 | 154.45 | 159 | 0 | ANNUAL | ALL | 1 | House 43 | RP H43 |
| 647490.41 | 4077329 | 0.00208 | 162.28 | 162.28 | 0 | ANNUAL | ALL | 1 | House 44 | RP H44 |
| 647522.17 | 4077252 | 0.0024 | 164.3 | 164.3 | 0 | ANNUAL | ALL | 1 | House 45 | RP H45 |
| 647517.82 | 4077139 | 0.00211 | 164.01 | 164.01 | 0 | ANNUAL | ALL | 1 | House 46 | RP_H46 |
| 646819.01 | 4077258 | 0.00101 | 151.53 | 152 | 0 | ANNUAL | ALL | 1 | House 47 | RP H47 |
| 646778.72 | 4077128 | 0.00112 | 151.55 | 158.51 | 0 | ANNUAL | ALL | 1 | House 48 | RP H48 |
| 646987.26 | 4077213 | 0.00039 | 146.44 | 146.44 | 0 | ANNUAL | ALL | 1 | House 49 | RP H49 |
| 647898.2 | 4076033 | 0.00110 | 163.83 | 237 | 0 | ANNUAL | ALL | 1 | House 5 | RP_H5 |
| 647241.77 | 4077227 | 0.00048 | 154.85 | 154.85 | 0 | ANNUAL | ALL | 1 | House 50 | RP H50 |
| 646773.05 | 4077063 | 0.00140 | 154.85 | 154.85 | 0 | ANNUAL | ALL | 1 | House 51 | RP_H51 |
| 647104.37 | 4077118 | 0.00106 | 148.99 | 148.99 | 0 | ANNUAL | ALL | 1 | House 52 | RP H52 |
| 647291.9 | 4077118 | 0.00100 | 158.62 | 158.62 | 0 | ANNUAL | ALL | 1 | House 53 | RP H53 |
| 646765.24 | 4076978 | 0.00124 | 158.67 | 158.67 | 0 | ANNUAL | ALL | 1 | House 54 | RP H54 |
| 646995.65 | 4076984 | 0.00077 | 152.34 | 152.34 | 0 | ANNUAL | ALL | 1 | House 55 | RP_H55 |
| 647317.21 | 4077031 | 0.00077 | 160.22 | 160.22 | 0 | ANNUAL | ALL | 1 | House 56 | RP H56 |
| 647398.39 | 4077013 | 0.00103 | 161.26 | 161.26 | 0 | ANNUAL | ALL | 1 | House 57 | RP H57 |
| 646978.93 | 4076904 | 0.00108 | 156.81 | 156.81 | 0 | ANNUAL | ALL | 1 | House 58 | RP_H58 |
| 647015.19 | 4076807 | 0.00058 | 156.21 | 156.21 | 0 | ANNUAL | ALL | 1 | House 59 | RP_H59 |
| 648045.44 | 4076018 | 0.00038 | 168.26 | 240 | 0 | ANNUAL | ALL | 1 | House 6 | RP H6 |
| 647163.96 | 4076802 | 0.00032 | 154.38 | 154.38 | 0 | ANNUAL | ALL | 1 | House 60 | RP H60 |
| 647310.58 | 4076940 | 0.00081 | 162.49 | 162.49 | 0 | ANNUAL | ALL | 1 | House 61 | RP_H61 |
| 647298.09 | 4076805 | 0.00065 | 158 | 158 | 0 | ANNUAL | ALL | 1 | House 62 | RP H62 |
| 647446.56 | 4076900 | 0.00087 | 159.45 | 159.45 | 0 | ANNUAL | ALL | 1 | House 62 | RP_H62 RP_H63 |
| 647464.49 | 4076781 | | 159.43 | 159.43 | | ANNUAL | | 1 | | |
| | | 0.00068 | | | 0 | | ALL | 1 | House 64 | RP_H64 |
| 647512 | 4076536 | 0.00048 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00039 | 179.58 | 830 | 0 | ANNUAL | ALL | 1 | House 66 | RP_H66 |
| 647131 | 4077336 | 0.00162 | 146.77 | 146.77 | 0 | ANNUAL | ALL | 1 | House 67 | RP_H67 |
| 646798 | 4076740 | 0.0005 | 156.07 | 156.07 | 0 | ANNUAL | ALL | <u>l</u> | House 68 | RP_H68 |
| 646900 | 4076802 | 0.00056 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 69 | RP_H69 |
| 648126.33 | 4075955 | 0.00052 | 171.51 | 240 | 0 | ANNUAL | ALL | <u>l</u> | House 7 | RP_H7 |
| 647317 | 4076662 | 0.00052 | 159.9 | 159.9 | 0 | ANNUAL | ALL | 1 | House 70 | RP_H70 |

09/01/21

* AERMET (19191): 2019

16:19:06

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|-------|-------|--------|-----|----------------|-------------|-------|
| 648249.26 | 4075970 | 0.00055 | 183.42 | 240 | 0 | ANNUAL | ALL | 1 | House 8 | RP_H8 |
| 648218.58 | 4076109 | 0.00059 | 182.28 | 240 | 0 | ANNUAL | ALL | 1 | House 9 | RP_H9 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in $\mu g/m^3$.

* AERMET (21112): 2020 16:19:

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Υ | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | ſ |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.002340 | 123.85 | 123.85 | 0 | ANNUAL | ALL | 1 | AQ Monitoring Station | AQ ST 1 | |
| 643903.65 | 4077719 | 0.000640 | 105.68 | 105.68 | 0 | ANNUAL | ALL | 1 | Hazel Hawkins Memorial Hospital | CR HP 1 | |
| 642056.78 | 4079416 | 0.000860 | 85.12 | 85.12 | 0 | ANNUAL | ALL | 1 | Dunne Park | CR PK 1 | |
| 642179.1 | 4079950 | 0.001030 | 117.99 | 117.99 | 0 | ANNUAL | ALL | 1 | Vista Park Hill Park | CR PK 2 | |
| 644733.14 | 4078753 | 0.001400 | 106.44 | 106.44 | 0 | ANNUAL | ALL | 1 | Las Brisas Park | CR PK 3 | |
| 645608.81 | 4078854 | 0.002080 | 112.86 | 112.86 | 0 | ANNUAL | ALL | 1 | Frank Klauer Memorial Park | CR PK 4 | |
| 644238.05 | 4078807 | 0.001200 | 95.25 | 95.25 | 0 | ANNUAL | ALL | 1 | Veterans Memorial Park | CR PK 5 | |
| 645311.48 | 4076559 | 0.000550 | 134.61 | 134.61 | 0 | ANNUAL | ALL | 1 | Park 6 | CR PK 6 | |
| 649581.69 | 4073424 | 0.000330 | 159.96 | 318 | 0 | ANNUAL | ALL | 1 | Park 7 | CR PK 7 | |
| 645145.11 | 4077181 | 0.000720 | 133 | 133 | 0 | ANNUAL | ALL | 1 | Cerra Vista Elem School | CR SC 1 | |
| 642904.71 | 4079955 | 0.001240 | 86 | 86 | 0 | ANNUAL | ALL | 1 | San Andreas Continuation | CR_SC_10 | |
| 645850.68 | 4074015 | 0.000400 | 123 | 313 | 0 | ANNUAL | ALL | 1 | SouthSide School | CR_SC_11 | |
| 642105.68 | 4078176 | 0.000560 | 91 | 91 | 0 | ANNUAL | ALL | 1 | School 12 | CR SC 12 | |
| 646058.93 | 4078443 | 0.002100 | 128.52 | 128.52 | 0 | ANNUAL | ALL | 1 | Rancho Santana School | CR SC 13 | School 1 |
| 647269 | 4075575 | 0.000370 | 158 | 158 | 0 | ANNUAL | ALL | 1 | Future School | CR SC 14 | School 2 |
| 648466 | 4074106 | 0.000860 | 159 | 240 | 0 | ANNUAL | ALL | 1 | Tres Pinos Union Elementary School | CR_SC_15 | School 2 |
| 644109.6 | 4078389 | 0.000960 | 98.2 | 98.2 | 0 | ANNUAL | ALL | 1 | Sunnyslope Elem School | CR_SC_2 | |
| 643920.12 | 4077304 | 0.000660 | 101.23 | 101.23 | 0 | ANNUAL | ALL | 1 | Hollister Montessori School | CR SC 3 | |
| 642961.07 | 4078621 | 0.000810 | 92 | 92 | 0 | ANNUAL | ALL | 1 | Rancho San Justo Middle School | CR SC 4 | |
| 643980.02 | 4079743 | 0.001550 | 88 | 88 | 0 | ANNUAL | ALL | 1 | Marguerite Maze Middle School | CR SC 5 | |
| 641630.17 | 4079153 | 0.001330 | 85 | 85 | 0 | ANNUAL | ALL | 1 | Hollister Prep Schoo | CR SC 6 | |
| 643350.03 | 4077181 | 0.000650 | 98.22 | 98.22 | 0 | ANNUAL | ALL | 1 | Ladd Lane Elementary School | CR_SC_7 | |
| 644002.96 | 4080079 | 0.001690 | 87 | 87 | 0 | ANNUAL | ALL | 1 | Gabilan Hills Elementary School | CR SC 8 | |
| 642244.86 | 4078413 | 0.000630 | 90.17 | 90.17 | 0 | ANNUAL | ALL | 1 | San Benito High School | CR SC 9 | |
| 642083.45 | 4079794 | 0.000950 | 87.58 | 127 | 0 | ANNUAL | ALL | 1 | Jovenes De Antano | CR SR 1 | |
| 646402 | 4076879 | 0.000750 | 146.33 | 153 | 0 | ANNUAL | ALL | 1 | Workplace | CR WP 1 | |
| 648949 | 4077938 | 0.001600 | 189.45 | 259 | 0 | ANNUAL | ALL | 1 | Nearest Workplace | | MEIW |
| 647744 | 4079173 | 0.003200 | 155.2 | 155.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.000500 | 160 | 160 | 0 | ANNUAL | ALL | 1 | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.008060 | 252.9 | 252.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.002060 | 165.9 | 165.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.002870 | 159.6 | 159.6 | 0 | ANNUAL | ALL | 1 | Grid Receptor 12 | G12 | |
| 648144 | 4078373 | 0.004350 | 146.2 | 146.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 13 | G13 | |
| 648144 | 4077973 | 0.006250 | 158.3 | 181 | 0 | ANNUAL | ALL | 1 | Grid Receptor 14 | G14 | |
| 648144 | 4077573 | 0.006530 | 166.6 | 179 | 0 | ANNUAL | ALL | 1 | Grid Receptor 15 | G15 | |
| 648144 | 4077173 | 0.003550 | 175.4 | 175.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 16 | G16 | |
| 648144 | 4076773 | 0.001240 | 177.1 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 17 | G17 | |
| 648144 | 4076373 | 0.000670 | 178 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 18 | G18 | |
| 648144 | 4075973 | 0.000560 | 173 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 19 | G19 | |
| 647744 | 4078773 | 0.004230 | 145.4 | 145.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 2 | G2 | 1 |
| 648144 | 4075573 | 0.000580 | 168.8 | 190 | 0 | ANNUAL | ALL | 1 | Grid Receptor 20 | G20 | Ī |
| 648544 | 4079173 | 0.001220 | 173.5 | 191 | 0 | ANNUAL | ALL | 1 | Grid Receptor 21 | G21 | |
| 648544 | 4078773 | 0.001540 | 166.2 | 166.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 22 | G22 | |
| 648544 | 4078373 | 0.002200 | 145.4 | 253 | 0 | ANNUAL | ALL | 1 | Grid Receptor 23 | G23 | |
| 648544 | 4077973 | 0.003990 | 173.9 | 214 | 0 | ANNUAL | ALL | 1 | Grid Receptor 24 | G24 | |

09/01/21

* AERMET (21112): 2020

16:19:17

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 648544 4077737 0.007870 179.6 227 0 ANNI/AL ALL 1 Grid Receptor 25 G25 648544 4077737 0.005860 191 226 0 ANNI/AL ALL 1 Grid Receptor 27 G27 648544 4076773 0.002580 209.2 240 0 ANNI/AL ALL 1 Grid Receptor 27 G27 627 648544 4075737 0.000580 199.9 240 0 ANNI/AL ALL 1 Grid Receptor 28 G28 648544 4075973 0.000880 199.9 240 0 ANNI/AL ALL 1 Grid Receptor 29 G29 647544 4075737 0.000820 194.4 144.4 4 0 ANNI/AL ALL 1 Grid Receptor 3 G3 648544 4075737 0.000870 195.5 227 0 ANNI/AL ALL 1 Grid Receptor 30 G3 648644 4075737 0.000820 195.5 227 0 ANNI/AL ALL 1 Grid Receptor 30 G30 648644 4075773 0.000820 195.4 154 0 ANNI/AL ALL 1 Grid Receptor 30 G30 648044 4078773 0.000820 155.4 165.4 0 ANNI/AL ALL 1 Grid Receptor 32 G32 648044 40778773 0.000820 155.4 165.4 0 ANNI/AL ALL 1 Grid Receptor 32 G32 648044 4077873 0.000180 159.6 259 0 ANNI/AL ALL 1 Grid Receptor 32 G32 648044 4077873 0.000180 159.6 259 0 ANNI/AL ALL 1 Grid Receptor 32 G32 648044 4077873 0.001540 183.5 259 0 ANNI/AL ALL 1 Grid Receptor 34 G33 648044 4077873 0.001540 183.5 259 0 ANNI/AL ALL 1 Grid Receptor 34 G34 648044 4077873 0.001540 183.5 259 0 ANNI/AL ALL 1 Grid Receptor 36 G35 648044 4075737 0.000540 0.00882 0.00 ANNI/AL ALL 1 Grid Receptor 39 G39 648744 4077873 0.000540 0.0088 220 0 ANNI/AL ALL 1 Grid Receptor 39 G39 648744 4077873 0.000550 0.88 220 0 ANNI/AL ALL 1 Grid Receptor 39 G39 648744 4077873 0.000550 187.4 801 0 ANNI/AL ALL 1 Grid Receptor 4 G46 648044 4077873 0.000550 0.88 220 0 ANNI/AL ALL 1 Grid Receptor 4 G46 648044 4077873 0.000550 0.88 220 0 ANNI/AL ALL 1 Grid Receptor 4 G46 648044 4077873 0.000550 0.88 220 0 ANNI/AL ALL 1 Grid Receptor 4 G46 648044 4077873 0.000550 0.88 220 0 ANNI/AL ALL 1 Grid Receptor 4 G46 648044 4077873 0.000550 0.88 220 0.8 | X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|--|--------|---------|--------------|-------|-------|-------|--------|-----|----------------|------------------|-----|
| 648344 4076773 0.002870 290-2 240 0 ANNUAL ALL I Grid Receptor 77 G27 (685944 4076773 0.000880 199-9 240 0 ANNUAL ALL I Grid Receptor 18 G28 647844 4075973 0.000880 199-9 240 0 ANNUAL ALL I Grid Receptor 9 G29 G29 647844 4075873 0.0005200 144.4 444.4 0 ANNUAL ALL I Grid Receptor 19 G30 648844 4075873 0.000740 195-5 227 0 ANNUAL ALL I Grid Receptor 10 G30 6488944 4075873 0.000740 195-5 227 0 ANNUAL ALL I Grid Receptor 10 G30 6488944 4078773 0.000820 199-4 194 0 ANNUAL ALL I Grid Receptor 11 G31 648944 4078773 0.000900 165-4 165-4 0 ANNUAL ALL I Grid Receptor 12 G32 648944 4077973 0.001080 159-6 259 0 ANNUAL ALL I Grid Receptor 13 G33 648944 4077973 0.001540 183-5 259 0 ANNUAL ALL I Grid Receptor 13 G33 648944 4077973 0.001540 183-5 259 0 ANNUAL ALL I Grid Receptor 14 G34 648944 4076373 0.00240 205 240 0 ANNUAL ALL I Grid Receptor 15 G35 648944 4076373 0.00240 205 240 0 ANNUAL ALL I Grid Receptor 18 G38 648944 4076373 0.002540 205 2240 0 ANNUAL ALL I Grid Receptor 18 G38 648944 4075973 0.001540 188-5 0.000850 187-4 801 ANNUAL ALL I Grid Receptor 18 G38 648944 4077973 0.001550 188-6 300 0 ANNUAL ALL I Grid Receptor 18 G38 648944 4075973 0.001550 188-6 300 0 ANNUAL ALL I Grid Receptor 14 G44 6470473 0.000550 188-6 300 0 ANNUAL ALL I Grid Receptor 14 G44 6497473 0.000550 188-6 300 0 ANNUAL ALL I Grid Receptor 4 G46 64944 4078773 0.000550 187-4 801 0 ANNUAL ALL I Grid Receptor 4 G46 64944 4078773 0.000550 187-4 801 0 ANNUAL ALL I Grid Receptor 4 G46 64944 4078773 0.000550 187-4 801 0 ANNUAL ALL I Grid Receptor 4 G46 64944 4078773 0.000550 187-5 800 0 ANNUAL ALL I Grid Receptor 4 G46 64944 4078773 0.000550 187-5 800 0 ANNUAL ALL I Grid Receptor 4 G46 64944 4078773 0.000550 187-6 801 0 ANNUAL ALL I Grid Receptor 4 G46 64944 4078773 0.000550 188-6 801 0 ANNUAL ALL I GRID Receptor 5 G56 64944 4075773 0.000550 189-6 801 0 ANNUAL ALL I GRID Receptor 5 G56 64944 4075773 0.000550 195-8 30 0 ANNUAL ALL I GRID Receptor 5 G56 64944 4075773 0.000550 195-8 30 0 ANNUAL ALL I GRID Receptor 5 G56 656 64944 4075773 0.000550 195-8 277 | 648544 | 4077573 | 0.007870 | 179.6 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 25 | G25 |
| 648544 4076373 0.002470 233.7 240 0 ANNUAL ALL 1 Grid Receptor 28 G28 648544 4078973 0.005800 144.4 144.4 0 ANNUAL ALL 1 Grid Receptor 3 G3 63 648544 4078373 0.005200 144.4 144.4 0 ANNUAL ALL 1 Grid Receptor 3 G3 G3 648844 4079173 0.008820 199.4 194 0 ANNUAL ALL 1 Grid Receptor 3 G3 G3 G48844 4079173 0.008820 199.4 194 0 ANNUAL ALL 1 Grid Receptor 3 G3 G3 G48844 4079173 0.008820 199.4 194 0 ANNUAL ALL 1 Grid Receptor 3 G3 G3 G48844 4078773 0.001800 155.6 259 0 ANNUAL ALL 1 Grid Receptor 3 G3 G3 G48844 4078373 0.001800 155.6 259 0 ANNUAL ALL 1 Grid Receptor 3 G3 G3 G48844 4077873 0.001800 155.6 259 0 ANNUAL ALL 1 Grid Receptor 3 G3 G48844 4077873 0.003800 124 226 0 ANNUAL ALL 1 Grid Receptor 3 G3 G48844 4077873 0.003480 224 226 0 ANNUAL ALL 1 Grid Receptor 3 G3 G3 G48844 4077873 0.003480 224 226 0 ANNUAL ALL 1 Grid Receptor 3 G3 G3 G48844 4075973 0.003480 224 226 0 ANNUAL ALL 1 Grid Receptor 3 G3 G3 G48844 4075973 0.003480 224 226 0 ANNUAL ALL 1 Grid Receptor 3 G3 G3 G47744 4075973 0.003500 136.5 181 0 ANNUAL ALL 1 Grid Receptor 3 G3 G3 G47744 4079793 0.001650 186.5 30 0 ANNUAL ALL 1 Grid Receptor 3 G39 G47744 4079793 0.001650 186.5 30 0 ANNUAL ALL 1 Grid Receptor 4 G4 G49344 407873 0.000560 187.4 80 1 OANUAL ALL 1 Grid Receptor 4 G4 G49344 407873 0.000560 187.4 80 1 OANUAL ALL 1 Grid Receptor 4 G4 G49344 407873 0.000560 187.4 80 1 OANUAL ALL 1 Grid Receptor 4 G4 G49344 407873 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 G49344 407873 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 G44 G49344 407873 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 G44 G49344 407873 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 G44 G49344 407873 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 G44 G49344 407873 0.000580 253.3 259 0 ANNUAL ALL 1 Grid Receptor 4 G4 G44 G49344 407873 0.000580 253.3 259 0 ANNUAL ALL 1 Grid Receptor 5 G5 G4 G4944 407873 0.000580 253.3 259 0 ANNUAL ALL 1 Grid Receptor 6 G5 G4 G4944 407873 0.000580 173 830 0 ANNUAL ALL 1 Grid Receptor 6 G5 G5 G5 G5 G4 G4944 407873 0.000580 17 | 648544 | 4077173 | 0.008600 | 191 | 226 | 0 | ANNUAL | ALL | 1 | Grid Receptor 26 | |
| 648544 4075973 0.000580 199.9 240 0 ANNUAL ALL 1 Grid Receptor 29 G29 648544 4075873 0.0005200 144.4 444.4 0 ANNUAL ALL 1 Grid Receptor 3 G3 648544 4075873 0.000740 195.5 227 0 ANNUAL ALL 1 Grid Receptor 30 G30 648544 4075873 0.000820 199.4 194 0 ANNUAL ALL 1 Grid Receptor 31 G31 648944 4078773 0.000800 165.4 165.4 0 ANNUAL ALL 1 Grid Receptor 32 G32 648944 4078773 0.000900 165.4 165.4 0 ANNUAL ALL 1 Grid Receptor 33 G33 648944 4077973 0.001580 185.5 259 0 ANNUAL ALL 1 Grid Receptor 33 G33 648944 4077973 0.001540 185.5 259 0 ANNUAL ALL 1 Grid Receptor 34 G34 648944 4077973 0.001540 185.5 259 0 ANNUAL ALL 1 Grid Receptor 34 G34 648944 4076973 0.003480 224 226 0 ANNUAL ALL 1 Grid Receptor 35 G35 648944 4075973 0.003480 224 226 0 ANNUAL ALL 1 Grid Receptor 38 G38 648944 4075973 0.000560 208.8 220 0 ANNUAL ALL 1 Grid Receptor 39 G39 647744 4075973 0.000350 134.6 181 0 ANNUAL ALL 1 Grid Receptor 39 G39 648944 4075973 0.000560 185.6 300 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4075973 0.000580 185.6 300 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 187.4 801 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 1609 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 125.2 10 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 125.2 25 25 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 125.3 259 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078733 0.000660 20.5 221 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078733 0.000660 20.5 221 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4077873 0.000580 125.3 259 0 ANNUAL ALL 1 Grid Receptor 5 G4 649344 4077873 0.000680 25.3 3 259 0 ANNUAL ALL 1 Grid Receptor 5 G4 649344 4077873 0.000660 20.5 221 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4077873 0.000660 176.1 830 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4077873 0.000680 25.3 3 259 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4077873 0.000800 21.6 22.6 25.3 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4077873 0.000800 21.6 22.7 25.7 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4077873 0.000800 21.6 25.3 0 0 AN | | | 0.002850 | 209.2 | 240 | 0 | ANNUAL | | 1 | Grid Receptor 27 | |
| 647744 4078373 0.005200 144.4 144.4 10 ANNUAL ALL 1 Grid Receptor 3 G3 648544 4078573 0.000820 199.4 194 0 ANNUAL ALL 1 Grid Receptor 3 G3 G3 648544 4079173 0.000820 199.4 194 0 ANNUAL ALL 1 Grid Receptor 3 G3 G3 G48944 4078773 0.000800 159.6 259 0 ANNUAL ALL 1 Grid Receptor 3 G33 G48944 4078773 0.00180 159.6 259 0 ANNUAL ALL 1 Grid Receptor 3 G33 G48944 4077973 0.001840 183.5 259 0 ANNUAL ALL 1 Grid Receptor 3 G33 G48944 4077973 0.001840 183.5 259 0 ANNUAL ALL 1 Grid Receptor 3 G35 G48944 4077873 0.003480 224 226 0 ANNUAL ALL 1 Grid Receptor 3 G35 G48944 4076373 0.00240 205 240 0 ANNUAL ALL 1 Grid Receptor 3 G35 G48944 4076373 0.00250 208.8 220 0 ANNUAL ALL 1 Grid Receptor 3 G38 G48944 4076373 0.005370 134.6 181 0 ANNUAL ALL 1 Grid Receptor 4 G4 G49844 4077973 0.005370 134.6 181 0 ANNUAL ALL 1 Grid Receptor 4 G4 G49344 4079173 0.005370 134.6 181 0 ANNUAL ALL 1 Grid Receptor 4 G4 G49344 4078173 0.00550 0.00580 185.6 300 0 ANNUAL ALL 1 Grid Receptor 4 G4 G49344 4078173 0.000560 187.4 801 0 ANNUAL ALL 1 Grid Receptor 4 G4 G49344 4078173 0.000560 187.4 801 0 ANNUAL ALL 1 Grid Receptor 4 G4 G49344 4078373 0.000560 225 221 0 ANNUAL ALL 1 Grid Receptor 4 G4 G49344 4078373 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 G49344 4078373 0.000580 225 221 0 ANNUAL ALL 1 Grid Receptor 4 G4 G49344 4078373 0.000580 225 221 0 ANNUAL ALL 1 Grid Receptor 4 G4 G49344 4078373 0.000580 253 259 0 ANNUAL ALL 1 Grid Receptor 4 G4 G49344 4078373 0.000580 253 259 0 ANNUAL ALL 1 Grid Receptor 4 G4 G49344 4078373 0.000580 253 259 0 ANNUAL ALL 1 Grid Receptor 5 G45 G49344 4075573 0.003800 253 259 0 ANNUAL ALL 1 Grid Receptor 5 G45 G49344 4075573 0.003800 253 250 0 ANNUAL ALL 1 Grid Receptor 5 G45 G49344 4075573 0.003800 253 250 0 ANNUAL ALL 1 Grid Receptor 5 G45 G49344 4075573 0.000580 255 300 0 ANNUAL ALL 1 Grid Receptor 5 G55 G45 G49744 4077573 0.000580 255 300 0 ANNUAL ALL 1 Grid Receptor 5 G55 G45 G49744 4077573 0.000580 255 300 0 ANNUAL ALL 1 Grid Receptor 5 G55 G45 G49744 4077573 0.000580 257 7 257 0 ANNUAL ALL 1 Grid Receptor | 648544 | 4076373 | 0.002470 | 233.7 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 28 | G28 |
| 648344 4075573 0.000740 195.5 227 0 ANNUAL ALL 1 Grid Receptor 30 G30 648944 4078773 0.000800 165.4 165.4 0 ANNUAL ALL 1 Grid Receptor 31 G31 648944 4078773 0.000800 165.4 165.4 0 ANNUAL ALL 1 Grid Receptor 32 G32 648944 4077973 0.001800 189.6 259 0 ANNUAL ALL 1 Grid Receptor 33 G33 648944 4077973 0.001840 183.5 259 0 ANNUAL ALL 1 Grid Receptor 34 G34 648944 4077973 0.001840 224 22.6 0 ANNUAL ALL 1 Grid Receptor 35 G35 648944 4075873 0.002840 205 240 0 ANNUAL ALL 1 Grid Receptor 38 G38 648944 4075873 0.002840 205 240 0 ANNUAL ALL 1 Grid Receptor 38 G38 648944 4075873 0.001560 208.8 220 0 ANNUAL ALL 1 Grid Receptor 39 G39 647744 4075873 0.001500 183.6 818 0 ANNUAL ALL 1 Grid Receptor 39 G39 647744 4075873 0.005870 183.6 818 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4075873 0.000580 185.6 300 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4075873 0.000580 185.6 300 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 185.6 300 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 180.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4078973 0.001300 229 227 22 27 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4078973 0.00380 160.9 813 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4078973 0.00380 160.1 827.2 227.2 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4078973 0.00380 160.1 827.2 227.2 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4078973 0.00380 17 6 80 80 80 80 80 80 80 80 80 80 80 80 80 | | | | | | 0 | | | 1 | Grid Receptor 29 | |
| 648944 4078773 0.000820 190.4 194 0 ANNUAL ALL 1 Grid Receptor 31 G31 648944 4078773 0.001900 1554 165.4 0 ANNUAL ALL 1 Grid Receptor 32 G32 648944 4078773 0.001540 183.5 259 0 ANNUAL ALL 1 Grid Receptor 33 G33 648944 4078773 0.001540 183.5 259 0 ANNUAL ALL 1 Grid Receptor 34 G34 648944 4077573 0.001540 224 226 0 ANNUAL ALL 1 Grid Receptor 35 G35 648944 4076573 0.00240 205 240 0 ANNUAL ALL 1 Grid Receptor 35 G35 648944 4076573 0.002540 205 240 0 ANNUAL ALL 1 Grid Receptor 38 G38 648944 4075973 0.003570 134.6 181 0 ANNUAL ALL 1 Grid Receptor 39 G39 647744 4077973 0.003570 134.6 181 0 ANNUAL ALL 1 Grid Receptor 4 G4 G4 G49344 4078573 0.000580 187.4 801 0 ANNUAL ALL 1 Grid Receptor 4 G4 G4 G49344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 G4 G49344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 G4 G49344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 G4 G49344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 G4 G49344 40778773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 G4 G49344 40778773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 G4 G49344 40778773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 G4 G49344 40778773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 G4 G49344 40778773 0.000580 22.2 22.5 0 ANNUAL ALL 1 Grid Receptor 4 G4 G4 G4944 40778773 0.000580 22.2 263 0 ANNUAL ALL 1 Grid Receptor 4 G4 G4 G4944 40778773 0.000680 23.3 259 0 ANNUAL ALL 1 Grid Receptor 4 G4 G4 G4944 40778773 0.000680 25.3 30 0 ANNUAL ALL 1 Grid Receptor 5 G5 G5 G49744 4077873 0.000600 176.1 830 0 ANNUAL ALL 1 Grid Receptor 5 G5 G5 G49744 4077873 0.000600 176.1 830 0 ANNUAL ALL 1 Grid Receptor 5 G5 G5 G49744 4077873 0.000600 176.1 830 0 ANNUAL ALL 1 Grid Receptor 5 G5 G5 G49744 4077873 0.000600 215.5 300 0 ANNUAL ALL 1 Grid Receptor 5 G5 G5 G49744 4077873 0.000600 176.1 830 0 ANNUAL ALL 1 Grid Receptor 5 G5 G5 G49744 4077873 0.000600 215.3 25 0 ANNUAL ALL 1 Grid Receptor 5 G5 G5 G49744 4077873 0.000800 171 830 0 ANNUAL ALL 1 Grid Receptor 5 G5 G5 G5 | 647744 | 4078373 | 0.005200 | 144.4 | 144.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 3 | G3 |
| 648944 4078773 0.000900 165.4 165.4 0 ANNUAL ALL 1 Grid Receptor 32 G32 648944 4077873 0.00180 159.6 259 0 ANNUAL ALL 1 Grid Receptor 34 G34 648944 4077973 0.001540 183.5 259 0 ANNUAL ALL 1 Grid Receptor 34 G34 648944 4077573 0.001540 224 226 0 ANNUAL ALL 1 Grid Receptor 35 G35 G35 648944 4076873 0.002940 205 240 0 ANNUAL ALL 1 Grid Receptor 38 G38 G38 648944 4076873 0.003570 134.6 181 0 ANNUAL ALL 1 Grid Receptor 39 G39 648944 4075973 0.001650 208.8 220 0 ANNUAL ALL 1 Grid Receptor 39 G39 647744 4075973 0.003570 134.6 181 0 ANNUAL ALL 1 Grid Receptor 40 G4 649944 4075573 0.001300 185.6 300 0 ANNUAL ALL 1 Grid Receptor 40 G4 649944 4078773 0.000560 187.4 801 0 ANNUAL ALL 1 Grid Receptor 41 G4 649944 4078773 0.000560 187.4 801 0 ANNUAL ALL 1 Grid Receptor 40 G4 649944 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 41 G4 649944 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 42 G42 642 6407474 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 42 G42 64944 4077873 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 43 G43 64944 4077873 0.003580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 44 G44 64944 4077873 0.003680 253.3 259 0 ANNUAL ALL 1 Grid Receptor 44 G44 64944 4077873 0.003680 253.3 259 0 ANNUAL ALL 1 Grid Receptor 45 G45 64944 4077873 0.003880 1253.3 259 0 ANNUAL ALL 1 Grid Receptor 49 G49 64944 4077873 0.003880 1253.3 259 0 ANNUAL ALL 1 Grid Receptor 45 G45 64944 4077873 0.000680 253.3 259 0 ANNUAL ALL 1 Grid Receptor 45 G45 64944 4077873 0.000680 253.3 259 0 ANNUAL ALL 1 Grid Receptor 45 G45 64944 4077873 0.000680 253.3 259 0 ANNUAL ALL 1 Grid Receptor 45 G46 64944 4077873 0.000680 253.3 259 0 ANNUAL ALL 1 Grid Receptor 45 G46 64944 4077873 0.000680 253.3 259 0 ANNUAL ALL 1 Grid Receptor 45 G46 64944 4077873 0.000680 253.5 300 0 ANNUAL ALL 1 Grid Receptor 55 G5 G5 649744 4077873 0.000600 255.5 300 0 ANNUAL ALL 1 Grid Receptor 50 G5 65 649744 4077873 0.000600 215.5 300 0 ANNUAL ALL 1 Grid Receptor 50 G5 65 649744 4077873 0.000600 215.6 250 0 ANNUAL ALL 1 Grid Receptor 50 G6 66 64044 4076873 | 648544 | | 0.000740 | 195.5 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 30 | |
| 648944 4073973 0.001080 159.6 259 0 ANNUAL ALL 1 Grid Receptor 33 G33 G48944 4077973 0.001540 183.5 259 0 ANNUAL ALL 1 Grid Receptor 34 G34 648944 4077573 0.003480 224 226 0 ANNUAL ALL 1 Grid Receptor 35 G35 G35 G48944 4075973 0.003680 228.8 220 0 ANNUAL ALL 1 Grid Receptor 39 G39 647744 4075973 0.001550 183.6 300 0 ANNUAL ALL 1 Grid Receptor 39 G39 647744 4075973 0.005570 134.6 181 0 ANNUAL ALL 1 Grid Receptor 4 G4 G4944 4075973 0.005500 187.4 801 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4075973 0.000560 187.4 801 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000560 187.4 801 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 160.9 253 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4078773 0.000580 160.9 253 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4075973 0.000580 160.9 253 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4075737 0.000580 160.9 253 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4075737 0.000580 229 253 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4077573 0.000580 253.3 259 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4077573 0.000580 253.3 259 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4075737 0.000580 253.3 259 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4075737 0.000580 253.3 259 0 ANNUAL ALL 1 Grid Receptor 4 G4 649344 4075737 0.000580 253.3 259 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4075737 0.000580 253.3 259 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4075737 0.000580 253.3 259 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4075737 0.000580 253.5 300 0 ANNUAL ALL 1 Grid Receptor 5 G5 64944 4075737 0.000580 253.5 300 0 ANNUAL ALL 1 Grid Receptor 5 G5 64944 4075737 0.000580 253.5 300 0 ANNUAL ALL 1 Grid Receptor 5 G5 64944 4075737 0.000580 251.5 300 0 ANNUAL ALL 1 Grid Receptor 5 G5 65 64944 4075737 0.000580 251.5 300 0 ANNUAL ALL 1 Grid Receptor 5 G5 65 64944 4075737 0.000580 251.5 251 0 ANNUAL ALL 1 Grid Receptor 5 G5 65 64944 4075737 0.000580 251.5 250 0 ANNUAL ALL 1 Grid Receptor 6 G6 64944 4075737 0.000580 251.5 250 0 ANNUAL ALL 1 Grid Receptor | | | | | | 0 | | | 1 | | |
| 648944 4077573 0.001540 183.5 259 0 ANNUAL ALL 1 Grid Receptor 34 G34 648944 4077573 0.00240 205 240 0 ANNUAL ALL 1 Grid Receptor 35 G35 648944 4075973 0.001650 208.8 220 0 ANNUAL ALL 1 Grid Receptor 38 G38 648944 4075973 0.001650 208.8 220 0 ANNUAL ALL 1 Grid Receptor 39 G39 G47744 4077973 0.005570 134.6 181 0 ANNUAL ALL 1 Grid Receptor 4 G4 648944 4075973 0.001500 188.6 300 0 ANNUAL ALL 1 Grid Receptor 4 G4 648944 4075973 0.001500 188.6 300 0 ANNUAL ALL 1 Grid Receptor 40 G40 G49344 4075973 0.001500 187.4 801 0 ANNUAL ALL 1 Grid Receptor 40 G40 G49344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 42 G42 G49344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 42 G42 G49344 4077573 0.001520 229 253 0 ANNUAL ALL 1 Grid Receptor 44 G44 G49344 4077573 0.001520 229 253 0 ANNUAL ALL 1 Grid Receptor 44 G44 G49344 4077573 0.001520 229 253 0 ANNUAL ALL 1 Grid Receptor 44 G44 G49344 4077573 0.00580 2513 259 0 ANNUAL ALL 1 Grid Receptor 44 G44 G49344 4077573 0.00580 2513 259 0 ANNUAL ALL 1 Grid Receptor 45 G45 G45 G49344 4075973 0.001520 220 263 0 ANNUAL ALL 1 Grid Receptor 48 G48 G49344 4075973 0.001540 220.2 263 0 ANNUAL ALL 1 Grid Receptor 48 G48 G49344 4075973 0.001640 227.2 227.2 227.2 0 ANNUAL ALL 1 Grid Receptor 49 G49 G49 G4944 40757573 0.005700 205.5 300 0 ANNUAL ALL 1 Grid Receptor 50 G56 G49344 4075973 0.001640 227.2 227.2 227.2 0 ANNUAL ALL 1 Grid Receptor 50 G56 G49744 4075773 0.000500 205.5 300 0 ANNUAL ALL 1 Grid Receptor 50 G56 G49744 4075973 0.000500 205.5 300 0 ANNUAL ALL 1 Grid Receptor 50 G56 G49744 4075773 0.000500 205.5 300 0 ANNUAL ALL 1 Grid Receptor 50 G56 G49744 4077573 0.000500 205.5 300 0 ANNUAL ALL 1 Grid Receptor 50 G56 G56 G49744 4077573 0.000500 205.5 300 0 ANNUAL ALL 1 Grid Receptor 50 G56 G56 G49744 4077573 0.000500 21.7 256 0 ANNUAL ALL 1 Grid Receptor 51 G51 G51 G49744 4077573 0.000500 21.7 256 0 ANNUAL ALL 1 Grid Receptor 52 G52 G52 G52 G52 G52 G52 G52 G52 G52 | 648944 | 4078773 | 0.000900 | 165.4 | | 0 | ANNUAL | ALL | 1 | Grid Receptor 32 | G32 |
| 648944 4077573 0.003480 224 226 0 ANNUAL ALL 1 Grid Receptor 35 G35 648944 4075673 0.002940 205 240 0 ANNUAL ALL 1 Grid Receptor 38 G38 648944 4075973 0.001650 208.8 220 0 ANNUAL ALL 1 Grid Receptor 39 G39 647744 4077573 0.005370 134.6 181 0 ANNUAL ALL 1 Grid Receptor 4 G4 64 648944 4075973 0.001300 185.6 300 0 ANNUAL ALL 1 Grid Receptor 4 G4 64 649344 4075973 0.001300 185.6 300 0 ANNUAL ALL 1 Grid Receptor 40 G40 649344 4079173 0.000560 187.4 801 0 ANNUAL ALL 1 Grid Receptor 41 G41 649344 4078737 0.000560 187.4 801 0 ANNUAL ALL 1 Grid Receptor 42 G42 649344 4078373 0.000560 200.5 221 0 ANNUAL ALL 1 Grid Receptor 42 G42 649344 4078373 0.000560 229 253 0 ANNUAL ALL 1 Grid Receptor 43 G43 649344 4077573 0.000580 253.3 259 0 ANNUAL ALL 1 Grid Receptor 45 G45 649344 4077573 0.006880 253.3 259 0 ANNUAL ALL 1 Grid Receptor 45 G45 649344 4075373 0.003810 2202 263 0 ANNUAL ALL 1 Grid Receptor 45 G45 649344 4075973 0.001320 222 227.2 0 ANNUAL ALL 1 Grid Receptor 45 G45 649344 4075973 0.003810 220.2 263 0 ANNUAL ALL 1 Grid Receptor 49 G49 647744 4075973 0.001680 227.2 227.2 0 ANNUAL ALL 1 Grid Receptor 49 G49 647744 4075973 0.003770 163.8 171 0 ANNUAL ALL 1 Grid Receptor 49 G49 647744 4075973 0.005700 205.5 300 0 ANNUAL ALL 1 Grid Receptor 5 G5 649744 4075973 0.005700 205.5 300 0 ANNUAL ALL 1 Grid Receptor 5 G5 649744 4075973 0.000500 176.1 830 0 ANNUAL ALL 1 Grid Receptor 5 G5 649744 4075973 0.000500 195 813 0 ANNUAL ALL 1 Grid Receptor 5 G5 649744 4075973 0.000500 215.3 251 0 ANNUAL ALL 1 Grid Receptor 5 G5 649744 4075973 0.000500 215.3 251 0 ANNUAL ALL 1 Grid Receptor 5 G5 65 649744 4075973 0.000500 215.3 251 0 ANNUAL ALL 1 Grid Receptor 5 G5 65 649744 4075973 0.000500 215.3 251 0 ANNUAL ALL 1 Grid Receptor 5 G5 65 649744 4075973 0.000500 211.7 266 0 ANNUAL ALL 1 Grid Receptor 5 G5 65 649744 4075973 0.000500 211.7 266 0 ANNUAL ALL 1 Grid Receptor 5 G5 65 649744 4075973 0.000500 211.7 266 0 ANNUAL ALL 1 Grid Receptor 5 G6 66 640744 4075973 0.000500 211.7 266 0 ANNUAL ALL 1 Grid Receptor 6 G6 66 640744 4077973 0.000500 | | | | 159.6 | | 0 | | | 1 | Grid Receptor 33 | |
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| 647744 4077973 0.005370 134.6 181 0 ANNUAL ALL 1 Grid Receptor 4 G40 64944 4075573 0.001300 185.6 300 0 ANNUAL ALL 1 Grid Receptor 40 G40 649344 407573 0.000560 187.4 801 0 ANNUAL ALL 1 Grid Receptor 41 G41 649344 4078373 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 42 G42 G42 649344 4078373 0.000570 200.5 221 0 ANNUAL ALL 1 Grid Receptor 43 G43 649344 4077973 0.001320 229 253 0 ANNUAL ALL 1 Grid Receptor 44 G44 649344 4077573 0.006880 253.3 259 0 ANNUAL ALL 1 Grid Receptor 45 G45 649344 4077573 0.006880 253.3 259 0 ANNUAL ALL 1 Grid Receptor 48 G48 649344 4075973 0.01640 227.2 227.2 0 ANNUAL ALL 1 Grid Receptor 49 G49 G49 649344 4075573 0.003770 163.8 171 0 ANNUAL ALL 1 Grid Receptor 49 G49 G49 649344 4075573 0.005700 20.5 300 0 ANNUAL ALL 1 Grid Receptor 50 G5 649344 4075573 0.005700 20.5 300 0 ANNUAL ALL 1 Grid Receptor 50 G5 649344 4075573 0.005700 20.5 300 0 ANNUAL ALL 1 Grid Receptor 50 G5 649744 407573 0.000640 176.1 830 0 ANNUAL ALL 1 Grid Receptor 50 G50 649744 4078773 0.000640 176.1 830 0 ANNUAL ALL 1 Grid Receptor 50 G50 649744 4078773 0.0005700 20.5 3 300 0 ANNUAL ALL 1 Grid Receptor 50 G50 649744 4078773 0.0005700 20.5 3 300 0 ANNUAL ALL 1 Grid Receptor 50 G50 649744 4078773 0.000500 195 813 0 ANNUAL ALL 1 Grid Receptor 51 G51 649744 4078773 0.000500 195 813 0 ANNUAL ALL 1 Grid Receptor 52 G52 649744 4077873 0.000500 125.3 251 0 ANNUAL ALL 1 Grid Receptor 53 G53 649744 4077873 0.000600 221.5 259 0 ANNUAL ALL 1 Grid Receptor 53 G53 649744 4077873 0.000800 221.5 259 0 ANNUAL ALL 1 Grid Receptor 54 G54 649744 4077873 0.000800 211.7 266 0 ANNUAL ALL 1 Grid Receptor 50 G56 65044 4077873 0.000800 211.7 266 0 ANNUAL ALL 1 Grid Receptor 64 G60 650144 4077873 0.000800 211.7 266 0 ANNUAL ALL 1 Grid Receptor 65 G65 650144 4077873 0.000800 211.7 267 0 ANNUAL ALL 1 Grid Receptor 65 G66 650144 4078737 0.000800 211.7 267 0 ANNUAL ALL 1 Grid Receptor 65 G66 660 650144 4077873 0.000800 211.7 266 0 ANNUAL ALL 1 Grid Receptor 66 G60 650144 4077873 0.000800 171 830 0 ANNUAL ALL 1 Grid Receptor 66 G60 650144 4077873 | | | | 205 | 240 | 0 | | ALL | 1 | Grid Receptor 38 | |
| 649944 4075573 0.001300 185.6 300 0 ANNUAL ALL 1 Grid Receptor 40 G40 649344 407573 0.000560 187.4 801 0 ANNUAL ALL 1 Grid Receptor 41 G41 649344 407873 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 42 G42 649344 4078373 0.000570 200.5 221 0 ANNUAL ALL 1 Grid Receptor 43 G43 643 649344 4077573 0.001320 229 253 0 ANNUAL ALL 1 Grid Receptor 44 G44 649344 4075973 0.001320 229 253 0 ANNUAL ALL 1 Grid Receptor 45 G45 649344 4075973 0.003880 253.3 259 0 ANNUAL ALL 1 Grid Receptor 45 G45 649344 4075973 0.0038810 220.2 263 0 ANNUAL ALL 1 Grid Receptor 48 G48 649344 4075973 0.001640 227.2 227.2 20 ANNUAL ALL 1 Grid Receptor 49 G49 64744 4075973 0.003770 163.8 171 0 ANNUAL ALL 1 Grid Receptor 5 G5 65 649344 407573 0.005700 205.5 300 0 ANNUAL ALL 1 Grid Receptor 5 G5 G5 649744 4079173 0.000460 176.1 830 0 ANNUAL ALL 1 Grid Receptor 5 G5 G5 649744 4078773 0.000570 195.8 13 0 ANNUAL ALL 1 Grid Receptor 5 G5 G5 649744 4078773 0.000460 176.1 830 0 ANNUAL ALL 1 Grid Receptor 5 G5 G5 649744 4078773 0.000530 196.1 227 0 ANNUAL ALL 1 Grid Receptor 5 G5 G5 649744 4078773 0.000500 195.8 13 0 ANNUAL ALL 1 Grid Receptor 5 G5 G5 G5 649744 4078773 0.000500 195.1 205.0 ANNUAL ALL 1 Grid Receptor 5 G5 G | 648944 | 4075973 | 0.001650 | 208.8 | 220 | 0 | ANNUAL | ALL | 1 | Grid Receptor 39 | G39 |
| 649344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 42 G42 649344 4078773 0.000580 160.9 813 0 ANNUAL ALL 1 Grid Receptor 45 G42 649344 4078773 0.000570 20.5 221 0 ANNUAL ALL 1 Grid Receptor 45 G43 649344 4077973 0.001320 229 253 0 ANNUAL ALL 1 Grid Receptor 44 G44 649344 4077573 0.000580 253.3 259 0 ANNUAL ALL 1 Grid Receptor 45 G45 649344 4075973 0.001640 227.2 227.2 0 ANNUAL ALL 1 Grid Receptor 48 G48 649344 4075973 0.011640 227.2 227.2 0 ANNUAL ALL 1 Grid Receptor 49 G49 649744 4075573 0.005700 163.8 171 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4075973 0.000570 163.8 171 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4075973 0.000570 163.8 171 0 ANNUAL ALL 1 Grid Receptor 5 G5 649344 4075973 0.000570 20.5 300 0 ANNUAL ALL 1 Grid Receptor 5 G5 G50 649344 4075973 0.000570 163.8 171 0 ANNUAL ALL 1 Grid Receptor 5 G5 G50 649744 4078773 0.000570 20.5 300 0 ANNUAL ALL 1 Grid Receptor 5 G50 G50 649744 4078773 0.000570 195 813 0 ANNUAL ALL 1 Grid Receptor 5 G51 G51 649744 4078373 0.000500 195 813 0 ANNUAL ALL 1 Grid Receptor 5 G52 649744 4077973 0.000620 215.3 251 0 ANNUAL ALL 1 Grid Receptor 5 G53 649744 4077973 0.000620 215.3 251 0 ANNUAL ALL 1 Grid Receptor 5 G54 649744 4077973 0.000620 215.3 251 0 ANNUAL ALL 1 Grid Receptor 5 G55 649744 4077973 0.000620 215.3 251 0 ANNUAL ALL 1 Grid Receptor 5 G55 649744 4077973 0.000620 215.3 251 0 ANNUAL ALL 1 Grid Receptor 5 G55 649744 4075973 0.000500 21.6 259 0 ANNUAL ALL 1 Grid Receptor 5 G55 649744 4075973 0.000500 21.6 259 0 ANNUAL ALL 1 Grid Receptor 5 G55 649744 4075973 0.000500 21.6 259 0 ANNUAL ALL 1 Grid Receptor 5 G55 649744 4075973 0.000500 21.7 266 0 ANNUAL ALL 1 Grid Receptor 6 G66 650144 4079173 0.000380 173 830 0 ANNUAL ALL 1 Grid Receptor 6 G66 650144 4079173 0.000380 173 830 0 ANNUAL ALL 1 Grid Receptor 6 G66 650144 4079173 0.000390 171 830 0 ANNUAL ALL 1 Grid Receptor 6 G66 650144 4079173 0.000590 171 830 0 ANNUAL ALL 1 Grid Receptor 6 G66 650144 4076573 0.000590 171 830 0 ANNUAL ALL 1 Grid Receptor 6 G66 650144 4076573 0.000590 171 830 0 ANNUAL ALL 1 | | | | | | 0 | | | 1 | | |
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| 649744 4077573 0.000800 221.6 259 0 ANNUAL ALL 1 Grid Receptor 55 G55 649744 4076373 0.033600 211.7 266 0 ANNUAL ALL 1 Grid Receptor 58 G58 649744 4075973 0.043110 237.7 257 0 ANNUAL ALL 1 Grid Receptor 59 G59 647744 4077173 0.001840 158.4 171 0 ANNUAL ALL 1 Grid Receptor 60 G6 649744 4075573 0.012520 204.2 300 0 ANNUAL ALL 1 Grid Receptor 60 G60 650144 4079173 0.000380 173 830 0 ANNUAL ALL 1 Grid Receptor 60 G60 650144 4078773 0.000390 171 830 0 ANNUAL ALL 1 Grid Receptor 62 G62 650144 4078373 0.000470 204.6 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td></t<> | | | | | | | | | - | | |
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| 649744 4075573 0.012520 204.2 300 0 ANNUAL ALL 1 Grid Receptor 60 G60 650144 4079173 0.000380 173 830 0 ANNUAL ALL 1 Grid Receptor 61 G61 650144 4078773 0.000390 171 830 0 ANNUAL ALL 1 Grid Receptor 62 G62 650144 4078373 0.000470 204.6 813 0 ANNUAL ALL 1 Grid Receptor 63 G63 650144 4077973 0.000540 216.5 290 0 ANNUAL ALL 1 Grid Receptor 64 G64 650144 4077573 0.002560 257.7 257.7 0 ANNUAL ALL 1 Grid Receptor 65 G65 650144 4076373 0.015910 231.4 272 0 ANNUAL ALL 1 Grid Receptor 68 G68 650144 4075973 0.02820 249.4 | | | | | | | | | 1 | | |
| 650144 4079173 0.000380 173 830 0 ANNUAL ALL 1 Grid Receptor 61 G61 650144 4078773 0.000390 171 830 0 ANNUAL ALL 1 Grid Receptor 62 G62 650144 4078373 0.000470 204.6 813 0 ANNUAL ALL 1 Grid Receptor 63 G63 650144 4077973 0.000540 216.5 290 0 ANNUAL ALL 1 Grid Receptor 64 G64 650144 4077573 0.002560 257.7 257.7 0 ANNUAL ALL 1 Grid Receptor 65 G65 650144 4076373 0.015910 231.4 272 0 ANNUAL ALL 1 Grid Receptor 68 G68 650144 4075973 0.028220 249.4 266 0 ANNUAL ALL 1 Grid Receptor 69 G69 647744 4076773 0.000890 164.7 | | | | | | | | | | | |
| 650144 4078773 0.000390 171 830 0 ANNUAL ALL 1 Grid Receptor 62 G62 650144 4078373 0.000470 204.6 813 0 ANNUAL ALL 1 Grid Receptor 63 G63 650144 4077973 0.000540 216.5 290 0 ANNUAL ALL 1 Grid Receptor 64 G64 650144 4077573 0.002560 257.7 257.7 0 ANNUAL ALL 1 Grid Receptor 65 G65 650144 4076373 0.015910 231.4 272 0 ANNUAL ALL 1 Grid Receptor 68 G68 650144 4075973 0.028220 249.4 266 0 ANNUAL ALL 1 Grid Receptor 69 G69 647744 4076773 0.000890 164.7 164.7 0 ANNUAL ALL 1 Grid Receptor 7 G7 650144 4075573 0.017760 216.4 | | | | | | | | | - | * | |
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| 650144 4077973 0.000540 216.5 290 0 ANNUAL ALL 1 Grid Receptor 64 G64 650144 4077573 0.002560 257.7 257.7 0 ANNUAL ALL 1 Grid Receptor 65 G65 650144 4076373 0.015910 231.4 272 0 ANNUAL ALL 1 Grid Receptor 68 G68 650144 4075973 0.028220 249.4 266 0 ANNUAL ALL 1 Grid Receptor 69 G69 647744 4076773 0.000890 164.7 164.7 0 ANNUAL ALL 1 Grid Receptor 7 G7 650144 4075573 0.017760 216.4 300 0 ANNUAL ALL 1 Grid Receptor 70 G70 650544 4079173 0.000370 177 830 0 ANNUAL ALL 1 Grid Receptor 71 G71 | | | | | | 0 | | | 1 | | |
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| 650144 4075973 0.028220 249.4 266 0 ANNUAL ALL 1 Grid Receptor 69 G69 647744 4076773 0.000890 164.7 164.7 0 ANNUAL ALL 1 Grid Receptor 7 G7 650144 4075573 0.017760 216.4 300 0 ANNUAL ALL 1 Grid Receptor 70 G70 650544 4079173 0.000370 177 830 0 ANNUAL ALL 1 Grid Receptor 71 G71 | | | | | | | | | | | |
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| 650144 4075573 0.017760 216.4 300 0 ANNUAL ALL 1 Grid Receptor 70 G70 650544 4079173 0.000370 177 830 0 ANNUAL ALL 1 Grid Receptor 71 G71 | | | | | | | | | | | |
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| 650544 4078773 0.000380 180.9 830 0 ANNUAL ALL 1 Grid Recentor 72 G72 | | | 0.000370 | | 830 | 0 | | | 1 | | |
| offer to the first of the first | 650544 | 4078773 | 0.000380 | 180.9 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 72 | G72 |

* AERMET (21112): 2020

16.19.17

MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 659544 d078373 0.000400 196.6 830 0 ANNUAL ALL 1 Grid Receptor 73 G73 659544 d077973 0.001020 236.9 801 0 ANNUAL ALL 1 Grid Receptor 74 G74 659544 d077573 0.001680 261.3 287 0 ANNUAL ALL 1 Grid Receptor 75 G75 G75 659544 d076373 0.010800 26.9 260.9 0 ANNUAL ALL 1 Grid Receptor 78 G78 659544 d076373 0.011070 226.7 287 0 ANNUAL ALL 1 Grid Receptor 79 G79 G79 G778 G778 G778 G778 G778 G77 | X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|--|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-----------------------|-----|
| 699544 40776373 0.001680 261.3 287 0 ANNUAL ALL 1 Grid Receptor 75 G75 690544 4076373 0.011090 226.7 287 0 ANNUAL ALL 1 Grid Receptor 79 G79 647744 4076373 0.010670 226.7 287 0 ANNUAL ALL 1 Grid Receptor 80 G8 650544 4075973 0.010670 268.2 287 0 ANNUAL ALL 1 Grid Receptor 80 G80 650944 4079173 0.000360 181.3 830 0 ANNUAL ALL 1 Grid Receptor 81 G81 650944 4078773 0.000350 178.4 830 0 ANNUAL ALL 1 Grid Receptor 81 G81 650944 4078373 0.000350 214.8 830 0 ANNUAL ALL 1 Grid Receptor 82 G82 650944 4077873 0.000350 249.8 830 0 ANNUAL ALL 1 Grid Receptor 83 G83 650944 4077973 0.000350 249.9 813 0 ANNUAL ALL 1 Grid Receptor 84 G84 650944 4077973 0.000350 249.9 813 0 ANNUAL ALL 1 Grid Receptor 85 G85 650944 4077973 0.000530 276.5 296 0 ANNUAL ALL 1 Grid Receptor 86 G86 650944 4077173 0.000630 276.5 296 0 ANNUAL ALL 1 Grid Receptor 86 G86 650944 4077173 0.000630 276.5 296 0 ANNUAL ALL 1 Grid Receptor 87 G85 650944 4076773 0.000370 219.8 267 0 ANNUAL ALL 1 Grid Receptor 87 G85 650944 4076773 0.000530 276.5 296 0 ANNUAL ALL 1 Grid Receptor 87 G85 650944 4076773 0.000530 276.5 296 0 ANNUAL ALL 1 Grid Receptor 88 G86 650944 4075973 0.000530 191.8 267 0 ANNUAL ALL 1 Grid Receptor 89 G88 650944 4075973 0.000530 191.8 30 ANNUAL ALL 1 Grid Receptor 89 G88 660944 4075973 0.000530 160.7 160.7 0 ANNUAL ALL 1 Grid Receptor 89 G89 647744 4075973 0.000300 160.7 160.7 0 ANNUAL ALL 1 Grid Receptor 90 G9 651344 4075973 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 90 G9 651344 4078973 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 90 G9 651344 4075973 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 90 G9 651344 4077573 0.001100 243.2 826 0 ANNUAL ALL 1 Grid Receptor 90 G9 651344 4077573 0.001100 243.5 850 0 ANNUAL ALL 1 Grid Receptor 90 G9 651344 4077573 0.001100 243.5 850 0 ANNUAL ALL 1 Grid Receptor 90 G9 651344 4077573 0.001100 243.5 850 0 ANNUAL ALL 1 Grid Receptor 90 G9 651344 4077573 0.001100 243.5 850 0 ANNUAL ALL 1 Grid Receptor 90 G9 6485424 4077573 0.000100 203.5 813 0 ANNUAL ALL 1 Grid Receptor 91 G91 6498403 4077544 0.000800 244 | 650544 | 4078373 | 0.000400 | 196.6 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 73 | G73 |
| 650544 4075973 0.010080 260.9 260.9 0 ANNUAL ALL 1 Grid Receptor 78 G78 650544 4075973 0.01070 2267, 287 0 ANNUAL ALL 1 Grid Receptor 8 G8 G8 650544 4075573 0.000560 164 164 0 ANNUAL ALL 1 Grid Receptor 8 G8 650544 4075573 0.000560 181.3 830 0 ANNUAL ALL 1 Grid Receptor 80 G80 650544 4075773 0.000350 178.4 830 0 ANNUAL ALL 1 Grid Receptor 81 G81 650944 4078773 0.000350 178.4 830 0 ANNUAL ALL 1 Grid Receptor 82 G82 G82 G8044 4079773 0.000350 178.4 830 0 ANNUAL ALL 1 Grid Receptor 83 G83 650944 4077873 0.000350 214.8 830 0 ANNUAL ALL 1 Grid Receptor 84 G84 650944 4077973 0.001730 249.9 813 0 ANNUAL ALL 1 Grid Receptor 84 G84 650944 4077973 0.000730 249.9 813 0 ANNUAL ALL 1 Grid Receptor 85 G85 G85 G8044 4077973 0.000200 225.6 296 0 ANNUAL ALL 1 Grid Receptor 86 G86 G80 | 650544 | 4077973 | 0.001020 | 236.9 | 801 | 0 | ANNUAL | ALL | 1 | Grid Receptor 74 | G74 |
| 650544 4075973 0.011070 226.7 287 0 ANNUAL ALL 1 Grid Receptor 9 G79 647744 4075973 0.000360 164 164 0 ANNUAL ALL 1 Grid Receptor 80 G8 650544 4075973 0.000360 181.3 830 0 ANNUAL ALL 1 Grid Receptor 81 G81 650944 4078773 0.000350 181.3 830 0 ANNUAL ALL 1 Grid Receptor 82 G82 650944 4078773 0.000350 182.4 830 0 ANNUAL ALL 1 Grid Receptor 83 G83 650944 4073873 0.000350 249.9 813 0 ANNUAL ALL 1 Grid Receptor 83 G83 650944 4073873 0.000350 249.9 813 0 ANNUAL ALL 1 Grid Receptor 84 G84 650944 4077573 0.000350 249.9 813 0 ANNUAL ALL 1 Grid Receptor 85 G85 650944 4077573 0.000300 276.5 296 0 ANNUAL ALL 1 Grid Receptor 86 G86 650944 4077673 0.002000 225.6 296 0 ANNUAL ALL 1 Grid Receptor 86 G86 650944 4076773 0.003700 219.8 267 0 ANNUAL ALL 1 Grid Receptor 87 G87 650944 4076773 0.003700 219.8 267 0 ANNUAL ALL 1 Grid Receptor 87 650944 4075773 0.003700 202.2 273 0 ANNUAL ALL 1 Grid Receptor 87 688 650944 4075973 0.000500 200.2 273 0 ANNUAL ALL 1 Grid Receptor 89 650944 4075973 0.000500 200.2 273 0 ANNUAL ALL 1 Grid Receptor 89 689 647744 4075973 0.000300 160.7 160.7 0 ANNUAL ALL 1 Grid Receptor 89 689 647744 4075973 0.000300 181 243.2 289 0 ANNUAL ALL 1 Grid Receptor 90 651344 4075973 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 90 651344 4075773 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 90 651344 4075773 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 90 651344 4075773 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 90 651344 4075773 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 90 651344 4075773 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 90 651344 4075773 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 90 651344 4075773 0.000130 213.2 826 0 ANNUAL ALL 1 Grid Receptor 90 651344 4075773 0.000130 213.2 826 0 ANNUAL ALL 1 Grid Receptor 90 661344 4075773 0.000100 23.5 813 0 ANNUAL ALL 1 Grid Receptor 90 67 651344 4075773 0.000100 23.5 813 0 ANNUAL ALL 1 Grid Receptor 90 67 651344 4075773 0.000100 23.5 813 0 ANNUAL ALL 1 Grid Receptor 90 67 651344 4075773 0.000100 23.5 813 0 ANNUAL ALL 1 Grid Receptor 90 67 67 651344 4075 | 650544 | 4077573 | 0.001680 | 261.3 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 75 | G75 |
| 647744 4076373 0.000500 164 164 0 ANNUAL ALL 1 Grid Receptor 8 G8 650544 4075573 0.010670 268.2 287 0 ANNUAL ALL 1 Grid Receptor 8 G8 650544 407573 0.000300 181.3 830 0 ANNUAL ALL 1 Grid Receptor 8 G8 650544 407573 0.000350 178.4 830 0 ANNUAL ALL 1 Grid Receptor 8 G82 650944 407573 0.000350 178.4 830 0 ANNUAL ALL 1 Grid Receptor 8 G82 65094 407573 0.000350 178.4 830 0 ANNUAL ALL 1 Grid Receptor 8 G82 65094 407573 0.000370 249.9 813 0 ANNUAL ALL 1 Grid Receptor 8 G83 65094 4077573 0.000730 249.9 813 0 ANNUAL ALL 1 Grid Receptor 8 G84 684 65094 4077573 0.000630 276.5 296 0 ANNUAL ALL 1 Grid Receptor 8 G85 65094 4077573 0.000650 276.5 296 0 ANNUAL ALL 1 Grid Receptor 8 G85 65094 40776773 0.000500 225.6 296 0 ANNUAL ALL 1 Grid Receptor 8 G86 G86 65094 4076773 0.000500 209.2 273 0 ANNUAL ALL 1 Grid Receptor 8 G87 65094 4075973 0.0007900 216.6 287 0 ANNUAL ALL 1 Grid Receptor 8 G89 65094 4075973 0.000930 160.7 160.7 0 ANNUAL ALL 1 Grid Receptor 8 G89 65094 4075973 0.000300 150.7 160.7 0 ANNUAL ALL 1 Grid Receptor 9 G9 65094 4075973 0.000300 150.7 160.7 0 ANNUAL ALL 1 Grid Receptor 9 G9 65094 4075973 0.000300 150.7 160.7 0 ANNUAL ALL 1 Grid Receptor 9 G9 65094 4075973 0.000300 150.7 160.7 0 ANNUAL ALL 1 Grid Receptor 9 G9 65094 4075973 0.000300 150.7 160.7 0 ANNUAL ALL 1 Grid Receptor 9 G9 G9 65094 4075973 0.000300 151 830 0 ANNUAL ALL 1 Grid Receptor 9 G9 G9 65094 4075973 0.000300 151 830 0 ANNUAL ALL 1 Grid Receptor 9 G9 G9 G50344 4075973 0.000300 151 830 0 ANNUAL ALL 1 Grid Receptor 9 G9 G9 G50344 4075973 0.000300 151 830 0 ANNUAL ALL 1 Grid Receptor 9 G9 G9 G51344 4075973 0.000300 151 830 0 ANNUAL ALL 1 Grid Receptor 9 G9 G9 G51344 4075973 0.000130 213.6 830 0 ANNUAL ALL 1 Grid Receptor 9 G9 G9 G51344 4075973 0.000130 213.6 830 0 ANNUAL ALL 1 Grid Receptor 9 G9 G9 G651344 4075973 0.000130 213.5 826 0 ANNUAL ALL 1 Grid Receptor 9 G9 G9 G651344 4075973 0.000130 213.5 830 0 ANNUAL ALL 1 Grid Receptor 9 G9 G9 G651344 4075973 0.000130 223.5 813 0 ANNUAL ALL 1 Grid Receptor 9 G9 G9 G651344 4075973 0.000300 224.3 830 0 A | 650544 | 4076373 | 0.010080 | 260.9 | 260.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 78 | G78 |
| 650944 4075573 0.010670 268.2 287 0 ANNUAL ALL 1 Grid Receptor 80 G80 650944 40757373 0.000350 181.3 830 0 ANNUAL ALL 1 Grid Receptor 82 G82 650944 4078373 0.000350 178.4 830 0 ANNUAL ALL 1 Grid Receptor 82 G82 650944 4078373 0.000350 178.4 830 0 ANNUAL ALL 1 Grid Receptor 83 G83 G83 650944 4077873 0.000730 249.9 813 0 ANNUAL ALL 1 Grid Receptor 84 G84 650944 4077873 0.000730 276.5 296 0 ANNUAL ALL 1 Grid Receptor 84 G84 650944 4077573 0.000630 276.5 296 0 ANNUAL ALL 1 Grid Receptor 85 G85 G85 G8044 4077573 0.000500 225.6 296 0 ANNUAL ALL 1 Grid Receptor 86 G86 G86 G8044 4076773 0.002000 225.6 296 0 ANNUAL ALL 1 Grid Receptor 87 G87 G87 G87 G87 G87 G87 G87 G87 G87 | 650544 | 4075973 | 0.011070 | 226.7 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 79 | G79 |
| 650944 4078173 0.000360 181.3 830 0 ANNUAL ALL 1 Grid Receptor 81 G81 | 647744 | 4076373 | 0.000560 | 164 | 164 | 0 | ANNUAL | ALL | 1 | Grid Receptor 8 | G8 |
| 650944 4078773 0.000350 178.4 830 0 ANNUAL ALL 1 Grid Receptor 82 G82 650944 4077873 0.000380 214.8 830 0 ANNUAL ALL 1 Grid Receptor 83 G83 650944 4077873 0.000630 276.5 296 0 ANNUAL ALL 1 Grid Receptor 85 G84 650944 4077873 0.000630 276.5 296 0 ANNUAL ALL 1 Grid Receptor 85 G85 650944 4077873 0.002000 225.6 296 0 ANNUAL ALL 1 Grid Receptor 86 G86 650944 4077873 0.003720 219.8 267 0 ANNUAL ALL 1 Grid Receptor 87 G87 650944 4076373 0.003720 219.8 267 0 ANNUAL ALL 1 Grid Receptor 87 G87 650944 4076373 0.006500 209.2 273 0 ANNUAL ALL 1 Grid Receptor 88 G88 650944 4075973 0.000300 216.6 287 0 ANNUAL ALL 1 Grid Receptor 89 G89 647744 4075973 0.000390 160.7 160.7 0 ANNUAL ALL 1 Grid Receptor 90 G90 651344 4079173 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 90 G90 651344 4078773 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 90 G90 651344 4077873 0.000300 214.3 830 0 ANNUAL ALL 1 Grid Receptor 90 G92 651344 4077873 0.000110 248.4 826 0 ANNUAL ALL 1 Grid Receptor 90 G93 651344 4077873 0.000110 248.4 826 0 ANNUAL ALL 1 Grid Receptor 90 G94 651344 4077873 0.000110 248.4 826 0 ANNUAL ALL 1 Grid Receptor 90 G95 651344 4077873 0.0001300 213.6 813 0 ANNUAL ALL 1 Grid Receptor 90 G95 651344 4077873 0.0001300 23.5 813 0 ANNUAL ALL 1 Grid Receptor 90 G96 651344 4077873 0.000180 23.5 813 0 ANNUAL ALL 1 Grid Receptor 90 G96 651344 4077873 0.000180 23.5 813 0 ANNUAL ALL 1 Grid Receptor 90 G96 651344 4077873 0.000800 23.5 813 0 ANNUAL ALL 1 Grid Receptor 90 G96 651344 4077873 0.000800 23.5 813 0 ANNUAL ALL 1 Grid Receptor 91 G97 651344 4077873 0.0008 | 650544 | 4075573 | 0.010670 | 268.2 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 80 | G80 |
| 650944 4078373 0.000380 214.8 830 0 ANNUAL ALL 1 Grid Receptor 83 G83 650944 4077973 0.001730 249.9 813 0 ANNUAL ALL 1 Grid Receptor 84 G84 650944 4077173 0.000630 276.5 296 0 ANNUAL ALL 1 Grid Receptor 86 G86 650944 4077173 0.002000 225.6 296 0 ANNUAL ALL 1 Grid Receptor 86 G86 650944 4076373 0.003500 209.2 273 0 ANNUAL ALL 1 Grid Receptor 88 G88 650944 4075973 0.007900 216.6 287 0 ANNUAL ALL 1 Grid Receptor 89 G89 650944 4075973 0.001810 243.2 289 0 ANNUAL ALL 1 Grid Receptor 89 G89 651344 4075973 0.011810 243.2 | 650944 | 4079173 | 0.000360 | 181.3 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 81 | G81 |
| 650944 4077973 0.001730 249.9 813 0 ANNUAL ALL 1 Grid Receptor 84 G84 650944 4077573 0.000630 276.5 296 0 ANNUAL ALL 1 Grid Receptor 85 G85 650944 4077173 0.000200 225.6 296 0 ANNUAL ALL 1 Grid Receptor 86 G86 650944 4076773 0.003720 219.8 267 0 ANNUAL ALL 1 Grid Receptor 87 G87 G87 G894 4076373 0.006500 209.2 273 0 ANNUAL ALL 1 Grid Receptor 88 G88 G88 650944 4075973 0.000790 216.6 287 0 ANNUAL ALL 1 Grid Receptor 89 G89 G89 G8944 4075973 0.000390 160.7 160.7 0 ANNUAL ALL 1 Grid Receptor 90 G99 G894 4075973 0.001810 243.2 289 0 ANNUAL ALL 1 Grid Receptor 90 G90 G91 | 650944 | 4078773 | 0.000350 | 178.4 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 82 | G82 |
| 650944 4077973 0.001730 249.9 813 0 ANNUAL ALL 1 Grid Receptor 84 G84 650944 4077573 0.000630 276.5 296 0 ANNUAL ALL 1 Grid Receptor 85 G85 650944 4077573 0.003720 219.8 267 0 ANNUAL ALL 1 Grid Receptor 87 G87 G87 G894 4076773 0.003720 219.8 267 0 ANNUAL ALL 1 Grid Receptor 87 G87 G87 G894 4076373 0.006500 209.2 273 0 ANNUAL ALL 1 Grid Receptor 88 G88 G88 G894 4075973 0.000790 216.6 287 0 ANNUAL ALL 1 Grid Receptor 89 G89 G89 G894 4075973 0.000390 160.7 160.7 0 ANNUAL ALL 1 Grid Receptor 99 G9 G99 G894 4075973 0.000390 160.7 160.7 0 ANNUAL ALL 1 Grid Receptor 90 G90 G91 G | 650944 | 4078373 | 0.000380 | 214.8 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 83 | G83 |
| 650944 4077173 0.002000 225.6 296 0 ANNUAL ALL 1 Grid Receptor 86 G86 G86 G8044 4076773 0.003720 219.8 267 0 ANNUAL ALL 1 Grid Receptor 87 G87 G87 G8944 4076373 0.006500 209.2 273 0 ANNUAL ALL 1 Grid Receptor 88 G88 G8944 4075973 0.007900 216.6 287 0 ANNUAL ALL 1 Grid Receptor 89 G89 G89 G8944 4075973 0.000390 160.7 160.7 0 ANNUAL ALL 1 Grid Receptor 90 G90 G9 | 650944 | 4077973 | 0.001730 | 249.9 | 813 | 0 | ANNUAL | ALL | 1 | | G84 |
| 650944 4076773 0.003720 219.8 267 0 ANNUAL ALL 1 Grid Receptor 87 G87 650944 4076373 0.006500 209.2 273 0 ANNUAL ALL 1 Grid Receptor 89 G88 650944 4075973 0.000390 160.7 160.7 0 ANNUAL ALL 1 Grid Receptor 90 G9 650944 4075973 0.011810 243.2 289 0 ANNUAL ALL 1 Grid Receptor 90 G90 650944 4075973 0.0011810 243.2 289 0 ANNUAL ALL 1 Grid Receptor 90 G90 651344 4078773 0.00030 181 830 0 ANNUAL ALL 1 Grid Receptor 91 G91 651344 4078773 0.001100 214.3 830 0 ANNUAL ALL 1 Grid Receptor 92 G92 651344 4077873 0.001110 248.4 | 650944 | 4077573 | 0.000630 | 276.5 | 296 | 0 | ANNUAL | ALL | 1 | Grid Receptor 85 | G85 |
| 650944 4076373 0.006500 209.2 273 0 ANNUAL ALL 1 Grid Receptor 88 G88 650944 4075973 0.007900 216.6 287 0 ANNUAL ALL 1 Grid Receptor 89 G89 647744 4075973 0.000390 160.7 160.7 0 ANNUAL ALL 1 Grid Receptor 9 G9 650944 4075573 0.011810 243.2 289 0 ANNUAL ALL 1 Grid Receptor 90 G90 651344 4079173 0.000330 191 830 0 ANNUAL ALL 1 Grid Receptor 91 G91 G9 | 650944 | 4077173 | 0.002000 | 225.6 | 296 | 0 | ANNUAL | ALL | 1 | Grid Receptor 86 | G86 |
| 650944 4075973 0.007900 216.6 287 0 ANNUAL ALL 1 Grid Receptor 89 G89 647744 4075973 0.000390 160.7 160.7 0 ANNUAL ALL 1 Grid Receptor 90 G90 650944 4075573 0.011810 243.2 289 0 ANNUAL ALL 1 Grid Receptor 90 G90 651344 4079173 0.000330 191 830 0 ANNUAL ALL 1 Grid Receptor 91 G91 651344 4078773 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 92 G92 G92 G93 G9 | 650944 | 4076773 | 0.003720 | 219.8 | 267 | 0 | ANNUAL | ALL | 1 | Grid Receptor 87 | G87 |
| 647744 4075973 0.000390 160.7 160.7 0 ANNUAL ALL 1 Grid Receptor 9 G9 | 650944 | 4076373 | 0.006500 | 209.2 | 273 | 0 | ANNUAL | ALL | 1 | Grid Receptor 88 | G88 |
| 647744 4075973 0.000390 160.7 160.7 0 ANNUAL ALL 1 Grid Receptor 9 G9 | 650944 | 4075973 | 0.007900 | 216.6 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 89 | G89 |
| 651344 4079173 0.000330 191 830 0 ANNUAL ALL 1 Grid Receptor 91 G91 651344 4078773 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 92 G92 651344 4078373 0.000500 214.3 830 0 ANNUAL ALL 1 Grid Receptor 93 G93 651344 4077973 0.001110 248.4 826 0 ANNUAL ALL 1 Grid Receptor 94 G94 651344 4077573 0.001130 213.6 813 0 ANNUAL ALL 1 Grid Receptor 95 G95 651344 407673 0.002100 213.6 813 0 ANNUAL ALL 1 Grid Receptor 96 G96 651344 407673 0.003100 203.5 813 0 ANNUAL ALL 1 Grid Receptor 97 G97 651344 407673 0.008400 205.6 | 647744 | 4075973 | 0.000390 | 160.7 | 160.7 | 0 | ANNUAL | ALL | 1 | | G9 |
| 651344 4079173 0.000330 191 830 0 ANNUAL ALL 1 Grid Receptor 91 G91 651344 4078773 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 92 G92 651344 4078373 0.000500 214.3 830 0 ANNUAL ALL 1 Grid Receptor 93 G93 651344 4077973 0.001110 248.4 826 0 ANNUAL ALL 1 Grid Receptor 94 G94 651344 4077573 0.001130 213.6 813 0 ANNUAL ALL 1 Grid Receptor 95 G95 651344 407673 0.002100 213.6 813 0 ANNUAL ALL 1 Grid Receptor 96 G96 651344 407673 0.003100 203.5 813 0 ANNUAL ALL 1 Grid Receptor 97 G97 651344 407673 0.008400 205.6 | 650944 | 4075573 | 0.011810 | 243.2 | 289 | 0 | ANNUAL | ALL | 1 | Grid Receptor 90 | G90 |
| 651344 4078773 0.000300 181 830 0 ANNUAL ALL 1 Grid Receptor 92 G92 651344 4078373 0.000500 214.3 830 0 ANNUAL ALL 1 Grid Receptor 93 G93 651344 4077973 0.001110 248.4 826 0 ANNUAL ALL 1 Grid Receptor 94 G94 651344 4077573 0.001130 213.2 826 0 ANNUAL ALL 1 Grid Receptor 95 G95 651344 4076773 0.002100 213.6 813 0 ANNUAL ALL 1 Grid Receptor 96 G96 651344 4076773 0.003100 203.5 813 0 ANNUAL ALL 1 Grid Receptor 97 G97 651344 4076373 0.004870 205.6 220 0 ANNUAL ALL 1 Grid Receptor 97 G97 651344 4075973 0.006060 205.8 | | | 0.000330 | 191 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 91 | G91 |
| 651344 4078373 0.000500 214.3 830 0 ANNUAL ALL 1 Grid Receptor 93 G93 651344 4077973 0.001110 248.4 826 0 ANNUAL ALL 1 Grid Receptor 94 G94 651344 4077573 0.00130 213.6 813 0 ANNUAL ALL 1 Grid Receptor 95 G95 651344 4077173 0.002100 213.6 813 0 ANNUAL ALL 1 Grid Receptor 96 G96 651344 4076773 0.003100 203.5 813 0 ANNUAL ALL 1 Grid Receptor 97 G97 651344 4076373 0.004870 205.6 220 0 ANNUAL ALL 1 Grid Receptor 98 G98 651344 4075973 0.006060 205.8 269 0 ANNUAL ALL 1 Grid Receptor 99 G98 651344 4075973 0.008200 183.61 | 651344 | 4078773 | 0.000300 | 181 | 830 | 0 | ANNUAL | ALL | 1 | | G92 |
| 651344 4077973 0.001110 248.4 826 0 ANNUAL ALL 1 Grid Receptor 94 G94 651344 4077573 0.001130 213.2 826 0 ANNUAL ALL 1 Grid Receptor 95 G95 651344 4077173 0.002100 213.6 813 0 ANNUAL ALL 1 Grid Receptor 96 G96 651344 4076773 0.003100 203.5 813 0 ANNUAL ALL 1 Grid Receptor 97 G97 651344 4076733 0.004870 205.6 220 0 ANNUAL ALL 1 Grid Receptor 98 G98 651344 4075973 0.006060 205.8 269 0 ANNUAL ALL 1 Grid Receptor 99 G99 648584.24 4077523 0.008200 183.61 227 0 ANNUAL ALL 1 Boundary Perimeter 1 P1 649584.05 4077537 0.004810 254.01 | | 4078373 | 0.000500 | 214.3 | 830 | 0 | ANNUAL | ALL | 1 | | G93 |
| 651344 4077573 0.001130 213.2 826 0 ANNUAL ALL 1 Grid Receptor 95 G95 651344 4077173 0.002100 213.6 813 0 ANNUAL ALL 1 Grid Receptor 96 G96 651344 4076773 0.003100 203.5 813 0 ANNUAL ALL 1 Grid Receptor 97 G97 651344 4076373 0.004870 205.6 220 0 ANNUAL ALL 1 Grid Receptor 98 G98 651344 4076373 0.006060 205.8 269 0 ANNUAL ALL 1 Grid Receptor 98 G98 651344 4075973 0.006060 205.8 269 0 ANNUAL ALL 1 Boundary Perimeter 1 P1 649848.05 4077537 0.004810 254.01 257 0 ANNUAL ALL 1 Boundary Perimeter 10 P10 64984.02 4077540 0.000830 22 | | | 0.001110 | | | 0 | | ALL | 1 | Grid Receptor 94 | G94 |
| 651344 4077173 0.002100 213.6 813 0 ANNUAL ALL 1 Grid Receptor 96 G96 651344 4076773 0.003100 203.5 813 0 ANNUAL ALL 1 Grid Receptor 97 G97 651344 4076373 0.004870 205.6 220 0 ANNUAL ALL 1 Grid Receptor 98 G98 651344 4075973 0.006060 205.8 269 0 ANNUAL ALL 1 Grid Receptor 99 G99 648584.24 4077523 0.008200 183.61 227 0 ANNUAL ALL 1 Boundary Perimeter 1 P1 649484.05 4077537 0.004810 254.01 257 0 ANNUAL ALL 1 Boundary Perimeter 10 P10 649584.03 4077539 0.001640 235.3 259 0 ANNUAL ALL 1 Boundary Perimeter 11 P11 649784 4077540 0.000830 | | | 0.001130 | 213.2 | 826 | 0 | ANNUAL | ALL | 1 | | G95 |
| 651344 4076373 0.004870 205.6 220 0 ANNUAL ALL 1 Grid Receptor 98 G98 651344 4075973 0.006060 205.8 269 0 ANNUAL ALL 1 Grid Receptor 99 G99 648584.24 4077523 0.008200 183.61 227 0 ANNUAL ALL 1 Boundary Perimeter 1 P1 64984.05 4077537 0.004810 254.01 257 0 ANNUAL ALL 1 Boundary Perimeter 10 P10 649584.03 4077539 0.001640 235.3 259 0 ANNUAL ALL 1 Boundary Perimeter 11 P11 649684.02 4077540 0.000830 221.29 259 0 ANNUAL ALL 1 Boundary Perimeter 12 P12 649784 4077541 0.000820 222.37 260 0 ANNUAL ALL 1 Boundary Perimeter 13 P13 649883.99 4077542 0 | | 4077173 | 0.002100 | 213.6 | 813 | 0 | ANNUAL | ALL | 1 | | G96 |
| 651344 4075973 0.006060 205.8 269 0 ANNUAL ALL 1 Grid Receptor 99 G99 648584.24 4077523 0.008200 183.61 227 0 ANNUAL ALL 1 Boundary Perimeter 1 P1 649484.05 4077537 0.004810 254.01 257 0 ANNUAL ALL 1 Boundary Perimeter 10 P10 649584.03 4077539 0.001640 235.3 259 0 ANNUAL ALL 1 Boundary Perimeter 11 P11 649684.02 4077540 0.000830 221.29 259 0 ANNUAL ALL 1 Boundary Perimeter 12 P12 649784 4077541 0.000820 222.37 260 0 ANNUAL ALL 1 Boundary Perimeter 13 P13 649883.99 4077542 0.001390 233.6 259 0 ANNUAL ALL 1 Boundary Perimeter 14 P14 649983.97 4077543 | 651344 | 4076773 | 0.003100 | 203.5 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 97 | G97 |
| 651344 4075973 0.006060 205.8 269 0 ANNUAL ALL 1 Grid Receptor 99 G99 648584.24 4077523 0.008200 183.61 227 0 ANNUAL ALL 1 Boundary Perimeter 1 P1 649484.05 4077537 0.004810 254.01 257 0 ANNUAL ALL 1 Boundary Perimeter 10 P10 649584.03 4077539 0.001640 235.3 259 0 ANNUAL ALL 1 Boundary Perimeter 11 P11 649684.02 4077540 0.000830 221.29 259 0 ANNUAL ALL 1 Boundary Perimeter 12 P12 649784 4077541 0.000820 222.37 260 0 ANNUAL ALL 1 Boundary Perimeter 13 P13 649883.99 4077542 0.001390 233.6 259 0 ANNUAL ALL 1 Boundary Perimeter 14 P14 649983.97 4077543 | 651344 | 4076373 | 0.004870 | 205.6 | 220 | 0 | ANNUAL | ALL | 1 | Grid Receptor 98 | G98 |
| 648584.24 4077523 0.008200 183.61 227 0 ANNUAL ALL 1 Boundary Perimeter 1 P1 649484.05 4077537 0.004810 254.01 257 0 ANNUAL ALL 1 Boundary Perimeter 10 P10 649584.03 4077539 0.001640 235.3 259 0 ANNUAL ALL 1 Boundary Perimeter 11 P11 649684.02 4077540 0.000830 221.29 259 0 ANNUAL ALL 1 Boundary Perimeter 12 P12 649784 4077541 0.000820 222.37 260 0 ANNUAL ALL 1 Boundary Perimeter 13 P13 649883.99 4077542 0.001390 233.6 259 0 ANNUAL ALL 1 Boundary Perimeter 14 P14 649983.97 4077543 0.003790 249.54 259 0 ANNUAL ALL 1 Boundary Perimeter 15 P15 650083.94 4077546< | | | 0.006060 | 205.8 | 269 | 0 | | ALL | 1 | Grid Receptor 99 | G99 |
| 649584.03 4077539 0.001640 235.3 259 0 ANNUAL ALL 1 Boundary Perimeter 11 P11 649684.02 4077540 0.000830 221.29 259 0 ANNUAL ALL 1 Boundary Perimeter 12 P12 649784 4077541 0.000820 222.37 260 0 ANNUAL ALL 1 Boundary Perimeter 13 P13 649883.99 4077542 0.001390 233.6 259 0 ANNUAL ALL 1 Boundary Perimeter 14 P14 649983.97 4077543 0.003790 249.54 259 0 ANNUAL ALL 1 Boundary Perimeter 15 P15 650083.94 4077546 0.002730 258.89 258.89 0 ANNUAL ALL 1 Boundary Perimeter 16 P16 650183.91 4077548 0.002180 259.56 259.56 0 ANNUAL ALL 1 Boundary Perimeter 17 P17 650283.87 | | | 0.008200 | 183.61 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 1 | P1 |
| 649584.03 4077539 0.001640 235.3 259 0 ANNUAL ALL 1 Boundary Perimeter 11 P11 649684.02 4077540 0.000830 221.29 259 0 ANNUAL ALL 1 Boundary Perimeter 12 P12 649784 4077541 0.000820 222.37 260 0 ANNUAL ALL 1 Boundary Perimeter 13 P13 649883.99 4077542 0.001390 233.6 259 0 ANNUAL ALL 1 Boundary Perimeter 14 P14 649983.97 4077543 0.003790 249.54 259 0 ANNUAL ALL 1 Boundary Perimeter 15 P15 650083.94 4077546 0.002730 258.89 258.89 0 ANNUAL ALL 1 Boundary Perimeter 16 P16 650183.91 4077548 0.002180 259.56 259.56 0 ANNUAL ALL 1 Boundary Perimeter 17 P17 650283.87 | 649484.05 | 4077537 | 0.004810 | 254.01 | 257 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 10 | P10 |
| 649684.02 4077540 0.000830 221.29 259 0 ANNUAL ALL 1 Boundary Perimeter 12 P12 649784 4077541 0.000820 222.37 260 0 ANNUAL ALL 1 Boundary Perimeter 13 P13 649883.99 4077542 0.001390 233.6 259 0 ANNUAL ALL 1 Boundary Perimeter 14 P14 649983.97 4077543 0.003790 249.54 259 0 ANNUAL ALL 1 Boundary Perimeter 15 P15 650083.94 4077546 0.002730 258.89 258.89 0 ANNUAL ALL 1 Boundary Perimeter 16 P16 650183.91 4077548 0.002180 259.56 259.56 0 ANNUAL ALL 1 Boundary Perimeter 17 P17 650283.87 4077550 0.002470 256.77 266 0 ANNUAL ALL 1 Boundary Perimeter 18 P18 650383.84 <td< td=""><td>649584.03</td><td></td><td>0.001640</td><td>235.3</td><td>259</td><td>0</td><td></td><td></td><td>1</td><td></td><td>P11</td></td<> | 649584.03 | | 0.001640 | 235.3 | 259 | 0 | | | 1 | | P11 |
| 649883.99 4077542 0.001390 233.6 259 0 ANNUAL ALL 1 Boundary Perimeter 14 P14 649983.97 4077543 0.003790 249.54 259 0 ANNUAL ALL 1 Boundary Perimeter 15 P15 650083.94 4077546 0.002730 258.89 258.89 0 ANNUAL ALL 1 Boundary Perimeter 16 P16 650183.91 4077548 0.002180 259.56 259.56 0 ANNUAL ALL 1 Boundary Perimeter 17 P17 650283.87 4077550 0.002470 256.77 266 0 ANNUAL ALL 1 Boundary Perimeter 18 P18 650383.84 4077552 0.002040 242.37 290 0 ANNUAL ALL 1 Boundary Perimeter 19 P19 | | | 0.000830 | | 259 | 0 | | ALL | 1 | • | P12 |
| 649883.99 4077542 0.001390 233.6 259 0 ANNUAL ALL 1 Boundary Perimeter 14 P14 649983.97 4077543 0.003790 249.54 259 0 ANNUAL ALL 1 Boundary Perimeter 15 P15 650083.94 4077546 0.002730 258.89 258.89 0 ANNUAL ALL 1 Boundary Perimeter 16 P16 650183.91 4077548 0.002180 259.56 259.56 0 ANNUAL ALL 1 Boundary Perimeter 17 P17 650283.87 4077550 0.002470 256.77 266 0 ANNUAL ALL 1 Boundary Perimeter 18 P18 650383.84 4077552 0.002040 242.37 290 0 ANNUAL ALL 1 Boundary Perimeter 19 P19 | 649784 | 4077541 | 0.000820 | 222.37 | 260 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 13 | P13 |
| 649983.97 4077543 0.003790 249.54 259 0 ANNUAL ALL 1 Boundary Perimeter 15 P15 650083.94 4077546 0.002730 258.89 258.89 0 ANNUAL ALL 1 Boundary Perimeter 16 P16 650183.91 4077548 0.002180 259.56 259.56 0 ANNUAL ALL 1 Boundary Perimeter 17 P17 650283.87 4077550 0.002470 256.77 266 0 ANNUAL ALL 1 Boundary Perimeter 18 P18 650383.84 4077552 0.002040 242.37 290 0 ANNUAL ALL 1 Boundary Perimeter 19 P19 | | 4077542 | | 233.6 | 259 | 0 | | | 1 | Boundary Perimeter 14 | |
| 650183.91 4077548 0.002180 259.56 259.56 0 ANNUAL ALL 1 Boundary Perimeter 17 P17 650283.87 4077550 0.002470 256.77 266 0 ANNUAL ALL 1 Boundary Perimeter 18 P18 650383.84 4077552 0.002040 242.37 290 0 ANNUAL ALL 1 Boundary Perimeter 19 P19 | 649983.97 | 4077543 | 0.003790 | 249.54 | 259 | 0 | | | 1 | | P15 |
| 650183.91 4077548 0.002180 259.56 259.56 0 ANNUAL ALL 1 Boundary Perimeter 17 P17 650283.87 4077550 0.002470 256.77 266 0 ANNUAL ALL 1 Boundary Perimeter 18 P18 650383.84 4077552 0.002040 242.37 290 0 ANNUAL ALL 1 Boundary Perimeter 19 P19 | 650083.94 | 4077546 | 0.002730 | 258.89 | 258.89 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 16 | P16 |
| 650283.87 4077550 0.002470 256.77 266 0 ANNUAL ALL 1 Boundary Perimeter 18 P18 650383.84 4077552 0.002040 242.37 290 0 ANNUAL ALL 1 Boundary Perimeter 19 P19 | | | | | | | | | 1 | • | |
| 650383.84 4077552 0.002040 242.37 290 0 ANNUAL ALL 1 Boundary Perimeter 19 P19 | | | | | | | | | 1 | | |
| , | | | | | | | | | 1 | • | |
| 648684.22 4077525 0.007330 197.16 227 0 ANNUAL ALL 1 Boundary Perimeter 2 P2 | | | | | | | | | 1 | • | |
| 650483.81 4077554 0.001720 242.23 296 0 ANNUAL ALL 1 Boundary Perimeter 20 P20 | | | | | | | | | 1 | <u> </u> | |
| 650583.78 4077557 0.001690 259.71 290 0 ANNUAL ALL 1 Boundary Perimeter 21 P21 | | | | | | | | | 1 | • | |
| 650683.75 4077559 0.001720 257.58 296 0 ANNUAL ALL 1 Boundary Perimeter 22 P22 | | | | | | | | | 1 | | |
| 650776.81 4077554 0.001010 267.9 296 0 ANNUAL ALL 1 Boundary Perimeter 23 P23 | | | | | | | | | | | |
| 650778.91 4077454 0.000700 275.91 275.91 0 ANNUAL ALL 1 Boundary Perimeter 24 P24 | | | | | | | | | 1 | | - |
| 650781 4077354 0.001470 265.73 281 0 ANNUAL ALL 1 Boundary Perimeter 25 P25 | | | | | | | | | 1 | | |

* AERMET (21112): 2020 16:19:

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| TORN | *11 X 1 . (/T, 1 / X, | 3(1X,113.3),3(1X,10.2),2X | 1,110,271,710,2 | 21,10.0,271,7 | 10) | | | | | | _ |
|-----------|------------------------|---------------------------|-----------------|---------------|-------|--------|-----|----------------|-----------------------|-----|--------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
| 650783.1 | 4077254 | 0.002960 | 251.08 | 282 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 26 | P26 | |
| 650785.19 | 4077154 | 0.003560 | 252.83 | 281 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 27 | P27 | |
| 650787.29 | 4077054 | 0.003950 | 246.1 | 269 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 28 | P28 | |
| 650789.38 | 4076954 | 0.004440 | 241.37 | 269 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 29 | P29 | |
| 648784.19 | 4077527 | 0.006270 | 209.74 | 209.74 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 3 | P3 | П |
| 650791.48 | 4076854 | 0.005850 | 246.79 | 251 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 30 | P30 | |
| 650793.57 | 4076754 | 0.004370 | 228.75 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 31 | P31 | П |
| 650754.39 | 4076683 | 0.004710 | 217.76 | 271 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 32 | P32 | |
| 650660.22 | 4076650 | 0.005270 | 221.2 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 33 | P33 | П |
| 650561.43 | | 0.005560 | 220.83 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 34 | P34 | |
| 650462.72 | 4076666 | 0.005750 | 223.42 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 35 | P35 | \neg |
| 650364.01 | | 0.005810 | 222.46 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 36 | P36 | |
| 650264.24 | | 0.006160 | 223.19 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 37 | P37 | |
| 650164.71 | | 0.006650 | 222.1 | 249 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 38 | P38 | |
| 650065.8 | 4076660 | 0.007370 | 217.03 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 39 | P39 | |
| 648884.17 | | 0.004260 | 214.25 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 4 | P4 | |
| 649980.44 | 4076627 | 0.009040 | 214.23 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 40 | P40 | |
| | | | | | 0 | | | 1 | · | P41 | |
| 649920.26 | | 0.013370 | 214.91 | 264 | | ANNUAL | ALL | • | Boundary Perimeter 41 | | |
| 649852.19 | 4076474 | 0.019050 | 214.09 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 42 | P42 | |
| 649770.68 | | 0.028050 | 211.53 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 43 | P43 | _ |
| 649680.48 | 4076375 | 0.041740 | 210.17 | 266 | 0 | ANNUAL | ALL | l . | Boundary Perimeter 44 | P44 | |
| 649580.91 | | 0.061190 | 208.52 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 45 | P45 | |
| 649482.48 | | 0.083940 | 207.5 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 46 | P46 | |
| | | 0.082750 | 205.17 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 47 | P47 | |
| 649303.5 | 4076472 | 0.013490 | 202.16 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 48 | P48 | |
| 649226.19 | | 0.006120 | 196.38 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 49 | P49 | |
| 648984.14 | 4077530 | 0.003150 | 221.41 | 221.41 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 5 | P5 | |
| 649156.2 | 4076605 | 0.013840 | 195.87 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 50 | P50 | |
| 649068.25 | 4076653 | 0.012350 | 196.32 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 51 | P51 | |
| 648986.7 | 4076711 | 0.010570 | 192.42 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 52 | P52 | |
| 648936.53 | 4076759 | 0.010450 | 192.46 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 53 | P53 | \Box |
| 648868.58 | 4076833 | 0.010350 | 191.63 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 54 | P54 | |
| 648797.23 | 4076902 | 0.009660 | 186.32 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 55 | P55 | П |
| 648710.56 | | 0.008080 | 179.81 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 56 | P56 | |
| 648620.79 | 4076996 | 0.006870 | 176.23 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 57 | P57 | П |
| 648607.19 | | 0.007640 | 175.02 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 58 | P58 | |
| 648680.07 | 4077119 | 0.010650 | 180.62 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 59 | P59 | П |
| 649084.12 | | 0.002180 | 216.54 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 6 | P6 | |
| 648759.24 | 4077180 | 0.002180 | 183.47 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 60 | P60 | |
| 648791.44 | | 0.011050 | 202.88 | 245 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 61 | P61 | |
| 648788.45 | | 0.008020 | 178.21 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 62 | P62 | |
| 648691.25 | | 0.008020 | | | 0 | ANNUAL | | 1 | | | |
| | | | 176.25 | 259 | | | ALL | | Boundary Perimeter 63 | P63 | |
| 648591.35 | | 0.009720 | 176 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 64 | P64 | |
| 648525.69 | 4077371 | 0.009310 | 175.24 | 245 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 65 | P65 | |
| 648586.93 | 407/430 | 0.009110 | 175.13 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 66 | P66 | |
| | | | | | | | | | | | |

09/01/21

PMI

* AERMET (21112): 2020 16:19:17

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | 3(1A,F13.3),3(1A,F8.2),2A | | | | | | | | | |
|-----------|---------|---------------------------|--------|--------|-------|--------|-----|----------------|----------------------|--------|----------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
| 649184.09 | | 0.002540 | 230.71 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 7 | P7 | |
| 649284.08 | 4077535 | 0.006880 | 248.08 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 8 | P8 | |
| 649384.06 | 4077536 | 0.005540 | 258.43 | 258.43 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 9 | P9 | |
| 645930 | 4077983 | 0.001360 | 127.38 | 127.38 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | 0.012120 |
| 646030 | 4077983 | 0.001430 | 131.21 | 131.21 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646130 | 4077983 | 0.001510 | 135.89 | 135.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646230 | 4077983 | 0.001600 | 139.18 | 139.18 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646330 | 4077983 | 0.001710 | 140.76 | 140.76 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646430 | 4077983 | 0.001820 | 143.89 | 143.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646530 | 4077983 | 0.001950 | 145.22 | 145.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646630 | 4077983 | 0.002090 | 147.21 | 147.21 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646730 | 4077983 | 0.002250 | 148.3 | 160 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 645930 | 4078083 | 0.001490 | 127.58 | 127.58 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646030 | 4078083 | 0.001570 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646130 | 4078083 | 0.001660 | 134.35 | 134.35 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | İ |
| 646230 | 4078083 | 0.001770 | 139.22 | 139.22 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646330 | 4078083 | 0.001880 | 144.65 | 144.65 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646430 | 4078083 | 0.002010 | 142.28 | 142.28 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646530 | 4078083 | 0.002140 | 146.76 | 146.76 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646630 | 4078083 | 0.002290 | 150.64 | 150.64 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646730 | 4078083 | 0.002460 | 155.4 | 157 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 645930 | 4078183 | 0.001620 | 127.22 | 127.22 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646030 | 4078183 | 0.001720 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646130 | 4078183 | 0.001720 | 133.89 | 133.89 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646230 | 4078183 | 0.001930 | 140.45 | 140.45 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646330 | 4078183 | 0.002050 | 146.94 | 146.94 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646430 | 4078183 | 0.002030 | 140.23 | 140.23 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646530 | 4078183 | 0.002320 | 147.25 | 147.25 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646630 | 4078183 | 0.002320 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646730 | 4078183 | 0.002470 | 157.78 | 166 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 645930 | 4078283 | 0.002070 | 126.06 | 126.06 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646030 | 4078283 | 0.001760 | 129.56 | 129.56 | 0 | ANNUAL | ALL | <u> </u> | New Development | RP G1 | |
| 646130 | 4078283 | 0.001800 | 132.89 | 132.89 | 0 | ANNUAL | ALL | 1 | | RP G1 | |
| 646230 | 4078283 | 0.001970 | 132.89 | 132.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646330 | 4078283 | 0.002080 | 142.68 | 142.68 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| | | | | | | | | 1 | New Development | | |
| 646430 | 4078283 | 0.002340 | 140.02 | 140.02 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | - |
| 646530 | 4078283 | 0.002500 | 147.22 | 147.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646630 | 4078283 | 0.002680 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646730 | 4078283 | 0.002880 | 156.78 | 166 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | MEIR |
| 648659.32 | 4077241 | 0.012120 | 205.79 | 205.79 | 0 | ANNUAL | ALL | 1 | House 1 | RP_H1 | MEIR |
| 648071.24 | 4076116 | 0.000490 | 169.6 | 240 | 0 | ANNUAL | ALL | 1 | House 10 | RP_H10 | |
| 648247.37 | 4076278 | 0.000640 | 184.55 | 240 | 0 | ANNUAL | ALL | 1 | House 11 | RP_H11 | |
| 648027.19 | 4076255 | 0.000540 | 169.38 | 240 | 0 | ANNUAL | ALL | 1 | House 12 | RP_H12 | |
| 648065.77 | 4076359 | 0.000620 | 173.83 | 240 | 0 | ANNUAL | ALL | 1 | House 13 | RP_H13 | |
| 648138.68 | 4076400 | 0.000690 | 178.22 | 240 | 0 | ANNUAL | ALL | 1 | House 14 | RP_H14 | |
| | | | | | | | | | | | |

09/01/21

* AERMET (21112): 2020 16:19:17

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | 3(1X,F13.5),3(1X,F8.2),2X | | | | | ann. | ATTENDO ATRIBUTA | S 1.1 | *** |
|-----------|---------|---------------------------|--------|--------|-------|--------|------|------------------|------------------|-----------------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 648254.71 | 4076411 | 0.000770 | 191.28 | 240 | 0 | ANNUAL | ALL | <u>l</u> | House 15 | RP_H15 |
| 647877.81 | 4076365 | 0.000580 | 165.39 | 240 | 0 | ANNUAL | ALL | 1 | House 16 | RP_H16 |
| 647520 | 4076206 | 0.000460 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 17 | RP_H17 |
| 647921 | 4076247 | 0.000510 | 164 | 240 | 0 | ANNUAL | ALL | 1 | House 18 | RP_H18 |
| 647708.78 | 4076352 | 0.000540 | 163.52 | 163.52 | 0 | ANNUAL | ALL | 1 | House 19 | RP_H19 |
| 648371.71 | 4075470 | 0.000630 | 173.69 | 227 | 0 | ANNUAL | ALL | 1 | House 2 | RP_H2 |
| 647703.58 | 4076251 | 0.000490 | 162.17 | 162.17 | 0 | ANNUAL | ALL | 1 | House 20 | RP_H20 |
| 647718.77 | 4076104 | 0.000420 | 159.35 | 159.35 | 0 | ANNUAL | ALL | 1 | House 21 | RP_H21 |
| 647843.32 | 4076125 | 0.000440 | 163 | 234 | 0 | ANNUAL | ALL | 1 | House 22 | RP_H22 |
| 647842.26 | 4076500 | 0.000670 | 167.93 | 167.93 | 0 | ANNUAL | ALL | 1 | House 23 | RP_H23 |
| 647727.75 | 4076644 | 0.000770 | 164.15 | 164.15 | 0 | ANNUAL | ALL | 1 | House 24 | RP_H24 |
| 647823.91 | 4076644 | 0.000800 | 168.29 | 168.29 | 0 | ANNUAL | ALL | 1 | House 25 | RP H25 |
| 647530 | 4076497 | 0.000610 | 159.56 | 159.56 | 0 | ANNUAL | ALL | 1 | House 26 | RP H26 |
| 647810.11 | 4076854 | 0.001050 | 162.9 | 162.9 | 0 | ANNUAL | ALL | 1 | House 27 | RP H27 |
| 647697.48 | 4076989 | 0.001220 | 161.42 | 162 | 0 | ANNUAL | ALL | 1 | House 28 | RP H28 |
| 648225.5 | 4076182 | 0.000580 | 183.22 | 240 | 0 | ANNUAL | ALL | 1 | House 29 | RP H29 |
| 647678.23 | 4075969 | 0.000380 | 159.5 | 159.5 | 0 | ANNUAL | ALL | 1 | House 3 | RP H3 |
| 645876.32 | 4077487 | 0.000880 | 127.13 | 142 | 0 | ANNUAL | ALL | 1 | House 30 | RP H30 |
| 650902 | 4076062 | 0.008020 | 215.24 | 287 | 0 | ANNUAL | ALL | 1 | House 31 | RP H31 |
| 651490 | 4076597 | 0.003720 | 205.5 | 813 | 0 | ANNUAL | ALL | 1 | House 32 | RP H32 |
| 651565 | 4077067 | 0.002340 | 213.93 | 813 | 0 | ANNUAL | ALL | 1 | House 33 | RP H33 |
| 648672.77 | 4075307 | 0.001370 | 225.91 | 227 | 0 | ANNUAL | ALL | 1 | House 34 | RP H34 |
| 648383.6 | 4075469 | 0.000630 | 174.44 | 227 | 0 | ANNUAL | ALL | 1 | House 35 | RP H35 |
| 646379.37 | 4077233 | 0.000840 | 146 | 146 | 0 | ANNUAL | ALL | 1 | House 36 | RP H36 |
| 651849.72 | 4075865 | 0.004710 | 201.97 | 333 | 0 | ANNUAL | ALL | 1 | House 37 | RP H37 |
| 652045.49 | 4076210 | 0.003590 | 196.88 | 813 | 0 | ANNUAL | ALL | 1 | House 38 | RP H38 |
| 652255.69 | 4076391 | 0.003040 | 197.06 | 813 | 0 | ANNUAL | ALL | 1 | House 39 | RP H39 |
| 647815.25 | 4075985 | 0.000400 | 162.04 | 162.04 | 0 | ANNUAL | ALL | 1 | House 4 | RP H4 |
| 646853.73 | 4077373 | 0.001180 | 145.99 | 145.99 | 0 | ANNUAL | ALL | 1 | House 40 | RP H40 |
| 647050.21 | 4077360 | 0.001310 | 145 | 145 | 0 | ANNUAL | ALL | 1 | House 41 | RP H41 |
| 647286.42 | 4077474 | 0.001910 | 149.68 | 153 | 0 | ANNUAL | ALL | 1 | House 42 | RP H42 |
| 647359.05 | 4077340 | 0.001630 | 154.45 | 159 | 0 | ANNUAL | ALL | 1 | House 43 | RP H43 |
| 647490.41 | 4077329 | 0.001840 | 162.28 | 162.28 | 0 | ANNUAL | ALL | 1 | House 44 | RP H44 |
| 647522.17 | 4077252 | 0.001640 | 164.3 | 164.3 | 0 | ANNUAL | ALL | 1 | House 45 | RP H45 |
| 647517.82 | 4077139 | 0.001360 | 164.01 | 164.01 | 0 | ANNUAL | ALL | 1 | House 46 | RP H46 |
| 646819.01 | 4077258 | 0.001300 | 151.53 | 152 | 0 | ANNUAL | ALL | 1 | House 47 | RP H47 |
| 646778.72 | 4077238 | 0.001020 | 151.55 | 158.51 | 0 | ANNUAL | ALL | 1 | House 48 | RP H48 |
| 646987.26 | 4077128 | 0.000870 | 138.31 | 138.31 | 0 | ANNUAL | ALL | 1 | House 49 | RP_H48 |
| 646987.26 | 407/213 | | 163.83 | 237 | 0 | ANNUAL | | <u> </u> | House 49 House 5 | RP_H49 RP_H5 |
| | | 0.000420 | | | | | ALL | | | _ |
| 647241.77 | 4077227 | 0.001250 | 154.85 | 154.85 | 0 | ANNUAL | ALL | 1 | House 50 | RP_H50 |
| 646773.05 | 4077063 | 0.000830 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 51 | RP_H51 |
| 647104.37 | 4077118 | 0.000990 | 148.99 | 148.99 | 0 | ANNUAL | ALL | 1 | House 52 | RP_H52 |
| 647291.9 | 4077123 | 0.001110 | 158.62 | 158.62 | 0 | ANNUAL | ALL | 1 | House 53 | RP_H53 |
| 646765.24 | 4076978 | 0.000800 | 158.67 | 158.67 | 0 | ANNUAL | ALL | 1 | House 54 | RP_H54 |
| 646995.65 | 4076984 | 0.000830 | 152.34 | 152.34 | 0 | ANNUAL | ALL | 1 | House 55 | RP_H55 |

09/01/21

* AERMET (21112): 2020

16.19.17

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-------------|--------|
| 647317.21 | 4077031 | 0.000990 | 160.22 | 160.22 | 0 | ANNUAL | ALL | 1 | House 56 | RP_H56 |
| 647398.39 | 4077013 | 0.001020 | 161.26 | 161.26 | 0 | ANNUAL | ALL | 1 | House 57 | RP_H57 |
| 646978.93 | 4076904 | 0.000800 | 156.81 | 156.81 | 0 | ANNUAL | ALL | 1 | House 58 | RP_H58 |
| 647015.19 | 4076807 | 0.000770 | 156.21 | 156.21 | 0 | ANNUAL | ALL | 1 | House 59 | RP_H59 |
| 648045.44 | 4076018 | 0.000480 | 168.26 | 240 | 0 | ANNUAL | ALL | 1 | House 6 | RP_H6 |
| 647163.96 | 4076802 | 0.000780 | 154.38 | 154.38 | 0 | ANNUAL | ALL | 1 | House 60 | RP_H60 |
| 647310.58 | 4076940 | 0.000890 | 162.49 | 162.49 | 0 | ANNUAL | ALL | 1 | House 61 | RP_H61 |
| 647298.09 | 4076805 | 0.000790 | 158 | 158 | 0 | ANNUAL | ALL | 1 | House 62 | RP_H62 |
| 647446.56 | 4076900 | 0.000900 | 159.45 | 159.45 | 0 | ANNUAL | ALL | 1 | House 63 | RP_H63 |
| 647464.49 | 4076781 | 0.000810 | 159.32 | 159.32 | 0 | ANNUAL | ALL | 1 | House 64 | RP_H64 |
| 647512 | 4076536 | 0.000640 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 65 | RP_H65 |
| 651131 | 4078767 | 0.000310 | 179.58 | 830 | 0 | ANNUAL | ALL | 1 | House 66 | RP_H66 |
| 647131 | 4077336 | 0.001340 | 146.77 | 146.77 | 0 | ANNUAL | ALL | 1 | House 67 | RP_H67 |
| 646798 | 4076740 | 0.000730 | 156.07 | 156.07 | 0 | ANNUAL | ALL | 1 | House 68 | RP_H68 |
| 646900 | 4076802 | 0.000760 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 69 | RP_H69 |
| 648126.33 | 4075955 | 0.000550 | 171.51 | 240 | 0 | ANNUAL | ALL | 1 | House 7 | RP_H7 |
| 647317 | 4076662 | 0.000720 | 159.9 | 159.9 | 0 | ANNUAL | ALL | 1 | House 70 | RP_H70 |
| 648249.26 | 4075970 | 0.000640 | 183.42 | 240 | 0 | ANNUAL | ALL | 1 | House 8 | RP_H8 |
| 648218.58 | 4076109 | 0.000570 | 182.28 | 240 | 0 | ANNUAL | ALL | 1 | House 9 | RP_H9 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in $\mu g/m^3$.

* AERMET (21112): 2018

14:16:57

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| POKN | VIA I . (A, IA, | 3(17,113.3),3(17,16.2) | $1,2\Lambda,\Lambda 0,2\Lambda,\Gamma$ | 10,271,10.0,2 | $\Lambda,\Lambda o)$ | | | | | | |
|--------|-----------------|------------------------|--|---------------|----------------------|--------|-----|----------------|------------------------------------|----------|----------|
| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
| 645996 | 4078698 | 70864.67 | 123.85 | 123.85 | 0 | ANNUAL | ALL | 1 | AQ Monitoring Station | AQ_ST_1 | |
| 643904 | 4077719 | 35809.20 | 105.68 | 105.68 | 0 | ANNUAL | ALL | 1 | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642057 | 4079416 | 27440.51 | 85.12 | 85.12 | 0 | ANNUAL | ALL | 1 | Dunne Park | CR PK 1 | |
| 642179 | 4079950 | 27374.24 | 117.99 | 117.99 | 0 | ANNUAL | ALL | 1 | Vista Park Hill Park | CR PK 2 | |
| 644733 | 4078753 | 54102.72 | 106.44 | 106.44 | 0 | ANNUAL | ALL | 1 | Las Brisas Park | CR PK 3 | |
| 645609 | 4078854 | 60890.22 | 112.86 | 112.86 | 0 | ANNUAL | ALL | 1 | Frank Klauer Memorial Park | CR PK 4 | |
| 644238 | 4078807 | 47031.05 | 95.25 | 95.25 | 0 | ANNUAL | ALL | 1 | Veterans Memorial Park | CR PK 5 | |
| 645311 | 4076559 | 44928.42 | 134.61 | 134.61 | 0 | ANNUAL | ALL | 1 | Park 6 | CR PK 6 | |
| 649582 | 4073424 | 66402.22 | 159.96 | 318 | 0 | ANNUAL | ALL | 1 | Park 7 | CR PK 7 | |
| 645145 | 4077181 | 43600.84 | 133 | 133 | 0 | ANNUAL | ALL | 1 | Cerra Vista Elem School | CR SC 1 | |
| 642905 | 4079955 | 29231.94 | 86 | 86 | 0 | ANNUAL | ALL | 1 | San Andreas Continuation | CR SC 10 | |
| 645851 | 4074015 | 19116.16 | 123 | 313 | 0 | ANNUAL | ALL | 1 | SouthSide School | CR SC 11 | |
| 642106 | 4078176 | 26291.74 | 91 | 91 | 0 | ANNUAL | ALL | 1 | School 12 | CR_SC_12 | |
| 646059 | 4078443 | 81410.83 | 128.52 | 128.52 | 0 | ANNUAL | ALL | 1 | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 56794.67 | 158 | 158 | 0 | ANNUAL | ALL | 1 | Future School | CR SC 14 | School 2 |
| 648466 | 4074106 | 43694.12 | 159 | 240 | 0 | ANNUAL | ALL | 1 | Tres Pinos Union Elementary School | CR SC 15 | |
| 644110 | 4078389 | 44597.88 | 98.2 | 98.2 | 0 | ANNUAL | ALL | 1 | Sunnyslope Elem School | CR SC 2 | |
| 643920 | 4077304 | 28426.38 | 101.23 | 101.23 | 0 | ANNUAL | ALL | 1 | Hollister Montessori School | CR_SC_3 | |
| 642961 | 4078621 | 32137.82 | 92 | 92 | 0 | ANNUAL | ALL | 1 | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 34242.75 | 88 | 88 | 0 | ANNUAL | ALL | 1 | Marguerite Maze Middle School | CR_SC_5 | |
| 641630 | 4079153 | 24052.81 | 85 | 85 | 0 | ANNUAL | ALL | 1 | Hollister Prep Schoo | CR SC 6 | |
| 643350 | 4077181 | 26897.79 | 98.22 | 98.22 | 0 | ANNUAL | ALL | 1 | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 32438.49 | 87 | 87 | 0 | ANNUAL | ALL | 1 | Gabilan Hills Elementary School | CR_SC_8 | |
| 642245 | 4078413 | 31539.48 | 90.17 | 90.17 | 0 | ANNUAL | ALL | 1 | San Benito High School | CR_SC_9 | |
| 642083 | 4079794 | 27014.09 | 87.58 | 127 | 0 | ANNUAL | ALL | 1 | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 79685.94 | 146.33 | 153 | 0 | ANNUAL | ALL | 1 | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 297458.79 | 189.45 | 259 | 0 | ANNUAL | ALL | 1 | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 123014.53 | 155.2 | 155.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 76768.28 | 160 | 160 | 0 | ANNUAL | ALL | 1 | Grid Receptor 10 | G10 | |
| 648144 | 4079173 | 106391.95 | 165.9 | 165.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 158740.25 | 159.6 | 159.6 | 0 | ANNUAL | ALL | 1 | Grid Receptor 12 | G12 | |
| 648144 | 4078373 | 234588.95 | 146.2 | 146.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 13 | G13 | |
| 648144 | 4077973 | 293915.60 | 158.3 | 181 | 0 | ANNUAL | ALL | 1 | Grid Receptor 14 | G14 | |
| 648144 | 4077573 | 335625.72 | 166.6 | 179 | 0 | ANNUAL | ALL | 1 | Grid Receptor 15 | G15 | |
| 648144 | 4077173 | 426872.31 | 175.4 | 175.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 16 | G16 | |
| 648144 | 4076773 | 315485.04 | 177.1 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 17 | G17 | |
| 648144 | 4076373 | 197258.14 | 178 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 18 | G18 | |
| 648144 | 4075973 | 122247.06 | 173 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 19 | G19 | |
| 647744 | 4078773 | 165330.34 | 145.4 | 145.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 2 | G2 | |
| 648144 | 4075573 | 84670.11 | 168.8 | 190 | 0 | ANNUAL | ALL | 1 | Grid Receptor 20 | G20 | |

* AERMET (21112): 2018

14:16:57

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | 5(1A,F15.5),5(1A,F6.2), | | | | 4.5.75 | CPP | | B 44 | 10 |
|--------|---------|-------------------------|-------|-------|-------|----------|-----|----------------|------------------|-----|
| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 648544 | 4079173 | 78828.32 | 173.5 | 191 | 0 | ANNUAL | ALL | 1 | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 121653.03 | 166.2 | 166.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 207600.00 | 145.4 | 253 | 0 | ANNUAL | ALL | 1 | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 367512.49 | 173.9 | 214 | 0 | ANNUAL | ALL | 1 | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 528246.81 | 179.6 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 694607.42 | 191 | 226 | 0 | ANNUAL | ALL | 1 | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 625481.75 | 209.2 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 396903.24 | 233.7 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 169885.80 | 199.9 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 190972.25 | 144.4 | 144.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 101088.38 | 195.5 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 67732.07 | 190.4 | 194 | 0 | ANNUAL | ALL | 1 | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 90618.63 | 165.4 | 165.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 141203.94 | 159.6 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 278370.44 | 183.5 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 816973.77 | 224 | 226 | 0 | ANNUAL | ALL | 1 | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 527680.74 | 205 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 237178.96 | 208.8 | 220 | 0 | ANNUAL | ALL | 1 | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 207481.45 | 134.6 | 181 | 0 | ANNUAL | ALL | 1 | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 148516.14 | 185.6 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 62628.19 | 187.4 | 801 | 0 | ANNUAL | ALL | 1 | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 81599.85 | 160.9 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 122518.66 | 200.5 | 221 | 0 | ANNUAL | ALL | 1 | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 249397.00 | 229 | 253 | 0 | ANNUAL | ALL | 1 | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 301898.13 | 253.3 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 1758111.37 | 220.2 | 263 | 0 | ANNUAL | ALL | 1 | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 648779.38 | 227.2 | 227.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 249484.03 | 163.8 | 171 | 0 | ANNUAL | ALL | 1 | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 288936.51 | 205.5 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 52458.78 | 176.1 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 71719.37 | 195 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 98877.00 | 196.1 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 172602.45 | 215.3 | 251 | 0 | ANNUAL | ALL | 1 | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 324076.46 | 221.6 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 5342052.02 | 211.7 | 266 | 0 | ANNUAL | ALL | 1 | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 1388284.52 | 237.7 | 257 | 0 | ANNUAL | ALL | 1 | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 274129.53 | 158.4 | 171 | 0 | ANNUAL | ALL | 1 | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 501652.53 | 204.2 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 48006.71 | 173 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 61146.07 | 171 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 62 | G62 |
| 050144 | TU/0//3 | 01170.0/ | 1/1 | 030 | U | AININUAL | ALL | 1 | Oria Receptor 02 | 002 |

* AERMET (21112): 2018

14:16:57

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|--------|---------|--------------|--------|--------|-------|--------|-----|----------------|-----------------------|-----|
| 650144 | 4078373 | 91091.90 | 204.6 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 135916.76 | 216.5 | 290 | 0 | ANNUAL | ALL | 1 | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 131147.15 | 257.7 | 257.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 2337538.99 | 231.4 | 272 | 0 | ANNUAL | ALL | 1 | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 1097379.20 | 249.4 | 266 | 0 | ANNUAL | ALL | 1 | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 197621.11 | 164.7 | 164.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 603463.19 | 216.4 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 44141.91 | 177 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 51399.73 | 180.9 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 66195.80 | 196.6 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 120069.37 | 236.9 | 801 | 0 | ANNUAL | ALL | 1 | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 114265.45 | 261.3 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 514796.25 | 260.9 | 260.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 810831.44 | 226.7 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 151258.77 | 164 | 164 | 0 | ANNUAL | ALL | 1 | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 339317.26 | 268.2 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 34929.05 | 181.3 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 40569.03 | 178.4 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 69579.95 | 214.8 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 109593.33 | 249.9 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 59526.76 | 276.5 | 296 | 0 | ANNUAL | ALL | 1 | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 243430.73 | 225.6 | 296 | 0 | ANNUAL | ALL | 1 | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 389505.51 | 219.8 | 267 | 0 | ANNUAL | ALL | 1 | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 421329.16 | 209.2 | 273 | 0 | ANNUAL | ALL | 1 | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 476656.63 | 216.6 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 84125.55 | 160.7 | 160.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 418673.05 | 243.2 | 289 | 0 | ANNUAL | ALL | 1 | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 31693.05 | 191 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 41285.12 | 181 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 74211.41 | 214.3 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 97807.39 | 248.4 | 826 | 0 | ANNUAL | ALL | 1 | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 111754.32 | 213.2 | 826 | 0 | ANNUAL | ALL | 1 | Grid Receptor 95 | G95 |
| 648584 | 4077523 | 571635.99 | 183.61 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 253363.00 | 254.01 | 257 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 448033.42 | 235.3 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 363026.29 | 221.29 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 331363.85 | 222.37 | 260 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 327086.64 | 233.6 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 221184.45 | 249.54 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 127814.69 | 258.89 | 258.89 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 16 | P16 |

* AERMOD (19191): Appendix B Attachment - Existing Peak Fugitive Emissions

14:16:57

* AERMET (21112): 2018

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * FURN | /IA1: (A,1X, | 3(1X,F13.5),3(1X,F8.2), | ,2X,A6,2X,A | 18,23,18.8,2 | X,A8) | | | | | | |
|--------|--------------|-------------------------|-------------|--------------|-------|--------|-----|----------------|-----------------------|-----|----|
| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
| 650184 | 4077548 | 122889.12 | 259.56 | 259.56 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 17 | P17 | |
| 650284 | 4077550 | 144563.97 | 256.77 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 18 | P18 | |
| 650384 | 4077552 | 230572.76 | 242.37 | 290 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 19 | P19 | |
| 648684 | 4077525 | 648641.39 | 197.16 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 2 | P2 | |
| 650484 | 4077554 | 224437.03 | 242.23 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 20 | P20 | |
| 650584 | 4077557 | 125998.54 | 259.71 | 290 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 21 | P21 | |
| 650684 | 4077559 | 136548.29 | 257.58 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 22 | P22 | |
| 650777 | 4077554 | 85553.03 | 267.9 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 23 | P23 | |
| 650779 | 4077454 | 70777.38 | 275.91 | 275.91 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 24 | P24 | |
| 650781 | 4077354 | 109776.85 | 265.73 | 281 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 25 | P25 | |
| 650783 | 4077254 | 205443.27 | 251.08 | 282 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 26 | P26 | |
| 650785 | 4077154 | 230321.24 | 252.83 | 281 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 27 | P27 | |
| 650787 | 4077054 | 321892.86 | 246.1 | 269 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 28 | P28 | |
| 650789 | 4076954 | 394823.99 | 241.37 | 269 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 29 | P29 | |
| 648784 | 4077527 | 740388.65 | 209.74 | 209.74 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 3 | P3 | |
| 650791 | 4076854 | 419834.65 | 246.79 | 251 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 30 | P30 | |
| 650794 | 4076754 | 504002.60 | 228.75 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 31 | P31 | |
| 650754 | 4076683 | 513257.43 | 217.76 | 271 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 32 | P32 | |
| 650660 | 4076650 | 619442.80 | 221.2 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 33 | P33 | |
| 650561 | 4076650 | 724507.37 | 220.83 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 34 | P34 | |
| 650463 | 4076666 | 879358.30 | 223.42 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 35 | P35 | |
| 650364 | 4076682 | 1036108.67 | 222.46 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 36 | P36 | |
| 650264 | 4076683 | 1297394.60 | 223.19 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 37 | P37 | |
| 650165 | 4076674 | 1677418.52 | 222.1 | 249 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 38 | P38 | |
| 650066 | 4076660 | 2216093.53 | 217.03 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 39 | P39 | |
| 648884 | 4077529 | 796074.96 | 214.25 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 4 | P4 | |
| 649980 | 4076627 | 3326659.90 | 214.82 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 40 | P40 | |
| 649920 | 4076547 | 5380063.71 | 214.91 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 41 | P41 | |
| 649852 | 4076474 | 7152415.86 | 214.09 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 42 | P42 | PN |
| 649771 | 4076417 | 6666175.53 | 211.53 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 43 | P43 | |
| 649680 | 4076375 | 5694777.24 | 210.17 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 44 | P44 | |
| 649581 | 4076368 | 4589409.45 | 208.52 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 45 | P45 | |
| 649482 | 4076384 | 3509823.27 | 207.5 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 46 | P46 | |
| 649392 | 4076425 | 3177013.47 | 205.17 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 47 | P47 | |
| 649304 | 4076472 | 2565089.35 | 202.16 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 48 | P48 | |
| 649226 | 4076535 | 2423139.31 | 196.38 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 49 | P49 | |
| 648984 | 4077530 | 847586.48 | 221.41 | 221.41 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 5 | P5 | |
| 649156 | 4076605 | 2401533.81 | 195.87 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 50 | P50 | |
| 649068 | 4076653 | 1895103.81 | 196.32 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 51 | P51 | |
| 648987 | 4076711 | 1614792.57 | 192.42 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 52 | P52 | 1 |
| | | | | | | | | | | | - |

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* AERMET (21112): 2018

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* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|--------|---------|--------------|--------|--------|-------|--------|-----|----------------|-----------------------|-------|
| 648937 | 4076759 | 1502583.37 | 192.46 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 1346249.01 | 191.63 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 1158180.56 | 186.32 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 968103.22 | 179.81 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 819141.59 | 176.23 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 800321.24 | 175.02 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 886068.37 | 180.62 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 723316.05 | 216.54 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 961792.09 | 183.47 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 953317.63 | 202.88 | 245 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 843887.56 | 178.21 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 734615.13 | 176.25 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 636495.42 | 176 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 576267.46 | 175.24 | 245 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 603122.82 | 175.13 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 748100.34 | 230.71 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 485384.44 | 248.08 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 217320.81 | 258.43 | 258.43 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 88528.16 | 127.38 | 127.38 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4077983 | 92792.31 | 131.21 | 131.21 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4077983 | 97264.12 | 135.89 | 135.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4077983 | 101848.28 | 139.18 | 139.18 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4077983 | 106457.25 | 140.76 | 140.76 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4077983 | 111120.94 | 143.89 | 143.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4077983 | 115650.98 | 145.22 | 145.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4077983 | 120107.16 | 147.21 | 147.21 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4077983 | 124455.40 | 148.3 | 160 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078083 | 88480.42 | 127.58 | 127.58 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078083 | 92250.38 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078083 | 96091.32 | 134.35 | 134.35 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078083 | 99968.95 | 139.22 | 139.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4078083 | 103834.22 | 144.65 | 144.65 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078083 | 107310.38 | 142.28 | 142.28 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4078083 | 110949.33 | 146.76 | 146.76 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4078083 | 114541.17 | 150.64 | 150.64 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4078083 | 118226.98 | 155.4 | 157 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078183 | 87194.12 | 127.22 | 127.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078183 | 90393.61 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078183 | 93533.72 | 133.89 | 133.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078183 | 96668.59 | 140.45 | 140.45 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |

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* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 289 RECEPTORS.

FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | MA1: (A,1X,. | 3(1X,F13.5),3(1X,F8.2), | | | | | | | | | |
|--------|--------------|-------------------------|--------|--------|-------|--------|-----|----------------|-----------------|--------|------|
| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
| 646330 | 4078183 | 99744.11 | 146.94 | 146.94 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646430 | 4078183 | 102251.07 | 140.23 | 140.23 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646530 | 4078183 | 105251.82 | 147.25 | 147.25 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646630 | 4078183 | 108260.44 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646730 | 4078183 | 111654.06 | 157.78 | 166 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 645930 | 4078283 | 84873.77 | 126.06 | 126.06 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646030 | 4078283 | 87401.20 | 129.56 | 129.56 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646130 | 4078283 | 89807.85 | 132.89 | 132.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646230 | 4078283 | 92229.49 | 139.24 | 139.24 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646330 | 4078283 | 94576.08 | 142.68 | 142.68 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646430 | 4078283 | 96766.81 | 140.02 | 140.02 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646530 | 4078283 | 99428.06 | 147.22 | 147.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646630 | 4078283 | 102369.89 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646730 | 4078283 | 106077.99 | 156.78 | 166 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 648659 | 4077241 | 795575.57 | 205.79 | 205.79 | 0 | ANNUAL | ALL | 1 | House 1 | RP_H1 | MEII |
| 648071 | 4076116 | 125612.47 | 169.6 | 240 | 0 | ANNUAL | ALL | 1 | House 10 | RP_H10 | |
| 648247 | 4076278 | 182684.55 | 184.55 | 240 | 0 | ANNUAL | ALL | 1 | House 11 | RP_H11 | |
| 648027 | 4076255 | 146180.44 | 169.38 | 240 | 0 | ANNUAL | ALL | 1 | House 12 | RP_H12 | |
| 648066 | 4076359 | 181120.17 | 173.83 | 240 | 0 | ANNUAL | ALL | 1 | House 13 | RP_H13 | |
| 648139 | 4076400 | 206028.90 | 178.22 | 240 | 0 | ANNUAL | ALL | 1 | House 14 | RP_H14 | |
| 648255 | 4076411 | 233292.37 | 191.28 | 240 | 0 | ANNUAL | ALL | 1 | House 15 | RP_H15 | |
| 647878 | 4076365 | 161800.77 | 165.39 | 240 | 0 | ANNUAL | ALL | 1 | House 16 | RP_H16 | |
| 647520 | 4076206 | 101844.69 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 17 | RP_H17 | |
| 647921 | 4076247 | 133934.63 | 164 | 240 | 0 | ANNUAL | ALL | 1 | House 18 | RP_H18 | |
| 647709 | 4076352 | 143535.18 | 163.52 | 163.52 | 0 | ANNUAL | ALL | 1 | House 19 | RP_H19 | |
| 648372 | 4075470 | 79947.46 | 173.69 | 227 | 0 | ANNUAL | ALL | 1 | House 2 | RP_H2 | |
| 647704 | 4076251 | 119432.75 | 162.17 | 162.17 | 0 | ANNUAL | ALL | 1 | House 20 | RP_H20 | |
| 647719 | 4076104 | 95798.91 | 159.35 | 159.35 | 0 | ANNUAL | ALL | 1 | House 21 | RP_H21 | |
| 647843 | 4076125 | 106459.25 | 163 | 234 | 0 | ANNUAL | ALL | 1 | House 22 | RP_H22 | |
| 647842 | 4076500 | 187091.44 | 167.93 | 167.93 | 0 | ANNUAL | ALL | 1 | House 23 | RP_H23 | |
| 647728 | 4076644 | 187800.95 | 164.15 | 164.15 | 0 | ANNUAL | ALL | 1 | House 24 | RP_H24 | |
| 647824 | 4076644 | 204808.91 | 168.29 | 168.29 | 0 | ANNUAL | ALL | 1 | House 25 | RP_H25 | |
| 647530 | 4076497 | 144877.66 | 159.56 | 159.56 | 0 | ANNUAL | ALL | 1 | House 26 | RP_H26 | |
| 647810 | 4076854 | 224336.10 | 162.9 | 162.9 | 0 | ANNUAL | ALL | 1 | House 27 | RP_H27 | |
| 647697 | 4076989 | 229715.30 | 161.42 | 162 | 0 | ANNUAL | ALL | 1 | House 28 | RP_H28 | |
| 648226 | 4076182 | 156445.71 | 183.22 | 240 | 0 | ANNUAL | ALL | 1 | House 29 | RP_H29 | |
| 647678 | 4075969 | 79855.17 | 159.5 | 159.5 | 0 | ANNUAL | ALL | 1 | House 3 | RP_H3 | |
| 645876 | 4077487 | 84561.02 | 127.13 | 142 | 0 | ANNUAL | ALL | 1 | House 30 | RP_H30 | |
| 650902 | 4076062 | 500257.16 | 215.24 | 287 | 0 | ANNUAL | ALL | 1 | House 31 | RP_H31 | |
| 651490 | 4076597 | 213249.80 | 205.5 | 813 | 0 | ANNUAL | ALL | 1 | House 32 | RP_H32 | |
| | | | | | | | | | | | |

09/01/21

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* AERMET (21112): 2018

14:16:57

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | AVERAGE CONC | | | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|--------|---------|--------------|--------|--------|-------|--------|-----|----------------|-------------|--------|
| 651565 | 4077067 | 182148.86 | 213.93 | 813 | 0 | ANNUAL | ALL | 1 | House 33 | RP H33 |
| 648673 | 4075307 | 116070.19 | 225.91 | 227 | 0 | ANNUAL | ALL | 1 | House 34 | RP H34 |
| 648384 | 4075469 | 80616.58 | 174.44 | 227 | 0 | ANNUAL | ALL | 1 | House 35 | RP H35 |
| 646379 | 4077233 | 91333.62 | 146 | 146 | 0 | ANNUAL | ALL | 1 | House 36 | RP H36 |
| 651850 | 4075865 | 192564.61 | 201.97 | 333 | 0 | ANNUAL | ALL | 1 | House 37 | RP H37 |
| 652045 | 4076210 | 153866.08 | 196.88 | 813 | 0 | ANNUAL | ALL | 1 | House 38 | RP H38 |
| 652256 | 4076391 | 127440.57 | 197.06 | 813 | 0 | ANNUAL | ALL | 1 | House 39 | RP H39 |
| 647815 | 4075985 | 89909.91 | 162.04 | 162.04 | 0 | ANNUAL | ALL | 1 | House 4 | RP H4 |
| 646854 | 4077373 | 144104.40 | 145.99 | 145.99 | 0 | ANNUAL | ALL | 1 | House 40 | RP H40 |
| 647050 | 4077360 | 164805.94 | 145 | 145 | 0 | ANNUAL | ALL | 1 | House 41 | RP H41 |
| 647286 | 4077474 | 194636.20 | 149.68 | 153 | 0 | ANNUAL | ALL | 1 | House 42 | RP H42 |
| 647359 | 4077340 | 207659.37 | 154.45 | 159 | 0 | ANNUAL | ALL | 1 | House 43 | RP H43 |
| 647490 | 4077329 | 230761.26 | 162.28 | 162.28 | 0 | ANNUAL | ALL | 1 | House 44 | RP H44 |
| 647522 | 4077252 | 231506.76 | 164.3 | 164.3 | 0 | ANNUAL | ALL | 1 | House 45 | RP H45 |
| 647518 | 4077139 | 213829.80 | 164.01 | 164.01 | 0 | ANNUAL | ALL | 1 | House 46 | RP H46 |
| 646819 | 4077258 | 130299.63 | 151.53 | 152 | 0 | ANNUAL | ALL | 1 | House 47 | RP H47 |
| 646779 | 4077128 | 111592.21 | 158.51 | 158.51 | 0 | ANNUAL | ALL | 1 | House 48 | RP H48 |
| 646987 | 4077213 | 142707.80 | 146.44 | 146.44 | 0 | ANNUAL | ALL | 1 | House 49 | RP_H49 |
| 647898 | 4076033 | 99839.68 | 163.83 | 237 | 0 | ANNUAL | ALL | 1 | House 5 | RP_H5 |
| 647242 | 4077227 | 177482.37 | 154.85 | 154.85 | 0 | ANNUAL | ALL | 1 | House 50 | RP_H50 |
| 646773 | 4077063 | 104293.32 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 51 | RP_H51 |
| 647104 | 4077118 | 145136.16 | 148.99 | 148.99 | 0 | ANNUAL | ALL | 1 | House 52 | RP_H52 |
| 647292 | 4077123 | 171752.35 | 158.62 | 158.62 | 0 | ANNUAL | ALL | 1 | House 53 | RP_H53 |
| 646765 | 4076978 | 98585.55 | 158.67 | 158.67 | 0 | ANNUAL | ALL | 1 | House 54 | RP_H54 |
| 646996 | 4076984 | 116788.37 | 152.34 | 152.34 | 0 | ANNUAL | ALL | 1 | House 55 | RP_H55 |
| 647317 | 4077031 | 162852.77 | 160.22 | 160.22 | 0 | ANNUAL | ALL | 1 | House 56 | RP_H56 |
| 647398 | 4077013 | 173118.68 | 161.26 | 161.26 | 0 | ANNUAL | ALL | 1 | House 57 | RP_H57 |
| 646979 | 4076904 | 110782.68 | 156.81 | 156.81 | 0 | ANNUAL | ALL | 1 | House 58 | RP_H58 |
| 647015 | 4076807 | 111821.29 | 156.21 | 156.21 | 0 | ANNUAL | ALL | 1 | House 59 | RP_H59 |
| 648045 | 4076018 | 113222.11 | 168.26 | 240 | 0 | ANNUAL | ALL | 1 | House 6 | RP_H6 |
| 647164 | 4076802 | 123243.77 | 154.38 | 154.38 | 0 | ANNUAL | ALL | 1 | House 60 | RP_H60 |
| 647311 | 4076940 | 147610.56 | 162.49 | 162.49 | 0 | ANNUAL | ALL | 1 | House 61 | RP_H61 |
| 647298 | 4076805 | 135643.73 | 158 | 158 | 0 | ANNUAL | ALL | 1 | House 62 | RP_H62 |
| 647447 | 4076900 | 160821.58 | 159.45 | 159.45 | 0 | ANNUAL | ALL | 1 | House 63 | RP_H63 |
| 647464 | 4076781 | 154206.45 | 159.32 | 159.32 | 0 | ANNUAL | ALL | 1 | House 64 | RP_H64 |
| 647512 | 4076536 | 146357.69 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 65 | RP_H65 |
| 651131 | 4078767 | 40055.61 | 179.58 | 830 | 0 | ANNUAL | ALL | 1 | House 66 | RP_H66 |
| 647131 | 4077336 | 173362.22 | 146.77 | 146.77 | 0 | ANNUAL | ALL | 1 | House 67 | RP_H67 |
| 646798 | 4076740 | 97852.63 | 156.07 | 156.07 | 0 | ANNUAL | ALL | 1 | House 68 | RP_H68 |
| 646900 | 4076802 | 104258.10 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 69 | RP_H69 |

09/01/21

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- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * | X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----|------|---------|--------------|--------|-------|-------|--------|-----|----------------|-------------------|--------|
| 648 | 3126 | 4075955 | 119492.84 | 171.51 | 240 | 0 | ANNUAL | ALL | 1 | House 7 | RP_H7 |
| 647 | 7317 | 4076662 | 136673.07 | 159.9 | 159.9 | 0 | ANNUAL | ALL | 1 | House 70 | RP_H70 |
| 648 | 3249 | 4075970 | 134585.36 | 183.42 | 240 | 0 | ANNUAL | ALL | 1 | House 8 | RP_H8 |
| 648 | 3219 | 4076109 | 143293.85 | 182.28 | 240 | 0 | ANNUAL | ALL | 1 | House 9 | RP_H9 |
| 651 | 1344 | 4075573 | 275191.02 | 252.9 | 252.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 100 | G100 |
| 651 | 1344 | 4075973 | 297831.25 | 205.8 | 269 | 0 | ANNUAL | ALL | 1 | Grid Receptor 99 | G99 |
| 651 | 1344 | 4076373 | 266387.55 | 205.6 | 220 | 0 | ANNUAL | ALL | 1 | Grid Receptor 98 | G98 |
| 651 | 1344 | 4076773 | 231172.42 | 203.5 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 97 | G97 |
| 651 | 1344 | 4077173 | 174959.93 | 213.6 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 96 | G96 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in µg/m3.

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- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
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| | | X,F13.5),3(1X,F8.2),2X, | | | | | | | | |
|-----------|------------|-------------------------|--------|--------|-------|--------|-----|----------------|------------------------------------|---------------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 645996.00 | 4078698.00 | 60261.10 | 123.85 | 123.85 | 0 | ANNUAL | ALL | 1 | AQ Monitoring Station | AQ_ST_1 |
| 643903.65 | 4077719.38 | 10977.23 | 105.68 | 105.68 | 0 | ANNUAL | ALL | 1 | Hazel Hawkins Memorial Hospital | CR_HP_1 |
| 642056.78 | 4079415.69 | 12941.27 | 85.12 | 85.12 | 0 | ANNUAL | ALL | 1 | Dunne Park | CR_PK_1 |
| 642179.10 | 4079949.51 | 15912.73 | 117.99 | 117.99 | 0 | ANNUAL | ALL | 1 | Vista Park Hill Park | CR_PK_2 |
| 644733.14 | 4078752.70 | 30636.99 | 106.44 | 106.44 | 0 | ANNUAL | ALL | 1 | Las Brisas Park | CR_PK_3 |
| 645608.81 | 4078854.28 | 50417.89 | 112.86 | 112.86 | 0 | ANNUAL | ALL | 1 | Frank Klauer Memorial Park | CR_PK_4 |
| 644238.05 | 4078806.98 | 24324.20 | 95.25 | 95.25 | 0 | ANNUAL | ALL | 1 | Veterans Memorial Park | CR PK 5 |
| 645311.48 | 4076559.00 | 14754.57 | 134.61 | 134.61 | 0 | ANNUAL | ALL | 1 | Park 6 | CR PK 6 |
| 649581.69 | 4073424.46 | 60621.90 | 159.96 | 318 | 0 | ANNUAL | ALL | 1 | Park 7 | CR PK 7 |
| 645145.11 | 4077180.55 | 15053.57 | 133 | 133 | 0 | ANNUAL | ALL | 1 | Cerra Vista Elem School | CR SC 1 |
| 642904.71 | 4079954.53 | 21541.43 | 86 | 86 | 0 | ANNUAL | ALL | 1 | San Andreas Continuation | CR SC 10 |
| 645850.68 | 4074014.90 | 13412.96 | 123 | 313 | 0 | ANNUAL | ALL | 1 | SouthSide School | CR SC 11 |
| 642105.68 | 4078176.21 | 8827.42 | 91 | 91 | 0 | ANNUAL | ALL | 1 | School 12 | CR SC 12 |
| 646058.93 | 4078443.20 | 59757.50 | 128.52 | 128.52 | 0 | ANNUAL | ALL | 1 | Rancho Santana School | CR SC 13 Scho |
| 647269.00 | 4075575.00 | 37096.91 | 158 | 158 | 0 | ANNUAL | ALL | 1 | Future School | CR SC 14 Scho |
| 648466.00 | 4074106.00 | 42872.69 | 159 | 240 | 0 | ANNUAL | ALL | 1 | Tres Pinos Union Elementary School | CR SC 15 |
| 644109.60 | 4078388.69 | 19312.28 | 98.2 | 98.2 | 0 | ANNUAL | ALL | 1 | Sunnyslope Elem School | CR SC 2 |
| 643920.12 | 4077304.04 | 10305.98 | 101.23 | 101.23 | 0 | ANNUAL | ALL | 1 | Hollister Montessori School | CR SC 3 |
| 642961.07 | 4078620.83 | 14152.17 | 92 | 92 | 0 | ANNUAL | ALL | 1 | Rancho San Justo Middle School | CR SC 4 |
| 643980.02 | 4079743.02 | 28254.47 | 88 | 88 | 0 | ANNUAL | ALL | 1 | Marguerite Maze Middle School | CR SC 5 |
| 641630.17 | 4079153.00 | 10071.68 | 85 | 85 | 0 | ANNUAL | ALL | 1 | Hollister Prep Schoo | CR SC 6 |
| 643350.03 | 4077181.17 | 10261.15 | 98.22 | 98.22 | 0 | ANNUAL | ALL | 1 | Ladd Lane Elementary School | CR SC 7 |
| 644002.96 | 4080078.78 | 29711.59 | 87 | 87 | 0 | ANNUAL | ALL | 1 | Gabilan Hills Elementary School | CR SC 8 |
| 642244.86 | 4078412.70 | 12060.26 | 90.17 | 90.17 | 0 | ANNUAL | ALL | 1 | San Benito High School | CR SC 9 |
| 642083.45 | 4079793.65 | 14197.31 | 87.58 | 127 | 0 | ANNUAL | ALL | 1 | Jovenes De Antano | CR SR 1 |
| 646402.00 | 4076879.07 | 25105.73 | 146.33 | 153 | 0 | ANNUAL | ALL | 1 | Workplace | CR WP 1 |
| 648949.00 | 4077938.00 | 413612.62 | 189.45 | 259 | 0 | ANNUAL | ALL | 1 | Nearest Workplace | CR WP 2 MEI |
| 647744.00 | 4079173.00 | 152008.92 | 155.2 | 155.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 1 | Gl |
| 647744.00 | 4075573.00 | 43893.07 | 160 | 160 | 0 | ANNUAL | ALL | 1 | Grid Receptor 10 | G10 |
| 651344.00 | 4075573.00 | 245737.08 | 252.9 | 252.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 100 | G100 |
| 648144.00 | 4079173.00 | 143604.23 | 165.9 | 165.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 11 | G100 |
| 648144.00 | 4078773.00 | 201114.84 | 159.6 | 159.6 | 0 | ANNUAL | ALL | 1 | Grid Receptor 12 | G12 |
| 648144.00 | 4078373.00 | 273378.96 | 146.2 | 146.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 13 | G13 |
| 648144.00 | 4077973.00 | 335232.59 | 158.3 | 181 | 0 | ANNUAL | ALL | 1 | Grid Receptor 14 | G14 |
| 648144.00 | 4077573.00 | 296411.14 | 166.6 | 179 | 0 | ANNUAL | ALL | 1 | Grid Receptor 15 | G15 |
| 648144.00 | 4077373.00 | 208956.38 | 175.4 | 175.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 16 | G16 |
| 648144.00 | 4076773.00 | 103369.37 | 177.1 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 17 | G17 |
| 648144.00 | 4076773.00 | 107740.06 | 177.1 | 240 | 0 | ANNUAL | ALL | 1 | • | G17 |
| 648144.00 | 4076373.00 | 79431.98 | 178 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 18 Grid Receptor 19 | G18 |
| 647744.00 | | | 145.4 | 145.4 | 0 | | ALL | <u> </u> | <u> </u> | G2 |
| | 4078773.00 | 187813.61 | | 145.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 2 | |
| 648144.00 | 4075573.00 | 69482.81 | 168.8 | 190 | U | ANNUAL | ALL | 1 | Grid Receptor 20 | G20 |

09/01/21

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- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
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| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|------------|--------------|-------|-------|-------|--------|-----|----------------|------------------|-----|
| 648544.00 | 4079173.00 | 113727.67 | 173.5 | 191 | 0 | ANNUAL | ALL | 1 | Grid Receptor 21 | G21 |
| 648544.00 | 4078773.00 | 173435.68 | 166.2 | 166.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 22 | G22 |
| 648544.00 | 4078373.00 | 278063.57 | 145.4 | 253 | 0 | ANNUAL | ALL | 1 | Grid Receptor 23 | G23 |
| 648544.00 | 4077973.00 | 442769.44 | 173.9 | 214 | 0 | ANNUAL | ALL | 1 | Grid Receptor 24 | G24 |
| 648544.00 | 4077573.00 | 581016.71 | 179.6 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 25 | G25 |
| 648544.00 | 4077173.00 | 465135.95 | 191 | 226 | 0 | ANNUAL | ALL | 1 | Grid Receptor 26 | G26 |
| 648544.00 | 4076773.00 | 221570.51 | 209.2 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 27 | G27 |
| 648544.00 | 4076373.00 | 233622.23 | 233.7 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 28 | G28 |
| 648544.00 | 4075973.00 | 128845.62 | 199.9 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 29 | G29 |
| 647744.00 | 4078373.00 | 223449.02 | 144.4 | 144.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 3 | G3 |
| 648544.00 | 4075573.00 | 95884.64 | 195.5 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 30 | G30 |
| 648944.00 | 4079173.00 | 79859.01 | 190.4 | 194 | 0 | ANNUAL | ALL | 1 | Grid Receptor 31 | G31 |
| 648944.00 | 4078773.00 | 112003.30 | 165.4 | 165.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 32 | G32 |
| 648944.00 | 4078373.00 | 196458.72 | 159.6 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 33 | G33 |
| 648944.00 | 4077973.00 | 386116.41 | 183.5 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 34 | G34 |
| 648944.00 | 4077573.00 | 1041291.18 | 224 | 226 | 0 | ANNUAL | ALL | 1 | Grid Receptor 35 | G35 |
| 648944.00 | 4076373.00 | 366811.11 | 205 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 38 | G38 |
| 648944.00 | 4075973.00 | 221533.45 | 208.8 | 220 | 0 | ANNUAL | ALL | 1 | Grid Receptor 39 | G39 |
| 647744.00 | 4077973.00 | 201275.24 | 134.6 | 181 | 0 | ANNUAL | ALL | 1 | Grid Receptor 4 | G4 |
| 648944.00 | 4075573.00 | 138209.20 | 185.6 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 40 | G40 |
| 649344.00 | 4079173.00 | 56137.44 | 187.4 | 801 | 0 | ANNUAL | ALL | 1 | Grid Receptor 41 | G41 |
| 649344.00 | 4078773.00 | 73317.91 | 160.9 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 42 | G42 |
| 649344.00 | 4078373.00 | 119267.42 | 200.5 | 221 | 0 | ANNUAL | ALL | 1 | Grid Receptor 43 | G43 |
| 649344.00 | 4077973.00 | 258525.31 | 229 | 253 | 0 | ANNUAL | ALL | 1 | Grid Receptor 44 | G44 |
| 649344.00 | 4077573.00 | 399633.16 | 253.3 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 45 | G45 |
| 649344.00 | 4076373.00 | 1637242.13 | 220.2 | 263 | 0 | ANNUAL | ALL | 1 | Grid Receptor 48 | G48 |
| 649344.00 | 4075973.00 | 640555.03 | 227.2 | 227.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 49 | G49 |
| 647744.00 | 4077573.00 | 172528.71 | 163.8 | 171 | 0 | ANNUAL | ALL | 1 | Grid Receptor 5 | G5 |
| 649344.00 | 4075573.00 | 292648.31 | 205.5 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 50 | G50 |
| 649744.00 | 4079173.00 | 48539.14 | 176.1 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 51 | G51 |
| 649744.00 | 4078773.00 | 65028.04 | 195 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 52 | G52 |
| 649744.00 | 4078373.00 | 85363.99 | 196.1 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 53 | G53 |
| 649744.00 | 4077973.00 | 143641.47 | 215.3 | 251 | 0 | ANNUAL | ALL | 1 | Grid Receptor 54 | G54 |
| 649744.00 | 4077573.00 | 279383.86 | 221.6 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 55 | G55 |
| 649744.00 | 4076373.00 | 4983714.13 | 211.7 | 266 | 0 | ANNUAL | ALL | 1 | Grid Receptor 58 | G58 |
| 649744.00 | 4075973.00 | 1312233.25 | 237.7 | 257 | 0 | ANNUAL | ALL | 1 | Grid Receptor 59 | G59 |
| 647744.00 | 4077173.00 | 111407.43 | 158.4 | 171 | 0 | ANNUAL | ALL | 1 | Grid Receptor 6 | G6 |
| 649744.00 | 4075573.00 | 471772.39 | 204.2 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 60 | G60 |
| 650144.00 | 4079173.00 | 33177.03 | 173 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 61 | G61 |
| 650144.00 | 4078773.00 | 46006.74 | 171 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 62 | G62 |
| 650144.00 | 4078373.00 | 76132.40 | 204.6 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 63 | G63 |

09/01/21

* AERMET (21112): 2019

14:16:57

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | X,F13.5),5(1X,F8.2),2X, | | | | AXZES | CDD | NIIMANDO NETERO | D 14 | ID |
|-----------|------------|-------------------------|--------|-------|-------|--------|-----|-----------------|-----------------------|-----------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 650144.00 | 4077973.00 | 113174.30 | 216.5 | 290 | 0 | ANNUAL | ALL | 1 | Grid Receptor 64 | G64 |
| 650144.00 | 4077573.00 | 89980.01 | 257.7 | 257.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 65 | G65 |
| 650144.00 | 4076373.00 | 2006272.27 | 231.4 | 272 | 0 | ANNUAL | ALL | 1 | Grid Receptor 68 | G68 |
| 650144.00 | 4075973.00 | 1027487.88 | 249.4 | 266 | 0 | ANNUAL | ALL | 1 | Grid Receptor 69 | G69 |
| 647744.00 | 4076773.00 | 64336.97 | 164.7 | 164.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 7 | G7 |
| 650144.00 | 4075573.00 | 572089.30 | 216.4 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 70 | G70 |
| 650544.00 | 4079173.00 | 40646.86 | 177 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 71 | G71 |
| 650544.00 | 4078773.00 | 49118.85 | 180.9 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 72 | G72 |
| 650544.00 | 4078373.00 | 51293.90 | 196.6 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 73 | G73 |
| 650544.00 | 4077973.00 | 67724.97 | 236.9 | 801 | 0 | ANNUAL | ALL | 1 | Grid Receptor 74 | G74 |
| 650544.00 | 4077573.00 | 55078.14 | 261.3 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 75 | G75 |
| 650544.00 | 4076373.00 | 463141.53 | 260.9 | 260.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 78 | G78 |
| 650544.00 | 4075973.00 | 725352.71 | 226.7 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 79 | G79 |
| 647744.00 | 4076373.00 | 71235.60 | 164 | 164 | 0 | ANNUAL | ALL | 1 | Grid Receptor 8 | G8 |
| 650544.00 | 4075573.00 | 325197.02 | 268.2 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 80 | G80 |
| 650944.00 | 4079173.00 | 29057.44 | 181.3 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 81 | G81 |
| 650944.00 | 4078773.00 | 25521.71 | 178.4 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 82 | G82 |
| 650944.00 | 4078373.00 | 36758.98 | 214.8 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 83 | G83 |
| 650944.00 | 4077973.00 | 49874.68 | 249.9 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 84 | G84 |
| 650944.00 | 4077573.00 | 30294.07 | 276.5 | 296 | 0 | ANNUAL | ALL | 1 | Grid Receptor 85 | G85 |
| 650944.00 | 4077173.00 | 140325.03 | 225.6 | 296 | 0 | ANNUAL | ALL | 1 | Grid Receptor 86 | G86 |
| 650944.00 | 4076773.00 | 248040.49 | 219.8 | 267 | 0 | ANNUAL | ALL | 1 | Grid Receptor 87 | G87 |
| 650944.00 | 4076373.00 | 337560.95 | 209.2 | 273 | 0 | ANNUAL | ALL | 1 | Grid Receptor 88 | G88 |
| 650944.00 | 4075973.00 | 396350.84 | 216.6 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 89 | G89 |
| 647744.00 | 4075973.00 | 63331.05 | 160.7 | 160.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 9 | G9 |
| 650944.00 | 4075573.00 | 379362.10 | 243.2 | 289 | 0 | ANNUAL | ALL | 1 | Grid Receptor 90 | G90 |
| 651344.00 | 4079173.00 | 17588.71 | 191 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 91 | G91 |
| 651344.00 | 4078773.00 | 21764.35 | 181 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 92 | G92 |
| 651344.00 | 4078373.00 | 34522.76 | 214.3 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 93 | G93 |
| 651344.00 | 4077973.00 | 43766.44 | 248.4 | 826 | 0 | ANNUAL | ALL | 1 | Grid Receptor 94 | G94 |
| 651344.00 | 4077573.00 | 66601.76 | 213.2 | 826 | 0 | ANNUAL | ALL | 1 | Grid Receptor 95 | G95 |
| 651344.00 | 4077173.00 | 100215.33 | 213.6 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 96 | G96 |
| 651344.00 | 4076773.00 | 151217.55 | 203.5 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 97 | G97 |
| 651344.00 | 4076373.00 | 209686.75 | 205.6 | 220 | 0 | ANNUAL | ALL | 1 | Grid Receptor 98 | G98 |
| 651344.00 | 4075973.00 | 236325.44 | 205.8 | 269 | 0 | ANNUAL | ALL | 1 | Grid Receptor 99 | G99 |
| 648584.24 | 4073973.00 | 623679.92 | 183.61 | 209 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 1 | P1 |
| | | 277283.84 | 254.01 | | 0 | ANNUAL | ALL | 1 | • | P1 P10 |
| 649484.05 | 4077537.42 | | | 257 | | | | - | Boundary Perimeter 10 | |
| 649584.03 | 4077538.59 | 391182.73 | 235.3 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 11 | P11 |
| 649684.02 | 4077539.76 | 314189.52 | 221.29 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 12 | P12 |
| 649784.00 | 4077540.93 | 278657.61 | 222.37 | 260 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 13 | P13 |
| 649883.99 | 4077542.10 | 255891.63 | 233.6 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 14 | P14 |

14:16:57

* AERMET (21112): 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 10101 | (,171,5(1. | 11,1 13.3),3(111,1 0.2),211, | ,,,,, | -,, | | | | | | |
|-----------|------------|------------------------------|--------|--------|-------|--------|-----|----------------|-----------------------|-----|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 649983.97 | 4077543.45 | 168860.66 | 249.54 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 15 | P15 |
| 650083.94 | 4077545.65 | 91857.07 | 258.89 | 258.89 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 16 | P16 |
| 650183.91 | 4077547.85 | 77350.45 | 259.56 | 259.56 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 17 | P17 |
| 650283.87 | 4077550.05 | 78350.24 | 256.77 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 18 | P18 |
| 650383.84 | 4077552.25 | 111611.41 | 242.37 | 290 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 19 | P19 |
| 648684.22 | 4077524.90 | 744022.10 | 197.16 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 2 | P2 |
| 650483.81 | 4077554.45 | 104527.96 | 242.23 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 20 | P20 |
| 650583.78 | 4077556.65 | 60502.67 | 259.71 | 290 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 21 | P21 |
| 650683.75 | 4077558.85 | 65399.06 | 257.58 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 22 | P22 |
| 650776.81 | 4077553.84 | 42404.89 | 267.9 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 23 | P23 |
| 650778.91 | 4077453.87 | 36668.57 | 275.91 | 275.91 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 24 | P24 |
| 650781.00 | 4077353.90 | 62371.77 | 265.73 | 281 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 25 | P25 |
| 650783.10 | 4077253.93 | 119431.06 | 251.08 | 282 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 26 | P26 |
| 650785.19 | 4077153.96 | 136047.35 | 252.83 | 281 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 27 | P27 |
| 650787.29 | 4077053.99 | 188879.49 | 246.1 | 269 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 28 | P28 |
| 650789.38 | 4076954.02 | 240329.25 | 241.37 | 269 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 29 | P29 |
| 648784.19 | 4077526.73 | 894764.89 | 209.74 | 209.74 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 3 | P3 |
| 650791.48 | 4076854.05 | 257634.51 | 246.79 | 251 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 30 | P30 |
| 650793.57 | 4076754.08 | 320517.87 | 228.75 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 31 | P31 |
| 650754.39 | 4076683.11 | 349728.54 | 217.76 | 271 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 32 | P32 |
| 650660.22 | 4076649.50 | 434005.38 | 221.2 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 33 | P33 |
| 650561.43 | 4076649.99 | 509514.49 | 220.83 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 34 | P34 |
| 650462.72 | 4076665.95 | 609789.72 | 223.42 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 35 | P35 |
| 650364.01 | 4076681.90 | 714789.31 | 222.46 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 36 | P36 |
| 650264.24 | 4076683.08 | 902414.60 | 223.19 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 37 | P37 |
| 650164.71 | 4076674.46 | 1186607.17 | 222.1 | 249 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 38 | P38 |
| 650065.80 | 4076659.74 | 1611260.15 | 217.03 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 39 | P39 |
| 648884.17 | 4077528.55 | 1001717.17 | 214.25 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 4 | P4 |
| 649980.44 | 4076626.71 | 2518194.38 | 214.82 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 40 | P40 |
| 649920.26 | 4076547.41 | 4399150.38 | 214.91 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 41 | P41 |
| 649852.19 | 4076474.41 | 6351394.75 | 214.09 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 42 | P42 |
| 649770.68 | 4076416.80 | 6135518.89 | 211.53 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 43 | P43 |
| 649680.48 | 4076374.63 | 5378253.95 | 210.17 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 44 | P44 |
| 649580.91 | 4076368.30 | 4374116.71 | 208.52 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 45 | P45 |
| 649482.48 | 4076383.73 | 3286820.12 | 207.5 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 46 | P46 |
| 649391.59 | 4076425.15 | 2830876.07 | 205.17 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 47 | P47 |
| 649303.50 | 4076472.31 | 2044443.06 | 202.16 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 48 | P48 |
| 649226.19 | 4076535.29 | 1428692.95 | 196.38 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 49 | P49 |
| 648984.14 | 4077530.38 | 1093018.90 | 221.41 | 221.41 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 5 | P5 |
| 649156.20 | 4076605.17 | 1198501.86 | 195.87 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 50 | P50 |
| 649068.25 | 4076652.76 | 870299.95 | 196.32 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 51 | P51 |
| | | ~ – | | | - | | | - | <u> </u> | |

09/01/21

14:16:57

* AERMET (21112): 2019

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

09/01/21

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 1 0 1 11 11 | 1111. (11,111,5) | 1,1 10.0/,0(111,10.0/,011,0 | 10,211,110,21 | 1,10.0,211,1 | υ, | | | | | | |
|-------------|------------------|-----------------------------|---------------|--------------|-------|--------|-----|----------------|-----------------------|-------|---|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
| 648986.70 | 4076710.52 | 714107.85 | 192.42 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 52 | P52 | 1 |
| 648936.53 | 4076759.27 | 664158.13 | 192.46 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 53 | P53 | 1 |
| 648868.58 | 4076832.50 | 614115.04 | 191.63 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 54 | P54 | 1 |
| 648797.23 | 4076902.21 | 567142.40 | 186.32 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 55 | P55 | 1 |
| 648710.56 | 4076951.69 | 485176.08 | 179.81 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 56 | P56 | 1 |
| 648620.79 | 4076995.72 | 415905.34 | 176.23 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 57 | P57 | 1 |
| 648607.19 | 4077051.27 | 446553.77 | 175.02 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 58 | P58 | |
| 648680.07 | 4077119.49 | 611256.03 | 180.62 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 59 | P59 | Ī |
| 649084.12 | 4077532.21 | 969881.81 | 216.54 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 6 | P6 | |
| 648759.24 | 4077180.33 | 822831.30 | 183.47 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 60 | P60 | I |
| 648791.44 | 4077262.37 | 958120.20 | 202.88 | 245 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 61 | P61 | |
| 648788.45 | 4077362.32 | 917015.62 | 178.21 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 62 | P62 | |
| 648691.25 | 4077361.04 | 754596.27 | 176.25 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 63 | P63 | |
| 648591.35 | 4077356.85 | 609863.55 | 176 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 64 | P64 | |
| 648525.69 | 4077371.40 | 533520.45 | 175.24 | 245 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 65 | P65 | |
| 648586.93 | 4077430.21 | 619885.97 | 175.13 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 66 | P66 | |
| 649184.09 | 4077533.91 | 975196.66 | 230.71 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 7 | P7 | |
| 649284.08 | 4077535.08 | 639276.56 | 248.08 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 8 | P8 | |
| 649384.06 | 4077536.25 | 296818.27 | 258.43 | 258.43 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 9 | P9 | |
| 645930.00 | 4077982.60 | 41900.90 | 127.38 | 127.38 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | 6 |
| 646030.00 | 4077982.60 | 44847.69 | 131.21 | 131.21 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646130.00 | 4077982.60 | 48240.59 | 135.89 | 135.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646230.00 | 4077982.60 | 52145.24 | 139.18 | 139.18 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646330.00 | 4077982.60 | 56608.81 | 140.76 | 140.76 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646430.00 | 4077982.60 | 61706.46 | 143.89 | 143.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | 4 |
| 646530.00 | 4077982.60 | 67307.47 | 145.22 | 145.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646630.00 | 4077982.60 | 73384.04 | 147.21 | 147.21 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | 4 |
| 646730.00 | 4077982.60 | 79835.50 | 148.3 | 160 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 645930.00 | 4078082.60 | 44494.21 | 127.58 | 127.58 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | 4 |
| 646030.00 | 4078082.60 | 47940.15 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646130.00 | 4078082.60 | 51869.70 | 134.35 | 134.35 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | 4 |
| 646230.00 | 4078082.60 | 56300.39 | 139.22 | 139.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646330.00 | 4078082.60 | 61201.00 | 144.65 | 144.65 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | 4 |
| 646430.00 | 4078082.60 | 66234.05 | 142.28 | 142.28 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646530.00 | 4078082.60 | 71777.87 | 146.76 | 146.76 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | 4 |
| 646630.00 | 4078082.60 | 77681.94 | 150.64 | 150.64 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646730.00 | 4078082.60 | 84171.08 | 155.4 | 157 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | 4 |
| 645930.00 | 4078182.60 | 47726.26 | 127.22 | 127.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646030.00 | 4078182.60 | 51533.77 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | 4 |
| 646130.00 | 4078182.60 | 55687.06 | 133.89 | 133.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646230.00 | 4078182.60 | 60210.93 | 140.45 | 140.45 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |

694857.05

* AERMOD (19191): Appendix B Attachment - Existing Peak Fugitive Emissions * AERMET (21112): 2019

14:16:57

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 1 OIGV | 1111. (11,111,5(1 | Λ , Γ 13.3), \Im (1 Λ , Γ 6.2), 2Λ , | 110,221,110,22 | 1,10.0,271,71 | .0) | | | | | |
|-----------|-------------------|--|----------------|---------------|-------|--------|-----|----------------|-----------------|--------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 646330.00 | 4078182.60 | 65042.23 | 146.94 | 146.94 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430.00 | 4078182.60 | 69668.37 | 140.23 | 140.23 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646530.00 | 4078182.60 | 75116.31 | 147.25 | 147.25 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646630.00 | 4078182.60 | 80987.49 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646730.00 | 4078182.60 | 87561.61 | 157.78 | 166 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 645930.00 | 4078282.60 | 50988.81 | 126.06 | 126.06 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646030.00 | 4078282.60 | 54834.88 | 129.56 | 129.56 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646130.00 | 4078282.60 | 58878.26 | 132.89 | 132.89 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646230.00 | 4078282.60 | 63201.11 | 139.24 | 139.24 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646330.00 | 4078282.60 | 67721.45 | 142.68 | 142.68 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646430.00 | 4078282.60 | 72357.61 | 140.02 | 140.02 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646530.00 | 4078282.60 | 77736.37 | 147.22 | 147.22 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646630.00 | 4078282.60 | 83374.29 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646730.00 | 4078282.60 | 89340.46 | 156.78 | 166 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 648659.32 | 4077241.20 | 694857.05 | 205.79 | 205.79 | 0 | ANNUAL | ALL | 1 | House 1 | RP H1 |
| 648071.24 | 4076116.26 | 89057.55 | 169.6 | 240 | 0 | ANNUAL | ALL | 1 | House 10 | RP H10 |
| 648247.37 | 4076278.08 | 118744.04 | 184.55 | 240 | 0 | ANNUAL | ALL | 1 | House 11 | RP H11 |
| 648027.19 | 4076255.14 | 94938.46 | 169.38 | 240 | 0 | ANNUAL | ALL | 1 | House 12 | RP H12 |
| 648065.77 | 4076359.39 | 98251.19 | 173.83 | 240 | 0 | ANNUAL | ALL | 1 | House 13 | RP H13 |
| 648138.68 | 4076399.80 | 106892.34 | 178.22 | 240 | 0 | ANNUAL | ALL | 1 | House 14 | RP_H14 |
| 648254.71 | 4076411.38 | 124115.91 | 191.28 | 240 | 0 | ANNUAL | ALL | 1 | House 15 | RP_H15 |
| 647877.81 | 4076365.37 | 80323.56 | 165.39 | 240 | 0 | ANNUAL | ALL | 1 | House 16 | RP_H16 |
| 647520.00 | 4076206.00 | 58821.59 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 17 | RP_H17 |
| 647921.00 | 4076247.13 | 85205.34 | 164 | 240 | 0 | ANNUAL | ALL | 1 | House 18 | RP_H18 |
| 647708.78 | 4076351.65 | 68858.44 | 163.52 | 163.52 | 0 | ANNUAL | ALL | 1 | House 19 | RP_H19 |
| 648371.71 | 4075470.41 | 79599.33 | 173.69 | 227 | 0 | ANNUAL | ALL | 1 | House 2 | RP_H2 |
| 647703.58 | 4076251.07 | 68471.22 | 162.17 | 162.17 | 0 | ANNUAL | ALL | 1 | House 20 | RP_H20 |
| 647718.77 | 4076103.98 | 70437.36 | 159.35 | 159.35 | 0 | ANNUAL | ALL | 1 | House 21 | RP_H21 |
| 647843.32 | 4076124.94 | 77906.16 | 163 | 234 | 0 | ANNUAL | ALL | 1 | House 22 | RP_H22 |
| 647842.26 | 4076500.39 | 74996.76 | 167.93 | 167.93 | 0 | ANNUAL | ALL | 1 | House 23 | RP_H23 |
| 647727.75 | 4076644.22 | 62382.76 | 164.15 | 164.15 | 0 | ANNUAL | ALL | 1 | House 24 | RP_H24 |
| 647823.91 | 4076643.73 | 68728.58 | 168.29 | 168.29 | 0 | ANNUAL | ALL | 1 | House 25 | RP_H25 |
| 647530.00 | 4076497.00 | 54371.42 | 159.56 | 159.56 | 0 | ANNUAL | ALL | 1 | House 26 | RP_H26 |
| 647810.11 | 4076853.73 | 72098.50 | 162.9 | 162.9 | 0 | ANNUAL | ALL | 1 | House 27 | RP_H27 |
| 647697.48 | 4076989.26 | 80071.39 | 161.42 | 162 | 0 | ANNUAL | ALL | 1 | House 28 | RP_H28 |
| 648225.50 | 4076181.52 | 107149.62 | 183.22 | 240 | 0 | ANNUAL | ALL | 1 | House 29 | RP_H29 |
| 647678.23 | 4075969.18 | 61417.07 | 159.5 | 159.5 | 0 | ANNUAL | ALL | 1 | House 3 | RP_H3 |
| 645876.32 | 4077487.41 | 30608.24 | 127.13 | 142 | 0 | ANNUAL | ALL | 1 | House 30 | RP_H30 |
| 650902.00 | 4076062.00 | 410968.20 | 215.24 | 287 | 0 | ANNUAL | ALL | 1 | House 31 | RP_H31 |
| 651490.00 | 4076597.00 | 148314.94 | 205.5 | 813 | 0 | ANNUAL | ALL | 1 | House 32 | RP_H32 |
| 651565.00 | 4077067.00 | 106672.12 | 213.93 | 813 | 0 | ANNUAL | ALL | 1 | House 33 | RP_H33 |
| | | | | | | | | | | |

09/01/21

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14:16:57

* AERMET (21112): 2019

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*

09/01/21

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|------------|--------------|--------|--------|---|--------|-----|----------------|-------------|--------|
| 648672.77 | 4075306.77 | 108277.36 | 225.91 | 227 | 0 | ANNUAL | ALL | 1 | House 34 | RP H34 |
| 648383.60 | 4075469.08 | 79797.98 | 174.44 | 227 | 0 | ANNUAL | ALL | 1 | House 35 | RP H35 |
| 646379.37 | 4077232.58 | 30216.48 | 146 | 146 | 0 | ANNUAL | ALL | 1 | House 36 | RP H36 |
| 651849.72 | 4075865.15 | 152352.03 | 201.97 | 333 | 0 | ANNUAL | ALL | 1 | House 37 | RP H37 |
| 652045.49 | 4076210.24 | 124415.13 | 196.88 | 813 | 0 | ANNUAL | ALL | 1 | House 38 | RP H38 |
| 652255.69 | 4076390.67 | 92281.60 | 197.06 | 813 | 0 | ANNUAL | ALL | 1 | House 39 | RP H39 |
| 647815.25 | 4075985.43 | 66210.41 | 162.04 | 162.04 | 0 | ANNUAL | ALL | 1 | House 4 | RP H4 |
| 646853.73 | 4077372.88 | 56707.15 | 145.99 | 145.99 | 0 | ANNUAL | ALL | 1 | House 40 | RP H40 |
| 647050.21 | 4077359.57 | 66621.58 | 145 | 145 | 0 | ANNUAL | ALL | 1 | House 41 | RP H41 |
| 647286.42 | 4077474.40 | 92885.99 | 149.68 | 153 | 0 | ANNUAL | ALL | 1 | House 42 | RP H42 |
| 647359.05 | 4077339.84 | 88999.07 | 154.45 | 159 | 0 | ANNUAL | ALL | 1 | House 43 | RP H43 |
| 647490.41 | 4077328.53 | 101827.31 | 162.28 | 162.28 | 0 | ANNUAL | ALL | 1 | House 44 | RP H44 |
| 647522.17 | 4077251.76 | 95354.02 | 164.3 | 164.3 | 0 | ANNUAL | ALL | 1 | House 45 | RP H45 |
| 647517.82 | 4077138.85 | 80258.29 | 164.01 | 164.01 | 0 | ANNUAL | ALL | 1 | House 46 | RP H46 |
| 646819.01 | 4077258.40 | 46863.23 | 151.53 | 152 | 0 | ANNUAL | ALL | 1 | House 47 | RP H47 |
| 646778.72 | 4077127.63 | 37519.68 | 158.51 | 158.51 | 0 | ANNUAL | ALL | 1 | House 48 | RP H48 |
| 646987.26 | 4077213.10 | 51324.02 | 146.44 | 146.44 | 0 | ANNUAL | ALL | 1 | House 49 | RP H49 |
| 647898.20 | 4076032.80 | 72972.86 | 163.83 | 237 | 0 | ANNUAL | ALL | 1 | House 5 | RP H5 |
| 647241.77 | 4077226.51 | 67074.45 | 154.85 | 154.85 | 0 | ANNUAL | ALL | 1 | House 50 | RP H50 |
| 646773.05 | 4077063.03 | 34392.18 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 51 | RP H51 |
| 647104.37 | 4077117.93 | 50599.15 | 148.99 | 148.99 | 0 | ANNUAL | ALL | 1 | House 52 | RP H52 |
| 647291.90 | 4077123.08 | 61807.89 | 158.62 | 158.62 | 0 | ANNUAL | ALL | 1 | House 53 | RP_H53 |
| 646765.24 | 4076977.94 | 31347.17 | 158.67 | 158.67 | 0 | ANNUAL | ALL | 1 | House 54 | RP H54 |
| 646995.65 | 4076983.80 | 37330.05 | 152.34 | 152.34 | 0 | ANNUAL | ALL | 1 | House 55 | RP H55 |
| 647317.21 | 4077030.98 | 55443.42 | 160.22 | 160.22 | 0 | ANNUAL | ALL | 1 | House 56 | RP_H56 |
| 647398.39 | 4077013.06 | 58731.93 | 161.26 | 161.26 | 0 | ANNUAL | ALL | 1 | House 57 | RP_H57 |
| 646978.93 | 4076903.58 | 34418.22 | 156.81 | 156.81 | 0 | ANNUAL | ALL | 1 | House 58 | RP_H58 |
| 647015.19 | 4076807.16 | 36150.15 | 156.21 | 156.21 | 0 | ANNUAL | ALL | 1 | House 59 | RP_H59 |
| 648045.44 | 4076017.78 | 77346.41 | 168.26 | 240 | 0 | ANNUAL | ALL | 1 | House 6 | RP_H6 |
| 647163.96 | 4076802.21 | 40010.71 | 154.38 | 154.38 | 0 | ANNUAL | ALL | 1 | House 60 | RP_H60 |
| 647310.58 | 4076940.38 | 46601.04 | 162.49 | 162.49 | 0 | ANNUAL | ALL | 1 | House 61 | RP_H61 |
| 647298.09 | 4076805.15 | 43937.69 | 158 | 158 | 0 | ANNUAL | ALL | 1 | House 62 | RP_H62 |
| 647446.56 | 4076899.85 | 50281.49 | 159.45 | 159.45 | 0 | ANNUAL | ALL | 1 | House 63 | RP_H63 |
| 647464.49 | 4076780.74 | 50434.74 | 159.32 | 159.32 | 0 | ANNUAL | ALL | 1 | House 64 | RP_H64 |
| 647512.00 | 4076536.00 | 51348.24 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 65 | RP_H65 |
| 651131.00 | 4078767.00 | 21951.54 | 179.58 | 830 | 0 | ANNUAL | ALL | 1 | House 66 | RP_H66 |
| 647131.00 | 4077336.00 | 69925.37 | 146.77 | 146.77 | 0 | ANNUAL | ALL | 1 | House 67 | RP_H67 |
| 646798.00 | 4076740.00 | 31674.57 | 156.07 | 156.07 | 0 | ANNUAL | ALL | 1 | House 68 | RP_H68 |
| 646900.00 | 4076802.00 | 33681.66 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 69 | RP_H69 |
| 648126.33 | 4075955.37 | 77265.84 | 171.51 | 240 | 0 | ANNUAL | ALL | 1 | House 7 | RP_H7 |
| 647317.00 | 4076662.00 | 44060.77 | 159.9 | 159.9 | 0 | ANNUAL | ALL | 1 | House 70 | RP_H70 |

09/01/21

* AERMET (21112): 2019

14:16:57

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|------------|--------------|--------|-------|-------|--------|-----|----------------|-------------|-------|
| 648249.26 | 4075969.84 | 87666.73 | 183.42 | 240 | 0 | ANNUAL | ALL | 1 | House 8 | RP_H8 |
| 648218.58 | 4076108.95 | 97376.87 | 182.28 | 240 | 0 | ANNUAL | ALL | 1 | House 9 | RP_H9 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in µg/m3.

14:22:32

* AERMET (21112): 2020

- *MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| ** X Y X&Y AVERAGE CONC ZELEV ZHILL ZFLAG AVE GRP NUM YRS NET ID Description 645996.00 4078698.00 6459964078698 74126.52 | AQ ST 1 CR HP 1 CR PK 1 CR PK 2 CR PK 3 CR PK 4 |
|--|---|
| 643903.65 4077719.38 643903.654077719.38 20010.81 105.68 105.68 0 ANNUAL ALL 1 Hazel Hawkins Memorial Hospital 642056.78 4079415.69 642056.7824079415.6 15413.30 85.12 85.12 0 ANNUAL ALL 1 Dunne Park 642179.10 4079949.51 642179.0954079949.5 18448.34 117.99 1 0 ANNUAL ALL 1 Vista Park Hill Park 644733.14 4078752.70 644733.1424078752.7 36243.91 106.44 106.44 0 ANNUAL ALL 1 Las Brisas Park 645608.81 4078854.28 645608.8084078854.2 62557.94 112.86 112.86 0 ANNUAL ALL 1 Frank Klauer Memorial Park 644238.05 4078806.98 644238.0544078806.9 29271.42 95.25 95.25 0 ANNUAL ALL 1 Veterans Memorial Park 645311.48 4076559.00 645311.4764076558.9 25780.58 134.61 134.61 0 ANNUAL ALL 1 Park 6 64594.14 649581.6894073424.4 77339.62 159.96 318 0 ANNUAL ALL 1 Park 7 645145.11 4077180.55 645145.114077180.55 32148.14 133 133 0 ANNUAL ALL 1 Park 7 645145.11 4077180.55 645145.114077180.55 32148.14 133 133 0 ANNUAL ALL 1 Cerra Vista Elem School 642904.71 4079954.53 642904.7124079954.5 25560.45 86 86 0 ANNUAL ALL 1 San Andreas Continuation 645850.68 4074014.90 645850.6784074014.8 20898.60 123 313 0 ANNUAL ALL 1 SouthSide School 642105.69 4078176.2 12743.27 91 91 0 ANNUAL ALL 1 School 12 640058.93 4078143.20 646058.934078443.2 73207.44 128.52 128.52 0 ANNUAL ALL 1 Rancho Santana School 64409.60 407816.00 6484664074106 5509.09 159 240 0 ANNUAL ALL 1 Tres Pinos Union Elementary School 64390.12 4077304.04 643920.124077304.04 643920.124077304.04 643920.124077304.04 643920.124077304.04 643920.124077304.04 14079826.83 64266.73 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School 642961.07 4078620.83 642961.074078620.83 22646.73 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR HP 1 CR PK 1 CR PK 2 CR PK 3 CR PK 4 |
| 642056.78 4079415.69 642056.7824079415.6 15413.30 85.12 85.12 0 ANNUAL ALL 1 Dunne Park 642179.10 4079949.51 642179.0954079949.5 18448.34 117.99 117.99 0 ANNUAL ALL 1 Vista Park Hill Park 644733.14 4078752.77 36243.91 106.44 106.44 0 ANNUAL ALL 1 Las Brisas Park 64508.81 4078854.28 645608.8084078854.2 62557.94 112.86 112.86 0 ANNUAL ALL 1 Frank Klauer Memorial Park 644238.05 4078806.98 644238.0544078806.9 29271.42 95.25 95.25 0 ANNUAL ALL 1 Veterans Memorial Park 649581.69 4073424.46 649581.6894073424.4 77339.62 159.96 318 0 ANNUAL ALL 1 Park 7 645145.11 4077180.55 645145.114077180.55 32148.14 133 133 0 ANNUAL ALL 1 Cerra Vista Elem School 642904.71 4079954.5 3642904.7124079954.5 25560.45 86 86 0 ANNUAL ALL 1 San Andreas Continuation 642850.68 4074014.90 645850.6784074014.8 20898.60 123 313 0 ANNUAL ALL 1 School 12 646058.93 4078143.20 646058.93 4078443.2 73207.44 128.52 128.52 0 ANNUAL ALL 1 Rancho Santana School 643960.00 4075575.00 64726994075575 51197.60 158 158 0 ANNUAL ALL 1 Future School 644109.60 4078388.69 644109.64078388.69 29620.12 98.2 98.2 0 ANNUAL ALL 1 Sunnyslope Elem School 643920.12 4077304.04 643920.124077304.04 21673.19 101.23 101.23 0 ANNUAL ALL 1 Rancho San Justo Middle School 642961.07 4078620.83 642961.07407620.83 22646.73 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR PK 1 CR PK 2 CR PK 3 CR PK 4 |
| 644733.14 4078752.70 644733.1424078752.7 36243.91 106.44 106.44 0 ANNUAL ALL 1 Las Brisas Park 645608.81 4078854.28 645608.8084078854.2 62557.94 112.86 112.86 0 ANNUAL ALL 1 Frank Klauer Memorial Park 644238.05 4078806.98 644238.0544078806.9 29271.42 95.25 95.25 0 ANNUAL ALL 1 Veterans Memorial Park 645311.48 4076559.00 645311.4764076558.9 25780.58 134.61 134.61 0 ANNUAL ALL 1 Park 6 649581.69 4073424.46 649581.6894073424.4 77339.62 159.96 318 0 ANNUAL ALL 1 Park 7 645145.11 4077180.55 645145.114077180.55 32148.14 133 133 0 ANNUAL ALL 1 Cerra Vista Elem School 642904.71 4079954.53 642904.7124079954.5 25560.45 86 86 0 ANNUAL ALL 1 San Andreas Continuation 645850.68 4074014.90 645850.6784074014.8 20898.60 123 313 0 ANNUAL ALL 1 SouthSide School 642105.68 4078176.21 642105.6794078176.2 12743.27 91 91 0 ANNUAL ALL 1 School 12 646058.93 4078443.20 646058.934078443.2 73207.44 128.52 128.52 0 ANNUAL ALL 1 Rancho Santana School 647269.00 4075575.00 6472694075575 51197.60 158 158 0 ANNUAL ALL 1 Teuture School 648460.0 4074106.00 6484664074106 55090.90 159 240 0 ANNUAL ALL 1 Tree Pinos Union Elementary School 643920.12 4077304.04 643920.124077304.04 21673.19 101.23 101.23 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR_PK_3 CR_PK_4 |
| 645608.81 4078854.28 645608.8084078854.2 62557.94 112.86 112.86 0 ANNUAL ALL 1 Frank Klauer Memorial Park 644238.05 4078806.98 644238.0544078806.9 29271.42 95.25 95.25 0 ANNUAL ALL 1 Veterans Memorial Park 645311.48 4076559.00 645311.4764076558.9 25780.58 134.61 134.61 0 ANNUAL ALL 1 Park 6 649581.69 4073424.46 649581.6894073424.4 77339.62 159.96 318 0 ANNUAL ALL 1 Park 7 645145.11 4077180.55 645145.114077180.55 32148.14 133 133 0 ANNUAL ALL 1 Cerra Vista Elem School 642904.71 4079954.53 642904.7124079954.5 25560.45 86 86 0 ANNUAL ALL 1 San Andreas Continuation 645850.68 4074014.90 645850.6784074014.8 20898.60 123 313 0 ANNUAL ALL 1 School 12 646058.93 4078443.20 646058.934078443.2 73207.44 128.52 128.52 0 ANNUAL ALL 1 Rancho Santana School 647269.00 4075575.00 6472694075575 51197.60 158 158 0 ANNUAL ALL 1 Future School 648466.00 4074106.00 6484664074106 55090.90 159 240 0 ANNUAL ALL 1 Sunnyslope Elem School 643920.12 4077304.04 643920.124077304.04 643920.124077304.04 21673.19 101.23 101.23 0 ANNUAL ALL 1 Rancho San Justo Middle School 642961.07 4078620.83 642961.074078620.83 22646.73 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR_PK_4 |
| 644238.05 4078806.98 644238.0544078806.9 29271.42 95.25 95.25 0 ANNUAL ALL 1 Veterans Memorial Park 645311.48 4076559.00 645311.4764076558.9 25780.58 134.61 134.61 0 ANNUAL ALL 1 Park 6 649581.69 4073424.46 649581.6894073424.4 77339.62 159.96 318 0 ANNUAL ALL 1 Park 7 645145.11 4077180.55 645145.114077180.55 32148.14 133 133 0 ANNUAL ALL 1 Cerra Vista Elem School 642904.71 4079954.53 642904.7124079954.5 25560.45 86 86 0 ANNUAL ALL 1 San Andreas Continuation 645850.68 4074014.90 645850.6784074014.8 20898.60 123 313 0 ANNUAL ALL 1 SouthSide School 642105.68 4078176.21 642105.6794078176.2 12743.27 91 91 0 ANNUAL ALL 1 School 12 646058.93 4078443.20 646058.934078443.2 73207.44 128.52 128.52 0 ANNUAL ALL 1 Rancho Santana School 647269.00 4075575.00 6472694075575 51197.60 158 158 0 ANNUAL ALL 1 Tres Pinos Union Elementary School 648466.00 4074106.00 64884664074106 55090.90 159 240 0 ANNUAL ALL 1 Sunnyslope Elem School 643920.12 4077304.04 643920.124077304.04 21673.19 101.23 101.23 0 ANNUAL ALL 1 Rancho San Justo Middle School 642961.07 4078620.83 642961.074078620.83 22646.73 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School | |
| 645311.48 4076559.00 645311.4764076558.9 25780.58 134.61 134.61 0 ANNUAL ALL 1 Park 6 649581.69 4073424.46 649581.6894073424.4 77339.62 159.96 318 0 ANNUAL ALL 1 Park 7 645145.11 4077180.55 645145.114077180.55 32148.14 133 133 0 ANNUAL ALL 1 Cerra Vista Elem School 642904.71 4079954.53 642904.7124079954.5 25560.45 86 86 0 ANNUAL ALL 1 San Andreas Continuation 645850.68 4074014.90 645850.6784074014.8 20898.60 123 313 0 ANNUAL ALL 1 SouthSide School 642105.68 4078176.21 642105.6794078176.2 12743.27 91 91 0 ANNUAL ALL 1 School 12 646058.93 4078443.20 646058.934078443.2 73207.44 128.52 128.52 0 ANNUAL ALL 1 Rancho Santana School 647269.00 4075575.00 6472694075575 51197.60 158 158 0 ANNUAL ALL 1 Future School 648466.00 4074106.00 6484664074106 55090.90 159 240 0 ANNUAL ALL 1 Tres Pinos Union Elementary School 644109.60 4078388.69 644109.64078388.69 29620.12 98.2 98.2 0 ANNUAL ALL 1 Sunnyslope Elem School 642961.07 4078620.83 642961.074078620.83 22646.73 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School | |
| 649581.69 4073424.46 649581.6894073424.4 77339.62 159.96 318 0 ANNUAL ALL 1 Park 7 645145.11 4077180.55 645145.114077180.55 32148.14 133 133 0 ANNUAL ALL 1 Cerra Vista Elem School 642904.71 4079954.53 642904.7124079954.5 25560.45 86 86 0 ANNUAL ALL 1 San Andreas Continuation 645850.68 4074014.90 645850.6784074014.8 20898.60 123 313 0 ANNUAL ALL 1 SouthSide School 642105.68 4078176.21 642105.6794078176.2 12743.27 91 91 0 ANNUAL ALL 1 School 12 646058.93 4078443.20 646058.934078443.2 73207.44 128.52 128.52 0 ANNUAL ALL 1 Rancho Santana School 647269.00 4075575.00 6472694075575 51197.60 158 158 0 ANNUAL ALL 1 Future School 648466.00 4074106.00 6484664074106 55090.90 159 240 0 ANNUAL ALL 1 Tres Pinos Union Elementary School 644109.60 4078388.69 644109.64078388.69 29620.12 98.2 98.2 0 ANNUAL ALL 1 Sunnyslope Elem School 643920.12 4077304.04 643920.124077304.04 21673.19 101.23 101.23 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR_PK_5 |
| 645145.11 4077180.55 645145.114077180.55 32148.14 133 133 0 ANNUAL ALL 1 Cerra Vista Elem School 642904.71 4079954.53 642904.7124079954.5 25560.45 86 86 0 ANNUAL ALL 1 San Andreas Continuation 645850.68 4074014.90 645850.6784074014.8 20898.60 123 313 0 ANNUAL ALL 1 SouthSide School 642105.68 4078176.21 642105.6794078176.2 12743.27 91 91 0 ANNUAL ALL 1 School 12 646058.93 4078443.20 646058.934078443.2 73207.44 128.52 128.52 0 ANNUAL ALL 1 Rancho Santana School 647269.00 4075575.00 6472694075575 51197.60 158 158 0 ANNUAL ALL 1 Future School 648466.00 4074106.00 6484664074106 55090.90 159 240 0 ANNUAL ALL 1 Tres Pinos Union Elementary School 64109.60 4078388.69 644109.64078388.69 29620.12 98.2 98.2 0 ANNUAL ALL 1 Sunnyslope Elem School 643920.12 4077304.04 643920.124077304.04 21673.19 101.23 101.23 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR PK 6 |
| 642904.71 4079954.53 642904.7124079954.5 25560.45 86 86 0 ANNUAL ALL 1 San Andreas Continuation 645850.68 4074014.90 645850.6784074014.8 20898.60 123 313 0 ANNUAL ALL 1 SouthSide School 642105.68 4078176.21 642105.6794078176.2 12743.27 91 91 0 ANNUAL ALL 1 School 12 646058.93 4078443.20 646058.934078443.2 73207.44 128.52 128.52 0 ANNUAL ALL 1 Rancho Santana School 647269.00 4075575.00 6472694075575 51197.60 158 158 0 ANNUAL ALL 1 Future School 648466.00 4074106.00 6484664074106 55090.90 159 240 0 ANNUAL ALL 1 Tres Pinos Union Elementary School 644109.60 4078388.69 644109.64078388.69 29620.12 98.2 98.2 0 ANNUAL ALL 1 Sunnyslope Elem School 643920.12 4077304.04 643920.124077304.04 21673.19 101.23 101.23 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR_PK_7 |
| 645850.68 4074014.90 645850.6784074014.8 20898.60 123 313 0 ANNUAL ALL 1 SouthSide School 642105.68 4078176.21 642105.6794078176.2 12743.27 91 91 0 ANNUAL ALL 1 School 12 646058.93 4078443.20 646058.934078443.2 73207.44 128.52 128.52 0 ANNUAL ALL 1 Rancho Santana School 647269.00 4075575.00 6472694075575 51197.60 158 158 0 ANNUAL ALL 1 Future School 648466.00 4074106.00 6484664074106 55090.90 159 240 0 ANNUAL ALL 1 Tres Pinos Union Elementary School 644109.60 4078388.69 644109.64078388.69 29620.12 98.2 98.2 0 ANNUAL ALL 1 Sunnyslope Elem School 643920.12 4077304.04 643920.124077304.04 21673.19 101.23 101.23 0 ANNUAL ALL 1 Rancho San Justo Middle School 642961.07 4078620.83 642961.074078620.83 22646.73 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR_SC_1 |
| 642105.68 4078176.21 642105.6794078176.2 12743.27 91 91 0 ANNUAL ALL 1 School 12 646058.93 4078443.20 646058.934078443.2 73207.44 128.52 128.52 0 ANNUAL ALL 1 Rancho Santana School 647269.00 4075575.00 6472694075575 51197.60 158 158 0 ANNUAL ALL 1 Future School 648466.00 4074106.00 6484664074106 55090.90 159 240 0 ANNUAL ALL 1 Tres Pinos Union Elementary School 644109.60 4078388.69 644109.64078388.69 29620.12 98.2 98.2 0 ANNUAL ALL 1 Sunnyslope Elem School 643920.12 4077304.04 643920.124077304.04 21673.19 101.23 101.23 0 ANNUAL ALL 1 Hollister Montessori School 642961.07 4078620.83 642961.074078620.83 22646.73 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR_SC_10 |
| 646058.93 4078443.20 646058.934078443.2 73207.44 128.52 128.52 0 ANNUAL ALL 1 Rancho Santana School 647269.00 4075575.00 6472694075575 51197.60 158 158 0 ANNUAL ALL 1 Future School 648466.00 4074106.00 6484664074106 55090.90 159 240 0 ANNUAL ALL 1 Tres Pinos Union Elementary School 644109.60 4078388.69 644109.64078388.69 29620.12 98.2 98.2 0 ANNUAL ALL 1 Sunnyslope Elem School 643920.12 4077304.04 643920.124077304.04 21673.19 101.23 101.23 0 ANNUAL ALL 1 Hollister Montessori School 642961.07 4078620.83 642961.074078620.83 22646.73 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR_SC_11 |
| 647269.00 4075575.00 6472694075575 51197.60 158 158 0 ANNUAL ALL 1 Future School 648466.00 4074106.00 6484664074106 55090.90 159 240 0 ANNUAL ALL 1 Tres Pinos Union Elementary School 644109.60 4078388.69 644109.60073888.69 29620.12 98.2 98.2 0 ANNUAL ALL 1 Sunnyslope Elem School 643920.12 4077304.04 643920.124077304.04 21673.19 101.23 101.23 0 ANNUAL ALL 1 Hollister Montessori School 642961.07 4078620.83 642961.074078620.83 22646.73 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR_SC_12 |
| 648466.00 4074106.00 6484664074106 55090.90 159 240 0 ANNUAL ALL 1 Tres Pinos Union Elementary School 644109.60 4078388.69 644109.64078388.69 29620.12 98.2 98.2 0 ANNUAL ALL 1 Sunnyslope Elem School 643920.12 4077304.04 643920.124077304.04 21673.19 101.23 101.23 0 ANNUAL ALL 1 Hollister Montessori School 642961.07 4078620.83 642961.074078620.83 22646.73 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR_SC_13 Schoo |
| 644109.60 4078388.69 644109.64078388.69 29620.12 98.2 98.2 0 ANNUAL ALL 1 Sunnyslope Elem School 643920.12 4077304.04 643920.124077304.04 21673.19 101.23 101.23 0 ANNUAL ALL 1 Hollister Montessori School 642961.07 4078620.83 642961.074078620.83 22646.73 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR_SC_14 Schoo |
| 643920.12 4077304.04 643920.124077304.04 21673.19 101.23 101.23 0 ANNUAL ALL 1 Hollister Montessori School 642961.07 4078620.83 642961.074078620.83 22646.73 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR_SC_15 |
| 642961.07 4078620.83 642961.074078620.83 22646.73 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School | CR_SC_2 |
| | CR_SC_3 |
| 643980.02 4079743.02 643980.024079743.02 35999.14 88 88 0 ANNUAL ALL 1 Marguerite Maze Middle School | CR_SC_4 |
| | CR_SC_5 |
| 641630.17 4079153.00 641630.174079153 16318.07 85 85 0 ANNUAL ALL 1 Hollister Prep Schoo | CR_SC_6 |
| 643350.03 4077181.17 643350.034077181.17 18167.44 98.22 98.22 0 ANNUAL ALL 1 Ladd Lane Elementary School | CR_SC_7 |
| 644002.96 4080078.78 644002.964080078.78 34793.66 87 87 0 ANNUAL ALL 1 Gabilan Hills Elementary School | CR_SC_8 |
| 642244.86 4078412.70 642244.8584078412.6 15970.11 90.17 90.17 0 ANNUAL ALL 1 San Benito High School | CR_SC_9 |
| 642083.45 4079793.65 642083.4474079793.6 17396.74 87.58 127 0 ANNUAL ALL 1 Jovenes De Antano | CR_SR_1 |
| 646402.00 4076879.07 6464024076879.07 50213.84 146.33 153 0 ANNUAL ALL 1 Workplace | CR_WP_1 |
| 648949.00 4077938.00 6489494077938 449730.20 189.45 259 0 ANNUAL ALL 1 Nearest Workplace | CR_WP_2 MEIW |
| 647744.00 4079173.00 6477444079173 170788.96 155.2 155.2 0 ANNUAL ALL 1 Grid Receptor 1 | G1 |
| 647744.00 4075573.00 6477444075573 67226.18 160 160 0 ANNUAL ALL 1 Grid Receptor 10 | G10 |
| 651344.00 4075573.00 6513444075573 283608.52 252.9 252.9 0 ANNUAL ALL 1 Grid Receptor 100 | G100 |
| 648144.00 4079173.00 6481444079173 153219.53 165.9 165.9 0 ANNUAL ALL 1 Grid Receptor 11 | G11 |
| 648144.00 4078773.00 6481444078773 224145.67 159.6 159.6 0 ANNUAL ALL 1 Grid Receptor 12 | G12 |
| 648144.00 4078373.00 6481444078373 309335.62 146.2 146.2 0 ANNUAL ALL 1 Grid Receptor 13 | G13 |
| 648144.00 4077973.00 6481444077973 413865.55 158.3 181 0 ANNUAL ALL 1 Grid Receptor 14 | G14 |
| 648144.00 4077573.00 6481444077573 371055.88 166.6 179 0 ANNUAL ALL 1 Grid Receptor 15 | G15 |
| 648144.00 4077173.00 6481444077173 278336.28 175.4 175.4 0 ANNUAL ALL 1 Grid Receptor 16 | G16 |
| 648144.00 4076773.00 6481444076773 193802.62 177.1 240 0 ANNUAL ALL 1 Grid Receptor 17 | G17 |
| 648144.00 4076373.00 6481444076373 144923.49 178 240 0 ANNUAL ALL 1 Grid Receptor 18 | G18 |
| 648144.00 4075973.00 6481444075973 116182.74 173 240 0 ANNUAL ALL 1 Grid Receptor 19 | G19 |
| 647744.00 4078773.00 6477444078773 211878.70 145.4 145.4 0 ANNUAL ALL 1 Grid Receptor 2 | G2 |
| 648144.00 4075573.00 6481444075573 94372.25 168.8 190 0 ANNUAL ALL 1 Grid Receptor 20 | G20 |
| 648544.00 4079173.00 6485444079173 127353.46 173.5 191 0 ANNUAL ALL 1 Grid Receptor 21 | |
| 648544.00 4078773.00 6485444078773 187296.93 166.2 166.2 0 ANNUAL ALL 1 Grid Receptor 22 | G21 |
| 648544.00 4078373.00 6485444078373 301892.43 145.4 253 0 ANNUAL ALL 1 Grid Receptor 23 | |
| 648544.00 4077973.00 6485444077973 496828.77 173.9 214 0 ANNUAL ALL 1 Grid Receptor 24 | G21 |

09/01/21

09/01/21

* AERMET (21112): 2020

14:22:32

- *MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X Y X&Y | | | ZHILL Z | ZFLAG AVE GRE | NUM YRS NET ID | Description | ID |
|--|-----------------------|----------------|------------|---------------|----------------|------------------|------------|
| 648544.00 4077573.00 6485444077573 | 711837.99 | 179.6 | 227 | 0 ANNUAL ALL | 1 | Grid Receptor 25 | G25 |
| 648544.00 4077173.00 6485444077173 | 586668.54 | 191 | 226 | 0 ANNUAL ALL | 1 | Grid Receptor 26 | G26 |
| 648544.00 4076773.00 6485444076773 | 373873.68 | 209.2 | 240 | 0 ANNUAL ALL | 1 | Grid Receptor 27 | G27 |
| 648544.00 4076373.00 6485444076373 | 315777.04 | 233.7 | 240 | 0 ANNUAL ALL | | Grid Receptor 28 | G28 |
| 648544.00 4075973.00 6485444075973 | 175744.87 | 199.9 | 240 | 0 ANNUAL ALL | | Grid Receptor 29 | G29 |
| 647744.00 4078373.00 6477444078373 | 276504.38 | 144.4 | 144.4 | 0 ANNUAL ALL | * | Grid Receptor 3 | G3 |
| 648544.00 4075573.00 6485444075573 | 125658.88 | 195.5 | 227 | 0 ANNUAL ALL | | Grid Receptor 30 | G30 |
| 648944.00 4079173.00 6489444079173 | 106524.15 | 190.4 | 194 | 0 ANNUAL ALL | | Grid Receptor 31 | G30 |
| 648944.00 4078773.00 6489444078773 | 144394.99 | 165.4 | 165.4 | 0 ANNUAL ALL | 1 | Grid Receptor 32 | G32 |
| 648944.00 4078373.00 6489444078373 | 229048.29 | 159.6 | 259 | 0 ANNUAL ALL | | Grid Receptor 33 | G33 |
| 648944.00 4077973.00 6489444077973 | 421913.04 | 183.5 | 259 | 0 ANNUAL ALL | | Grid Receptor 34 | G34 |
| 648944.00 4077573.00 6489444077573 | 1145348.60 | 224 | 226 | 0 ANNUAL ALL | | Grid Receptor 35 | G35 |
| 648944.00 4076373.00 6489444076373 | 494432.08 | 205 | 240 | 0 ANNUAL ALL | 1 | Grid Receptor 38 | G38 |
| 648944.00 4075973.00 6489444075973 | 300671.77 | 208.8 | 220 | 0 ANNUAL ALL | | Grid Receptor 39 | G39 |
| 647744.00 4077973.00 6477444077973 | 256919.53 | 134.6 | 181 | 0 ANNUAL ALL | 1 | Grid Receptor 4 | G4 |
| 648944.00 4075573.00 6489444075573 | 194513.07 | 185.6 | 300 | 0 ANNUAL ALL | | Grid Receptor 40 | G40 |
| 649344.00 4079173.00 6493444079173 | 68159.16 | 187.4 | 801 | | 1 | | G41 |
| | | | | 0 ANNUAL ALL | 1 | Grid Receptor 41 | |
| 649344.00 4078773.00 6493444078773 649344.00 4078373.00 6493444078373 | 95456.17 155075.40 | 160.9 200.5 | 813 221 | 0 ANNUAL ALL | | Grid Receptor 42 | G42 G43 |
| | | | | 0 ANNUAL ALL | | Grid Receptor 43 | |
| 649344.00 4077973.00 6493444077973 | 336602.63 | 229 | 253 | 0 ANNUAL ALL | | Grid Receptor 44 | G44 |
| 649344.00 4077573.00 6493444077573 | 436947.42 | 253.3 | 259 | 0 ANNUAL ALL | | Grid Receptor 45 | G45 |
| 649344.00 4076373.00 6493444076373 | 2044008.32 | 220.2 | 263 | 0 ANNUAL ALL | | Grid Receptor 48 | G48 |
| 649344.00 4075973.00 6493444075973 | 776102.57 | 227.2 | 227.2 | 0 ANNUAL ALL | 1 | Grid Receptor 49 | G49 |
| 647744.00 4077573.00 6477444077573 | 210278.09 | 163.8 | 171 | 0 ANNUAL ALL | | Grid Receptor 5 | G5 |
| 649344.00 4075573.00 6493444075573 | 328416.26 | 205.5 | 300 | 0 ANNUAL ALL | | Grid Receptor 50 | G50 |
| 649744.00 4079173.00 6497444079173 | 61658.80 | 176.1 | 830 | 0 ANNUAL ALL | | Grid Receptor 51 | G51 |
| 649744.00 4078773.00 6497444078773 | 81350.24 | 195 | 813 | 0 ANNUAL ALL | 1 | Grid Receptor 52 | G52 |
| 649744.00 4078373.00 6497444078373 | 107549.71 | 196.1 | 227 | 0 ANNUAL ALL | | Grid Receptor 53 | G53 |
| 649744.00 4077973.00 6497444077973 | 167587.02 | 215.3 | 251 | 0 ANNUAL ALL | | Grid Receptor 54 | G54 |
| 649744.00 4077573.00 6497444077573 | 291812.35 | 221.6 | 259 | 0 ANNUAL ALL | | Grid Receptor 55 | G55 |
| 649744.00 4076373.00 6497444076373 | 6072467.30 | 211.7 | 266 | 0 ANNUAL ALL | 1 | Grid Receptor 58 | G58 |
| 649744.00 4075973.00 6497444075973 | 1678497.54 | 237.7 | 257 | 0 ANNUAL ALL | | Grid Receptor 59 | G59 |
| 647744.00 4077173.00 6477444077173 | 166199.08 | 158.4 | 171 | 0 ANNUAL ALL | | Grid Receptor 6 | G6 |
| 649744.00 4075573.00 6497444075573 | 582827.86 | 204.2 | 300 | 0 ANNUAL ALL | | Grid Receptor 60 | G60 |
| 650144.00 4079173.00 6501444079173 | 37668.35 | 173 | 830 | 0 ANNUAL ALL | | Grid Receptor 61 | G61 |
| 650144.00 4078773.00 6501444078773 | 43283.62 | 171 | 830 | 0 ANNUAL ALL | | Grid Receptor 62 | G62 |
| 650144.00 4078373.00 6501444078373 | 62269.31 | 204.6 | 813 | 0 ANNUAL ALL | 1 | Grid Receptor 63 | G63 |
| 650144.00 4077973.00 6501444077973 | 100818.79 | 216.5 | 290 | 0 ANNUAL ALL | | Grid Receptor 64 | G64 |
| 650144.00 4077573.00 6501444077573 | 89199.22 | 257.7 | 257.7 | 0 ANNUAL ALL | | Grid Receptor 65 | G65 |
| 650144.00 4076373.00 6501444076373 | 2271660.50 | 231.4 | 272 | 0 ANNUAL ALL | | Grid Receptor 68 | G68 |
| 650144.00 4075973.00 6501444075973 | 1289576.69 | 249.4 | 266 | 0 ANNUAL ALL | 1 | Grid Receptor 69 | G69 |
| 647744.00 4076773.00 6477444076773 | 124865.67 | 164.7 | 164.7 | 0 ANNUAL ALL | | Grid Receptor 7 | G7 |
| 650144.00 4075573.00 6501444075573 | 767516.60 | 216.4 | 300 | 0 ANNUAL ALL | | Grid Receptor 70 | G70 |
| 650544.00 4079173.00 6505444079173 | 27962.29 | 177 | 830 | 0 ANNUAL ALL | 1 | Grid Receptor 71 | G71 |
| 650544.00 4078773.00 6505444078773 | 36695.20 | 180.9 | 830 | 0 ANNUAL ALL | 1 | Grid Receptor 72 | G72 |

09/01/21

* AERMET (21112): 2020

14:22:32

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X Y X&Y | AVERAGE CONC | . , | ZHILL | ZFLAG AVE | GRP | NUM YRS NET ID | Description | ID |
|---|--------------|--------|--------|-----------|-----|----------------|-----------------------|-----|
| 650544.00 4078373.00 6505444078373 | 58497.77 | 196.6 | 830 | | | 1 | Grid Receptor 73 | G73 |
| 650544.00 4077973.00 6505444077973 | 97203.68 | 236.9 | 801 | 0 ANNUAL | | 1 | Grid Receptor 74 | G74 |
| 650544.00 4077573.00 6505444077573 | 48172.60 | 261.3 | 287 | 0 ANNUAL | | 1 | Grid Receptor 75 | G75 |
| 650544.00 4076373.00 6505444076373 | 462893.49 | 260.9 | 260.9 | 0 ANNUAL | | 1 | Grid Receptor 78 | G78 |
| 650544.00 4075973.00 6505444075973 | 845216.82 | 226.7 | 287 | 0 ANNUAL | | 1 | Grid Receptor 79 | G79 |
| 647744.00 4076373.00 6477444076373 | 94616.78 | 164 | 164 | 0 ANNUAL | | 1 | Grid Receptor 8 | G8 |
| 650544.00 4075573.00 6505444075573 | 393339.27 | 268.2 | 287 | 0 ANNUAL | | 1 | Grid Receptor 80 | G80 |
| 650944.00 4079173.00 6509444079173 | 29098.86 | 181.3 | 830 | 0 ANNUAL | | 1 | Grid Receptor 81 | G81 |
| 650944.00 4078773.00 6509444078773 | 38870.42 | 178.4 | 830 | 0 ANNUAL | | 1 | Grid Receptor 82 | G82 |
| 650944.00 4078373.00 6509444078373 | 54728.34 | 214.8 | 830 | 0 ANNUAL | | 1 | Grid Receptor 83 | G83 |
| 650944.00 4077973.00 6509444077973 | 49869.28 | 249.9 | 813 | 0 ANNUAL | | 1 | Grid Receptor 84 | G84 |
| 650944.00 4077573.00 6509444077573 | 22470.90 | 276.5 | 296 | | | 1 | Grid Receptor 85 | G85 |
| 650944.00 4077173.00 6509444077173 | 160409.08 | 225.6 | 296 | 0 ANNUAL | | 1 | Grid Receptor 86 | G86 |
| 650944.00 4077173.00 6509444077173 | 294504.24 | 219.8 | 267 | 0 ANNUAL | | 1 | Grid Receptor 87 | G87 |
| 650944.00 4076773.00 6509444076373 | 368170.91 | 209.2 | 273 | 0 ANNUAL | | 1 | Grid Receptor 88 | G88 |
| 650944.00 4076373.00 6509444076373 | 448286.81 | 216.6 | 287 | 0 ANNUAL | | 1 | Grid Receptor 89 | G89 |
| 630944.00 4073973.00 6309444073973 | 90365.19 | 160.7 | 160.7 | | | 1 | | G9 |
| | | | | 0 ANNUAL | | | Grid Receptor 9 | G90 |
| 650944.00 4075573.00 6509444075573 | 447395.42 | 243.2 | 289 | 0 ANNUAL | | 1 | Grid Receptor 90 | |
| 651344.00 4079173.00 6513444079173 | 31103.70 | 191 | 830 | | | 1 | Grid Receptor 91 | G91 |
| 651344.00 4078773.00 6513444078773 | 30176.49 | 181 | 830 | 0 ANNUAL | | 1 | Grid Receptor 92 | G92 |
| 651344.00 4078373.00 6513444078373 | 37035.03 | 214.3 | 830 | | | 1 | Grid Receptor 93 | G93 |
| 651344.00 4077973.00 6513444077973 | 31423.79 | 248.4 | 826 | | | 1 | Grid Receptor 94 | G94 |
| 651344.00 4077573.00 6513444077573 | 59035.04 | 213.2 | 826 | | | 1 | Grid Receptor 95 | G95 |
| 651344.00 4077173.00 6513444077173 | 122499.48 | 213.6 | 813 | 0 ANNUAL | | 1 | Grid Receptor 96 | G96 |
| 651344.00 4076773.00 6513444076773 | 174827.78 | 203.5 | 813 | 0 ANNUAL | | 1 | Grid Receptor 97 | G97 |
| 651344.00 4076373.00 6513444076373 | 230359.30 | 205.6 | 220 | 0 ANNUAL | | 1 | Grid Receptor 98 | G98 |
| 651344.00 4075973.00 6513444075973 | 258642.00 | 205.8 | 269 | 0 ANNUAL | | 1 | Grid Receptor 99 | G99 |
| 648584.24 4077523.07 648584.244077523.0 | | 183.61 | 227 | 0 ANNUAL | | 1 | Boundary Perimeter 1 | P1 |
| 649484.05 4077537.42 649484.054077537.4 | | 254.01 | 257 | 0 ANNUAL | | 1 | Boundary Perimeter 10 | P10 |
| 649584.03 4077538.59 649584.034077538.5 | | 235.3 | 259 | 0 ANNUAL | | 1 | Boundary Perimeter 11 | P11 |
| 649684.02 4077539.76 649684.024077539.7 | | 221.29 | 259 | 0 ANNUAL | | 1 | Boundary Perimeter 12 | P12 |
| 649784.00 4077540.93 6497844077540.93 | 290394.59 | 222.37 | 260 | 0 ANNUAL | | 1 | Boundary Perimeter 13 | P13 |
| 649883.99 4077542.10 649883.994077542.1 | | 233.6 | 259 | 0 ANNUAL | | 1 | Boundary Perimeter 14 | P14 |
| 649983.97 4077543.45 649983.974077543.4 | | 249.54 | 259 | 0 ANNUAL | | 1 | Boundary Perimeter 15 | P15 |
| 650083.94 4077545.65 650083.944077545.6 | | 258.89 | 258.89 | 0 ANNUAL | | 1 | Boundary Perimeter 16 | P16 |
| 650183.91 4077547.85 650183.914077547.8 | | 259.56 | 259.56 | 0 ANNUAL | | 1 | Boundary Perimeter 17 | P17 |
| 650283.87 4077550.05 650283.874077550.0 | | 256.77 | 266 | 0 ANNUAL | | 1 | Boundary Perimeter 18 | P18 |
| 650383.84 4077552.25 650383.844077552.2 | | 242.37 | 290 | 0 ANNUAL | | 1 | Boundary Perimeter 19 | P19 |
| 648684.22 4077524.90 648684.224077524.9 | | 197.16 | 227 | 0 ANNUAL | | 1 | Boundary Perimeter 2 | P2 |
| 650483.81 4077554.45 650483.814077554.4 | | 242.23 | 296 | | | 1 | Boundary Perimeter 20 | P20 |
| 650583.78 4077556.65 650583.784077556.6 | | 259.71 | 290 | 0 ANNUAL | | 1 | Boundary Perimeter 21 | P21 |
| 650683.75 4077558.85 650683.754077558.8 | | 257.58 | 296 | 0 ANNUAL | | 1 | Boundary Perimeter 22 | P22 |
| 650776.81 4077553.84 650776.814077553.8 | | 267.9 | 296 | | | 1 | Boundary Perimeter 23 | P23 |
| 650778.91 4077453.87 650778.914077453.8 | | 275.91 | 275.91 | 0 ANNUAL | | 1 | Boundary Perimeter 24 | P24 |
| 650781.00 4077353.90 6507814077353.9 | 49853.41 | 265.73 | 281 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 25 | P25 |

* AERMET (21112): 2020 14:22:32

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y X&Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG AVE | GRP | NUM YRS NET ID | Description | ID | |
|-----------|----------------------------------|--------------|--------|--------|-----------|-----|----------------|-----------------------|--------|----|
| 650783.10 | 4077253.93 650783.14077253.93 | 114391.52 | 251.08 | 282 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 26 | P26 | |
| 650785.19 | 4077153.96 650785.194077153.96 | 142085.80 | 252.83 | 281 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 27 | P27 | |
| 650787.29 | 4077053.99 650787.294077053.99 | 217250.41 | 246.1 | 269 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 28 | P28 | |
| 650789.38 | 3 4076954.02 650789.384076954.02 | 279507.74 | 241.37 | 269 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 29 | P29 | |
| 648784.19 | 4077526.73 648784.194077526.73 | 1022702.37 | 209.74 | 209.74 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 3 | Р3 | |
| 650791.48 | 3 4076854.05 650791.484076854.05 | 302595.22 | 246.79 | 251 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 30 | P30 | |
| 650793.57 | 4076754.08 650793.574076754.08 | 384899.32 | 228.75 | 264 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 31 | P31 | |
| 650754.39 | 4076683.11 650754.394076683.11 | 399550.44 | 217.76 | 271 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 32 | P32 | |
| 650660.22 | 2 4076649.50 650660.224076649.5 | 491362.27 | 221.2 | 273 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 33 | P33 | |
| 650561.43 | 4076649.99 650561.434076649.99 | 574357.45 | 220.83 | 273 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 34 | P34 | |
| 650462.72 | 4076665.95 650462.724076665.95 | 691815.49 | 223.42 | 273 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 35 | P35 | |
| 650364.01 | 4076681.90 650364.014076681.9 | 809953.89 | 222.46 | 263 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 36 | P36 | |
| 650264.24 | 4 4076683.08 650264.244076683.08 | 1018461.90 | 223.19 | 263 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 37 | P37 | |
| 650164.71 | 4076674.46 650164.714076674.46 | 1320038.36 | 222.1 | 249 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 38 | P38 | |
| 650065.80 | 4076659.74 650065.84076659.74 | 1771468.75 | 217.03 | 264 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 39 | P39 | |
| 648884.17 | 4077528.55 648884.174077528.55 | 1109389.86 | 214.25 | 227 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 4 | P4 | |
| 649980.44 | 4 4076626.71 649980.444076626.71 | 2775846.58 | 214.82 | 264 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 40 | P40 | |
| 649920.26 | 6 4076547.41 649920.264076547.41 | 4976007.06 | 214.91 | 264 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 41 | P41 | |
| 649852.19 | 4076474.41 649852.194076474.41 | 7537902.04 | 214.09 | 266 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 42 | P42 PN | ΜI |
| 649770.68 | 3 4076416.80 649770.684076416.8 | 7369550.24 | 211.53 | 266 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 43 | P43 | |
| 649680.48 | 3 4076374.63 649680.484076374.63 | 6611388.33 | 210.17 | 266 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 44 | P44 | |
| 649580.91 | 4076368.30 649580.914076368.3 | 5485226.33 | 208.52 | 264 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 45 | P45 | |
| | 3 4076383.73 649482.484076383.73 | | 207.5 | 264 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 46 | P46 | |
| 649391.59 | 4076425.15 649391.594076425.15 | 3592517.16 | 205.17 | 264 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 47 | P47 | |
| 649303.50 | 4076472.31 649303.54076472.31 | 2646017.86 | 202.16 | 264 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 48 | P48 | |
| 649226.19 | 4076535.29 649226.194076535.29 | 2046533.71 | 196.38 | 264 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 49 | P49 | |
| 648984.14 | 4 4077530.38 648984.144077530.38 | 1194023.96 | 221.41 | 221.41 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 5 | P5 | |
| 649156.20 | 4076605.17 649156.24076605.17 | 1755477.75 | 195.87 | 264 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 50 | P50 | |
| 649068.25 | 5 4076652.76 649068.254076652.76 | 1292697.87 | 196.32 | 264 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 51 | P51 | |
| 648986.70 | 4076710.52 648986.74076710.52 | 1055709.58 | 192.42 | 263 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 52 | P52 | |
| 648936.53 | 3 4076759.27 648936.534076759.27 | 972068.94 | 192.46 | 250 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 53 | P53 | |
| 648868.58 | 3 4076832.50 648868.584076832.5 | 889135.85 | 191.63 | 250 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 54 | P54 | |
| 648797.23 | 3 4076902.21 648797.234076902.21 | 802613.50 | 186.32 | 250 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 55 | P55 | |
| 648710.56 | 6 4076951.69 648710.564076951.69 | 677940.30 | 179.81 | 250 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 56 | P56 | |
| 648620.79 | 4076995.72 648620.794076995.72 | 573827.29 | 176.23 | 250 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 57 | P57 | |
| 648607.19 | 9 4077051.27 648607.194077051.27 | 591454.51 | 175.02 | 250 | 0 ANNUAL | | 1 | Boundary Perimeter 58 | P58 | |
| 648680.07 | 7 4077119.49 648680.074077119.49 | 777444.94 | 180.62 | 250 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 59 | P59 | |
| 649084.12 | 2 4077532.21 649084.124077532.21 | 1048380.04 | 216.54 | 259 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 6 | P6 | |
| 648759.24 | 4 4077180.33 648759.244077180.33 | 1027566.57 | 183.47 | 259 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 60 | P60 | |
| 648791.44 | 4 4077262.37 648791.444077262.37 | 1158356.77 | 202.88 | 245 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 61 | P61 | |
| 648788.45 | 5 4077362.32 648788.454077362.32 | | 178.21 | 259 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 62 | P62 | |
| 648691.25 | 5 4077361.04 648691.254077361.04 | 930735.48 | 176.25 | 259 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 63 | P63 | |
| 648591.35 | 5 4077356.85 648591.354077356.85 | 762251.34 | 176 | 259 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 64 | P64 | |
| 648525.69 | 9 4077371.40 648525.694077371.4 | 669026.10 | 175.24 | 245 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 65 | P65 | |
| 648586.93 | 3 4077430.21 648586.934077430.21 | 770838.50 | 175.13 | 259 | 0 ANNUAL | ALL | 1 | Boundary Perimeter 66 | P66 | |

09/01/21

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* AERMET (21112): 2020

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| V V V V V V V V V V V V V V V V V V V | | | 711111 - 2 | ELAC AVE CER | NILIM VIDENIET ID | Description | ID - |
|--|------------|--------|------------|------------------------------|-------------------|----------------------|----------|
| | | | | FLAG AVE GRP | NUM YRS NET ID | | ID P7 |
| 49184.09 4077533.91 649184.094077533.91 | 1114907.77 | 230.71 | 259 | 0 ANNUAL ALL | I | Boundary Perimeter 7 | |
| 49284.08 4077535.08 649284.084077535.08 | 710626.78 | 248.08 | 259 | 0 ANNUAL ALL | 1 | Boundary Perimeter 8 | P8 |
| 49384.06 4077536.25 649384.064077536.25 | 312794.92 | 258.43 | 258.43 | 0 ANNUAL ALL | 1 | Boundary Perimeter 9 | P9 |
| 45930.00 4077982.60 6459304077982.6 | 55482.40 | 127.38 | 127.38 | 0 ANNUAL ALL | <u>l</u> | New Development | RP_G1 |
| 46030.00 4077982.60 6460304077982.6 | 58144.24 | 131.21 | 131.21 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 46130.00 4077982.60 6461304077982.6 | 61184.81 | 135.89 | 135.89 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 46230.00 4077982.60 6462304077982.6 | 64726.26 | 139.18 | 139.18 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 46330.00 4077982.60 6463304077982.6 | 68979.63 | 140.76 | 140.76 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 46430.00 4077982.60 6464304077982.6 | 74238.93 | 143.89 | 143.89 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 46530.00 4077982.60 6465304077982.6 | 80617.10 | 145.22 | 145.22 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 46630.00 4077982.60 6466304077982.6 | 88121.91 | 147.21 | 147.21 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 46730.00 4077982.60 6467304077982.6 | 96476.25 | 148.3 | 160 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 45930.00 4078082.60 6459304078082.6 | 55468.93 | 127.58 | 127.58 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 46030.00 4078082.60 6460304078082.6 | 58656.28 | 130.56 | 130.56 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 46130.00 4078082.60 6461304078082.6 | 62499.47 | 134.35 | 134.35 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 46230.00 4078082.60 6462304078082.6 | 67198.89 | 139.22 | 139.22 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 46330.00 4078082.60 6463304078082.6 | 72876.71 | 144.65 | 144.65 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 46430.00 4078082.60 6464304078082.6 | 79323.33 | 142.28 | 142.28 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46530.00 4078082.60 6465304078082.6 | 86584.89 | 146.76 | 146.76 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46630.00 4078082.60 6466304078082.6 | 94273.50 | 150.64 | 150.64 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46730.00 4078082.60 6467304078082.6 | 102322.55 | 155.4 | 157 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 45930.00 4078182.60 6459304078182.6 | 57056.90 | 127.22 | 127.22 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46030.00 4078182.60 6460304078182.6 | 61232.15 | 130.56 | 130.56 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46130.00 4078182.60 6461304078182.6 | 66193.10 | 133.89 | 133.89 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46230.00 4078182.60 6462304078182.6 | 71946.02 | 140.45 | 140.45 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46330.00 4078182.60 6463304078182.6 | 78300.09 | 146.94 | 146.94 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46430.00 4078182.60 6464304078182.6 | 84682.82 | 140.23 | 140.23 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46530.00 4078182.60 6465304078182.6 | 91538.50 | 147.25 | 147.25 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46630.00 4078182.60 6466304078182.6 | 98630.26 | 151.56 | 151.56 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46730.00 4078182.60 6467304078182.6 | 106370.63 | 157.78 | 166 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 45930.00 4078282.60 6459304078282.6 | 60526.12 | 126.06 | 126.06 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46030.00 4078282.60 6460304078282.6 | 65517.47 | 129.56 | 129.56 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46130.00 4078282.60 6461304078282.6 | 70971.75 | 132.89 | 132.89 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46230.00 4078282.60 6462304078282.6 | 76742.31 | 139.24 | 139.24 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46330.00 4078282.60 6463304078282.6 | 82601.30 | 142.68 | 142.68 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46430.00 4078282.60 6464304078282.6 46430.00 4078282.60 6464304078282.6 | 88455.64 | 140.02 | 140.02 | 0 ANNUAL ALL | 1 | New Development | RP G1 |
| 46530.00 4078282.60 6464304078282.6 46530.00 4078282.60 6465304078282.6 | 94844.91 | 140.02 | 140.02 | 0 ANNUAL ALL 0 ANNUAL ALL | <u> </u> | | RP_G1 |
| | | | | | 1 | New Development | |
| 46630.00 4078282.60 6466304078282.6 | 101666.99 | 151.56 | 151.56 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 46730.00 4078282.60 6467304078282.6 | 109086.41 | 156.78 | 166 | 0 ANNUAL ALL | 1 | New Development | RP_G1 |
| 48659.32 4077241.20 648659.324077241.2 | 852336.31 | 205.79 | 205.79 | 0 ANNUAL ALL | 1 | House 1 | RP_H1 |
| 48071.24 4076116.26 648071.244076116.26 | 122704.69 | 169.6 | 240 | 0 ANNUAL ALL | 1 | House 10 | RP_H10 |
| 48247.37 4076278.08 648247.374076278.08 | 153814.51 | 184.55 | 240 | 0 ANNUAL ALL | 1 | House 11 | RP_H11 |
| 48027.19 4076255.14 648027.194076255.14 | 120193.71 | 169.38 | 240 | 0 ANNUAL ALL | 1 | House 12 | RP_H12 |
| 48065.77 4076359.39 648065.774076359.39 | 131978.57 | 173.83 | 240 | 0 ANNUAL ALL | 1 | House 13 | RP_H13 |
| 48138.68 4076399.80 648138.684076399.8 | 146038.93 | 178.22 | 240 | 0 ANNUAL ALL | 1 | House 14 | RP_H14 |

09/01/21

09/01/21

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14:22:32

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X Y X&Y | | | 7HII I | ZFLAG AVE | GRP | NUM YRS NET ID | Description | ID |
|--|-----------|--------|--------|-----------|-----|-------------------|-------------|--------------|
| 648254.71 4076411.38 648254.714076411.38 | | 191.28 | 240 | 0 ANNUAL | | NUMET INSTRUCT ID | House 15 | RP H15 |
| 647877.81 4076365.37 647877.814076365.37 | | 165.39 | 240 | 0 ANNUAL | | 1 | House 16 | RP H16 |
| 647520.00 4076206.00 6475204076206 | 74401.22 | 159 | 159 | 0 ANNUAL | | 1 | House 17 | RP H17 |
| 647921.00 4076247.13 6479214076247.13 | 107924.67 | 164 | 240 | 0 ANNUAL | | 1 | House 18 | RP H18 |
| 647708.78 4076351.65 647708.784076351.65 | | 163.52 | 163.52 | 0 ANNUAL | | 1 | House 19 | RP H19 |
| 648371.71 4075470.41 648371.714075470.41 | | 173.69 | 227 | 0 ANNUAL | | 1 | House 2 | RP H2 |
| 647703.58 4076251.07 647703.584076251.07 | | 162.17 | 162.17 | 0 ANNUAL | | 1 | House 20 | RP H20 |
| 647718.77 4076103.98 647718.774076103.98 | | 159.35 | 159.35 | 0 ANNUAL | | 1 | House 21 | RP H21 |
| 647843.32 4076124.94 647843.324076124.94 | | 163 | 234 | 0 ANNUAL | | 1 | House 22 | RP H22 |
| 647842.26 4076500.39 647842.264076500.39 | | 167.93 | 167.93 | 0 ANNUAL | | 1 | House 23 | RP H23 |
| 647727.75 4076644.22 647727.754076644.22 | | 164.15 | 164.15 | 0 ANNUAL | | 1 | House 24 | RP H24 |
| 647823.91 4076643.73 647823.914076643.73 | | 168.29 | 168.29 | 0 ANNUAL | | 1 | House 25 | RP H25 |
| 647530.00 4076497.00 6475304076497 | 81720.70 | 159.56 | 159.56 | 0 ANNUAL | | 1 | House 26 | RP H26 |
| 647810.11 4076853.73 647810.114076853.73 | | 162.9 | 162.9 | 0 ANNUAL | | 1 | House 27 | RP H27 |
| 647697.48 4076989.26 647697.484076989.26 | | 161.42 | 162 | 0 ANNUAL | | 1 | House 28 | RP H28 |
| 648225.50 4076181.52 648225.54076181.52 | 145215.73 | 183.22 | 240 | 0 ANNUAL | | 1 | House 29 | RP H29 |
| 647678.23 4075969.18 647678.234075969.18 | | 159.5 | 159.5 | 0 ANNUAL | | 1 | House 3 | RP H3 |
| 645876.32 4077487.41 645876.324077487.41 | | 127.13 | 142 | 0 ANNUAL | | 1 | House 30 | RP H30 |
| 650902.00 4076062.00 6509024076062 | 459290.86 | 215.24 | 287 | 0 ANNUAL | | <u> </u> | House 31 | RP H31 |
| | 174975.95 | 205.5 | | | | 1 | House 32 | RP H32 |
| 651490.00 4076597.00 6514904076597 | 127119.18 | | 813 | 0 ANNUAL | | <u> </u> | House 32 | _ |
| 651565.00 4077067.00 6515654077067 | | 213.93 | 813 | 0 ANNUAL | | - | | RP_H33 |
| 648672.77 4075306.77 648672.774075306.77 | | 225.91 | 227 | 0 ANNUAL | | 1 | House 34 | RP_H34 |
| 648383.60 4075469.08 648383.64075469.08 | 99731.45 | 174.44 | 227 | 0 ANNUAL | | 1 | House 35 | RP_H35 |
| 646379.37 4077232.58 646379.374077232.58 | | 146 | 146 | 0 ANNUAL | | 1 | House 36 | RP_H36 |
| 651849.72 4075865.15 651849.724075865.15 | | 201.97 | 333 | 0 ANNUAL | | 1 | House 37 | RP_H37 |
| 652045.49 4076210.24 652045.494076210.24 | | 196.88 | 813 | 0 ANNUAL | | 1 | House 38 | RP_H38 |
| 652255.69 4076390.67 652255.694076390.67 | | 197.06 | 813 | 0 ANNUAL | | 1 | House 39 | RP_H39 |
| 647815.25 4075985.43 647815.254075985.43 | | 162.04 | 162.04 | 0 ANNUAL | | 1 | House 4 | RP_H4 |
| 646853.73 4077372.88 646853.734077372.88 | | 145.99 | 145.99 | 0 ANNUAL | | 1 | House 40 | RP_H40 |
| 647050.21 4077359.57 647050.214077359.57 | | 145 | 145 | 0 ANNUAL | | 1 | House 41 | RP_H41 |
| 647286.42 4077474.40 647286.424077474.4 | 124082.49 | 149.68 | 153 | 0 ANNUAL | | 1 | House 42 | RP_H42 |
| 647359.05 4077339.84 647359.054077339.84 | | 154.45 | 159 | 0 ANNUAL | | 1 | House 43 | RP_H43 |
| 647490.41 4077328.53 647490.414077328.53 | | 162.28 | 162.28 | 0 ANNUAL | | 1 | House 44 | RP_H44 |
| 647522.17 4077251.76 647522.174077251.76 | | 164.3 | 164.3 | 0 ANNUAL | | 1 | House 45 | RP_H45 |
| 647517.82 4077138.85 647517.824077138.85 | 130565.88 | 164.01 | 164.01 | 0 ANNUAL | ALL | 1 | House 46 | RP_H46 |
| 646819.01 4077258.40 646819.014077258.4 | 76816.71 | 151.53 | 152 | 0 ANNUAL | | 1 | House 47 | RP_H47 |
| 646778.72 4077127.63 646778.724077127.63 | 68940.17 | 158.51 | 158.51 | 0 ANNUAL | ALL | 1 | House 48 | RP_H48 |
| 646987.26 4077213.10 646987.264077213.1 | 85182.95 | 146.44 | 146.44 | 0 ANNUAL | ALL | 1 | House 49 | RP_H49 |
| 647898.20 4076032.80 647898.24076032.8 | 103361.38 | 163.83 | 237 | 0 ANNUAL | ALL | 1 | House 5 | RP_H5 |
| 647241.77 4077226.51 647241.774077226.51 | 106789.16 | 154.85 | 154.85 | 0 ANNUAL | ALL | 1 | House 50 | RP_H50 |
| 646773.05 4077063.03 646773.054077063.03 | 67554.60 | 159 | 159 | 0 ANNUAL | ALL | 1 | House 51 | RP_H51 |
| 647104.37 4077117.93 647104.374077117.93 | 87902.36 | 148.99 | 148.99 | 0 ANNUAL | ALL | 1 | House 52 | RP_H52 |
| 647291.90 4077123.08 647291.94077123.08 | 104319.96 | 158.62 | 158.62 | 0 ANNUAL | ALL | 1 | House 53 | RP_H53 |
| 646765.24 4076977.94 646765.244076977.94 | 65742.27 | 158.67 | 158.67 | 0 ANNUAL | ALL | 1 | House 54 | RP_H54 |
| 646995.65 4076983.80 646995.654076983.8 | 76001.88 | 152.34 | 152.34 | 0 ANNUAL | ALL | 1 | House 55 | RP_H55 |
| | | | | | | | | _ |

* AERMET (21112): 2020

14:22:32

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
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| * X | Y X&Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------------------------------|--------------|--------|--------|-----------|-----|----------------|-------------|--------|
| 647317.21 | 4077030.98 647317.214077030.9 | 8 99718.28 | 160.22 | 160.22 | 0 ANNUAL | ALL | 1 | House 56 | RP_H56 |
| 647398.39 | 4077013.06 647398.394077013.0 | 6 105856.41 | 161.26 | 161.26 | 0 ANNUAL | ALL | 1 | House 57 | RP_H57 |
| 646978.93 | 4076903.58 646978.934076903.5 | 8 72224.53 | 156.81 | 156.81 | 0 ANNUAL | ALL | 1 | House 58 | RP_H58 |
| 647015.19 | 4076807.16 647015.194076807.1 | 6 69903.09 | 156.21 | 156.21 | 0 ANNUAL | ALL | 1 | House 59 | RP_H59 |
| 648045.44 | 4076017.78 648045.444076017.7 | 8 113167.88 | 168.26 | 240 | 0 ANNUAL | ALL | 1 | House 6 | RP_H6 |
| 647163.96 | 4076802.21 647163.964076802.2 | 1 77542.84 | 154.38 | 154.38 | 0 ANNUAL | ALL | 1 | House 60 | RP_H60 |
| 647310.58 | 3 4076940.38 647310.584076940.3 | 8 93263.10 | 162.49 | 162.49 | 0 ANNUAL | ALL | 1 | House 61 | RP_H61 |
| 647298.09 | 4076805.15 647298.094076805.1 | 5 85961.15 | 158 | 158 | 0 ANNUAL | ALL | 1 | House 62 | RP_H62 |
| 647446.56 | 6 4076899.85 647446.564076899.8 | 5 101309.61 | 159.45 | 159.45 | 0 ANNUAL | ALL | 1 | House 63 | RP_H63 |
| 647464.49 | 4076780.74 647464.494076780.7 | 4 97361.36 | 159.32 | 159.32 | 0 ANNUAL | ALL | 1 | House 64 | RP_H64 |
| 647512.00 | 4076536.00 6475124076536 | 83436.18 | 159 | 159 | 0 ANNUAL | ALL | 1 | House 65 | RP_H65 |
| 651131.00 | 4078767.00 6511314078767 | 35894.61 | 179.58 | 830 | 0 ANNUAL | ALL | 1 | House 66 | RP_H66 |
| 647131.00 | 4077336.00 6471314077336 | 103218.53 | 146.77 | 146.77 | 0 ANNUAL | ALL | 1 | House 67 | RP_H67 |
| 646798.00 | 4076740.00 6467984076740 | 58135.25 | 156.07 | 156.07 | 0 ANNUAL | ALL | 1 | House 68 | RP_H68 |
| 646900.00 | 4076802.00 6469004076802 | 64453.69 | 159 | 159 | 0 ANNUAL | ALL | 1 | House 69 | RP_H69 |
| 648126.33 | 4075955.37 648126.334075955.3 | 7 112520.02 | 171.51 | 240 | 0 ANNUAL | ALL | 1 | House 7 | RP_H7 |
| 647317.00 | 4076662.00 6473174076662 | 81078.16 | 159.9 | 159.9 | 0 ANNUAL | ALL | 1 | House 70 | RP_H70 |
| 648249.26 | 4075969.84 648249.264075969.8 | 4 127019.48 | 183.42 | 240 | 0 ANNUAL | ALL | 1 | House 8 | RP_H8 |
| 648218.58 | 3 4076108.95 648218.584076108.9 | 5 139415.77 | 182.28 | 240 | 0 ANNUAL | ALL | 1 | House 9 | RP_H9 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in $\mu g/m3$.

08/30/21

* AERMET (21112): 2018

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
|------------|---------|--------------|--------|--------|-------|--------|-----|---------|--------|---------------------------------|----------|----------|
| 645996 | 4078698 | 0.00055 | 220.83 | 273 | 1.5 | ANNUAL | ALL | 1 | | AQ Monitoring Station | AQ_ST_1 | |
| 643903.65 | 4077719 | 0.00039 | 159.45 | 159.45 | 1.5 | ANNUAL | ALL | 1 | | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642056.782 | 4079416 | 0.00043 | 164.3 | 164.3 | 1.5 | ANNUAL | ALL | 1 | | Dunne Park | CR_PK_1 | |
| 642179.095 | 4079950 | 0.00042 | 146 | 146 | 1.5 | ANNUAL | ALL | 1 | | Vista Park Hill Park | CR_PK_2 | |
| 644733.142 | 4078753 | 0.00051 | 162.9 | 162.9 | 1.5 | ANNUAL | ALL | 1 | | Las Brisas Park | CR_PK_3 | |
| 645608.808 | 4078854 | 0.00052 | 156.78 | 166 | 1.5 | ANNUAL | ALL | 1 | | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238.054 | 4078807 | 0.0005 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | | Veterans Memorial Park | CR_PK_5 | |
| 645311.476 | 4076559 | 0.00025 | 213.93 | 813 | 1.5 | ANNUAL | ALL | 1 | | Park 6 | CR_PK_6 | |
| 649581.689 | | 0.00026 | 146.76 | 146.76 | 1.5 | ANNUAL | ALL | 1 | | Park 7 | CR_PK_7 | |
| 645145.11 | 4077181 | 0.00036 | 144.65 | 144.65 | 1.5 | ANNUAL | ALL | 1 | | Cerra Vista Elem School | CR_SC_1 | |
| 642904.712 | 4079955 | 0.0004 | 147.25 | 147.25 | 1.5 | ANNUAL | ALL | 1 | | San Andreas Continuation | CR_SC_10 | |
| 645850.678 | 4074015 | 0.00007 | 149.68 | 153 | 1.5 | ANNUAL | ALL | 1 | | SouthSide School | CR_SC_11 | |
| 642105.679 | 4078176 | 0.00035 | 142.28 | 142.28 | 1.5 | ANNUAL | ALL | 1 | | School 12 | CR_SC_12 | |
| 646058.93 | 4078443 | 0.00057 | 127.22 | 127.22 | 1.5 | ANNUAL | ALL | 1 | | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.00013 | 223.42 | 273 | 1.5 | ANNUAL | ALL | 1 | | Future School | CR_SC_14 | School 2 |
| 644109.6 | 4078389 | 0.0005 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | | Sunnyslope Elem School | CR_SC_2 | |
| 643920.12 | 4077304 | 0.0003 | 158.62 | 158.62 | 1.5 | ANNUAL | ALL | 1 | | Hollister Montessori School | CR_SC_3 | |
| 642961.07 | 4078621 | 0.00045 | 162.28 | 162.28 | 1.5 | ANNUAL | ALL | 1 | | Rancho San Justo Middle School | CR_SC_4 | |
| 643980.02 | 4079743 | 0.00043 | 174.44 | 227 | 1.5 | ANNUAL | ALL | 1 | | Marguerite Maze Middle School | CR_SC_5 | |
| 641630.17 | 4079153 | 0.00041 | 169.05 | 169.05 | 1.5 | ANNUAL | ALL | 1 | | Hollister Prep Schoo | CR_SC_6 | |
| 643350.03 | 4077181 | 0.00027 | 159.35 | 159.35 | 1.5 | ANNUAL | ALL | 1 | | Ladd Lane Elementary School | CR_SC_7 | |
| 644002.96 | 4080079 | 0.00042 | 163.13 | 240 | 1.5 | ANNUAL | ALL | 1 | | Gabilan Hills Elementary School | CR_SC_8 | |
| 642244.858 | | 0.00039 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | | San Benito High School | CR_SC_9 | |
| 642083.447 | 4079794 | 0.00042 | 158.67 | 158.67 | 1.5 | ANNUAL | ALL | 1 | | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.00039 | 159.32 | 159.32 | 1.5 | ANNUAL | ALL | 1 | | Workplace | CR_WP_1 | MEIW |
| 648949 | 4077938 | 0.00031 | 222.46 | 263 | 1.5 | ANNUAL | ALL | 1 | | Nearest Workplace | CR_WP_2 | |
| 647744 | 4079173 | 0.00044 | 216.5 | 290 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.00013 | 249.9 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.00274 | 181 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.0003 | 257.7 | 257.7 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.00042 | 221.6 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 12 | G12 | |
| 648144 | 4078373 | 0.00059 | 253.3 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 13 | G13 | |
| 648144 | 4077973 | 0.00081 | 166.6 | 179 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 14 | G14 | |
| 648144 | 4077573 | 0.00095 | 146.33 | 153 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 15 | G15 | |
| 648144 | 4077173 | 0.00124 | 85 | 85 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 16 | G16 | |
| 648144 | 4076773 | 0.00106 | 98.2 | 98.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 17 | G17 | |
| 648144 | 4076373 | 0.00034 | 222.37 | 260 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 18 | G18 | |
| 648144 | 4075973 | 0.00019 | 248.4 | 826 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 19 | G19 | |
| 647744 | 4078773 | 0.00057 | 215.3 | 251 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 2 | G2 | |

08/30/21

* AERMET (21112): 2018

07:51:12

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | 3(171,1 13.3),3(171,1 0.2) | | | | | | | | | |
|--------|---------|----------------------------|--------|--------|-----|--------|-----|---------|--------|------------------|-----|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | | AVE | GRP | NUM YRS | NET ID | Description | ID |
| 648144 | 4075573 | 0.00015 | 276.5 | 296 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.0002 | 231.4 | 272 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.00025 | 211.7 | 266 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.00035 | 220.2 | 263 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.00061 | 175.4 | 175.4 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.00105 | 189.45 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.00146 | 98.22 | 98.22 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.00231 | 101.23 | 101.23 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.00061 | 233.6 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.00024 | 213.2 | 826 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.00069 | 229 | 253 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.00018 | 225.6 | 296 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.00016 | 249.4 | 266 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.00018 | 237.7 | 257 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.00021 | 227.2 | 227.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.0003 | 177.1 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.00057 | 155.2 | 155.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.00066 | 249.54 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.00033 | 213.6 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.00075 | 158.3 | 181 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00021 | 219.8 | 267 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00015 | 164.7 | 164.7 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.00016 | 158.4 | 171 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.0002 | 163.8 | 171 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 0.00027 | 178 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.00105 | 160 | 160 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.00436 | 123.85 | 123.85 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.00092 | 203.5 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.00089 | 87.58 | 127 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.00043 | 209.2 | 273 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.00016 | 242.37 | 290 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00018 | 204.2 | 300 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00019 | 205.5 | 300 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.00023 | 173 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.00029 | 252.9 | 252.9 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.00932 | 133 | 133 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.0067 | 205.6 | 220 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.00099 | 105.68 | 105.68 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.00135 | 216.6 | 287 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 60 | G60 |
| - | | | | | | | | | | • | |

08/30/21

* AERMET (21112): 2018

07:51:12

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| TOIL | | 3(174,1 13.3),3(174,1 0.2) | ,=11,110,=11,1 | 10,211,1010,2 | 221,210) | | | | | |
|-----------|---------|----------------------------|----------------|---------------|----------|--------|-----|------------|----------------------|-----|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | | AVE | GRP | NUM YRS NE | | ID |
| 650144 | 4079173 | 0.00014 | 197.16 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.00015 | 173 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00018 | 176.1 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.00021 | 145.4 | 145.4 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.00095 | 85.12 | 85.12 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.00406 | 86 | 86 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.00682 | 205.8 | 269 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.00068 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.00318 | 160.7 | 160.7 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00014 | 95.25 | 95.25 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00015 | 171 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00018 | 195 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.00032 | 117.99 | 117.99 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.00145 | 165.9 | 165.9 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.00518 | 123 | 313 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.00265 | 183.61 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.0003 | 221.29 | 259 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 0.00689 | 243.2 | 289 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.00014 | 134.61 | 134.61 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00016 | 204.6 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00021 | 106.44 | 106.44 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.00069 | 160.9 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.00191 | 159.6 | 159.6 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.00076 | 87 | 87 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.00149 | 92 | 92 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.00173 | 91 | 91 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.0017 | 254.01 | 257 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.00018 | 214.3 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.00269 | 191 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00015 | 159.96 | 318 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00018 | 112.86 | 112.86 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.00026 | 196.1 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.00063 | 200.5 | 221 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.00043 | 146.2 | 146.2 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.00079 | 90.17 | 90.17 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.00122 | 88 | 88 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.00135 | 128.52 | 128.52 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.00133 | 235.3 | 259 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 99 | G99 |
| 648584.24 | 4077523 | 0.0011 | 222.1 | 249 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 1 | P1 |
| | | | | | | _ | | | J | |

08/30/21

* AERMET (21112): 2018

07:51:12

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID I | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------|----------|--------------------|-----|
| 649484.05 | 4077537 | 0.00101 | 207.5 | 264 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 10 | P10 |
| 649584.03 | 4077539 | 0.00039 | 257.58 | 296 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 11 | P11 |
| 649684.02 | 4077540 | 0.0003 | 205.17 | 264 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00029 | 202.16 | 264 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 13 | P13 |
| 649883.99 | 4077542 | 0.00034 | 196.38 | 264 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 14 | P14 |
| 649983.97 | 4077543 | 0.00066 | 221.41 | 221.41 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 15 | P15 |
| 650083.94 | 4077546 | 0.00101 | 195.87 | 264 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 16 | P16 |
| 650183.91 | 4077548 | 0.00114 | 196.32 | 264 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 17 | P17 |
| 650283.87 | 4077550 | 0.0011 | 192.42 | 263 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 18 | P18 |
| 650383.84 | 4077552 | 0.00058 | 192.46 | 250 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 19 | P19 |
| 648684.22 | 4077525 | 0.00107 | 217.03 | 264 | 1.5 | ANNUAL | ALL | 1 | | lary Perimeter 2 | P2 |
| 650483.81 | 4077554 | 0.0006 | 191.63 | 250 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 20 | P20 |
| 650583.78 | 4077557 | 0.00136 | 186.32 | 250 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 21 | P21 |
| 650683.75 | 4077559 | 0.0012 | 267.9 | 296 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 22 | P22 |
| 650776.81 | 4077554 | 0.0017 | 179.81 | 250 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 23 | P23 |
| 650778.91 | 4077454 | 0.00213 | 176.23 | 250 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.00188 | 175.02 | 250 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 25 | P25 |
| 650783.1 | 4077254 | 0.00118 | 180.62 | 250 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 26 | P26 |
| 650785.19 | 4077154 | 0.00139 | 216.54 | 259 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 27 | P27 |
| 650787.29 | 4077054 | 0.00136 | 183.47 | 259 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 28 | P28 |
| 650789.38 | 4076954 | 0.00153 | 202.88 | 245 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 29 | P29 |
| 648784.19 | 4077527 | 0.00096 | 214.25 | 227 | 1.5 | ANNUAL | ALL | 1 | Bound | lary Perimeter 3 | P3 |
| 650791.48 | 4076854 | 0.00215 | 178.21 | 259 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 30 | P30 |
| 650793.57 | 4076754 | 0.00173 | 176.25 | 259 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 31 | P31 |
| 650754.39 | 4076683 | 0.00178 | 176 | 259 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 32 | P32 |
| 650660.22 | 4076650 | 0.00196 | 275.91 | 275.91 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 33 | P33 |
| 650561.43 | 4076650 | 0.00212 | 175.24 | 245 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 34 | P34 |
| 650462.72 | 4076666 | 0.00229 | 175.13 | 259 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 35 | P35 |
| 650364.01 | 4076682 | 0.00244 | 230.71 | 259 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 36 | P36 |
| 650264.24 | 4076683 | 0.00267 | 248.08 | 259 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 37 | P37 |
| 650164.71 | 4076674 | 0.00298 | 258.43 | 258.43 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 38 | P38 |
| 650065.8 | 4076660 | 0.00341 | 127.38 | 127.38 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 39 | P39 |
| 648884.17 | 4077529 | 0.00073 | 214.82 | 264 | 1.5 | ANNUAL | ALL | 1 | Bound | lary Perimeter 4 | P4 |
| 649980.44 | 4076627 | 0.00411 | 131.21 | 131.21 | 1.5 | ANNUAL | ALL | 1 | | ary Perimeter 40 | P40 |
| 649920.26 | 4076547 | 0.00523 | 135.89 | 135.89 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 41 | P41 |
| 649852.19 | 4076474 | 0.0064 | 139.18 | 139.18 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 42 | P42 |
| 649770.68 | 4076417 | 0.00808 | 140.76 | 140.76 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 43 | P43 |
| 649680.48 | 4076375 | 0.01163 | 265.73 | 281 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 44 | P44 |
| 649580.91 | 4076368 | 0.01704 | 143.89 | 143.89 | 1.5 | ANNUAL | ALL | 1 | Bound | ary Perimeter 45 | P45 |

08/30/21

* AERMET (21112): 2018

07:51:12

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 64984.84 4076.894 0.02024 | | MA1: (A,1X | ,3(1X,F13.5),3(1X,F8.2) |),2X,A0,2X,F | 48,2 <i>X</i> ,18.8,2 | 2X,A8) | | | | | | | _ |
|--|-----------|------------|-------------------------|--------------|-----------------------|--------|--------|-----|-----------|--------|-----------------------|-------|----|
| 64939.5 4076425 0.01257 147.21 147.21 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | X | | | | | | AVE | GRP | NUM YRS 1 | NET ID | Description | | |
| 64930.5. 4076472 | 649482.48 | 4076384 | 0.02024 | 145.22 | 145.22 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 46 | P46 | PN |
| 64926.19 4076535 0.00065 127.58 127.58 1.5 ANNUAL ALL 1 Boundary Perimeter 49 P49 | 649391.59 | 4076425 | 0.01257 | 147.21 | 147.21 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 47 | P47 | |
| 64898.4.1 4077530 0.00055 214.91 264 1.5 ANUAL ALL 1 Boundary Perimeter 5 P5 649156.2 4076605 0.00291 130.56 130.56 1.5 ANUAL ALL 1 Boundary Perimeter 50 P50 649068.25 4076633 0.00385 134.35 134.35 1.5 ANUAL ALL 1 Boundary Perimeter 51 P51 64896.8 4076633 0.00385 251.08 282 1.5 ANUAL ALL 1 Boundary Perimeter 52 P52 648936.53 407659 0.00315 252.83 281 1.5 ANUAL ALL 1 Boundary Perimeter 53 P53 648868.58 4076833 0.00262 246.1 269 1.5 ANUAL ALL 1 Boundary Perimeter 53 P53 648868.58 4076833 0.00262 246.1 269 1.5 ANUAL ALL 1 Boundary Perimeter 54 P54 648797.23 4076902 0.00217 177 830 1.5 ANUAL ALL 1 Boundary Perimeter 55 P55 648710.56 4076952 0.0019 180.9 830 1.5 ANUAL ALL 1 Boundary Perimeter 56 P56 64850.07 4077051 0.00159 236.9 801 1.5 ANUAL ALL 1 Boundary Perimeter 57 P57 64860.07 4077051 0.00159 236.9 801 1.5 ANUAL ALL 1 Boundary Perimeter 58 P58 648680.07 407719 0.00158 261.3 287 1.5 ANUAL ALL 1 Boundary Perimeter 58 P58 648680.07 407719 0.00158 261.3 287 1.5 ANUAL ALL 1 Boundary Perimeter 59 P59 648791.44 4077520 0.0043 214.09 266 1.5 ANUAL ALL 1 Boundary Perimeter 6 P6 648791.44 4077520 0.0016 250.9 260.9 1.5 ANUAL ALL 1 Boundary Perimeter 6 P6 648791.44 4077520 0.0016 226.7 287 1.5 ANUAL ALL 1 Boundary Perimeter 6 P6 648784.5 4077362 0.00115 164 164 1.5 ANUAL ALL 1 Boundary Perimeter 6 P6 648784.5 4077362 0.00115 164 164 1.5 ANUAL ALL 1 Boundary Perimeter 6 P6 648784.5 4077362 0.00115 164 164 1.5 ANUAL ALL 1 Boundary Perimeter 6 P6 648784.8 4077362 0.00115 164 164 1.5 ANUAL ALL 1 Boundary Perimeter 6 P6 648784.8 4077362 0.00115 164 164 1.5 ANUAL ALL 1 Boundary Perimeter 6 P6 648784.8 4077362 0.00115 164 164 1.5 ANUAL ALL 1 Boundary Perimeter 6 P6 648784.8 4077362 0.00115 164 164 1.5 ANUAL ALL 1 Boundary Perimeter 6 P6 648784.8 4077362 0.00115 164 164 1.5 ANUAL ALL 1 Boundary Perimeter 6 P6 648784.8 4077362 0.00115 164 164 1.5 ANUAL ALL 1 Boundary Perimeter 6 P6 648784.8 4077363 0.0012 178.4 830 1.5 ANUAL ALL 1 Boundary Perimeter 6 P6 648784.8 4077363 0.00061 171.51 240 1.5 ANUAL ALL 1 Boundary Perimeter 7 P7 | 649303.5 | 4076472 | 0.00134 | 148.3 | 160 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 48 | P48 | |
| 64916.52 4076605 0.00291 130.56 130.56 130.55 1.5 ANNUAL ALL 1 Boundary Perimeter 50 P50 | 649226.19 | 4076535 | 0.00065 | 127.58 | | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 49 | | |
| 649968.25 4076653 0.00388 134.35 134.35 1.5 ANNUAL ALL 1 Boundary Perimeter 51 P51 64898.67 4076711 0.00355 251.08 282 1.5 ANNUAL ALL 1 Boundary Perimeter 52 P52 648936.53 4076799 0.00315 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 53 P53 648868.58 4076833 0.00262 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 54 P54 648797.23 4076902 0.00217 177 830 1.5 ANNUAL ALL 1 Boundary Perimeter 55 P55 648710.56 4076952 0.0019 180.9 830 1.5 ANNUAL ALL 1 Boundary Perimeter 56 P56 64870.96 4076952 0.0019 180.9 830 1.5 ANNUAL ALL 1 Boundary Perimeter 56 P56 64870.97 4077051 0.00159 236.9 801 1.5 ANNUAL ALL 1 Boundary Perimeter 57 P57 648607.19 4077051 0.00159 236.9 801 1.5 ANNUAL ALL 1 Boundary Perimeter 58 P58 648680.07 4077119 0.00158 261.3 287 1.5 ANNUAL ALL 1 Boundary Perimeter 58 P58 648680.07 4077180 0.0016 260.9 260.9 1.5 ANNUAL ALL 1 Boundary Perimeter 59 P59 64879.24 4077180 0.0016 260.9 260.9 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648791.44 4077362 0.0015 226.7 287 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648791.44 4077362 0.0015 226.7 287 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648791.44 4077362 0.0015 226.7 287 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 64879.44 4077362 0.0015 226.7 287 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648891.35 4077361 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648591.35 4077361 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648586.93 4077371 0.00122 178.4 830 1.5 ANNUAL ALL 1 Boundary Perimeter 62 P62 648691.25 4077361 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648586.94 4077383 0.00061 171.51 240 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648586.04 4077393 0.00061 171.51 240 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 649184.09 4077334 0.00041 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 649184.09 4077334 0.00061 171.51 240 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 649184.09 4077334 0.00061 171.51 240 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 649184.09 4077334 0.00061 171.51 240 1.5 ANNUAL ALL 1 Boundary Perimete | 648984.14 | 4077530 | 0.00055 | 214.91 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 5 | P5 | |
| 648936.7 4076711 0.00355 251.08 282 1.5 ANNUAL ALL 1 Boundary Perimeter 52 P52 648936.53 4076759 0.00315 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 53 P53 64868.58 4076833 0.00262 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 54 P54 64870.723 4076902 0.00217 177 830 1.5 ANNUAL ALL 1 Boundary Perimeter 55 P55 64860.79 4076952 0.0019 180.9 830 1.5 ANNUAL ALL 1 Boundary Perimeter 56 P56 648620.79 4076969 0.00172 196.6 830 1.5 ANNUAL ALL 1 Boundary Perimeter 57 P57 64807.19 4077051 0.00159 236.9 801 1.5 ANNUAL ALL 1 Boundary Perimeter 58 P58 648680.07 4077051 0.00159 236.9 801 1.5 ANNUAL ALL 1 Boundary Perimeter 58 P58 649084.12 4077532 0.00043 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 69 P59 649084.12 4077532 0.00043 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 6 P6 648759.24 4077180 0.0016 260.9 260.9 1.5 ANNUAL ALL 1 Boundary Perimeter 6 P6 648791.44 4077262 0.00156 226.7 287 1.5 ANNUAL ALL 1 Boundary Perimeter 6 P6 648791.44 4077262 0.00156 226.7 287 1.5 ANNUAL ALL 1 Boundary Perimeter 6 P6 648891.25 4077362 0.00115 164 164 1.5 ANNUAL ALL 1 Boundary Perimeter 6 P6 648891.25 4077361 0.00127 181.3 830 1.5 ANNUAL ALL 1 Boundary Perimeter 62 P62 648591.35 4077367 0.00127 181.3 830 1.5 ANNUAL ALL 1 Boundary Perimeter 62 P63 648586.93 4077367 0.00127 181.3 830 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P64 648526.94 4077367 0.00122 178.4 830 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P64 648526.94 4077367 0.00122 178.4 830 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P66 649184.09 4077534 0.00041 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P66 649184.09 4077534 0.00014 218.8 830 1.5 ANNUAL ALL 1 Boundary Perimeter 67 P66 649384.09 4077379 0.00060 171.5 1 240 1.5 ANNUAL ALL 1 Boundary Perimeter 67 P66 649384.09 4077393 0.00060 171.5 1 240 1.5 ANNUAL ALL 1 Boundary Perimeter 68 P66 649384.09 4077393 0.00060 171.5 1 240 1.5 ANNUAL ALL 1 Boundary Perimeter 68 P66 649384.00 4077983 0.00060 171.5 1 240 1.5 ANNUAL ALL 1 Boundary Perimeter 7 P7 645934 0.00060 171.5 1 240 1.5 ANNUAL ALL 1 Boundary Perimeter 7 P7 645934 0.0 | 649156.2 | 4076605 | 0.00291 | 130.56 | 130.56 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 50 | P50 | |
| 64896.53 4076759 0.00315 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 53 P53 648868.58 4076833 0.00262 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 54 P54 648797.23 4076902 0.00217 177 830 1.5 ANNUAL ALL 1 Boundary Perimeter 55 P55 648710.56 4076952 0.0019 180.9 830 1.5 ANNUAL ALL 1 Boundary Perimeter 56 P56 64870.96 4076952 0.0019 180.9 830 1.5 ANNUAL ALL 1 Boundary Perimeter 56 P56 648607.19 4077051 0.00159 236.9 801 1.5 ANNUAL ALL 1 Boundary Perimeter 57 P57 648607.19 4077051 0.00159 236.9 801 1.5 ANNUAL ALL 1 Boundary Perimeter 58 P58 648680.07 4077119 0.00158 261.3 287 1.5 ANNUAL ALL 1 Boundary Perimeter 59 P59 64908.412 4077532 0.00043 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 59 P59 648791.44 4077532 0.00043 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648791.44 4077262 0.00156 226.7 287 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648791.44 4077262 0.00115 260.9 260.9 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648791.45 4077361 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 61 P61 648591.35 4077361 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 62 P62 648691.25 4077361 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 63 P63 648591.35 4077357 0.00127 181.3 830 1.5 ANNUAL ALL 1 Boundary Perimeter 63 P63 648591.35 4077357 0.00127 181.3 830 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P64 648525.69 4077357 0.00127 181.3 830 1.5 ANNUAL ALL 1 Boundary Perimeter 65 P65 648586.93 4077430 0.00119 214.8 830 1.5 ANNUAL ALL 1 Boundary Perimeter 67 P65 648586.93 4077357 0.00022 178.4 830 1.5 ANNUAL ALL 1 Boundary Perimeter 69 P66 649184.09 4077536 0.00143 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 69 P66 649184.09 4077536 0.00143 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 69 P66 649184.09 4077536 0.00143 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 9 P9 646303 4077983 0.00066 171.51 240 1.5 ANNUAL ALL 1 New Development RP G1 64630 4077983 0.00066 171.51 240 1.5 ANNUAL ALL 1 New Development RP G1 64630 4077983 0.00066 171.51 142 1.5 ANNUAL ALL 1 New Development RP G1 64630 407798 | 649068.25 | 4076653 | 0.00385 | 134.35 | 134.35 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 51 | P51 | |
| 648868.88 d)76833 0.00262 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 54 P54 64879.23 4076902 0.00217 177 830 1.5 ANNUAL ALL 1 Boundary Perimeter 56 P55 64870.56 4076952 0.0017 180.9 830 1.5 ANNUAL ALL 1 Boundary Perimeter 56 P56 64860.79 4077051 0.00159 236.9 801 1.5 ANNUAL ALL 1 Boundary Perimeter 57 P57 64860.719 4077151 0.00158 261.3 287 1.5 ANNUAL ALL 1 Boundary Perimeter 58 P58 64880.07 4077119 0.00158 261.3 287 1.5 ANNUAL ALL 1 Boundary Perimeter 59 P59 64908412 4077362 0.0016 260.9 260.9 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648791.42 4077362 | 648986.7 | 4076711 | 0.00355 | 251.08 | 282 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 52 | P52 | 7 |
| 64879.7.23 4076902 0.00217 117 830 1.5 ANNUAL ALL 1 Boundary Perimeter 55 P55 648710.56 4076952 0.0019 180.9 830 1.5 ANNUAL ALL 1 Boundary Perimeter 56 P56 648620.79 4076996 0.00172 196.6 830 1.5 ANNUAL ALL 1 Boundary Perimeter 57 P57 64860.71 4077051 0.00159 236.9 801 1.5 ANNUAL ALL 1 Boundary Perimeter 58 P58 648680.07 4077119 0.00158 261.3 287 1.5 ANNUAL ALL 1 Boundary Perimeter 58 P58 649084.12 4077532 0.00043 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 6 P6 648759.24 4077180 0.0016 260.9 260.9 1.5 ANNUAL ALL 1 Boundary Perimeter 6 P6 648791.44 4077262 0.00156 226.7 287 1.5 ANNUAL ALL 1 Boundary Perimeter 61 P61 648788.45 4077362 0.00115 164 164 1.5 ANNUAL ALL 1 Boundary Perimeter 62 P62 648691.25 4077361 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 62 P62 648591.35 4077367 0.00127 181.3 830 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P64 648525.69 4077371 0.00122 178.4 830 1.5 ANNUAL ALL 1 Boundary Perimeter 65 P65 6485869.39 4077430 0.00119 214.8 830 1.5 ANNUAL ALL 1 Boundary Perimeter 65 P65 648586.93 4077355 0.0008 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 66 P66 6487984.06 4077535 0.0008 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 7 P7 649284.08 4077535 0.0006 171.51 240 1.5 ANNUAL ALL 1 Boundary Perimeter 7 P7 649384.06 4077983 0.0006 171.51 240 1.5 ANNUAL ALL 1 Boundary Perimeter 7 P7 646300 4077983 0.0006 136.81 156.81 1.5 ANNUAL ALL 1 Boundary Perimeter 8 P8 64630 4077983 0.0006 132.89 132.89 1.5 ANNUAL ALL 1 New Development RP G1 64630 4077983 0.0006 132.89 132.89 1.5 ANNUAL ALL 1 New Development RP G1 646630 4077883 0.0006 130.56 130.56 1 | 648936.53 | 4076759 | 0.00315 | 252.83 | 281 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 53 | P53 | |
| 648710.56 4076952 0.0019 180.9 830 1.5 ANNUAL ALL 1 Boundary Perimeter 56 P56 648620.79 40776996 0.00172 196.6 830 1.5 ANNUAL ALL 1 Boundary Perimeter 57 P57 | 648868.58 | 4076833 | 0.00262 | 246.1 | 269 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 54 | P54 | |
| 648620.79 | 648797.23 | 4076902 | 0.00217 | 177 | 830 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 55 | P55 | |
| 648607.19 4077051 0.00159 236.9 801 1.5 ANNUAL ALL 1 Boundary Perimeter 58 P58 648680.07 4077119 0.00158 261.3 287 1.5 ANNUAL ALL 1 Boundary Perimeter 59 P59 64808.12 4077180 0.00043 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648759.24 4077180 0.0016 260.9 260.9 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648781.44 4077262 0.00115 164 164 1.5 ANNUAL ALL 1 Boundary Perimeter 61 P61 648781.45 4077361 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 63 P63 648591.55 4077357 0.00127 181.3 830 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P64 648525.95 40 | 648710.56 | 4076952 | 0.0019 | 180.9 | 830 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 56 | P56 | |
| 648680.07 4077119 0.00158 261.3 287 1.5 ANNUAL ALL 1 Boundary Perimeter 59 P59 64908.4.12 4077532 0.00043 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648759.24 4077180 0.00156 226.7 287 1.5 ANNUAL ALL 1 Boundary Perimeter 61 P61 648789.24 4077362 0.00156 226.7 287 1.5 ANNUAL ALL 1 Boundary Perimeter 61 P61 648789.25 0.0015 164 164 1.5 ANNUAL ALL 1 Boundary Perimeter 62 P62 648591.25 4077361 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 62 P62 648591.35 4077371 0.00127 181.3 830 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P64 648525.69 4077371 0. | 648620.79 | 4076996 | 0.00172 | 196.6 | 830 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 57 | P57 | |
| 649084.12 4077532 0.00043 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 6 P6 648759.24 4077180 0.0016 260.9 260.9 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 64879.44 4077262 0.00156 226.7 287 1.5 ANNUAL ALL 1 Boundary Perimeter 61 P61 64879.45 4077362 0.00115 164 164 1.5 ANNUAL ALL 1 Boundary Perimeter 62 P62 648591.25 4077361 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 63 P63 648525.69 4077371 0.00122 178.4 830 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P64 648525.69 4077373 0.00119 214.8 830 1.5 ANNUAL ALL 1 Boundary Perimeter 65 P65 648586.93 40773 | 648607.19 | 4077051 | 0.00159 | 236.9 | 801 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 58 | P58 | 7 |
| 648759.24 4077180 0.0016 260.9 260.9 1.5 ANNUAL ALL 1 Boundary Perimeter 60 P60 648791.44 4077262 0.00156 226.7 287 1.5 ANNUAL ALL 1 Boundary Perimeter 61 P61 648788.45 4077362 0.00115 164 164 1.5 ANNUAL ALL 1 Boundary Perimeter 62 P62 648691.25 4077351 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P64 648525.69 4077371 0.00122 178.4 830 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P64 648525.69 3077430 0.0019 214.8 830 1.5 ANNUAL ALL 1 Boundary Perimeter 65 P65 648525.69 3077371 0.00014 211.5 266 1.5 ANNUAL ALL 1 Boundary Perimeter 66 P66 649184.09 407 | 648680.07 | 4077119 | 0.00158 | 261.3 | 287 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 59 | P59 | |
| 648791.44 4077262 0.00156 226.7 287 1.5 ANNUAL ALL 1 Boundary Perimeter 61 P61 648788.45 4077362 0.00115 164 164 1.5 ANNUAL ALL 1 Boundary Perimeter 62 P62 648691.25 4077361 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 63 P63 648591.35 4077371 0.00127 181.3 830 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P64 648525.69 4077371 0.00122 178.4 830 1.5 ANNUAL ALL 1 Boundary Perimeter 65 P65 648586.93 4077430 0.00119 214.8 830 1.5 ANNUAL ALL 1 Boundary Perimeter 66 P66 649184.09 4077534 0.00041 2215.3 266 1.5 ANNUAL ALL 1 Boundary Perimeter 69 P69 649384.06 40 | 649084.12 | 4077532 | 0.00043 | 214.09 | 266 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 6 | P6 | 7 |
| 648788.45 4077362 0.00115 164 164 1.5 ANNUAL ALL 1 Boundary Perimeter 62 P62 648691.25 4077361 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 63 P63 648591.35 4077357 0.00127 181.3 830 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P64 648525.69 4077371 0.00122 178.4 830 1.5 ANNUAL ALL 1 Boundary Perimeter 65 P65 648586.93 4077430 0.00119 214.8 830 1.5 ANNUAL ALL 1 Boundary Perimeter 66 P66 649184.09 4077534 0.00041 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 7 P7 649284.08 4077535 0.0008 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 7 P7 649384.06 407798 | 648759.24 | 4077180 | 0.0016 | 260.9 | 260.9 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 60 | P60 | |
| 648691.25 4077361 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 63 P63 648591.35 4077357 0.00127 181.3 830 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P64 648525.69 4077371 0.00122 178.4 830 1.5 ANNUAL ALL 1 Boundary Perimeter 65 P65 648586.93 4077430 0.00119 214.8 830 1.5 ANNUAL ALL 1 Boundary Perimeter 66 P66 649184.09 4077534 0.00041 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 66 P66 649184.09 4077535 0.0008 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 7 P7 649284.08 4077536 0.00143 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 68 P8 649303 40779 | 648791.44 | 4077262 | 0.00156 | 226.7 | 287 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 61 | P61 | 7 |
| 648691.25 4077361 0.00126 268.2 287 1.5 ANNUAL ALL 1 Boundary Perimeter 63 P63 648591.35 4077357 0.00127 181.3 830 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P64 648526.69 4077371 0.00122 178.4 830 1.5 ANNUAL ALL 1 Boundary Perimeter 65 P65 648586.93 4077430 0.00119 214.8 830 1.5 ANNUAL ALL 1 Boundary Perimeter 66 P66 649184.09 4077534 0.00041 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 6 P66 649284.08 4077535 0.0008 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 7 P7 649284.08 4077536 0.00143 208.52 264 1.5 ANNUAL ALL 1 New Development RP G1 645930 4077983 </td <td>648788.45</td> <td>4077362</td> <td>0.00115</td> <td>164</td> <td>164</td> <td>1.5</td> <td>ANNUAL</td> <td>ALL</td> <td>1</td> <td></td> <td>Boundary Perimeter 62</td> <td>P62</td> <td></td> | 648788.45 | 4077362 | 0.00115 | 164 | 164 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 62 | P62 | |
| 648591.35 4077357 0.00127 181.3 830 1.5 ANNUAL ALL 1 Boundary Perimeter 64 P64 648525.69 4077371 0.00122 178.4 830 1.5 ANNUAL ALL 1 Boundary Perimeter 65 P65 648586.93 4077430 0.00119 214.8 830 1.5 ANNUAL ALL 1 Boundary Perimeter 66 P66 649184.09 4077534 0.00041 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 7 P7 649284.08 4077535 0.0008 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 8 P8 649384.06 4077536 0.00143 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 9 P9 645930 4077983 0.00061 171.51 240 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4077983 | | | | 268.2 | 287 | 1.5 | ANNUAL | | 1 | | | P63 | 7 |
| 648586.93 4077430 0.00119 214.8 830 1.5 ANNUAL ALL 1 Boundary Perimeter 66 P66 649184.09 4077534 0.00041 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 7 P7 649284.08 4077535 0.0008 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 8 P8 649384.06 4077536 0.00143 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 8 P8 649384.06 4077536 0.00061 171.51 240 1.5 ANNUAL ALL 1 Boundary Perimeter 7 P7 645930 4077983 0.00061 171.51 240 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4077983 0.00062 146.44 146.44 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4077983 | 648591.35 | 4077357 | 0.00127 | 181.3 | 830 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 64 | P64 | |
| 649184.09 4077534 0.00041 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 7 P7 649284.08 4077535 0.0008 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 8 P8 649384.06 4077536 0.00143 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 9 P9 645930 4077983 0.00061 171.51 240 1.5 ANNUAL ALL 1 New Development RP_GI 646303 4077983 0.00062 146.44 146.44 1.5 ANNUAL ALL 1 New Development RP_GI 646230 4077983 0.00062 146.44 146.44 1.5 ANNUAL ALL 1 New Development RP_GI 646330 4077983 0.00063 162.04 15.2 ANNUAL ALL 1 New Development RP_GI 646330 4077983 0.00065 | 648525.69 | 4077371 | 0.00122 | 178.4 | 830 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 65 | P65 | 1 |
| 649284.08 4077535 0.0008 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 8 P8 649384.06 4077536 0.00143 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 9 P9 645930 4077983 0.00061 171.51 240 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4077983 0.00062 156.81 156.81 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4077983 0.00062 146.44 146.44 1.5 ANNUAL ALL 1 New Development RP_G1 646230 4077983 0.00063 162.04 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4077983 0.00064 127.13 142 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4077983 0.00066 13 | 648586.93 | 4077430 | 0.00119 | 214.8 | 830 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 66 | P66 | |
| 649284.08 4077535 0.0008 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 8 P8 649384.06 4077536 0.00143 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 9 P9 645930 4077983 0.00061 171.51 240 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4077983 0.00062 156.81 156.81 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4077983 0.00062 146.44 146.44 1.5 ANNUAL ALL 1 New Development RP_G1 646230 4077983 0.00063 162.04 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4077983 0.00064 127.13 142 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4077983 0.00066 13 | | 4077534 | 0.00041 | 211.53 | 266 | 1.5 | ANNUAL | ALL | 1 | | • | | 1 |
| 645930 4077983 0.00061 171.51 240 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4077983 0.00062 156.81 156.81 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4077983 0.00062 146.44 146.44 1.5 ANNUAL ALL 1 New Development RP_G1 646230 4077983 0.00063 162.04 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4077983 0.00064 127.13 142 1.5 ANNUAL ALL 1 New Development RP_G1 646430 4077983 0.00065 169.38 240 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4077983 0.00066 132.89 132.89 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4077983 0.00066 140.02 </td <td></td> <td></td> <td>0.0008</td> <td>210.17</td> <td>266</td> <td>1.5</td> <td>ANNUAL</td> <td></td> <td>1</td> <td></td> <td>`</td> <td></td> <td></td> | | | 0.0008 | 210.17 | 266 | 1.5 | ANNUAL | | 1 | | ` | | |
| 645930 4077983 0.00061 171.51 240 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4077983 0.00062 156.81 156.81 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4077983 0.00062 146.44 146.44 1.5 ANNUAL ALL 1 New Development RP_G1 646230 4077983 0.00063 162.04 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4077983 0.00064 127.13 142 1.5 ANNUAL ALL 1 New Development RP_G1 646430 4077983 0.00065 169.38 240 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4077983 0.00066 132.89 132.89 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4077983 0.00066 140.02 </td <td>649384.06</td> <td>4077536</td> <td>0.00143</td> <td>208.52</td> <td>264</td> <td>1.5</td> <td>ANNUAL</td> <td>ALL</td> <td>1</td> <td></td> <td>Boundary Perimeter 9</td> <td>P9</td> <td>7</td> | 649384.06 | 4077536 | 0.00143 | 208.52 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 9 | P9 | 7 |
| 646030 4077983 0.00062 156.81 156.81 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4077983 0.00062 146.44 146.44 1.5 ANNUAL ALL 1 New Development RP_G1 646230 4077983 0.00063 162.04 162.04 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4077983 0.00064 127.13 142 1.5 ANNUAL ALL 1 New Development RP_G1 64630 4077983 0.00065 169.38 240 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4077983 0.00066 132.89 132.89 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4077983 0.00066 140.02 140.02 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4078083 0.00067 | | 4077983 | 0.00061 | 171.51 | 240 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646130 4077983 0.00062 146.44 146.44 1.5 ANNUAL ALL 1 New Development RP_G1 646230 4077983 0.00063 162.04 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4077983 0.00064 127.13 142 1.5 ANNUAL ALL 1 New Development RP_G1 646430 4077983 0.00065 169.38 240 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4077983 0.00066 132.89 132.89 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4077983 0.00066 140.02 140.02 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4077983 0.00067 130.56 1.5 ANNUAL ALL 1 New Development RP_G1 645930 4078083 0.00061 183.42 240 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>•</td> <td></td> <td>7</td> | | | | | | | | | 1 | | • | | 7 |
| 646230 4077983 0.00063 162.04 162.04 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4077983 0.00064 127.13 142 1.5 ANNUAL ALL 1 New Development RP_G1 646430 4077983 0.00065 169.38 240 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4077983 0.00066 132.89 132.89 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4077983 0.00066 140.02 140.02 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4077983 0.00067 130.56 1.5 ANNUAL ALL 1 New Development RP_G1 645930 4078083 0.0006 183.42 240 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4078083 0.00061 156.21 <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.5</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> | | | | | | 1.5 | | | 1 | | | | |
| 646330 4077983 0.00064 127.13 142 1.5 ANNUAL ALL 1 New Development RP_G1 646430 4077983 0.00065 169.38 240 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4077983 0.00066 132.89 132.89 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4077983 0.00066 140.02 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4077983 0.00067 130.56 1.5 ANNUAL ALL 1 New Development RP_G1 645930 4078083 0.0006 183.42 240 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4078083 0.00061 156.21 156.21 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4078083 0.00062 163.83 237 | | | 0.00063 | 162.04 | 162.04 | 1.5 | | ALL | 1 | | | | 7 |
| 646430 4077983 0.00065 169.38 240 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4077983 0.00066 132.89 132.89 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4077983 0.00066 140.02 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4077983 0.00067 130.56 1.5 ANNUAL ALL 1 New Development RP_G1 645930 4078083 0.0006 183.42 240 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4078083 0.00061 156.21 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4078083 0.00062 163.83 237 1.5 ANNUAL ALL 1 New Development RP_G1 | | | 0.00064 | | 142 | 1.5 | ANNUAL | | 1 | | <u>.</u> | | |
| 646530 4077983 0.00066 132.89 132.89 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4077983 0.00066 140.02 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4077983 0.00067 130.56 130.56 1.5 ANNUAL ALL 1 New Development RP_G1 645930 4078083 0.0006 183.42 240 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4078083 0.00061 156.21 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4078083 0.00062 163.83 237 1.5 ANNUAL ALL 1 New Development RP_G1 | | | | | | | | | 1 | | | | 1 |
| 646630 4077983 0.00066 140.02 140.02 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4077983 0.00067 130.56 130.56 1.5 ANNUAL ALL 1 New Development RP_G1 645930 4078083 0.0006 183.42 240 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4078083 0.00061 156.21 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4078083 0.00062 163.83 237 1.5 ANNUAL ALL 1 New Development RP_G1 | | | | | | | | | 1 | | | | |
| 646730 4077983 0.00067 130.56 130.56 1.5 ANNUAL ALL 1 New Development RP_G1 645930 4078083 0.0006 183.42 240 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4078083 0.00061 156.21 156.21 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4078083 0.00062 163.83 237 1.5 ANNUAL ALL 1 New Development RP_G1 | | | | | | | | | 1 | | - | | 1 |
| 645930 4078083 0.0006 183.42 240 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4078083 0.00061 156.21 156.21 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4078083 0.00062 163.83 237 1.5 ANNUAL ALL 1 New Development RP_G1 | | | | | | | | | 1 | | | | |
| 646030 4078083 0.00061 156.21 156.21 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4078083 0.00062 163.83 237 1.5 ANNUAL ALL 1 New Development RP_G1 | | | | | | | | | | | | | 1 |
| 646130 4078083 0.00062 163.83 237 1.5 ANNUAL ALL 1 New Development RP_G1 | | | | | | | | | 1 | | | | |
| | | | | | | | | | 1 | | | | 1 |
| | 646230 | 4078083 | 0.00062 | 145.99 | 145.99 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |

0.00173

08/30/21

* AERMET (21112): 2018

07:51:12

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 646330 4078083 0.00063 215.24 287 1.5 ANNUAL ALL 1 New Development RP_G1 646430 4078083 0.00064 163 234 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4078083 0.00065 164 240 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4078083 0.00065 173.83 240 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4078083 0.00067 139.24 139.24 1.5 ANNUAL ALL 1 New Development RP_G1 645730 4078183 0.00059 146.94 146.94 1.5 ANNUAL ALL 1 New Development RP_G1 646930 4078183 0.0006 133.89 133.89 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4078183 0.00061 |
|---|
| 646530 4078083 0.00065 164 240 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4078083 0.00065 173.83 240 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4078083 0.00067 139.24 139.24 1.5 ANNUAL ALL 1 New Development RP_G1 645930 4078183 0.00059 146.94 146.94 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4078183 0.0006 133.89 133.89 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4078183 0.00061 182.28 240 1.5 ANNUAL ALL 1 New Development RP_G1 646230 4078183 0.00061 168.26 240 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4078183 0.00062 |
| 646630 4078083 0.00065 173.83 240 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4078083 0.00067 139.24 139.24 1.5 ANNUAL ALL 1 New Development RP_G1 645930 4078183 0.00059 146.94 146.94 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4078183 0.0006 133.89 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4078183 0.00061 182.28 240 1.5 ANNUAL ALL 1 New Development RP_G1 646230 4078183 0.00061 168.26 240 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4078183 0.00062 154.85 154.85 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4078183 0.00063 205.5 |
| 646730 4078083 0.00067 139.24 139.24 1.5 ANNUAL ALL 1 New Development RP_G1 645930 4078183 0.00059 146.94 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4078183 0.0006 133.89 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4078183 0.00061 182.28 240 1.5 ANNUAL ALL 1 New Development RP_G1 646230 4078183 0.00061 168.26 240 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4078183 0.00062 154.85 154.85 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4078183 0.00062 145 145 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4078183 0.00063 205.5 813 |
| 645930 4078183 0.00059 146.94 146.94 1.5 ANNUAL ALL 1 New Development RP_G1 646030 4078183 0.0006 133.89 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4078183 0.00061 182.28 240 1.5 ANNUAL ALL 1 New Development RP_G1 646230 4078183 0.00061 168.26 240 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4078183 0.00062 154.85 154.85 1.5 ANNUAL ALL 1 New Development RP_G1 646430 4078183 0.00062 145 145 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4078183 0.00063 205.5 813 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4078183 0.00065 163.52 |
| 646030 4078183 0.0006 133.89 1.5 ANNUAL ALL 1 New Development RP_G1 646130 4078183 0.00061 182.28 240 1.5 ANNUAL ALL 1 New Development RP_G1 646230 4078183 0.00061 168.26 240 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4078183 0.00062 154.85 154.85 1.5 ANNUAL ALL 1 New Development RP_G1 64630 4078183 0.00062 145 145 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4078183 0.00063 205.5 813 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4078183 0.00064 167.93 167.93 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4078183 0.00065 163.52 |
| 646130 4078183 0.00061 182.28 240 1.5 ANNUAL ALL 1 New Development RP_G1 646230 4078183 0.00061 168.26 240 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4078183 0.00062 154.85 154.85 1.5 ANNUAL ALL 1 New Development RP_G1 646430 4078183 0.00062 145 145 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4078183 0.00063 205.5 813 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4078183 0.00064 167.93 167.93 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4078183 0.00065 163.52 163.52 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 646230 4078183 0.00061 168.26 240 1.5 ANNUAL ALL 1 New Development RP_G1 646330 4078183 0.00062 154.85 1.5 ANNUAL ALL 1 New Development RP_G1 646430 4078183 0.00062 145 145 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4078183 0.00063 205.5 813 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4078183 0.00064 167.93 167.93 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4078183 0.00065 163.52 163.52 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 646330 4078183 0.00062 154.85 154.85 1.5 ANNUAL ALL 1 New Development RP_G1 646430 4078183 0.00062 145 145 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4078183 0.00063 205.5 813 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4078183 0.00064 167.93 167.93 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4078183 0.00065 163.52 163.52 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 646430 4078183 0.00062 145 145 1.5 ANNUAL ALL 1 New Development RP_G1 646530 4078183 0.00063 205.5 813 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4078183 0.00064 167.93 167.93 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4078183 0.00065 163.52 163.52 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 646530 4078183 0.00063 205.5 813 1.5 ANNUAL ALL 1 New Development RP_G1 646630 4078183 0.00064 167.93 167.93 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4078183 0.00065 163.52 163.52 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 646630 4078183 0.00064 167.93 1.5 ANNUAL ALL 1 New Development RP_G1 646730 4078183 0.00065 163.52 163.52 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 646730 4078183 0.00065 163.52 163.52 1.5 ANNUAL ALL 1 New Development RP_G1 |
| <u> </u> |
| (45020 4070202 0.00050 170.22 240 1.5 ANNITAL ALL 1 N |
| 645930 4078283 0.00058 178.22 240 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 646030 4078283 0.00059 142.68 142.68 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 646130 4078283 0.00059 242.23 296 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 646230 4078283 0.0006 241.37 269 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 646330 4078283 0.00061 209.74 209.74 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 646430 4078283 0.00061 246.79 251 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 646530 4078283 0.00062 228.75 264 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 646630 4078283 0.00063 217.76 271 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 646730 4078283 0.00064 221.2 273 1.5 ANNUAL ALL 1 New Development RP_G1 |
| 648659.32 4077241 0.00164 258.89 258.89 1.5 ANNUAL ALL 1 House 1 RP_H1 |
| 648071.24 4076116 0.00022 168.8 190 1.5 ANNUAL ALL 1 House 10 RP_H10 |
| 648247.37 4076278 0.0003 199.9 240 1.5 ANNUAL ALL 1 House 11 RP_H11 |
| 648027.19 4076255 0.00026 144.4 144.4 1.5 ANNUAL ALL 1 House 12 RP_H12 |
| 648065.77 4076359 0.00032 195.5 227 1.5 ANNUAL ALL 1 House 13 RP_H13 |
| 648138.68 4076400 0.00036 216.4 300 1.5 ANNUAL ALL 1 House 14 RP_H14 |
| 648254.71 4076411 0.0004 259.56 259.56 1.5 ANNUAL ALL 1 House 15 RP_H15 |
| 647877.81 4076365 0.0003 173.5 191 1.5 ANNUAL ALL 1 House 16 RP_H16 |
| 647866.6 4076240 0.00024 166.2 166.2 1.5 ANNUAL ALL 1 House 17 RP_H17 |
| 647921 4076247 0.00025 145.4 253 1.5 ANNUAL ALL 1 House 18 RP_H18 |
| 647708.78 4076352 0.00028 173.9 214 1.5 ANNUAL ALL 1 House 19 RP_H19 |
| 648371.71 4075470 0.00016 190.4 194 1.5 ANNUAL ALL 1 House 2 RP_H2 |
| 647703.58 4076251 0.00024 179.6 227 1.5 ANNUAL ALL 1 House 20 RP_H20 |
| 647718.77 4076104 0.0002 191 226 1.5 ANNUAL ALL 1 House 21 RP_H21 |
| 647843.32 4076125 0.00021 209.2 240 1.5 ANNUAL ALL 1 House 22 RP_H22 |
| 647842.26 4076500 0.00039 233.7 240 1.5 ANNUAL ALL 1 House 23 RP_H23 |

08/30/21

* AERMET (21112): 2018

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-------------|--------|
| 647727.75 | 4076644 | 0.00051 | 165.4 | 165.4 | 1.5 | ANNUAL | ALL | 1 | House 24 | RP H24 |
| 647823.91 | 4076644 | 0.00054 | 187.4 | 801 | 1.5 | ANNUAL | ALL | 1 | House 25 | RP H25 |
| 647886.51 | 4076593 | 0.0005 | 256.77 | 266 | 1.5 | ANNUAL | ALL | 1 | House 26 | RP H26 |
| 647810.11 | 4076854 | 0.0003 | 154.38 | 154.38 | 1.5 | ANNUAL | ALL | 1 | House 27 | RP H27 |
| 647697.48 | 4076989 | 0.0009 | 139.22 | 139.22 | 1.5 | ANNUAL | ALL | 1 | House 28 | RP H28 |
| 648225.5 | 4076182 | 0.00025 | 140.45 | 140.45 | 1.5 | ANNUAL | ALL | 1 | House 29 | RP H29 |
| 647678.23 | 4075969 | 0.00023 | 159.6 | 259 | 1.5 | ANNUAL | ALL | 1 | House 3 | RP H3 |
| 645876.32 | 4077487 | 0.00018 | 162.49 | 162.49 | 1.5 | ANNUAL | ALL | 1 | House 30 | RP H30 |
| 650902 | 4076062 | 0.00173 | 148.99 | 148.99 | 1.5 | ANNUAL | ALL | 1 | House 31 | RP H31 |
| 651490 | 4076597 | 0.00173 | 154.45 | 159 | 1.5 | ANNUAL | ALL | 1 | House 32 | RP H32 |
| 651565 | 4077067 | 0.00093 | 225.91 | 227 | 1.5 | ANNUAL | ALL | 1 | House 33 | RP H33 |
| 648672.77 | 4075307 | 0.00033 | 168.29 | 168.29 | 1.5 | ANNUAL | ALL | 1 | House 34 | RP H34 |
| 648383.6 | 4075469 | 0.00017 | 162.17 | 162.17 | 1.5 | ANNUAL | ALL | 1 | House 35 | RP H35 |
| 646379.37 | 4077233 | 0.00010 | 165.39 | 240 | 1.5 | ANNUAL | ALL | 1 | House 36 | RP H36 |
| 651849.72 | 4075865 | 0.00109 | 147.22 | 147.22 | 1.5 | ANNUAL | ALL | 1 | House 37 | RP H37 |
| 652045.49 | 4076210 | 0.00103 | 140.23 | 140.23 | 1.5 | ANNUAL | ALL | 1 | House 38 | RP H38 |
| 652255.69 | 4076391 | 0.00095 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | House 39 | RP H39 |
| 647815.25 | 4075985 | 0.00018 | 183.5 | 259 | 1.5 | ANNUAL | ALL | 1 | House 4 | RP H4 |
| 646853.73 | 4077373 | 0.0007 | 152.34 | 152.34 | 1.5 | ANNUAL | ALL | 1 | House 40 | RP H40 |
| 647050.21 | 4077360 | 0.00074 | 164.01 | 164.01 | 1.5 | ANNUAL | ALL | 1 | House 41 | RP H41 |
| 647286.42 | 4077474 | 0.00081 | 201.97 | 333 | 1.5 | ANNUAL | ALL | 1 | House 42 | RP H42 |
| 647359.05 | 4077340 | 0.00084 | 161.42 | 162 | 1.5 | ANNUAL | ALL | 1 | House 43 | RP H43 |
| 647490.41 | 4077329 | 0.00089 | 205.79 | 205.79 | 1.5 | ANNUAL | ALL | 1 | House 44 | RP H44 |
| 647522.17 | 4077252 | 0.00091 | 157.78 | 166 | 1.5 | ANNUAL | ALL | 1 | House 45 | RP H45 |
| 647517.82 | 4077139 | 0.00088 | 164.15 | 164.15 | 1.5 | ANNUAL | ALL | 1 | House 46 | RP H46 |
| 646819.01 | 4077258 | 0.00066 | 150.64 | 150.64 | 1.5 | ANNUAL | ALL | 1 | House 47 | RP H47 |
| 646778.72 | 4077128 | 0.00059 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | House 48 | RP H48 |
| 646987.26 | 4077213 | 0.00068 | 160.22 | 160.22 | 1.5 | ANNUAL | ALL | 1 | House 49 | RP H49 |
| 647898.2 | 4076033 | 0.00019 | 224 | 226 | 1.5 | ANNUAL | ALL | 1 | House 5 | RP H5 |
| 647241.77 | 4077227 | 0.00078 | 151.53 | 152 | 1.5 | ANNUAL | ALL | 1 | House 50 | RP H50 |
| 646773.05 | 4077063 | 0.00056 | 196.88 | 813 | 1.5 | ANNUAL | ALL | 1 | House 51 | RP H51 |
| 647104.37 | 4077118 | 0.00068 | 183.22 | 240 | 1.5 | ANNUAL | ALL | 1 | House 52 | RP H52 |
| 647291.9 | 4077123 | 0.00076 | 169.6 | 240 | 1.5 | ANNUAL | ALL | 1 | House 53 | RP H53 |
| 646765.24 | 4076978 | 0.0005 | 126.06 | 126.06 | 1.5 | ANNUAL | ALL | 1 | House 54 | RP H54 |
| 646995.65 | 4076984 | 0.00056 | 173.69 | 227 | 1.5 | ANNUAL | ALL | 1 | House 55 | RP H55 |
| 647317.21 | 4077031 | 0.00072 | 155.4 | 157 | 1.5 | ANNUAL | ALL | 1 | House 56 | RP H56 |
| 647398.39 | 4077013 | 0.00074 | 179.58 | 830 | 1.5 | ANNUAL | ALL | 1 | House 57 | RP H57 |
| 646978.93 | 4076904 | 0.00051 | 161.26 | 161.26 | 1.5 | ANNUAL | ALL | 1 | House 58 | RP H58 |
| | 4076807 | 0.00045 | 158.51 | 158.51 | 1.5 | ANNUAL | ALL | 1 | House 59 | RP H59 |

08/30/21

* AERMET (21112): 2018

07:51:12

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------|--------|-------------|--------|
| 648045.44 | 4076018 | 0.0002 | 205 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 6 | RP_H6 |
| 647163.96 | 4076802 | 0.00048 | 197.06 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 60 | RP_H60 |
| 647310.58 | 4076940 | 0.00065 | 159.5 | 159.5 | 1.5 | ANNUAL | ALL | 1 | | House 61 | RP_H61 |
| 647298.09 | 4076805 | 0.00052 | 184.55 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 62 | RP_H62 |
| 647446.56 | 4076900 | 0.00067 | 129.56 | 129.56 | 1.5 | ANNUAL | ALL | 1 | | House 63 | RP_H63 |
| 647464.49 | 4076781 | 0.00056 | 191.28 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 64 | RP_H64 |
| 647512 | 4076536 | 0.00037 | 223.19 | 263 | 1.5 | ANNUAL | ALL | 1 | | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00016 | 259.71 | 290 | 1.5 | ANNUAL | ALL | 1 | | House 66 | RP_H66 |
| 648126.33 | 4075955 | 0.00019 | 208.8 | 220 | 1.5 | ANNUAL | ALL | 1 | | House 7 | RP_H7 |
| 648249.26 | 4075970 | 0.0002 | 134.6 | 181 | 1.5 | ANNUAL | ALL | 1 | | House 8 | RP_H8 |
| 648218.58 | 4076109 | 0.00023 | 185.6 | 300 | 1.5 | ANNUAL | ALL | 1 | | House 9 | RP_H9 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in $\mu g/m^3$.

08/30/21

* AERMET (19191): 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 642179.095 | Y 4078698 4077719 | AVERAGE CONC 0.00097 | ZELEV 258.89 | ZHILL 258.89 | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | 1 |
|---------------------------------------|-------------------------|-------------------------|-----------------|-----------------|-------|--------|-----|---------|--------|---------------------------------|----------|--------|
| 643903.65 642056.782 642179.095 | 4077719 | | 258.89 | 258 80 | 1.7 | | | | | | | |
| 642056.782 642179.095 | | 0.00010 | | 230.09 | 1.5 | ANNUAL | ALL | 1 | | AQ Monitoring Station | AQ_ST_1 | |
| 642179.095 | | 0.00018 | 190.4 | 194 | 1.5 | ANNUAL | ALL | 1 | | Hazel Hawkins Memorial Hospital | CR HP 1 | 1 |
| | 4079416 | 0.0003 | 159.6 | 259 | 1.5 | ANNUAL | ALL | 1 | | Dunne Park | CR PK 1 | 1 |
| 644733.142 | 4079950 | 0.00041 | 183.5 | 259 | 1.5 | ANNUAL | ALL | 1 | | Vista Park Hill Park | CR_PK_2 | 1 |
| | 4078753 | 0.00052 | 224 | 226 | 1.5 | ANNUAL | ALL | 1 | | Las Brisas Park | CR PK 3 | 1 |
| 645608.808 | 4078854 | 0.00086 | 205 | 240 | 1.5 | ANNUAL | ALL | 1 | | Frank Klauer Memorial Park | CR PK 4 | 1 |
| 644238.054 | 4078807 | 0.00044 | 208.8 | 220 | 1.5 | ANNUAL | ALL | 1 | | Veterans Memorial Park | CR PK 5 | 1 |
| 645311.476 | 4076559 | 0.00011 | 134.6 | 181 | 1.5 | ANNUAL | ALL | 1 | | Park 6 | CR PK 6 | 1 |
| 649581.689 | 4073424 | 0.00057 | 185.6 | 300 | 1.5 | ANNUAL | ALL | 1 | | Park 7 | CR_PK_7 | 1 |
| 645145.11 | 4077181 | 0.00015 | 168.8 | 190 | 1.5 | ANNUAL | ALL | 1 | | Cerra Vista Elem School | CR SC 1 | 1 |
| 642904.712 | 4079955 | 0.00051 | 199.9 | 240 | 1.5 | ANNUAL | ALL | 1 | | San Andreas Continuation | CR SC 10 | 1 |
| 645850.678 | 4074015 | 0.00009 | 144.4 | 144.4 | 1.5 | ANNUAL | ALL | 1 | | SouthSide School | CR SC 11 | 1 |
| 642105.679 | 4078176 | 0.00017 | 195.5 | 227 | 1.5 | ANNUAL | ALL | 1 | | School 12 | CR SC 12 | |
| 646058.93 | 4078443 | 0.00083 | 216.4 | 300 | 1.5 | ANNUAL | ALL | 1 | | Rancho Santana School | CR_SC_13 | School |
| 647269 | 4075575 | 0.00015 | 259.56 | 259.56 | 1.5 | ANNUAL | ALL | 1 | | Future School | CR_SC_14 | School |
| 644109.6 | 4078389 | 0.0003 | 173.5 | 191 | 1.5 | ANNUAL | ALL | 1 | | Sunnyslope Elem School | CR SC 2 | 1 |
| 643920.12 | 4077304 | 0.00013 | 166.2 | 166.2 | 1.5 | ANNUAL | ALL | 1 | | Hollister Montessori School | CR SC 3 | 1 |
| 642961.07 | 4078621 | 0.00025 | 145.4 | 253 | 1.5 | ANNUAL | ALL | 1 | | Rancho San Justo Middle School | CR SC 4 | 1 |
| 643980.02 | 4079743 | 0.00065 | 173.9 | 214 | 1.5 | ANNUAL | ALL | 1 | | Marguerite Maze Middle School | CR SC 5 | 1 |
| 641630.17 | 4079153 | 0.00024 | 179.6 | 227 | 1.5 | ANNUAL | ALL | 1 | | Hollister Prep Schoo | CR SC 6 | 1 |
| 643350.03 | 4077181 | 0.00012 | 191 | 226 | 1.5 | ANNUAL | ALL | 1 | | Ladd Lane Elementary School | CR SC 7 | 1 |
| 644002.96 | 4080079 | 0.00076 | 209.2 | 240 | 1.5 | ANNUAL | ALL | 1 | | Gabilan Hills Elementary School | CR SC 8 | 1 |
| 642244.858 | 4078413 | 0.0002 | 233.7 | 240 | 1.5 | ANNUAL | ALL | 1 | | San Benito High School | CR SC 9 | 1 |
| 642083.447 | 4079794 | 0.00037 | 165.4 | 165.4 | 1.5 | ANNUAL | ALL | 1 | | Jovenes De Antano | CR SR 1 | 1 |
| 646402 | 4076879 | 0.00016 | 187.4 | 801 | 1.5 | ANNUAL | ALL | 1 | | Workplace | CR WP 1 | MEIW |
| 648949 | 4077938 | 0.0011 | 256.77 | 266 | 1.5 | ANNUAL | ALL | 1 | | Nearest Workplace | CR_WP_2 | 1 |
| 647744 | 4079173 | 0.00177 | 154.38 | 154.38 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 1 | G1 | 1 |
| 647744 | 4075573 | 0.00016 | 139.22 | 139.22 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 10 | G10 | 1 |
| 651344 | 4075573 | 0.00432 | 140.45 | 140.45 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 100 | G100 | 1 |
| 648144 | 4079173 | 0.00131 | 162.49 | 162.49 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 11 | G11 | 1 |
| 648144 | 4078773 | 0.00183 | 148.99 | 148.99 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 12 | G12 | 1 |
| 648144 | 4078373 | 0.00246 | 154.45 | 159 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 13 | G13 | 1 |
| 648144 | 4077973 | 0.00306 | 225.91 | 227 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 14 | G14 | 1 |
| 648144 | 4077573 | 0.00281 | 168.29 | 168.29 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 15 | G15 | 1 |
| 648144 | 4077173 | 0.00124 | 162.17 | 162.17 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 16 | G16 | 1 |
| 648144 | 4076773 | 0.00036 | 165.39 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 17 | G17 | 1 |
| 648144 | 4076373 | 0.00027 | 147.22 | 147.22 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 18 | G18 | 1 |
| 648144 | 4075973 | 0.00023 | 140.23 | 140.23 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 19 | G19 | 1 |
| | 4078773 | 0.00215 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 2 | G2 | 1 |

08/30/21

* AERMET (19191): 2019

07:51:03

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|--------|---------|--------------|--------|--------|-------|--------|-----|----------------|------------------|-----|
| 648144 | 4075573 | 0.00018 | 144.65 | 144.65 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.00072 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.00103 | 158.62 | 158.62 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.00163 | 162.28 | 162.28 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.00298 | 174.44 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.00457 | 169.05 | 169.05 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.00398 | 159.35 | 159.35 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.00083 | 163.13 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.0006 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.00031 | 147.25 | 147.25 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.00242 | 149.68 | 153 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.00022 | 142.28 | 142.28 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.00039 | 159.45 | 159.45 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.00045 | 158.67 | 158.67 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.0006 | 164.3 | 164.3 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.00103 | 146 | 146 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.00272 | 162.9 | 162.9 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.00086 | 156.78 | 166 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.0005 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.00225 | 213.93 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00034 | 146.76 | 146.76 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00026 | 159.32 | 159.32 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.00027 | 152.34 | 152.34 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.00033 | 164.01 | 164.01 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 0.00046 | 201.97 | 333 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.00205 | 161.42 | 162 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.00928 | 205.79 | 205.79 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.00168 | 157.78 | 166 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.00149 | 164.15 | 164.15 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.00073 | 150.64 | 150.64 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.00019 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00022 | 160.22 | 160.22 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00024 | 151.53 | 152 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.00029 | 196.88 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.00036 | 183.22 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.01678 | 169.6 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.01103 | 126.06 | 126.06 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.00059 | 173.69 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.00265 | 155.4 | 157 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 60 | G60 |

08/30/21

* AERMET (19191): 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET II | Description Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-------------------------|-----|
| 650144 | 4079173 | 0.00018 | 179.58 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.00019 | 161.26 | 161.26 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00021 | 158.51 | 158.51 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.00022 | 197.06 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.001 | 159.5 | 159.5 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.0058 | 184.55 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.01187 | 129.56 | 129.56 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.00024 | 191.28 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.00493 | 127.22 | 127.22 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00017 | 171.51 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00016 | 156.81 | 156.81 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00017 | 146.44 | 146.44 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.0003 | 162.04 | 162.04 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.00116 | 127.13 | 142 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.00673 | 169.38 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.00504 | 132.89 | 132.89 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.00019 | 140.02 | 140.02 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 0.00965 | 130.56 | 130.56 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.00014 | 183.42 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00014 | 156.21 | 156.21 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00018 | 163.83 | 237 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.0006 | 145.99 | 145.99 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.00124 | 215.24 | 287 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.00072 | 163 | 234 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.00125 | 164 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.00217 | 173.83 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.00326 | 139.24 | 139.24 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.0002 | 146.94 | 146.94 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.00474 | 133.89 | 133.89 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00013 | 182.28 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00015 | 168.26 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.0002 | 154.85 | 154.85 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.00053 | 145 | 145 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.00045 | 205.5 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.00075 | 167.93 | 167.93 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.00112 | 163.52 | 163.52 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.00169 | 178.22 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.0024 | 142.68 | 142.68 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 99 | G99 |
| 648584.24 | 4077523 | 0.00488 | 242.23 | 296 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 1 | P1 |

08/30/21

* AERMET (19191): 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET II | D Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-----------------------|-----|
| 649484.05 | 4077537 | 0.00169 | 241.37 | 269 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 10 | P10 |
| 649584.03 | 4077539 | 0.00058 | 209.74 | 209.74 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 11 | P11 |
| 649684.02 | 4077540 | 0.0004 | 246.79 | 251 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00035 | 228.75 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 13 | P13 |
| 649883.99 | 4077542 | 0.00039 | 217.76 | 271 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 14 | P14 |
| 649983.97 | 4077543 | 0.00071 | 221.2 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 15 | P15 |
| 650083.94 | 4077546 | 0.00104 | 220.83 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 16 | P16 |
| 650183.91 | 4077548 | 0.00118 | 223.42 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 17 | P17 |
| 650283.87 | 4077550 | 0.00109 | 222.46 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 18 | P18 |
| 650383.84 | 4077552 | 0.00054 | 223.19 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 19 | P19 |
| 648684.22 | 4077525 | 0.00534 | 259.71 | 290 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 2 | P2 |
| 650483.81 | 4077554 | 0.00054 | 222.1 | 249 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 20 | P20 |
| 650583.78 | 4077557 | 0.0011 | 217.03 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 21 | P21 |
| 650683.75 | 4077559 | 0.001 | 214.25 | 227 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 22 | P22 |
| 650776.81 | 4077554 | 0.00125 | 214.82 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 23 | P23 |
| 650778.91 | 4077454 | 0.0014 | 214.91 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.00161 | 214.09 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 25 | P25 |
| 650783.1 | 4077254 | 0.00119 | 211.53 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 26 | P26 |
| 650785.19 | 4077154 | 0.00145 | 210.17 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 27 | P27 |
| 650787.29 | 4077054 | 0.00135 | 208.52 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 28 | P28 |
| 650789.38 | 4076954 | 0.00137 | 207.5 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 29 | P29 |
| 648784.19 | 4077527 | 0.00543 | 257.58 | 296 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 3 | P3 |
| 650791.48 | 4076854 | 0.00191 | 205.17 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 30 | P30 |
| 650793.57 | 4076754 | 0.00144 | 202.16 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 31 | P31 |
| 650754.39 | 4076683 | 0.00147 | 196.38 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 32 | P32 |
| 650660.22 | 4076650 | 0.00163 | 221.41 | 221.41 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 33 | P33 |
| 650561.43 | 4076650 | 0.00169 | 195.87 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 34 | P34 |
| 650462.72 | 4076666 | 0.00174 | 196.32 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 35 | P35 |
| 650364.01 | 4076682 | 0.00174 | 192.42 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 36 | P36 |
| 650264.24 | 4076683 | 0.00183 | 192.46 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 37 | P37 |
| 650164.71 | 4076674 | 0.00195 | 191.63 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 38 | P38 |
| 650065.8 | 4076660 | 0.00212 | 186.32 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 39 | P39 |
| 648884.17 | 4077529 | 0.00409 | 267.9 | 296 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 4 | P4 |
| 649980.44 | 4076627 | 0.00258 | 179.81 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 40 | P40 |
| 649920.26 | 4076547 | 0.00408 | 176.23 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 41 | P41 |
| 649852.19 | 4076474 | 0.00707 | 175.02 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 42 | P42 |
| 649770.68 | 4076417 | 0.0127 | 180.62 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 43 | P43 |
| 649680.48 | 4076375 | 0.02151 | 216.54 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 44 | P44 |
| 649580.91 | 4076368 | 0.03085 | 183.47 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 45 | P45 |

08/30/21

* AERMET (19191): 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| *** | | | | | | | | | | |
|-----------|---------|--------------|--------|--------|-------|---------|-----|----------------|-----------------------|-------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 649482.48 | 4076384 | 0.03565 | 202.88 | 245 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 46 | P46 |
| 649391.59 | 4076425 | 0.02348 | 178.21 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 47 | P47 |
| 649303.5 | 4076472 | 0.00242 | 176.25 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 48 | P48 |
| 649226.19 | 4076535 | 0.00083 | 176 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 49 | P49 |
| 648984.14 | 4077530 | 0.00246 | 275.91 | 275.91 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 5 | P5 |
| 649156.2 | 4076605 | 0.00289 | 175.24 | 245 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 50 | P50 |
| 649068.25 | 4076653 | 0.00359 | 175.13 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 51 | P51 |
| 648986.7 | 4076711 | 0.00368 | 230.71 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 52 | P52 |
| 648936.53 | 4076759 | 0.00399 | 248.08 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 53 | P53 |
| 648868.58 | 4076833 | 0.0044 | 258.43 | 258.43 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 54 | P54 |
| 648797.23 | 4076902 | 0.00428 | 127.38 | 127.38 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 55 | P55 |
| 648710.56 | 4076952 | 0.00345 | 131.21 | 131.21 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 56 | P56 |
| 648620.79 | 4076996 | 0.0028 | 135.89 | 135.89 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 57 | P57 |
| 648607.19 | 4077051 | 0.00331 | 139.18 | 139.18 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 58 | P58 |
| 648680.07 | 4077119 | 0.00517 | 140.76 | 140.76 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 59 | P59 |
| 649084.12 | 4077532 | 0.00137 | 265.73 | 281 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 6 | P6 |
| 648759.24 | 4077180 | 0.00672 | 143.89 | 143.89 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 60 | P60 |
| 648791.44 | 4077262 | 0.00769 | 145.22 | 145.22 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 61 | P61 |
| 648788.45 | 4077362 | 0.00588 | 147.21 | 147.21 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 62 | P62 |
| 648691.25 | 4077361 | 0.00566 | 148.3 | 160 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 63 | P63 |
| 648591.35 | 4077357 | 0.00502 | 127.58 | 127.58 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 64 | P64 |
| 648525.69 | 4077371 | 0.00454 | 130.56 | 130.56 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 65 | P65 |
| 648586.93 | 4077430 | 0.00495 | 134.35 | 134.35 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 66 | P66 |
| 649184.09 | 4077534 | 0.00095 | 251.08 | 282 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 7 | P7 |
| 649284.08 | 4077535 | 0.00176 | 252.83 | 281 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 8 | P8 |
| 649384.06 | 4077536 | 0.00242 | 246.1 | 269 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.00048 | 177 | 830 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646030 | 4077983 | 0.00051 | 180.9 | 830 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646130 | 4077983 | 0.00055 | 196.6 | 830 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646230 | 4077983 | 0.00059 | 236.9 | 801 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646330 | 4077983 | 0.00063 | 261.3 | 287 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646430 | 4077983 | 0.00068 | 260.9 | 260.9 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646530 | 4077983 | 0.00073 | 226.7 | 287 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646630 | 4077983 | 0.00079 | 164 | 164 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646730 | 4077983 | 0.00086 | 268.2 | 287 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 645930 | 4078083 | 0.00054 | 181.3 | 830 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646030 | 4078083 | 0.00058 | 178.4 | 830 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| | 4078083 | 0.00062 | 214.8 | 830 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646130 | | | | | 1.5 | THITTLE | | 1 | | |

08/30/21

* AERMET (19191): 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 1 OIU | 1711. (71,171, | ,3(11,113.3),3(11,116.2) | ,221,110,211,1 | 10,271,10.0,2 | 221,210) | | | | | |
|------------------------|--------------------|--------------------------|----------------|---------------|----------|------------------|------------|-------------|------------------|-----------------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET | ID Description | ID |
| 646330 | 4078083 | 0.00071 | 276.5 | 296 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078083 | 0.00076 | 225.6 | 296 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646530 | 4078083 | 0.00082 | 219.8 | 267 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646630 | 4078083 | 0.00089 | 209.2 | 273 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646730 | 4078083 | 0.00097 | 216.6 | 287 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 645930 | 4078183 | 0.0006 | 160.7 | 160.7 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646030 | 4078183 | 0.00064 | 243.2 | 289 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646130 | 4078183 | 0.00069 | 191 | 830 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646230 | 4078183 | 0.00073 | 181 | 830 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646330 | 4078183 | 0.00079 | 214.3 | 830 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646430 | 4078183 | 0.00084 | 248.4 | 826 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646530 | 4078183 | 0.00091 | 213.2 | 826 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646630 | 4078183 | 0.00099 | 213.6 | 813 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646730 | 4078183 | 0.00108 | 203.5 | 813 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 645930 | 4078283 | 0.00067 | 205.6 | 220 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646030 | 4078283 | 0.00071 | 205.8 | 269 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646130 | 4078283 | 0.00076 | 183.61 | 227 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646230 | 4078283 | 0.00081 | 254.01 | 257 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646330 | 4078283 | 0.00087 | 235.3 | 259 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646430 | 4078283 | 0.00093 | 221.29 | 259 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646530 | 4078283 | 0.00101 | 222.37 | 260 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646630 | 4078283 | 0.00109 | 233.6 | 259 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646730 | 4078283 | 0.00119 | 249.54 | 259 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 648659.32 | 4077241 | 0.00649 | 123.85 | 123.85 | 1.5 | ANNUAL | ALL | 1 | House 1 | RP H1 |
| 648071.24 | 4076116 | 0.00049 | 133 | 133 | 1.5 | ANNUAL | ALL | 1 | House 10 | RP H10 |
| 648247.37 | 4076278 | 0.00024 | 86 | 86 | 1.5 | ANNUAL | ALL | 1 | House 11 | RP H11 |
| 648027.19 | 4076255 | 0.00029 | 123 | 313 | 1.5 | ANNUAL | ALL | 1 | House 12 | RP H12 |
| 648065.77 | 4076359 | 0.00024 | 91 | 91 | 1.5 | ANNUAL | ALL | 1 | House 13 | RP H13 |
| 648138.68 | 4076400 | 0.00025 | 128.52 | 128.52 | 1.5 | ANNUAL | ALL | 1 | House 14 | RP H14 |
| 648254.71 | 4076411 | 0.00020 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | House 15 | RP H15 |
| 647877.81 | 4076365 | 0.00031 | 98.2 | 98.2 | 1.5 | ANNUAL | ALL | 1 | House 16 | RP H16 |
| 647866.6 | 4076240 | 0.00021 | 101.23 | 101.23 | 1.5 | ANNUAL | ALL | 1 | House 17 | RP H17 |
| 647921 | 4076240 | 0.00021 | 92 | 92 | 1.5 | ANNUAL | ALL | 1 | House 18 | RP_H17 |
| | | | 88 | 88 | | | | 1 | | |
| 647708.78 648371.71 | 4076352 4075470 | 0.00019 0.00019 | 105.68 | 105.68 | 1.5 | ANNUAL ANNUAL | ALL ALL | 1 | House 19 House 2 | RP_H19 RP H2 |
| | | | | | | | | 1 | | |
| 647703.58 | 4076251 | 0.00019 | 85 | 85 | 1.5 | ANNUAL | ALL | 1 | House 20 | RP_H20 |
| 647718.77 | 4076104 | 0.0002 | 98.22 | 98.22 | 1.5 | ANNUAL | ALL | <u>l</u> | House 21 | RP_H21 |
| 647843.32 | 4076125 | 0.00021 | 87 | 87 | 1.5 | ANNUAL | ALL | 1 | House 22 | RP_H22 |
| 647842.26 | 4076500 | 0.00021 | 90.17 | 90.17 | 1.5 | ANNUAL | ALL | I | House 23 | RP_H23 |

08/30/21

* AERMET (19191): 2019

07:51:03

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | 5(174,1 19:5),5(174,1 0:2) | | | | 4 7 777 | CDP | NITING AND CO. | VEGET VE | | TD. |
|-----------|---------|----------------------------|--------|--------|-------|---------|-----|----------------|----------|-------------|---------|
| X | Y | AVERAGE CONC | ZELEV | | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
| 647727.75 | 4076644 | 0.00021 | 87.58 | 127 | 1.5 | ANNUAL | ALL | 1 | | House 24 | RP_H24 |
| 647823.91 | 4076644 | 0.00022 | 146.33 | 153 | 1.5 | ANNUAL | ALL | 1 | | House 25 | RP_H25 |
| 647886.51 | 4076593 | 0.00022 | 189.45 | 259 | 1.5 | ANNUAL | ALL | 1 | | House 26 | RP_H26 |
| 647810.11 | 4076854 | 0.00029 | 155.2 | 155.2 | 1.5 | ANNUAL | ALL | 1 | | House 27 | RP_H27 |
| 647697.48 | 4076989 | 0.00035 | 160 | 160 | 1.5 | ANNUAL | ALL | 1 | | House 28 | RP_H28 |
| 648225.5 | 4076182 | 0.00028 | 252.9 | 252.9 | 1.5 | ANNUAL | ALL | 1 | | House 29 | RP_H29 |
| 647678.23 | 4075969 | 0.00019 | 85.12 | 85.12 | 1.5 | ANNUAL | ALL | 1 | | House 3 | RP_H3 |
| 645876.32 | 4077487 | 0.00026 | 165.9 | 165.9 | 1.5 | ANNUAL | ALL | 1 | | House 30 | RP_H30 |
| 650902 | 4076062 | 0.00315 | 159.6 | 159.6 | 1.5 | ANNUAL | ALL | 1 | | House 31 | RP_H31 |
| 651490 | 4076597 | 0.00129 | 146.2 | 146.2 | 1.5 | ANNUAL | ALL | 1 | | House 32 | RP_H32 |
| 651565 | 4077067 | 0.00087 | 158.3 | 181 | 1.5 | ANNUAL | ALL | 1 | | House 33 | RP_H33 |
| 648672.77 | 4075307 | 0.0003 | 166.6 | 179 | 1.5 | ANNUAL | ALL | 1 | | House 34 | RP_H34 |
| 648383.6 | 4075469 | 0.00019 | 175.4 | 175.4 | 1.5 | ANNUAL | ALL | 1 | | House 35 | RP_H35 |
| 646379.37 | 4077233 | 0.00023 | 177.1 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 36 | RP_H36 |
| 651849.72 | 4075865 | 0.00192 | 178 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 37 | RP_H37 |
| 652045.49 | 4076210 | 0.00141 | 173 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 38 | RP_H38 |
| 652255.69 | 4076391 | 0.00117 | 145.4 | 145.4 | 1.5 | ANNUAL | ALL | 1 | | House 39 | RP H39 |
| 647815.25 | 4075985 | 0.0002 | 117.99 | 117.99 | 1.5 | ANNUAL | ALL | 1 | | House 4 | RP H4 |
| 646853.73 | 4077373 | 0.00037 | 160.9 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 40 | RP H40 |
| 647050.21 | 4077360 | 0.00042 | 200.5 | 221 | 1.5 | ANNUAL | ALL | 1 | | House 41 | RP_H41 |
| 647286.42 | 4077474 | 0.00067 | 229 | 253 | 1.5 | ANNUAL | ALL | 1 | | House 42 | RP H42 |
| 647359.05 | 4077340 | 0.00055 | 253.3 | 259 | 1.5 | ANNUAL | ALL | 1 | | House 43 | RP H43 |
| 647490.41 | 4077329 | 0.00062 | 220.2 | 263 | 1.5 | ANNUAL | ALL | 1 | | House 44 | RP H44 |
| 647522.17 | 4077252 | 0.00054 | 227.2 | 227.2 | 1.5 | ANNUAL | ALL | 1 | | House 45 | RP H45 |
| 647517.82 | 4077139 | 0.00041 | 163.8 | 171 | 1.5 | ANNUAL | ALL | 1 | | House 46 | RP H46 |
| 646819.01 | 4077258 | 0.0003 | 205.5 | 300 | 1.5 | ANNUAL | ALL | 1 | | House 47 | RP H47 |
| 646778.72 | 4077128 | 0.00024 | 176.1 | 830 | 1.5 | ANNUAL | ALL | 1 | | House 48 | RP H48 |
| 646987.26 | 4077213 | 0.00031 | 195 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 49 | RP H49 |
| 647898.2 | 4076033 | 0.00021 | 106.44 | 106.44 | 1.5 | ANNUAL | ALL | 1 | | House 5 | RP H5 |
| 647241.77 | 4077227 | 0.00038 | 196.1 | 227 | 1.5 | ANNUAL | ALL | 1 | | House 50 | RP H50 |
| 646773.05 | 4077063 | 0.00022 | 215.3 | 251 | 1.5 | ANNUAL | ALL | 1 | | House 51 | RP H51 |
| 647104.37 | 4077118 | 0.00028 | 221.6 | 259 | 1.5 | ANNUAL | ALL | 1 | | House 52 | RP H52 |
| 647291.9 | 4077123 | 0.00033 | 211.7 | 266 | 1.5 | ANNUAL | ALL | 1 | | House 53 | RP H53 |
| 646765.24 | 4076978 | 0.0002 | 237.7 | 257 | 1.5 | ANNUAL | ALL | 1 | | House 54 | RP H54 |
| 646995.65 | 4076984 | 0.00022 | 158.4 | 171 | 1.5 | ANNUAL | ALL | 1 | | House 55 | RP H55 |
| 647317.21 | 4077031 | 0.00028 | 204.2 | 300 | 1.5 | ANNUAL | ALL | 1 | | House 56 | RP H56 |
| 647398.39 | 4077013 | 0.00029 | 173 | 830 | 1.5 | ANNUAL | ALL | 1 | | House 57 | RP H57 |
| 646978.93 | 4076904 | 0.00019 | 171 | 830 | 1.5 | ANNUAL | ALL | 1 | | House 58 | RP H58 |
| 647015.19 | | 0.00017 | 204.6 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 59 | RP H59 |
| 07/013.19 | 10/000/ | 0.00017 | 207.0 | 015 | 1.5 | MINIOAL | ALL | 1 | | 110050 37 | M _115) |

08/30/21

* AERMET (19191): 2019

07:51:03

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------|--------|-------------|--------|
| 648045.44 | 4076018 | 0.00023 | 112.86 | 112.86 | 1.5 | ANNUAL | ALL | 1 | | House 6 | RP_H6 |
| 647163.96 | 4076802 | 0.00018 | 216.5 | 290 | 1.5 | ANNUAL | ALL | 1 | | House 60 | RP_H60 |
| 647310.58 | 4076940 | 0.00024 | 257.7 | 257.7 | 1.5 | ANNUAL | ALL | 1 | | House 61 | RP_H61 |
| 647298.09 | 4076805 | 0.0002 | 231.4 | 272 | 1.5 | ANNUAL | ALL | 1 | | House 62 | RP_H62 |
| 647446.56 | 4076900 | 0.00024 | 249.4 | 266 | 1.5 | ANNUAL | ALL | 1 | | House 63 | RP_H63 |
| 647464.49 | 4076781 | 0.00021 | 164.7 | 164.7 | 1.5 | ANNUAL | ALL | 1 | | House 64 | RP_H64 |
| 647512 | 4076536 | 0.00017 | 242.37 | 290 | 1.5 | ANNUAL | ALL | 1 | | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00014 | 197.16 | 227 | 1.5 | ANNUAL | ALL | 1 | | House 66 | RP_H66 |
| 648126.33 | 4075955 | 0.00023 | 95.25 | 95.25 | 1.5 | ANNUAL | ALL | 1 | | House 7 | RP_H7 |
| 648249.26 | 4075970 | 0.00025 | 134.61 | 134.61 | 1.5 | ANNUAL | ALL | 1 | | House 8 | RP_H8 |
| 648218.58 | 4076109 | 0.00027 | 159.96 | 318 | 1.5 | ANNUAL | ALL | 1 | | House 9 | RP_H9 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in $\mu g/m^3$.

08/30/21

* AERMET (21112): 2020

07:50:54

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| · FORMAT | : (A,1A,3(1A | ,613.3),3(1A,68.2),2A,A0,2A,F | 40,2A,10.0,2A,A | .0) | | | | | | | | _ |
|------------|--------------|-------------------------------|-----------------|--------|-------|--------|-----|---------|--------|---------------------------------|----------|------|
| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
| 648659.32 | 4077241 | 0.00373 | 205.79 | 205.79 | 1.5 | ANNUAL | ALL | 1 | | House 1 | RP_H1 | MEIR |
| 648371.71 | 4075470 | 0.00029 | 173.69 | 227 | 1.5 | ANNUAL | ALL | 1 | | House 2 | RP_H2 | |
| 647678.23 | 4075969 | 0.0002 | 159.5 | 159.5 | 1.5 | ANNUAL | ALL | 1 | | House 3 | RP_H3 | |
| 647815.25 | 4075985 | 0.00022 | 162.04 | 162.04 | 1.5 | ANNUAL | ALL | 1 | | House 4 | RP_H4 | |
| 647898.2 | 4076033 | 0.00024 | 163.83 | 237 | 1.5 | ANNUAL | ALL | 1 | | House 5 | RP_H5 | |
| 648045.44 | 4076018 | 0.00026 | 168.26 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 6 | RP_H6 | |
| 648126.33 | 4075955 | 0.00028 | 171.51 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 7 | RP_H7 | |
| 648249.26 | 4075970 | 0.00032 | 183.42 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 8 | RP_H8 | |
| 648218.58 | 4076109 | 0.00032 | 182.28 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 9 | RP_H9 | |
| 648071.24 | 4076116 | 0.00028 | 169.6 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 10 | RP_H10 | |
| 648247.37 | 4076278 | 0.00036 | 184.55 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 11 | RP_H11 | |
| 648027.19 | 4076255 | 0.00028 | 169.38 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 12 | RP_H12 | |
| 648065.77 | 4076359 | 0.00031 | 173.83 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 13 | RP_H13 | |
| 648138.68 | 4076400 | 0.00034 | 178.22 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 14 | RP_H14 | |
| 648254.71 | 4076411 | 0.0004 | 191.28 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 15 | RP_H15 | |
| 647877.81 | 4076365 | 0.00027 | 165.39 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 16 | RP_H16 | |
| 647866.6 | 4076240 | 0.00025 | 163.13 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 17 | RP_H17 | |
| 647921 | 4076247 | 0.00026 | 164 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 18 | RP_H18 | |
| 647708.78 | 4076352 | 0.00024 | 163.52 | 163.52 | 1.5 | ANNUAL | ALL | 1 | | House 19 | RP_H19 | |
| 647703.58 | 4076251 | 0.00023 | 162.17 | 162.17 | 1.5 | ANNUAL | ALL | 1 | | House 20 | RP_H20 | |
| 647718.77 | 4076104 | 0.00021 | 159.35 | 159.35 | 1.5 | ANNUAL | ALL | 1 | | House 21 | RP_H21 | |
| 647843.32 | 4076125 | 0.00023 | 163 | 234 | 1.5 | ANNUAL | ALL | 1 | | House 22 | RP_H22 | |
| 647842.26 | 4076500 | 0.00029 | 167.93 | 167.93 | 1.5 | ANNUAL | ALL | 1 | | House 23 | RP_H23 | |
| 647727.75 | 4076644 | 0.0003 | 164.15 | 164.15 | 1.5 | ANNUAL | ALL | 1 | | House 24 | RP_H24 | |
| 647823.91 | 4076644 | 0.00032 | 168.29 | 168.29 | 1.5 | ANNUAL | ALL | 1 | | House 25 | RP_H25 | |
| 647886.51 | 4076593 | 0.00032 | 169.05 | 169.05 | 1.5 | ANNUAL | ALL | 1 | | House 26 | RP_H26 | |
| 647810.11 | 4076854 | 0.00039 | 162.9 | 162.9 | 1.5 | ANNUAL | ALL | 1 | | House 27 | RP_H27 | |
| 647697.48 | 4076989 | 0.00042 | 161.42 | 162 | 1.5 | ANNUAL | ALL | 1 | | House 28 | RP_H28 | |
| 648225.5 | 4076182 | 0.00033 | 183.22 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 29 | RP_H29 | |
| 645876.32 | 4077487 | 0.00026 | 127.13 | 142 | 1.5 | ANNUAL | ALL | 1 | | House 30 | RP_H30 | |
| 650902 | 4076062 | 0.00261 | 215.24 | 287 | 1.5 | ANNUAL | ALL | 1 | | House 31 | RP_H31 | |
| 651490 | 4076597 | 0.00122 | 205.5 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 32 | RP_H32 | |
| 651565 | 4077067 | 0.0007 | 213.93 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 33 | RP_H33 | |
| 648672.77 | 4075307 | 0.0004 | 225.91 | 227 | 1.5 | ANNUAL | ALL | 1 | | House 34 | RP_H34 | |
| 648383.6 | 4075469 | 0.00029 | 174.44 | 227 | 1.5 | ANNUAL | ALL | 1 | | House 35 | RP_H35 | |
| 646379.37 | 4077233 | 0.00026 | 146 | 146 | 1.5 | ANNUAL | ALL | 1 | | House 36 | RP_H36 | |
| 651849.72 | 4075865 | 0.00163 | 201.97 | 333 | 1.5 | ANNUAL | ALL | 1 | | House 37 | RP_H37 | |
| 652045.49 | 4076210 | 0.00126 | 196.88 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 38 | RP_H38 | |
| 652255.69 | 4076391 | 0.0011 | 197.06 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 39 | RP_H39 | |
| 645145.11 | 4077181 | 0.0002 | 133 | 133 | 1.5 | ANNUAL | ALL | 1 | | Cerra Vista Elem School | CR_SC_1 | |
| 644109.6 | 4078389 | 0.00027 | 98.2 | 98.2 | 1.5 | ANNUAL | ALL | 1 | | Sunnyslope Elem School | CR_SC_2 | |
| 643920.12 | 4077304 | 0.00018 | 101.23 | 101.23 | 1.5 | ANNUAL | ALL | 1 | | Hollister Montessori School | CR_SC_3 | |
| 642961.07 | 4078621 | 0.00024 | 92 | 92 | 1.5 | ANNUAL | ALL | 1 | | Rancho San Justo Middle School | CR_SC_4 | |
| 643980.02 | 4079743 | 0.00055 | 88 | 88 | 1.5 | ANNUAL | ALL | 1 | | Marguerite Maze Middle School | CR_SC_5 | |
| 641630.17 | 4079153 | 0.00023 | 85 | 85 | 1.5 | ANNUAL | ALL | 1 | | Hollister Prep Schoo | CR_SC_6 | |
| 643350.03 | 4077181 | 0.00018 | 98.22 | 98.22 | 1.5 | ANNUAL | ALL | 1 | | Ladd Lane Elementary School | CR_SC_7 | |
| 644002.96 | 4080079 | 0.00063 | 87 | 87 | 1.5 | ANNUAL | ALL | 1 | | Gabilan Hills Elementary School | CR_SC_8 | |
| 642244.858 | 4078413 | 0.00019 | 90.17 | 90.17 | 1.5 | ANNUAL | ALL | 1 | | San Benito High School | CR_SC_9 | |
| 642904.712 | 4079955 | 0.00043 | 86 | 86 | 1.5 | ANNUAL | ALL | 1 | | San Andreas Continuation | CR_SC_10 | |
| | | | | | | | | | | | | - |

08/30/21

* AERMET (21112): 2020

07:50:54

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 284 RECEPTORS. FORMAT: (A.1X.3(1X.F13.5).3(1X.F8.2).2X.A6.2X.A8.2X.18.8.2X.A8)

| | Γ: (A,1X,3(1X, | F13.5),3(1X,F8.2),2X,A6,2X, | | | | | | | | | | |
|------------|----------------|-----------------------------|--------|--------|-------|----------------|------|---------|--------|---------------------------------|----------|--------|
| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
| 645850.678 | 4074015 | 0.00013 | 123 | 313 | 1.5 | ANNUAL | ALL | 1 | | SouthSide School | CR_SC_11 | |
| 642105.679 | 4078176 | 0.00018 | 91 | 91 | 1.5 | ANNUAL | ALL | 1 | | School 12 | CR_SC_12 | |
| 643903.65 | 4077719 | 0.0002 | 105.68 | 105.68 | 1.5 | ANNUAL | ALL | 1 | | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642083.447 | 4079794 | 0.00031 | 87.58 | 127 | 1.5 | ANNUAL | ALL | 1 | | Jovenes De Antano | CR_SR_1 | |
| 642056.782 | 4079416 | 0.00027 | 85.12 | 85.12 | 1.5 | ANNUAL | ALL | 1 | | Dunne Park | CR_PK_1 | |
| 642179.095 | 4079950 | 0.00035 | 117.99 | 117.99 | 1.5 | ANNUAL | ALL | 1 | | Vista Park Hill Park | CR_PK_2 | |
| 644733.142 | 4078753 | 0.00042 | 106.44 | 106.44 | 1.5 | ANNUAL | ALL | 1 | | Las Brisas Park | CR_PK_3 | |
| 645608.808 | 4078854 | 0.00066 | 112.86 | 112.86 | 1.5 | ANNUAL | ALL | 1 | | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238.054 | 4078807 | 0.00035 | 95.25 | 95.25 | 1.5 | ANNUAL | ALL | 1 | | Veterans Memorial Park | CR_PK_5 | |
| 645311.476 | 4076559 | 0.00016 | 134.61 | 134.61 | 1.5 | ANNUAL | ALL | 1 | | Park 6 | CR_PK_6 | |
| 649581.689 | 4073424 | 0.00074 | 159.96 | 318 | 1.5 | ANNUAL | ALL | 1 | | Park 7 | CR_PK_7 | |
| 646402 | 4076879 | 0.00021 | 146.33 | 153 | 1.5 | ANNUAL | ALL | 1 | | Workplace | CR_WP_1 | MEIW |
| 646853.73 | 4077373 | 0.00036 | 145.99 | 145.99 | 1.5 | ANNUAL | ALL | 1 | | House 40 | RP_H40 | |
| 647050.21 | 4077360 | 0.0004 | 145 | 145 | 1.5 | ANNUAL | ALL | 1 | | House 41 | RP_H41 | |
| 647286.42 | 4077474 | 0.00056 | 149.68 | 153 | 1.5 | ANNUAL | ALL | 1 | | House 42 | RP_H42 | |
| 647359.05 | 4077340 | 0.0005 | 154.45 | 159 | 1.5 | ANNUAL | ALL | 1 | | House 43 | RP_H43 | |
| 647490.41 | 4077329 | 0.00056 | 162.28 | 162.28 | 1.5 | ANNUAL | ALL | 1 | | House 44 | RP_H44 | |
| 647522.17 | 4077252 | 0.00051 | 164.3 | 164.3 | 1.5 | ANNUAL | ALL | 1 | | House 45 | RP_H45 | |
| 647517.82 | 4077139 | 0.00044 | 164.01 | 164.01 | 1.5 | ANNUAL | ALL | 1 | | House 46 | RP_H46 | |
| 646819.01 | 4077258 | 0.00032 | 151.53 | 152 | 1.5 | ANNUAL | ALL | 1 | | House 47 | RP_H47 | |
| 646778.72 | 4077128 | 0.00028 | 158.51 | 158.51 | 1.5 | ANNUAL | ALL | 1 | | House 48 | RP_H48 | |
| 646987.26 | 4077213 | 0.00033 | 146.44 | 146.44 | 1.5 | ANNUAL | ALL | 1 | | House 49 | RP_H49 | |
| 647241.77 | 4077227 | 0.00039 | 154.85 | 154.85 | 1.5 | ANNUAL | ALL | 1 | | House 50 | RP_H50 | |
| 646773.05 | 4077063 | 0.00027 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | | House 51 | RP_H51 | |
| 647104.37 | 4077118 | 0.00032 | 148.99 | 148.99 | 1.5 | ANNUAL | ALL | 1 | | House 52 | RP_H52 | |
| 647291.9 | 4077123 | 0.00036 | 158.62 | 158.62 | 1.5 | ANNUAL | ALL | 1 | | House 53 | RP_H53 | |
| 646765.24 | 4076978 | 0.00025 | 158.67 | 158.67 | 1.5 | ANNUAL | ALL | 1 | | House 54 | RP_H54 | |
| 646995.65 | 4076984 | 0.00027 | 152.34 | 152.34 | 1.5 | ANNUAL | ALL | 1 | | House 55 | RP_H55 | |
| 647317.21 | 4077031 | 0.00033 | 160.22 | 160.22 | 1.5 | ANNUAL | ALL | 1 | | House 56 | RP_H56 | |
| 647398.39 | 4077013 | 0.00034 | 161.26 | 161.26 | 1.5 | ANNUAL | ALL | 1 | | House 57 | RP_H57 | |
| 646978.93 | 4076904 | 0.00026 | 156.81 | 156.81 | 1.5 | ANNUAL | ALL | 1 | | House 58 | RP_H58 | |
| 647015.19 | 4076807 | 0.00024 | 156.21 | 156.21 | 1.5 | ANNUAL | ALL | 1 | | House 59 | RP_H59 | |
| 647163.96 | 4076802 | 0.00025 | 154.38 | 154.38 | 1.5 | ANNUAL | ALL | 1 | | House 60 | RP_H60 | |
| 647310.58 | 4076940 | 0.00031 | 162.49 | 162.49 | 1.5 | ANNUAL | ALL | 1 | | House 61 | RP_H61 | |
| 647298.09 | 4076805 | 0.00027 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | | House 62 | RP_H62 | |
| 647446.56 | 4076900 | 0.00032 | 159.45 | 159.45 | 1.5 | ANNUAL | ALL | 1 | | House 63 | RP_H63 | |
| 647464.49 | 4076781 | 0.00029 | 159.32 | 159.32 | 1.5 | ANNUAL | ALL | 1 | | House 64 | RP_H64 | |
| 646058.93 | 4078443 | 0.00064 | 128.52 | 128.52 | 1.5 | ANNUAL | ALL | 1 | | Rancho Santana School | CR_SC_13 | School |
| 645930 | 4077983 | 0.00039 | 127.38 | 127.38 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646030 | 4077983 | 0.00042 | 131.21 | 131.21 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646130 | 4077983 | 0.00044 | 135.89 | 135.89 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646230 | 4077983 | 0.00047 | 139.18 | 139.18 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646330 | 4077983 | 0.0005 | 140.76 | 140.76 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646430 | 4077983 | 0.00054 | 143.89 | 143.89 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | 1 |
| 646530 | 4077983 | 0.00058 | 145.22 | 145.22 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | 1 |
| 646630 | 4077983 | 0.00061 | 147.21 | 147.21 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | 1 |
| 646730 | 4077983 | 0.00066 | 148.3 | 160 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 645930 | 4078083 | 0.00043 | 127.58 | 127.58 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646030 | 4078083 | 0.00046 | 130.56 | 130.56 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 0 10050 | 1070003 | 0.00010 | 150.50 | 150.50 | 1.5 | . 11 11 10 111 | 1111 | | | Tien Development | 101_01 | I . |

08/30/21

* AERMET (21112): 2020

07:50:54

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | F13.5),3(1X,F8.2),2X,A6,2X, | | | | | | | | | |
|-----------|---------|-----------------------------|--------|--------|-------|----------|-----|---------|--------|-----------------------|----------|
| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
| 646130 | 4078083 | 0.00049 | 134.35 | 134.35 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646230 | 4078083 | 0.00052 | 139.22 | 139.22 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646330 | 4078083 | 0.00056 | 144.65 | 144.65 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646430 | 4078083 | 0.00059 | 142.28 | 142.28 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646530 | 4078083 | 0.00063 | 146.76 | 146.76 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646630 | 4078083 | 0.00067 | 150.64 | 150.64 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646730 | 4078083 | 0.00072 | 155.4 | 157 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 645930 | 4078183 | 0.00048 | 127.22 | 127.22 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646030 | 4078183 | 0.00051 | 130.56 | 130.56 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646130 | 4078183 | 0.00054 | 133.89 | 133.89 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646230 | 4078183 | 0.00058 | 140.45 | 140.45 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646330 | 4078183 | 0.00061 | 146.94 | 146.94 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646430 | 4078183 | 0.00064 | 140.23 | 140.23 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646530 | 4078183 | 0.00068 | 147.25 | 147.25 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646630 | 4078183 | 0.00073 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646730 | 4078183 | 0.00077 | 157.78 | 166 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 645930 | 4078283 | 0.00053 | 126.06 | 126.06 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646030 | 4078283 | 0.00056 | 129.56 | 129.56 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646130 | 4078283 | 0.00059 | 132.89 | 132.89 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646230 | 4078283 | 0.00062 | 139.24 | 139.24 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646330 | 4078283 | 0.00066 | 142.68 | 142.68 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646430 | 4078283 | 0.00069 | 140.02 | 140.02 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646530 | 4078283 | 0.00073 | 147.22 | 147.22 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646630 | 4078283 | 0.00078 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646730 | 4078283 | 0.00083 | 156.78 | 166 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 645996 | 4078698 | 0.00072 | 123.85 | 123.85 | 1.5 | ANNUAL | ALL | 1 | | AQ Monitoring Station | AQ ST 1 |
| 647269 | 4075575 | 0.00017 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | | Future School | CR SC 14 |
| 648949 | 4077938 | 0.0007 | 189.45 | 259 | 1.5 | ANNUAL | ALL | 1 | | Nearest Workplace | CR WP 2 |
| 647512 | 4076536 | 0.00025 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | | House 65 | RP H65 |
| 651131 | 4078767 | 0.00013 | 179.58 | 830 | 1.5 | ANNUAL | ALL | 1 | | House 66 | RP H66 |
| 648584.24 | 4077523 | 0.00258 | 183.61 | 227 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 1 | P1 |
| 648684.22 | 4077525 | 0.00246 | 197.16 | 227 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 2 | P2 |
| 648784.19 | 4077527 | 0.00218 | 209.74 | 209.74 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 3 | P3 |
| 648884.17 | 4077529 | 0.00165 | 214.25 | 227 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 4 | P4 |
| 648984.14 | 4077530 | 0.0013 | 221.41 | 221.41 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 5 | P5 |
| 649084.12 | 4077532 | 0.00099 | 216.54 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 6 | P6 |
| 649184.09 | 4077534 | 0.0009 | 230.71 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 7 | P7 |
| 649284.08 | 4077535 | 0.00193 | 248.08 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 8 | P8 |
| 649384.06 | 4077536 | 0.00333 | 258.43 | 258.43 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 9 | P9 |
| 649484.05 | 4077537 | 0.00192 | 254.01 | 257 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 10 | P10 |
| 649584.03 | 4077539 | 0.00056 | 235.3 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 11 | P11 |
| 649684.02 | 4077540 | 0.00042 | 221.29 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00039 | 222.37 | 260 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 13 | P13 |
| 649883.99 | 4077542 | 0.00045 | 233.6 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 14 | P14 |
| 649983.97 | 4077543 | 0.00115 | 249.54 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 15 | P15 |
| 650083.94 | 4077546 | 0.00113 | 258.89 | 258.89 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 16 | P16 |
| 650183.91 | 4077548 | 0.00105 | 259.56 | 259.56 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 17 | P17 |
| 650283.87 | 4077550 | 0.00133 | 256.77 | 266 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 18 | P18 |
| 650383.84 | 4077552 | 0.000119 | 242.37 | 290 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 19 | P19 |
| 030363.84 | 4077332 | 0.00030 | 242.37 | 290 | 1.5 | AININUAL | ALL | 1 | | Doundary Fermicies 19 | F 1 7 |

School 2

* AERMOD (19191): Appendix B Attachment - Peak TAC Flare Emissions

08/30/21

* AERMET (21112): 2020

07:50:54

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 1 Oldin 11 | . (11,111,5(111, | F13.3),3(1A,F8.2),2A,A0,2A, | ,710,271,10.0,271,7 | 10) | | | | | | | | |
|------------|------------------|-----------------------------|---------------------|------------|-------|--------|-----|----------|--------|-----------------------|------------|---|
| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
| 650483.81 | 4077554 | 0.00052 | 242.23 | 296 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 20 | P20 | |
| 650583.78 | 4077557 | 0.00089 | 259.71 | 290 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 21 | P21 | |
| 650683.75 | 4077559 | 0.00074 | 257.58 | 296 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 22 | P22 | |
| 650776.81 | 4077554 | 0.00091 | 267.9 | 296 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 23 | P23 | |
| 650778.91 | 4077454 | 0.00106 | 275.91 | 275.91 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 24 | P24 | |
| 650781 | 4077354 | 0.00137 | 265.73 | 281 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 25 | P25 | |
| 650783.1 | 4077254 | 0.00112 | 251.08 | 282 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 26 | P26 | |
| 650785.19 | 4077154 | 0.00142 | 252.83 | 281 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 27 | P27 | |
| 650787.29 | 4077054 | 0.0013 | 246.1 | 269 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 28 | P28 | |
| 650789.38 | 4076954 | 0.00132 | 241.37 | 269 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 29 | P29 | |
| 650791.48 | 4076854 | 0.00197 | 246.79 | 251 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 30 | P30 | П |
| 650793.57 | 4076754 | 0.00128 | 228.75 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 31 | P31 | |
| 650754.39 | 4076683 | 0.00136 | 217.76 | 271 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 32 | P32 | П |
| 650660.22 | 4076650 | 0.00154 | 221.2 | 273 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 33 | P33 | |
| 650561.43 | 4076650 | 0.00161 | 220.83 | 273 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 34 | P34 | П |
| 650462.72 | 4076666 | 0.00164 | 223.42 | 273 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 35 | P35 | |
| 650364.01 | 4076682 | 0.00163 | 222.46 | 263 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 36 | P36 | |
| 650264.24 | 4076683 | 0.00172 | 223.19 | 263 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 37 | P37 | |
| 650164.71 | 4076674 | 0.00185 | 222.1 | 249 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 38 | P38 | П |
| 650065.8 | 4076660 | 0.00205 | 217.03 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 39 | P39 | |
| 649980.44 | 4076627 | 0.00258 | 214.82 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 40 | P40 | |
| 649920.26 | 4076547 | 0.00423 | 214.91 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 41 | P41 | |
| 649852.19 | 4076474 | 0.00704 | 214.09 | 266 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 42 | P42 | |
| 649770.68 | 4076417 | 0.01202 | 211.53 | 266 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 43 | P43 | |
| 649680.48 | 4076375 | 0.02033 | 210.17 | 266 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 44 | P44 | |
| 649580.91 | 4076368 | 0.03022 | 208.52 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 45 | P45 | |
| 649482.48 | 4076384 | 0.03796 | 207.5 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 46 | P46 | - |
| 649391.59 | 4076425 | 0.02985 | 205.17 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 47 | P47 | |
| 649391.39 | 4076472 | 0.02383 | 202.16 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 48 | P48 | |
| 649226.19 | 4076535 | 0.00433 | | | | | ALL | 1 | | | P49 | |
| | | | 196.38 | 264 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 49 | P49 P50 | |
| 649156.2 | 4076605 | 0.00448 | 195.87 | | 1.5 | ANNUAL | | 1 | | Boundary Perimeter 50 | | |
| 649068.25 | 4076653 | 0.00462 | 196.32 | 264 | 1.5 | ANNUAL | ALL | I | | Boundary Perimeter 51 | P51 | ш |
| 648986.7 | 4076711 | 0.00415 | 192.42 | 263 | 1.5 | ANNUAL | ALL | l | | Boundary Perimeter 52 | P52 | |
| 648936.53 | 4076759 | 0.00407 | 192.46 | 250 | 1.5 | ANNUAL | ALL | <u>l</u> | | Boundary Perimeter 53 | P53 | |
| 648868.58 | 4076833 | 0.00391 | 191.63 | 250 | 1.5 | ANNUAL | ALL | l | | Boundary Perimeter 54 | P54 | |
| 648797.23 | 4076902 | 0.00345 | 186.32 | 250 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 55 | P55 | |
| 648710.56 | 4076952 | 0.00271 | 179.81 | 250 | 1.5 | ANNUAL | ALL | l | | Boundary Perimeter 56 | P56 | |
| 648620.79 | 4076996 | 0.00218 | 176.23 | 250 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 57 | P57 | |
| 648607.19 | 4077051 | 0.00238 | 175.02 | 250 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 58 | P58 | |
| 648680.07 | 4077119 | 0.00337 | 180.62 | 250 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 59 | P59 | |
| 648759.24 | 4077180 | 0.0039 | 183.47 | 259 | 1.5 | ANNUAL | ALL | 11 | | Boundary Perimeter 60 | P60 | |
| 648791.44 | 4077262 | 0.00378 | 202.88 | 245 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 61 | P61 | |
| 648788.45 | 4077362 | 0.00277 | 178.21 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 62 | P62 | |
| 648691.25 | 4077361 | 0.00301 | 176.25 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 63 | P63 | |
| 648591.35 | 4077357 | 0.00293 | 176 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 64 | P64 | |
| 648525.69 | 4077371 | 0.00273 | 175.24 | 245 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 65 | P65 | |
| 648586.93 | 4077430 | 0.00277 | 175.13 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 66 | P66 | |
| 647744 | 4075573 | 0.00021 | 160 | 160 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 10 | G10 | |
| 648144 | 4075573 | 0.00027 | 168.8 | 190 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 20 | G20 | |

* AERMOD (19191): Appendix B Attachment - Peak TAC Flare Emissions

08/30/21

* AERMET (21112): 2020

07:50:54

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| ~ | FORMAT | : (A, 1X, 3(1X, | F13.5),3(1X,F8.2),2X,A6,2X,A | | | | | | | | | |
|---|--------|-----------------|------------------------------|--------|-------|-------|-----------|-----|---------|--------|-------------------|------|
| | * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
| | 648544 | 4075573 | 0.00036 | 195.5 | 227 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 30 | G30 |
| | 648944 | 4075573 | 0.00048 | 185.6 | 300 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 40 | G40 |
| | 649344 | 4075573 | 0.00109 | 205.5 | 300 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 50 | G50 |
| | 649744 | 4075573 | 0.00312 | 204.2 | 300 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 60 | G60 |
| | 650144 | 4075573 | 0.00549 | 216.4 | 300 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 70 | G70 |
| | 650544 | 4075573 | 0.01054 | 268.2 | 287 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 80 | G80 |
| | 650944 | 4075573 | 0.00453 | 243.2 | 289 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 90 | G90 |
| | 651344 | 4075573 | 0.00414 | 252.9 | 252.9 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 100 | G100 |
| | 647744 | 4075973 | 0.00021 | 160.7 | 160.7 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 9 | G9 |
| | 648144 | 4075973 | 0.00029 | 173 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 19 | G19 |
| | 648544 | 4075973 | 0.00046 | 199.9 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 29 | G29 |
| | 648944 | 4075973 | 0.00082 | 208.8 | 220 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 39 | G39 |
| | 649344 | 4075973 | 0.00246 | 227.2 | 227.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 49 | G49 |
| | 649744 | 4075973 | 0.01336 | 237.7 | 257 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 59 | G59 |
| | 650144 | 4075973 | 0.01195 | 249.4 | 266 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 69 | G69 |
| | 650544 | 4075973 | 0.00423 | 226.7 | 287 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 79 | G79 |
| | 650944 | 4075973 | 0.00267 | 216.6 | 287 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 89 | G89 |
| | 651344 | 4075973 | 0.002 | 205.8 | 269 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 99 | G99 |
| | 647744 | 4076373 | 0.00025 | 164 | 164 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 8 | G8 |
| | 648144 | 4076373 | 0.00034 | 178 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 18 | G18 |
| | 648544 | 4076373 | 0.00077 | 233.7 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 28 | G28 |
| | 648944 | 4076373 | 0.00139 | 205 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 38 | G38 |
| | 649344 | 4076373 | 0.01318 | 220.2 | 263 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 48 | G48 |
| | 649744 | 4076373 | 0.01568 | 211.7 | 266 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 58 | G58 |
| | 650144 | 4076373 | 0.00529 | 231.4 | 272 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 68 | G68 |
| | 650544 | 4076373 | 0.00709 | 260.9 | 260.9 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 78 | G78 |
| | 650944 | 4076373 | 0.00198 | 209.2 | 273 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 88 | G88 |
| | 651344 | 4076373 | 0.00156 | 205.6 | 220 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 98 | G98 |
| | 647744 | 4076773 | 0.00034 | 164.7 | 164.7 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 7 | G7 |
| | 648144 | 4076773 | 0.00049 | 177.1 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 17 | G17 |
| | 648544 | 4076773 | 0.00109 | 209.2 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 27 | G27 |
| | 650944 | 4076773 | 0.00109 | 219.8 | 267 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 87 | G87 |
| | 651344 | 4076773 | 0.00097 | 203.5 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 97 | G97 |
| | 647744 | 4077173 | 0.00057 | 158.4 | 171 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 6 | G6 |
| | 648144 | 4077173 | 0.00102 | 175.4 | 175.4 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 16 | G16 |
| | 648544 | 4077173 | 0.00261 | 191 | 226 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 26 | G26 |
| | 650944 | 4077173 | 0.0006 | 225.6 | 296 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 86 | G86 |
| | 651344 | 4077173 | 0.00061 | 213.6 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 96 | G96 |
| | 647744 | 4077573 | 0.00101 | 163.8 | 171 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 5 | G5 |
| | 648144 | 4077573 | 0.00177 | 166.6 | 179 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 15 | G15 |
| | 648544 | 4077573 | 0.00244 | 179.6 | 227 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 25 | G25 |
| | 648944 | 4077573 | 0.00135 | 224 | 226 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 35 | G35 |
| | 649344 | 4077573 | 0.00257 | 253.3 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 45 | G45 |
| | 649744 | 4077573 | 0.00039 | 221.6 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 55 | G55 |
| | 650144 | 4077573 | 0.00136 | 257.7 | 257.7 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 65 | G65 |
| | 650544 | 4077573 | 0.00104 | 261.3 | 287 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 75 | G75 |
| | 650944 | 4077573 | 0.00095 | 276.5 | 296 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 85 | G85 |
| | 651344 | 4077573 | 0.00038 | 213.2 | 826 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 95 | G95 |
| | 647744 | 4077973 | 0.00146 | 134.6 | 181 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 4 | G4 |
| | | .0,1713 | 0.00110 | 15 1.0 | 101 | 1.0 | 111.10111 | | | | ona nocepior i | 51 |

* AERMOD (19191): Appendix B Attachment - Peak TAC Flare Emissions

08/30/21

* AERMET (21112): 2020

07:50:54

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|--------|---------|--------------|-------|-------|-------|--------|-----|---------|--------|------------------|-----|
| 648144 | 4077973 | 0.00184 | 158.3 | 181 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 14 | G14 |
| 648544 | 4077973 | 0.00136 | 173.9 | 214 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 24 | G24 |
| 648944 | 4077973 | 0.00067 | 183.5 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 34 | G34 |
| 649344 | 4077973 | 0.00045 | 229 | 253 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 44 | G44 |
| 649744 | 4077973 | 0.0003 | 215.3 | 251 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 54 | G54 |
| 650144 | 4077973 | 0.00024 | 216.5 | 290 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 64 | G64 |
| 650544 | 4077973 | 0.00031 | 236.9 | 801 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 74 | G74 |
| 650944 | 4077973 | 0.00061 | 249.9 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 84 | G84 |
| 651344 | 4077973 | 0.00041 | 248.4 | 826 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 94 | G94 |
| 647744 | 4078373 | 0.00158 | 144.4 | 144.4 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 3 | G3 |
| 648144 | 4078373 | 0.00139 | 146.2 | 146.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 13 | G13 |
| 648544 | 4078373 | 0.00078 | 145.4 | 253 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 23 | G23 |
| 648944 | 4078373 | 0.00044 | 159.6 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 33 | G33 |
| 649344 | 4078373 | 0.0003 | 200.5 | 221 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 43 | G43 |
| 649744 | 4078373 | 0.00025 | 196.1 | 227 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 53 | G53 |
| 650144 | 4078373 | 0.00021 | 204.6 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 63 | G63 |
| 650544 | 4078373 | 0.00017 | 196.6 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 73 | G73 |
| 650944 | 4078373 | 0.00017 | 214.8 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 83 | G83 |
| 651344 | 4078373 | 0.0002 | 214.3 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 93 | G93 |
| 647744 | 4078773 | 0.00137 | 145.4 | 145.4 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 2 | G2 |
| 648144 | 4078773 | 0.00097 | 159.6 | 159.6 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 12 | G12 |
| 648544 | 4078773 | 0.00057 | 166.2 | 166.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 22 | G22 |
| 648944 | 4078773 | 0.00034 | 165.4 | 165.4 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 32 | G32 |
| 649344 | 4078773 | 0.00024 | 160.9 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 42 | G42 |
| 649744 | 4078773 | 0.00023 | 195 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 52 | G52 |
| 650144 | 4078773 | 0.00019 | 171 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 62 | G62 |
| 650544 | 4078773 | 0.00016 | 180.9 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 72 | G72 |
| 650944 | 4078773 | 0.00014 | 178.4 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 82 | G82 |
| 651344 | 4078773 | 0.00014 | 181 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 92 | G92 |
| 647744 | 4079173 | 0.00108 | 155.2 | 155.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 1 | G1 |
| 648144 | 4079173 | 0.0007 | 165.9 | 165.9 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 11 | G11 |
| 648544 | 4079173 | 0.00045 | 173.5 | 191 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 21 | G21 |
| 648944 | 4079173 | 0.0003 | 190.4 | 194 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 31 | G31 |
| 649344 | 4079173 | 0.00022 | 187.4 | 801 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 41 | G41 |
| 649744 | 4079173 | 0.0002 | 176.1 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 51 | G51 |
| 650144 | 4079173 | 0.00018 | 173 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 61 | G61 |
| 650544 | 4079173 | 0.00016 | 177 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 71 | G71 |
| 650944 | 4079173 | 0.00013 | 181.3 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 81 | G81 |
| 651344 | 4079173 | 0.00012 | 191 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 91 | G91 |
| | | | - | | | | | | | 1 . | |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in $\mu g/m^3$.

* AERMET (21112): 2018

- 15:19:04
- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | Description | ID | |
|------------|---------|--------------|--------|--------|-------|--------|-----|---------|------------------------------------|----------|----------|
| 645996 | 4078698 | 324650.3520 | 123.85 | 123.85 | 0 | ANNUAL | ALL | 1 | AQ Monitoring Station | AQ_ST_1 | |
| 643903.65 | 4077719 | 123422.2428 | 105.68 | 105.68 | 0 | ANNUAL | ALL | 1 | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642056.782 | 4079416 | 110504.1329 | 85.12 | 85.12 | 0 | ANNUAL | ALL | 1 | Dunne Park | CR_PK_1 | |
| 642179.095 | 4079950 | 118045.3266 | 117.99 | 117.99 | 0 | ANNUAL | ALL | 1 | Vista Park Hill Park | CR_PK_2 | |
| 644733.142 | 4078753 | 220277.3845 | 106.44 | 106.44 | 0 | ANNUAL | ALL | 1 | Las Brisas Park | CR_PK_3 | |
| 645608.808 | 4078854 | 279358.3193 | 112.86 | 112.86 | 0 | ANNUAL | ALL | 1 | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238.054 | 4078807 | 190612.8643 | 95.25 | 95.25 | 0 | ANNUAL | ALL | 1 | Veterans Memorial Park | CR_PK_5 | |
| 645311.476 | | 169875.0632 | 134.61 | 134.61 | 0 | ANNUAL | ALL | 1 | Park 6 | CR_PK_6 | |
| 649581.689 | 4073424 | 214443.2127 | 159.96 | 318 | 0 | ANNUAL | ALL | 1 | Park 7 | CR_PK_7 | |
| 645145.11 | 4077181 | 178352.0774 | 133 | 133 | 0 | ANNUAL | ALL | 1 | Cerra Vista Elem School | CR_SC_1 | |
| 642904.712 | 4079955 | 130108.9218 | 86 | 86 | 0 | ANNUAL | ALL | 1 | San Andreas Continuation | CR_SC_10 | |
| 645850.678 | 4074015 | 71810.8330 | 123 | 313 | 0 | ANNUAL | ALL | 1 | SouthSide School | CR_SC_11 | |
| 642105.679 | 4078176 | 80084.6141 | 91 | 91 | 0 | ANNUAL | ALL | 1 | School 12 | CR_SC_12 | |
| 646058.93 | 4078443 | 350638.6692 | 128.52 | 128.52 | 0 | ANNUAL | ALL | 1 | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 198589.2029 | 158 | 158 | 0 | ANNUAL | ALL | 1 | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 145704.0758 | 159 | 240 | 0 | ANNUAL | ALL | 1 | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644109.6 | 4078389 | 184278.7787 | 98.2 | 98.2 | 0 | ANNUAL | ALL | 1 | Sunnyslope Elem School | CR_SC_2 | |
| 643920.12 | 4077304 | 125334.6233 | 101.23 | 101.23 | 0 | ANNUAL | ALL | 1 | Hollister Montessori School | CR_SC_3 | |
| 642961.07 | 4078621 | 138594.1561 | 92 | 92 | 0 | ANNUAL | ALL | 1 | Rancho San Justo Middle School | CR_SC_4 | |
| 643980.02 | 4079743 | 160649.4444 | 88 | 88 | 0 | ANNUAL | ALL | 1 | Marguerite Maze Middle School | CR_SC_5 | |
| 641630.17 | 4079153 | 107747.1245 | 85 | 85 | 0 | ANNUAL | ALL | 1 | Hollister Prep Schoo | CR_SC_6 | |
| 643350.03 | 4077181 | 106865.2843 | 98.22 | 98.22 | 0 | ANNUAL | ALL | 1 | Ladd Lane Elementary School | CR_SC_7 | |
| 644002.96 | 4080079 | 147770.9795 | 87 | 87 | 0 | ANNUAL | ALL | 1 | Gabilan Hills Elementary School | CR_SC_8 | |
| 642244.858 | 4078413 | 98876.4794 | 90.17 | 90.17 | 0 | ANNUAL | ALL | 1 | San Benito High School | CR_SC_9 | |
| 642083.447 | 4079794 | 112693.4790 | 87.58 | 127 | 0 | ANNUAL | ALL | 1 | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 286676.6681 | 146.33 | 153 | 0 | ANNUAL | ALL | 1 | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 2029203.5641 | 189.45 | 259 | 0 | ANNUAL | ALL | 1 | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 581323.7363 | 155.2 | 155.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 237263.7839 | 160 | 160 | 0 | ANNUAL | ALL | 1 | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 1020850.5015 | 252.9 | 252.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 628181.2031 | 165.9 | 165.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 789669.4778 | 159.6 | 159.6 | 0 | ANNUAL | ALL | 1 | Grid Receptor 12 | G12 | |
| 648144 | 4078373 | 968216.0387 | 146.2 | 146.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 13 | G13 | |
| 648144 | 4077973 | 1165163.1231 | 158.3 | 181 | 0 | ANNUAL | ALL | 1 | Grid Receptor 14 | G14 | |
| 648144 | 4077573 | 1297938.8896 | 166.6 | 179 | 0 | ANNUAL | ALL | 1 | Grid Receptor 15 | G15 | |
| 648144 | 4077173 | 1168896.3284 | 175.4 | 175.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 16 | G16 | |
| 648144 | 4076773 | 814279.6134 | 177.1 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 17 | G17 | |
| 648144 | 4076373 | 519470.0366 | 178 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 18 | G18 | |
| 648144 | 4075973 | 361873.6632 | 173 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 19 | G19 | |
| 647744 | 4078773 | 666701.4079 | 145.4 | 145.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 2 | G2 | |

- 15:19:04
- * AERMET (21112): 2018
- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*
- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | Description | ID |
|--------|---------|--------------|-------|-------|-------|--------|-----|---------|------------------|-----|
| 648144 | 4075573 | 263899.4314 | 168.8 | 190 | 0 | ANNUAL | ALL | 1 | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 612394.5537 | 173.5 | 191 | 0 | ANNUAL | ALL | 1 | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 833899.3408 | 166.2 | 166.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 1140939.1305 | 145.4 | 253 | 0 | ANNUAL | ALL | 1 | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 1614766.2866 | 173.9 | 214 | 0 | ANNUAL | ALL | 1 | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 2033284.9505 | 179.6 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 1996290.1157 | 191 | 226 | 0 | ANNUAL | ALL | 1 | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 1536734.7802 | 209.2 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 840280.0276 | 233.7 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 507060.5767 | 199.9 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 756956.4447 | 144.4 | 144.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 334170.8802 | 195.5 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 561815.3142 | 190.4 | 194 | 0 | ANNUAL | ALL | 1 | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 790796.1353 | 165.4 | 165.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 1197735.3455 | 159.6 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 1910059.3274 | 183.5 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 4319526.9360 | 224 | 226 | 0 | ANNUAL | ALL | 1 | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 1172101.2727 | 205 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 724821.3761 | 208.8 | 220 | 0 | ANNUAL | ALL | 1 | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 867512.6625 | 134.6 | 181 | 0 | ANNUAL | ALL | 1 | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 428633.4815 | 185.6 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 438637.6538 | 187.4 | 801 | 0 | ANNUAL | ALL | 1 | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 648931.3604 | 160.9 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 1269402.9204 | 200.5 | 221 | 0 | ANNUAL | ALL | 1 | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 2608451.1850 | 229 | 253 | 0 | ANNUAL | ALL | 1 | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 1747883.1715 | 253.3 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 3460555.0934 | 220.2 | 263 | 0 | ANNUAL | ALL | 1 | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 1401055.1993 | 227.2 | 227.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 910109.2663 | 163.8 | 171 | 0 | ANNUAL | ALL | 1 | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 787171.2836 | 205.5 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 340915.3721 | 176.1 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 539765.0050 | 195 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 917598.4158 | 196.1 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 2394021.4013 | 215.3 | 251 | 0 | ANNUAL | ALL | 1 | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 7282800.6735 | 221.6 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 7407543.5524 | 211.7 | 266 | 0 | ANNUAL | ALL | 1 | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 2028811.2726 | 237.7 | 257 | 0 | ANNUAL | ALL | 1 | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 773930.6451 | 158.4 | 171 | 0 | ANNUAL | ALL | 1 | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 1249723.1028 | 204.2 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 298798.0672 | 173 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 61 | G61 |

- * AERMET (21112): 2018 15:19:04
- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*
- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | Description | ID |
|-----------|---------|--------------|--------|-------|-------|--------|-----|---------|-----------------------|-----|
| 650144 | 4078773 | 411563.6331 | 171 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 729070.4757 | 204.6 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 1560968.1659 | 216.5 | 290 | 0 | ANNUAL | ALL | 1 | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 1312727.1222 | 257.7 | 257.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 5808936.3773 | 231.4 | 272 | 0 | ANNUAL | ALL | 1 | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 1694086.4100 | 249.4 | 266 | 0 | ANNUAL | ALL | 1 | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 593886.9457 | 164.7 | 164.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 1742973.2066 | 216.4 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 261647.7622 | 177 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 347394.8966 | 180.9 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 533967.4294 | 196.6 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 925339.9769 | 236.9 | 801 | 0 | ANNUAL | ALL | 1 | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 635752.8105 | 261.3 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 1821074.5471 | 260.9 | 260.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 3020088.7887 | 226.7 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 395007.3463 | 164 | 164 | 0 | ANNUAL | ALL | 1 | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 701897.8145 | 268.2 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 225042.6407 | 181.3 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 285722.0958 | 178.4 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 532684.1227 | 214.8 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 464318.2642 | 249.9 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 382817.8581 | 276.5 | 296 | 0 | ANNUAL | ALL | 1 | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 3708932.3521 | 225.6 | 296 | 0 | ANNUAL | ALL | 1 | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 5357487.8430 | 219.8 | 267 | 0 | ANNUAL | ALL | 1 | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 3524897.4574 | 209.2 | 273 | 0 | ANNUAL | ALL | 1 | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 2527210.8224 | 216.6 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 279201.7269 | 160.7 | 160.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 1488359.8225 | 243.2 | 289 | 0 | ANNUAL | ALL | 1 | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 205267.6375 | 191 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 264070.4832 | 181 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 477667.1541 | 214.3 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 451144.5488 | 248.4 | 826 | 0 | ANNUAL | ALL | 1 | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 1097219.3060 | 213.2 | 826 | 0 | ANNUAL | ALL | 1 | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 1802598.2425 | 213.6 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 2134538.2004 | 203.5 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 2169043.8731 | 205.6 | 220 | 0 | ANNUAL | ALL | 1 | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 1861356.8275 | 205.8 | 269 | 0 | ANNUAL | ALL | 1 | Grid Receptor 99 | G99 |
| 648584.24 | 4077523 | 2188172.8213 | 183.61 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 1 | P1 |
| 649484.05 | 4077537 | 1858202.1534 | 254.01 | 257 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 10 | P10 |
| 649584.03 | 4077539 | 4985200.8445 | 235.3 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 11 | P11 |

* AERMET (21112): 2018 15:19:04

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | Description | ID |
|-----------|---------|---------------|--------|--------|-------|--------|-----|---------|-----------------------|-----|
| 649684.02 | 4077540 | 7745265.0635 | 221.29 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 8490538.3230 | 222.37 | 260 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 13 | P13 |
| 649883.99 | 4077542 | 6116638.2297 | 233.6 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 14 | P14 |
| 649983.97 | 4077543 | 2491755.3859 | 249.54 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 15 | P15 |
| 650083.94 | 4077546 | 1614823.6438 | 258.89 | 258.89 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 16 | P16 |
| 650183.91 | 4077548 | 1340004.7912 | 259.56 | 259.56 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 17 | P17 |
| 650283.87 | 4077550 | 1124493.5294 | 256.77 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 18 | P18 |
| 650383.84 | 4077552 | 1852252.3780 | 242.37 | 290 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 19 | P19 |
| 648684.22 | 4077525 | 2608638.3781 | 197.16 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 2 | P2 |
| 650483.81 | 4077554 | 1632936.7506 | 242.23 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 20 | P20 |
| 650583.78 | 4077557 | 700494.2518 | 259.71 | 290 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 21 | P21 |
| 650683.75 | 4077559 | 715952.9168 | 257.58 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 22 | P22 |
| 650776.81 | 4077554 | 517550.0228 | 267.9 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 23 | P23 |
| 650778.91 | 4077454 | 595056.8290 | 275.91 | 275.91 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 976913.4916 | 265.73 | 281 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 25 | P25 |
| 650783.1 | 4077254 | 1920061.5670 | 251.08 | 282 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 26 | P26 |
| 650785.19 | 4077154 | 2449061.7818 | 252.83 | 281 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 27 | P27 |
| 650787.29 | 4077054 | 3799271.1472 | 246.1 | 269 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 28 | P28 |
| 650789.38 | 4076954 | 5097333.3683 | 241.37 | 269 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 29 | P29 |
| 648784.19 | 4077527 | 3355773.5265 | 209.74 | 209.74 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 3 | Р3 |
| 650791.48 | 4076854 | 4408405.1127 | 246.79 | 251 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 30 | P30 |
| 650793.57 | 4076754 | 7716462.4052 | 228.75 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 31 | P31 |
| 650754.39 | 4076683 | 7739304.0338 | 217.76 | 271 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 32 | P32 |
| 650660.22 | 4076650 | 8588640.0231 | 221.2 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 33 | P33 |
| 650561.43 | 4076650 | 9440015.7178 | 220.83 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 34 | P34 |
| 650462.72 | 4076666 | 10368214.2345 | 223.42 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 35 | P35 |
| 650364.01 | 4076682 | 11102883.0235 | 222.46 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 36 | P36 |
| 650264.24 | 4076683 | 11121590.5437 | 223.19 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 37 | P37 |
| 650164.71 | 4076674 | 11456490.8406 | 222.1 | 249 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 38 | P38 |
| 650065.8 | 4076660 | 11893541.8291 | 217.03 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 39 | P39 |
| 648884.17 | 4077529 | 4043638.7054 | 214.25 | 227 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 4 | P4 |
| 649980.44 | 4076627 | 12408169.4971 | 214.82 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 40 | P40 |
| 649920.26 | 4076547 | 12126829.1856 | 214.91 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 41 | P41 |
| 649852.19 | 4076474 | 10804121.6882 | 214.09 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 42 | P42 |
| 649770.68 | 4076417 | 8918023.3862 | 211.53 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 43 | P43 |
| 649680.48 | 4076375 | 7197205.0213 | 210.17 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 44 | P44 |
| 649580.91 | 4076368 | 5708180.8847 | 208.52 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 45 | P45 |
| 649482.48 | 4076384 | 4595498.1973 | 207.5 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 46 | P46 |
| 649391.59 | 4076425 | 4111663.3869 | 205.17 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 47 | P47 |
| 649303.5 | 4076472 | 3519573.5738 | 202.16 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 48 | P48 |

09/02/21

PMI

- * AERMOD (19191): Appendix B Attachment Future Peak Emissions for Closure Area
- * AERMET (21112): 2018

- 15:19:04
- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------|-----------------------|-------|
| 649226.19 | 4076535 | 3335527.5347 | 196.38 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 49 | P49 |
| 648984.14 | 4077530 | 4783263.2203 | 221.41 | 221.41 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 5 | P5 |
| 649156.2 | 4076605 | 3415700.9662 | 195.87 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 50 | P50 |
| 649068.25 | 4076653 | 2948229.5641 | 196.32 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 51 | P51 |
| 648986.7 | 4076711 | 2718952.9435 | 192.42 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 52 | P52 |
| 648936.53 | 4076759 | 2660861.0483 | 192.46 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 53 | P53 |
| 648868.58 | 4076833 | 2578129.9420 | 191.63 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 54 | P54 |
| 648797.23 | 4076902 | 2423000.9789 | 186.32 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 55 | P55 |
| 648710.56 | 4076952 | 2160905.5254 | 179.81 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 56 | P56 |
| 648620.79 | 4076996 | 1949701.6108 | 176.23 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 57 | P57 |
| 648607.19 | 4077051 | 2008147.1155 | 175.02 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 58 | P58 |
| 648680.07 | 4077119 | 2381302.5616 | 180.62 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 59 | P59 |
| 649084.12 | 4077532 | 4954856.1984 | 216.54 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 6 | P6 |
| 648759.24 | 4077180 | 2870646.0759 | 183.47 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 60 | P60 |
| 648791.44 | 4077262 | 3386047.4978 | 202.88 | 245 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 61 | P61 |
| 648788.45 | 4077362 | 3129277.6382 | 178.21 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 62 | P62 |
| 648691.25 | 4077361 | 2637846.2402 | 176.25 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 63 | P63 |
| 648591.35 | 4077357 | 2239178.7868 | 176 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 64 | P64 |
| 648525.69 | 4077371 | 2031944.8815 | 175.24 | 245 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 65 | P65 |
| 648586.93 | 4077430 | 2226486.8372 | 175.13 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 66 | P66 |
| 649184.09 | 4077534 | 4959347.2272 | 230.71 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 7 | P7 |
| 649284.08 | 4077535 | 2299759.3347 | 248.08 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 8 | P8 |
| 649384.06 | 4077536 | 1519592.2388 | 258.43 | 258.43 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 333713.6258 | 127.38 | 127.38 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4077983 | 350207.0639 | 131.21 | 131.21 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4077983 | 367762.2001 | 135.89 | 135.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4077983 | 386145.1636 | 139.18 | 139.18 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4077983 | 405281.7751 | 140.76 | 140.76 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4077983 | 426029.2626 | 143.89 | 143.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4077983 | 447571.9316 | 145.22 | 145.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4077983 | 470664.5144 | 147.21 | 147.21 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4077983 | 494902.8922 | 148.3 | 160 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078083 | 341249.7561 | 127.58 | 127.58 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078083 | 356746.0154 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078083 | 373379.2755 | 134.35 | 134.35 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078083 | 391379.9457 | 139.22 | 139.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4078083 | 410861.8133 | 144.65 | 144.65 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078083 | 429096.1165 | 142.28 | 142.28 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4078083 | 450437.7887 | 146.76 | 146.76 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4078083 | 472939.0657 | 150.64 | 150.64 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |

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- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------|-----------------|--------|
| 646730 | 4078083 | 497432.6562 | 155.4 | 157 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078183 | 344472.4178 | 127.22 | 127.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078183 | 359522.6397 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078183 | 375389.6167 | 133.89 | 133.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078183 | 392806.5009 | 140.45 | 140.45 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4078183 | 411468.3667 | 146.94 | 146.94 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078183 | 426533.1186 | 140.23 | 140.23 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4078183 | 446636.4860 | 147.25 | 147.25 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4078183 | 467168.9148 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4078183 | 490453.6764 | 157.78 | 166 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078283 | 344309.7246 | 126.06 | 126.06 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078283 | 358201.7422 | 129.56 | 129.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078283 | 372537.8495 | 132.89 | 132.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078283 | 388099.8030 | 139.24 | 139.24 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4078283 | 403737.9099 | 142.68 | 142.68 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078283 | 418266.8282 | 140.02 | 140.02 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4078283 | 436570.5360 | 147.22 | 147.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4078283 | 455378.6781 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4078283 | 476497.7488 | 156.78 | 166 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 648659.32 | 4077241 | 2731545.4272 | 205.79 | 205.79 | 0 | ANNUAL | ALL | 1 | House 1 | RP_H1 |
| 648071.24 | 4076116 | 374474.5642 | 169.6 | 240 | 0 | ANNUAL | ALL | 1 | House 10 | RP_H10 |
| 648247.37 | 4076278 | 502248.9886 | 184.55 | 240 | 0 | ANNUAL | ALL | 1 | House 11 | RP_H11 |
| 648027.19 | 4076255 | 415633.3179 | 169.38 | 240 | 0 | ANNUAL | ALL | 1 | House 12 | RP_H12 |
| 648065.77 | 4076359 | 481488.4303 | 173.83 | 240 | 0 | ANNUAL | ALL | 1 | House 13 | RP_H13 |
| 648138.68 | 4076400 | 534343.9715 | 178.22 | 240 | 0 | ANNUAL | ALL | 1 | House 14 | RP_H14 |
| 648254.71 | 4076411 | 610917.5879 | 191.28 | 240 | 0 | ANNUAL | ALL | 1 | House 15 | RP_H15 |
| 647877.81 | 4076365 | 425522.9692 | 165.39 | 240 | 0 | ANNUAL | ALL | 1 | House 16 | RP_H16 |
| 647520 | 4076206 | 292951.3575 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 17 | RP_H17 |
| 647921 | 4076247 | 384152.8256 | 164 | 240 | 0 | ANNUAL | ALL | 1 | House 18 | RP_H18 |
| 647708.78 | 4076352 | 378200.6606 | 163.52 | 163.52 | 0 | ANNUAL | ALL | 1 | House 19 | RP_H19 |
| 648371.71 | 4075470 | 259680.7616 | 173.69 | 227 | 0 | ANNUAL | ALL | 1 | House 2 | RP_H2 |
| 647703.58 | 4076251 | 338358.6651 | 162.17 | 162.17 | 0 | ANNUAL | ALL | 1 | House 20 | RP_H20 |
| 647718.77 | 4076104 | 297973.9818 | 159.35 | 159.35 | 0 | ANNUAL | ALL | 1 | House 21 | RP_H21 |
| 647843.32 | 4076125 | 326666.1261 | 163 | 234 | 0 | ANNUAL | ALL | 1 | House 22 | RP_H22 |
| 647842.26 | 4076500 | 479629.9451 | 167.93 | 167.93 | 0 | ANNUAL | ALL | 1 | House 23 | RP_H23 |
| 647727.75 | 4076644 | 521567.5868 | 164.15 | 164.15 | 0 | ANNUAL | ALL | 1 | House 24 | RP_H24 |
| 647823.91 | 4076644 | 554246.9153 | 168.29 | 168.29 | 0 | ANNUAL | ALL | 1 | House 25 | RP_H25 |
| 647530 | 4076497 | 395160.7952 | 159.56 | 159.56 | 0 | ANNUAL | ALL | 1 | House 26 | RP_H26 |
| 647810.11 | 4076854 | 668543.0224 | 162.9 | 162.9 | 0 | ANNUAL | ALL | 1 | House 27 | RP_H27 |
| 647697.48 | 4076989 | 674577.2097 | 161.42 | 162 | 0 | ANNUAL | ALL | 1 | House 28 | RP_H28 |

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- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | Description | ID | |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------|-------------|--------|------|
| 648225.5 | 4076182 | 444733.0564 | 183.22 | 240 | 0 | ANNUAL | ALL | 1 | House 29 | RP H29 | |
| 647678.23 | 4075969 | 267476.3439 | 159.5 | 159.5 | 0 | ANNUAL | ALL | 1 | House 3 | RP H3 | 1 |
| 645876.32 | 4077487 | 260468.2035 | 127.13 | 142 | 0 | ANNUAL | ALL | 1 | House 30 | RP H30 | 1 |
| 650902 | 4076062 | 2806307.9901 | 215.24 | 287 | 0 | ANNUAL | ALL | 1 | House 31 | RP H31 | MEIR |
| 651490 | 4076597 | 1842317.3526 | 205.5 | 813 | 0 | ANNUAL | ALL | 1 | House 32 | RP H32 | 1 |
| 651565 | 4077067 | 1526380.4902 | 213.93 | 813 | 0 | ANNUAL | ALL | 1 | House 33 | RP_H33 | |
| 648672.77 | 4075307 | 365364.5568 | 225.91 | 227 | 0 | ANNUAL | ALL | 1 | House 34 | RP_H34 | |
| 648383.6 | 4075469 | 261107.8500 | 174.44 | 227 | 0 | ANNUAL | ALL | 1 | House 35 | RP_H35 | |
| 646379.37 | 4077233 | 309382.1653 | 146 | 146 | 0 | ANNUAL | ALL | 1 | House 36 | RP_H36 | |
| 651849.72 | 4075865 | 1172913.1139 | 201.97 | 333 | 0 | ANNUAL | ALL | 1 | House 37 | RP_H37 | |
| 652045.49 | 4076210 | 1035484.8898 | 196.88 | 813 | 0 | ANNUAL | ALL | 1 | House 38 | RP_H38 | |
| 652255.69 | 4076391 | 864301.7272 | 197.06 | 813 | 0 | ANNUAL | ALL | 1 | House 39 | RP_H39 | |
| 647815.25 | 4075985 | 293658.4209 | 162.04 | 162.04 | 0 | ANNUAL | ALL | 1 | House 4 | RP_H4 | |
| 646853.73 | 4077373 | 428785.3823 | 145.99 | 145.99 | 0 | ANNUAL | ALL | 1 | House 40 | RP_H40 | |
| 647050.21 | 4077360 | 484519.4948 | 145 | 145 | 0 | ANNUAL | ALL | 1 | House 41 | RP_H41 | |
| 647286.42 | 4077474 | 607102.9372 | 149.68 | 153 | 0 | ANNUAL | ALL | 1 | House 42 | RP_H42 | |
| 647359.05 | 4077340 | 602620.6027 | 154.45 | 159 | 0 | ANNUAL | ALL | 1 | House 43 | RP_H43 | |
| 647490.41 | 4077329 | 668395.7926 | 162.28 | 162.28 | 0 | ANNUAL | ALL | 1 | House 44 | RP_H44 | |
| 647522.17 | 4077252 | 664728.1881 | 164.3 | 164.3 | 0 | ANNUAL | ALL | 1 | House 45 | RP_H45 | |
| 647517.82 | 4077139 | 631262.9127 | 164.01 | 164.01 | 0 | ANNUAL | ALL | 1 | House 46 | RP_H46 | |
| 646819.01 | 4077258 | 404188.5492 | 151.53 | 152 | 0 | ANNUAL | ALL | 1 | House 47 | RP_H47 | |
| 646778.72 | 4077128 | 375220.4281 | 158.51 | 158.51 | 0 | ANNUAL | ALL | 1 | House 48 | RP_H48 | |
| 646987.26 | 4077213 | 440027.9331 | 146.44 | 146.44 | 0 | ANNUAL | ALL | 1 | House 49 | RP_H49 | |
| 647898.2 | 4076033 | 316789.8556 | 163.83 | 237 | 0 | ANNUAL | ALL | 1 | House 5 | RP_H5 | |
| 647241.77 | 4077227 | 527970.0024 | 154.85 | 154.85 | 0 | ANNUAL | ALL | 1 | House 50 | RP_H50 | |
| 646773.05 | 4077063 | 365219.8985 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 51 | RP_H51 | |
| 647104.37 | 4077118 | 457978.3280 | 148.99 | 148.99 | 0 | ANNUAL | ALL | 1 | House 52 | RP_H52 | |
| 647291.9 | 4077123 | 526264.5951 | 158.62 | 158.62 | 0 | ANNUAL | ALL | 1 | House 53 | RP_H53 | |
| 646765.24 | 4076978 | 354436.6566 | 158.67 | 158.67 | 0 | ANNUAL | ALL | 1 | House 54 | RP_H54 | |
| 646995.65 | 4076984 | 402862.7095 | 152.34 | 152.34 | 0 | ANNUAL | ALL | 1 | House 55 | RP_H55 | |
| 647317.21 | 4077031 | 513891.4651 | 160.22 | 160.22 | 0 | ANNUAL | ALL | 1 | House 56 | RP_H56 | |
| 647398.39 | 4077013 | 540185.0216 | 161.26 | 161.26 | 0 | ANNUAL | ALL | 1 | House 57 | RP_H57 | |
| 646978.93 | 4076904 | 387193.7058 | 156.81 | 156.81 | 0 | ANNUAL | ALL | 1 | House 58 | RP_H58 | |
| 647015.19 | 4076807 | 381473.7473 | 156.21 | 156.21 | 0 | ANNUAL | ALL | 1 | House 59 | RP_H59 | |
| 648045.44 | 4076018 | 346253.5798 | 168.26 | 240 | 0 | ANNUAL | ALL | 1 | House 6 | RP_H6 | |
| 647163.96 | 4076802 | 414138.2933 | 154.38 | 154.38 | 0 | ANNUAL | ALL | 1 | House 60 | RP_H60 | |
| 647310.58 | 4076940 | 485223.2478 | 162.49 | 162.49 | 0 | ANNUAL | ALL | 1 | House 61 | RP_H61 | |
| 647298.09 | 4076805 | 450348.3034 | 158 | 158 | 0 | ANNUAL | ALL | 1 | House 62 | RP_H62 | |
| 647446.56 | 4076900 | 519666.3457 | 159.45 | 159.45 | 0 | ANNUAL | ALL | 1 | House 63 | RP_H63 | |
| 647464.49 | 4076781 | 495464.9347 | 159.32 | 159.32 | 0 | ANNUAL | ALL | 1 | House 64 | RP_H64 | |

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- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------|-------------|--------|
| 647512 | 4076536 | 409139.1354 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 65 | RP_H65 |
| 651131 | 4078767 | 273311.0047 | 179.58 | 830 | 0 | ANNUAL | ALL | 1 | House 66 | RP_H66 |
| 647131 | 4077336 | 507809.3253 | 146.77 | 146.77 | 0 | ANNUAL | ALL | 1 | House 67 | RP_H67 |
| 646798 | 4076740 | 332889.1795 | 156.07 | 156.07 | 0 | ANNUAL | ALL | 1 | House 68 | RP_H68 |
| 646900 | 4076802 | 358764.6433 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 69 | RP_H69 |
| 648126.33 | 4075955 | 354450.8064 | 171.51 | 240 | 0 | ANNUAL | ALL | 1 | House 7 | RP_H7 |
| 647317 | 4076662 | 423859.1849 | 159.9 | 159.9 | 0 | ANNUAL | ALL | 1 | House 70 | RP_H70 |
| 648249.26 | 4075970 | 392369.9675 | 183.42 | 240 | 0 | ANNUAL | ALL | 1 | House 8 | RP_H8 |
| 648218.58 | 4076109 | 415859.4815 | 182.28 | 240 | 0 | ANNUAL | ALL | 1 | House 9 | RP_H9 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in $\mu g/m^3$.

Concetration values multiplied by a factor of 10 to convert from 0.1 lb/hr-SF to 1 lb/hr-SF for dispersion factor use.

* AERMET (19191): 2019 15:27:04

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

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- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * FURM | IAI: (A,IX,3 | 5(1X,F13.5),5(1X,F8.2),2X,A | 10,2A,A8,2A, | 18.8,2 <i>A</i> ,A8) | | | | | | | | |
|------------|--------------|-----------------------------|--------------|----------------------|-------|--------|-----|---------|--------|------------------------------------|------------|----------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
| 645996 | 4078698 | 200267.96560 | 123.85 | 123.85 | 0 | ANNUAL | ALL | 1 | | AQ Monitoring Station | AQ_ST_1 | |
| 643903.65 | 4077719 | 42259.67260 | 105.68 | 105.68 | 0 | ANNUAL | ALL | 1 | | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642056.782 | 4079416 | 48819.65210 | 85.12 | 85.12 | 0 | ANNUAL | ALL | 1 | | Dunne Park | CR_PK_1 | |
| 642179.095 | 4079950 | 58682.34860 | 117.99 | 117.99 | 0 | ANNUAL | ALL | 1 | | Vista Park Hill Park | CR_PK_2 | |
| 644733.142 | 4078753 | 103938.62780 | 106.44 | 106.44 | 0 | ANNUAL | ALL | 1 | | Las Brisas Park | CR_PK_3 | |
| 645608.808 | 4078854 | 169346.63490 | 112.86 | 112.86 | 0 | ANNUAL | ALL | 1 | | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238.054 | 4078807 | 85835.15170 | 95.25 | 95.25 | 0 | ANNUAL | ALL | 1 | | Veterans Memorial Park | CR_PK_5 | |
| 645311.476 | 4076559 | 61583.50340 | 134.61 | 134.61 | 0 | ANNUAL | ALL | 1 | | Park 6 | CR_PK_6 | |
| 649581.689 | 4073424 | 215515.82600 | 159.96 | 318 | 0 | ANNUAL | ALL | 1 | | Park 7 | CR_PK_7 | |
| 645145.11 | 4077181 | 54163.74090 | 133 | 133 | 0 | ANNUAL | ALL | 1 | | Cerra Vista Elem School | CR_SC_1 | |
| 642904.712 | 4079955 | 74495.36880 | 86 | 86 | 0 | ANNUAL | ALL | 1 | | San Andreas Continuation | CR_SC_10 | |
| 645850.678 | 4074015 | 53307.15620 | 123 | 313 | 0 | ANNUAL | ALL | 1 | | SouthSide School | CR_SC_11 | |
| 642105.679 | 4078176 | 24370.85740 | 91 | 91 | 0 | ANNUAL | ALL | 1 | | School 12 | CR_SC_12 | |
| 646058.93 | 4078443 | 188442.30750 | 128.52 | 128.52 | 0 | ANNUAL | ALL | 1 | | Rancho Santana School | CR_SC_13 S | School 1 |
| 647269 | 4075575 | 125121.48780 | 158 | 158 | 0 | ANNUAL | ALL | 1 | | Future School | CR_SC_14 S | |
| 648466 | 4074106 | 142953.25640 | 159 | 240 | 0 | ANNUAL | ALL | 1 | | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644109.6 | 4078389 | 70540.29630 | 98.2 | 98.2 | 0 | ANNUAL | ALL | 1 | | Sunnyslope Elem School | CR_SC_2 | |
| 643920.12 | 4077304 | 37324.29530 | 101.23 | 101.23 | 0 | ANNUAL | ALL | 1 | | Hollister Montessori School | CR SC 3 | |
| 642961.07 | 4078621 | 52687.75250 | 92 | 92 | 0 | ANNUAL | ALL | 1 | | Rancho San Justo Middle School | CR SC 4 | |
| 643980.02 | 4079743 | 104908.49380 | 88 | 88 | 0 | ANNUAL | ALL | 1 | | Marguerite Maze Middle School | CR_SC_5 | |
| 641630.17 | 4079153 | 43981.01780 | 85 | 85 | 0 | ANNUAL | ALL | 1 | | Hollister Prep Schoo | CR SC 6 | |
| 643350.03 | 4077181 | 29942.62060 | 98.22 | 98.22 | 0 | ANNUAL | ALL | 1 | | Ladd Lane Elementary School | CR SC 7 | |
| 644002.96 | 4080079 | 114237.05420 | 87 | 87 | 0 | ANNUAL | ALL | 1 | | Gabilan Hills Elementary School | CR SC 8 | |
| 642244.858 | 4078413 | 31383.54510 | 90.17 | 90.17 | 0 | ANNUAL | ALL | 1 | | San Benito High School | CR SC 9 | |
| 642083.447 | 4079794 | 52113.80860 | 87.58 | 127 | 0 | ANNUAL | ALL | 1 | | Jovenes De Antano | CR SR 1 | |
| 646402 | 4076879 | 94680.49740 | 146.33 | 153 | 0 | ANNUAL | ALL | 1 | | Workplace | CR WP 1 | |
| 648949 | 4077938 | 2274519.12030 | 189.45 | 259 | 0 | ANNUAL | ALL | 1 | | Nearest Workplace | CR WP 2 | MEIW |
| 647744 | 4079173 | 674122.33120 | 155.2 | 155.2 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 156791.49740 | 160 | 160 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 980945.62610 | 252.9 | 252.9 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 781339.05240 | 165.9 | 165.9 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 911328.47150 | 159.6 | 159.6 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 12 | G12 | |
| 648144 | 4078373 | 1000854.15430 | 146.2 | 146.2 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 13 | G13 | |
| 648144 | 4077973 | 968062.35030 | 158.3 | 181 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 14 | G14 | |
| 648144 | 4077573 | 730131.54610 | 166.6 | 179 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 15 | G15 | |
| 648144 | 4077173 | 451324.64320 | 175.4 | 175.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 16 | G16 | |
| 648144 | 4076773 | 353073.64650 | 177.1 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 17 | G17 | |
| 648144 | 4076373 | 325810.52430 | 178 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 18 | G18 | |
| 648144 | 4075973 | 256552.90290 | 173 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 19 | G19 | |
| 647744 | 4078773 | 708993.91700 | 145.4 | 145.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 2 | G2 | |
| 648144 | 4075573 | 218020.34800 | 168.8 | 190 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 20 | G20 | |
| 648544 | 4079173 | 786134.00880 | 173.5 | 191 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 21 | G21 | |
| 648544 | 4078773 | 1048536.14280 | 166.2 | 166.2 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 22 | G22 | |
| 648544 | 4078373 | 1306763.31190 | 145.4 | 253 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 23 | G23 | |
| | | | | | | | | | | | | |

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15:27:04

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 289 RECEPTORS.

FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | (1X,F13.5),3(1X,F8.2),2X,2 | | | | | | | | | |
|--------|---------|----------------------------|----------------|--------------|-------|--------|-----|---------|--------|------------------|------------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
| 648544 | 4077973 | 1587948.22280 | 173.9 | 214 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 1477236.92500 | 179.6 | 227 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 925942.94730 | 191 | 226 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 709965.00700 | 209.2 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 574737.11340 | 233.7 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 396918.23150 | 199.9 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 697986.51660 | 144.4 | 144.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 317040.11970 | 195.5 | 227 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 728906.37430 | 190.4 | 194 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 991743.42830 | 165.4 | 165.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 1466254.46800 | 159.6 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 2157752.07590 | 183.5 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 4005643.72590 | 224 | 226 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 913568.50370 | 205 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 660814.11980 | 208.8 | 220 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 587682.21840 | 134.6 | 181 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 409365.67820 | 185.6 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 541762.01440 | 187.4 | 801 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 801863.85260 | 160.9 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 1556233.06480 | 200.5 | 221 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 2995934.32020 | 229 | 253 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 1964517.43550 | 253.3 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 3176055.57840 | 220.2 | 263 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 1362965.85670 | 227.2 | 227.2 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 431601.44540 | 163.8 | 171 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 784682.96400 | 205.5 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 50 | G50 |
| 649744 | 4078773 | 599073.36130 | 195 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 1066877.39930 | 196.1 | 227 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 2752104.00740 | 215.3 | 251 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 7225593.96270 | 221.6 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 7041847.76180 | 211.7 | 266 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 2009141.44010 | 237.7 | 257 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 272985.30040 | 158.4 | 171 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 1215698.06680 | 204.2 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 60 | G60 |
| 650144 | 4078773 | 365708.34270 | 171 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 672987.54320 | 204.6 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 63 | G62 G63 |
| 650144 | 4078373 | 1519082.38500 | 216.5 | 290 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 64 | G63 G64 |
| 650144 | 4077573 | | | | 0 | | ALL | 1 | | • | G64 G65 |
| 650144 | 407/5/3 | 1804830.44150 | 257.7 | 257.7 272 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 65 | G68 |
| | | 5349451.60730 | 231.4 249.4 | 266 | | ANNUAL | | 1 | | Grid Receptor 68 | |
| 650144 | 4075973 | 1718092.99540 | | | 0 | ANNUAL | ALL | 1 | | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 241596.52500 | 164.7 | 164.7 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 1660857.57410 | 216.4 | 300 | 0 | ANNUAL | ALL | I | | Grid Receptor 70 | G70 |
| 650544 | 4078773 | 292884.17810 | 180.9 | 830 | 0 | ANNUAL | ALL | l 1 | | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 422608.32770 | 196.6 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 73 | G73 |

* AERMET (19191): 2019 15:2

15:27:04

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | 3(1X,F13.5),3(1X,F8.2),2X, <i>F</i> | | | | A X 7 E - | CDD | NILIM MOG | NET ID | D : // | ID |
|-----------|---------|-------------------------------------|--------|--------|-------|------------------|-----|-----------|--------|-----------------------|-------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
| 650544 | 4077973 | 636061.63610 | 236.9 | 801 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 410803.53870 | 261.3 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 1886614.99410 | 260.9 | 260.9 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 2754888.60230 | 226.7 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 244296.60330 | 164 | 164 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 727812.08640 | 268.2 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 80 | G80 |
| 650944 | 4078773 | 206273.35150 | 178.4 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 328276.48010 | 214.8 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 260068.49680 | 249.9 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 212556.89080 | 276.5 | 296 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 2399265.83600 | 225.6 | 296 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 4359791.94960 | 219.8 | 267 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 3109593.91180 | 209.2 | 273 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 2243658.69300 | 216.6 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 192598.87300 | 160.7 | 160.7 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 1366688.73320 | 243.2 | 289 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 90 | G90 |
| 651344 | 4078773 | 159001.63460 | 181 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 240082.87480 | 214.3 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 237585.18770 | 248.4 | 826 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 612823.17730 | 213.2 | 826 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 1159610.91260 | 213.6 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 1664033.79960 | 203.5 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 1848913.84410 | 205.6 | 220 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 1617959.79240 | 205.8 | 269 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 99 | G99 |
| 648584.24 | 4077523 | 1548882.53780 | 183.61 | 227 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 1 | P1 |
| 649484.05 | 4077537 | 2058304.20640 | 254.01 | 257 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 10 | P10 |
| 649584.03 | 4077539 | 4927600.08140 | 235.3 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 11 | P11 |
| 649684.02 | 4077540 | 7363049.68700 | 221.29 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 8244478.85770 | 222.37 | 260 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 13 | P13 |
| 649883.99 | 4077542 | 6323848.72760 | 233.6 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 14 | P14 |
| 649983.97 | 4077543 | 2998661.12210 | 249.54 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 15 | P15 |
| 650083.94 | 4077546 | 2170728.04950 | 258.89 | 258.89 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 16 | P16 |
| 650183.91 | 4077548 | 1812177.98530 | 259.56 | 259.56 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 17 | P17 |
| 650283.87 | 4077550 | 1207152.16540 | 256.77 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 18 | P18 |
| 650383.84 | 4077552 | 1498068.85010 | 242.37 | 290 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 19 | P19 |
| 648684.22 | 4077525 | 2002470.34440 | 197.16 | 227 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 2 | P2 |
| 650483.81 | 4077554 | 1121973.23810 | 242.23 | 296 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 20 | P20 |
| 650583.78 | 4077557 | 435735.83430 | 259.71 | 290 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 21 | P21 |
| 650683.75 | 4077559 | 424732.75930 | 257.58 | 296 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 22 | P22 |
| 650776.81 | 4077554 | 296631.71150 | 267.9 | 296 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 23 | P23 |
| 650778.91 | 4077454 | 345598.53780 | 275.91 | 275.91 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 611673.29790 | 265.73 | 281 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 25 | P25 |
| 650783.1 | 4077254 | 1294743.23260 | 251.08 | 282 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 26 | P26 |
| 650785.19 | 4077254 | 1816950.74790 | 252.83 | 281 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 27 | P27 |
| 030/03.19 | +0//134 | 1010930./4/90 | 232.03 | 201 | U | ANNUAL | ALL | 1 | | Boundary Fermicies 27 | F 2 / |

* AERMET (19191): 2019 15:27:04

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| PORIV | ин г. (н, гл, | $(1\Lambda, 113.3), 3(1\Lambda, 16.2), 2\Lambda, F$ | $A0,2\Lambda,A0,2\Lambda,$ | 10.0,2A,A0) | | | | | | | | |
|-----------|---------------|---|----------------------------|-------------|-------|--------|-----|---------|--------|-----------------------|-----|-----|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
| 650787.29 | 4077054 | 3065431.50450 | 246.1 | 269 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 28 | P28 | |
| 650789.38 | 4076954 | 4208668.68510 | 241.37 | 269 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 29 | P29 | Ĭ |
| 648784.19 | 4077527 | 2772923.14830 | 209.74 | 209.74 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 3 | P3 | |
| 650791.48 | 4076854 | 3922447.96060 | 246.79 | 251 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 30 | P30 | Ī |
| 650793.57 | 4076754 | 6605984.74270 | 228.75 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 31 | P31 | ı |
| 650754.39 | 4076683 | 6730951.50240 | 217.76 | 271 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 32 | P32 | İ |
| 650660.22 | 4076650 | 7558754.62600 | 221.2 | 273 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 33 | P33 | |
| 650561.43 | 4076650 | 8409699.85520 | 220.83 | 273 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 34 | P34 | 1 |
| 650462.72 | 4076666 | 9266328.24250 | 223.42 | 273 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 35 | P35 | |
| 650364.01 | 4076682 | 9852854.71270 | 222.46 | 263 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 36 | P36 | İ |
| 650264.24 | 4076683 | 9769831.42230 | 223.19 | 263 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 37 | P37 | |
| 650164.71 | 4076674 | 9974595.38320 | 222.1 | 249 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 38 | P38 | İ |
| 650065.8 | 4076660 | 10382614.34600 | 217.03 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 39 | P39 | |
| 648884.17 | 4077529 | 3556930.40530 | 214.25 | 227 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 4 | P4 | İ |
| 649980.44 | 4076627 | 10870574.22030 | 214.82 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 40 | P40 | PMI |
| 649920.26 | 4076547 | 10814264.57790 | 214.91 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 41 | P41 | Ī |
| 649852.19 | 4076474 | 9928357.55720 | 214.09 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 42 | P42 | |
| 649770.68 | 4076417 | 8380784.05790 | 211.53 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 43 | P43 | |
| 649680.48 | 4076375 | 6852174.97290 | 210.17 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 44 | P44 | |
| 649580.91 | 4076368 | 5458451.00190 | 208.52 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 45 | P45 | |
| 649482.48 | 4076384 | 4323630.93670 | 207.5 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 46 | P46 | |
| 649391.59 | 4076425 | 3733690.39370 | 205.17 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 47 | P47 | |
| 649303.5 | 4076472 | 2993960.12980 | 202.16 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 48 | P48 | |
| 649226.19 | 4076535 | 2425134.37480 | 196.38 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 49 | P49 | |
| 648984.14 | 4077530 | 4421911.05850 | 221.41 | 221.41 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 5 | P5 | |
| 649156.2 | 4076605 | 2106640.69210 | 195.87 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 50 | P50 | |
| 649068.25 | 4076653 | 1673938.11190 | 196.32 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 51 | P51 | |
| 648986.7 | 4076711 | 1425408.59140 | 192.42 | 263 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 52 | P52 | |
| 648936.53 | 4076759 | 1341144.54620 | 192.46 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 53 | P53 | |
| 648868.58 | 4076833 | 1258665.14750 | 191.63 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 54 | P54 | |
| 648797.23 | 4076902 | 1163387.37520 | 186.32 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 55 | P55 | |
| 648710.56 | 4076952 | 1007956.08100 | 179.81 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 56 | P56 | |
| 648620.79 | 4076996 | 871266.10440 | 176.23 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 57 | P57 | 1 |
| 648607.19 | 4077051 | 903017.82040 | 175.02 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 58 | P58 | |
| 648680.07 | 4077119 | 1160008.11060 | 180.62 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 59 | P59 | 1 |
| 649084.12 | 4077532 | 4770854.87490 | 216.54 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 6 | P6 | |
| 648759.24 | 4077180 | 1558212.54210 | 183.47 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 60 | P60 | 1 |
| 648791.44 | 4077262 | 2061886.88830 | 202.88 | 245 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 61 | P61 | |
| 648788.45 | 4077362 | 2107079.00550 | 178.21 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 62 | P62 | 4 |
| 648691.25 | 4077361 | 1655026.32150 | 176.25 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 63 | P63 | |
| 648591.35 | 4077357 | 1304027.85960 | 176 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 64 | P64 | 4 |
| 648525.69 | 4077371 | 1149438.31400 | 175.24 | 245 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 65 | P65 | 1 |
| 648586.93 | 4077430 | 1412288.29200 | 175.13 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 66 | P66 | 4 |
| 649184.09 | 4077534 | 4791751.26200 | 230.71 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 7 | P7 | |
| | | | | | | | | | | | | |

09/02/21

PMI

* AERMET (19191): 2019 15:

15:27:04

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 649284-08 4077535 | * FORN | /IA1: (A,1X,5 Y | 3(1X,F13.5),3(1X,F8.2),2X,A AVERAGE CONC | ZELEV | 18.8,2X,A8) ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|--|-----------|--------------------|---|--------|----------------------|-------|--------|-----|----------|--------|-----------------|--------|
| 649394 4077386 1725678.63970 28.43 28.43 0 ANUAL ALL 1 New Development RP G1 646930 4077983 1279798210 12728 12738 102738 | | | | | | | | | NUM YRS | NET ID | | |
| 64593 4077983 14737948210 127.38 127.38 0 ANUAL ALL 1 New Development RP G G G G G G G G G G G G G G G G G G | | | | | | | | | 1 | | <u> </u> | |
| 646139 4077983 141753.04270 13121 131.21 0 ANNUAL ALL 1 New Development RP_G1 | | | | | | | | | 1 | | | |
| 646130 4077983 151595_20170 135.89 135.89 0 ANNUAL ALL 1 New Development RP G1 646304 4077983 173832_49900 140.76 140.76 0 ANNUAL ALL 1 New Development RP G1 646303 4077983 173832_49900 140.76 140.76 0 ANNUAL ALL 1 New Development RP G1 646304 4077983 201068_26850 145.22 145.22 0 ANNUAL ALL 1 New Development RP G1 646304 4077983 201068_26850 145.22 145.22 0 ANNUAL ALL 1 New Development RP G1 646304 4077983 216899_67070 147.21 147.21 0 ANNUAL ALL 1 New Development RP G1 646304 4077983 231899_67070 147.21 147.21 0 ANNUAL ALL 1 New Development RP G1 646304 4078083 143830_67240 127.58 127.58 0 ANNUAL ALL 1 New Development RP G1 646304 4078083 143830_67240 127.58 127.58 0 ANNUAL ALL 1 New Development RP G1 646304 4078083 143830_67240 127.58 127.58 0 ANNUAL ALL 1 New Development RP G1 646304 4078083 163370_10490 134.35 134.35 0 ANNUAL ALL 1 New Development RP G1 646304 4078083 163370_10490 134.35 134.35 0 ANNUAL ALL 1 New Development RP G1 646303 4078083 16392_817750 139.22 139.22 0 ANNUAL ALL 1 New Development RP G1 646303 4078083 187972_62860 144.65 144.65 0 ANNUAL ALL 1 New Development RP G1 646303 4078083 216555_76360 146.76 146.76 0 ANNUAL ALL 1 New Development RP G1 646303 4078083 20333_04940 150.64 150.64 0 ANNUAL ALL 1 New Development RP G1 646303 4078083 23322_699540 150.64 150.64 0 ANNUAL ALL 1 New Development RP G1 646303 4078083 233326_9900 150.64 150.6 | | | | | | | | | 1 | | * | |
| 646330 4077983 163269.62100 139.18 139.18 0 ANNUAL ALL 1 New Development RP G1 | | | | | | | | | 1 | | | |
| 646330 4077983 13882_9990 140_76 140_76 140_76 0 ANNUAL ALL 1 New Development RP_G1 | | | | | | | | | <u>l</u> | | | |
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| 645930 4078283 161904.53980 126.06 126.06 0 ANNUAL ALL 1 New Development RP G1 646030 4078283 172424.00090 129.56 129.56 0 ANNUAL ALL 1 New Development RP G1 646130 4078283 183891.58430 132.89 132.89 0 ANNUAL ALL 1 New Development RP G1 646230 4078283 196818.70010 139.24 139.24 0 ANNUAL ALL 1 New Development RP G1 646330 4078283 210513.41700 142.68 142.68 0 ANNUAL ALL 1 New Development RP G1 646430 4078283 224240.15270 140.02 0 ANNUAL ALL 1 New Development RP G1 646630 4078283 241581.86070 147.22 0 ANNUAL ALL 1 New Development RP G1 646630 4078283 281845.23400 < | | 4078183 | 248054.56120 | | 151.56 | 0 | ANNUAL | ALL | 1 | | New Development | |
| 646030 4078283 172424.00090 129.56 129.56 0 ANNUAL ALL 1 New Development RP_G1 646130 4078283 183891.58430 132.89 132.89 0 ANNUAL ALL 1 New Development RP_G1 646230 4078283 196818.70010 139.24 139.24 0 ANNUAL ALL 1 New Development RP_G1 646330 4078283 210513.41700 142.68 142.68 0 ANNUAL ALL 1 New Development RP_G1 646430 4078283 224240.15270 140.02 0 ANNUAL ALL 1 New Development RP_G1 646530 4078283 241581.86070 147.22 147.22 0 ANNUAL ALL 1 New Development RP_G1 646630 4078283 260379.45500 151.56 0 ANNUAL ALL 1 New Development RP_G1 648659.32 4077241 1482133.20890 | 646730 | 4078183 | 269254.91950 | 157.78 | 166 | 0 | ANNUAL | | 1 | | New Development | RP_G1 |
| 646130 4078283 183891.58430 132.89 132.89 0 ANNUAL ALL 1 New Development RP GI 646230 4078283 196818.70010 139.24 139.24 0 ANNUAL ALL 1 New Development RP GI 646330 4078283 210513.41700 142.68 142.68 0 ANNUAL ALL 1 New Development RP GI 646430 4078283 224240.15270 140.02 0 ANNUAL ALL 1 New Development RP GI 646530 4078283 241581.86070 147.22 147.22 0 ANNUAL ALL 1 New Development RP GI 646630 4078283 260379.45500 151.56 151.56 0 ANNUAL ALL 1 New Development RP GI 648659.32 4077241 1482133.20890 205.79 205.79 0 ANNUAL ALL 1 House I RP HI 648071.24 4076116 2605 | 645930 | 4078283 | 161904.53980 | 126.06 | 126.06 | 0 | ANNUAL | | 1 | | New Development | RP_G1 |
| 646230 4078283 196818.70010 139.24 139.24 0 ANNUAL ALL 1 New Development RP_G1 646330 4078283 210513.41700 142.68 142.68 0 ANNUAL ALL 1 New Development RP_G1 646430 4078283 224240.15270 140.02 140.02 0 ANNUAL ALL 1 New Development RP_G1 646530 4078283 241581.86070 147.22 147.22 0 ANNUAL ALL 1 New Development RP_G1 646630 4078283 260379.45500 151.56 151.56 0 ANNUAL ALL 1 New Development RP_G1 646730 4078283 281845.23400 156.78 166 0 ANNUAL ALL 1 New Development RP_G1 648659.32 4077241 1482133.20890 205.79 205.79 0 ANNUAL ALL 1 House 1 RP_H1 648071.24 4076116< | 646030 | | 172424.00090 | 129.56 | 129.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646330 4078283 210513.41700 142.68 142.68 0 ANNUAL ALL 1 New Development RP GI 646430 4078283 224240.15270 140.02 140.02 0 ANNUAL ALL 1 New Development RP GI 646530 4078283 241581.86070 147.22 147.22 0 ANNUAL ALL 1 New Development RP GI 646630 4078283 260379.45500 151.56 151.56 0 ANNUAL ALL 1 New Development RP GI 646730 4078283 281845.23400 156.78 166 0 ANNUAL ALL 1 New Development RP GI 648659.32 4077241 1482133.20890 205.79 205.79 0 ANNUAL ALL 1 House I RP H1 648071.24 4076116 260589.83420 169.6 240 0 ANNUAL ALL 1 House 10 RP H10 648027.19 4076278 | 646130 | 4078283 | 183891.58430 | | 132.89 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646430 4078283 224240.15270 140.02 140.02 0 ANNUAL ALL 1 New Development RP_G1 646530 4078283 241581.86070 147.22 147.22 0 ANNUAL ALL 1 New Development RP_G1 646630 4078283 260379.45500 151.56 151.56 0 ANNUAL ALL 1 New Development RP_G1 646730 4078283 281845.23400 156.78 166 0 ANNUAL ALL 1 New Development RP_G1 648659.32 4077241 1482133.20890 205.79 205.79 0 ANNUAL ALL 1 House 1 RP_H1 648071.24 4076116 260589.83420 169.6 240 0 ANNUAL ALL 1 House 10 RP_H10 648027.19 4076278 340879.97800 184.55 240 0 ANNUAL ALL 1 House 11 RP_H11 64805.77 4076359 < | 646230 | 4078283 | 196818.70010 | 139.24 | 139.24 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646530 4078283 241581.86070 147.22 147.22 0 ANNUAL ALL 1 New Development RP_G1 646630 4078283 260379.45500 151.56 151.56 0 ANNUAL ALL 1 New Development RP_G1 646730 4078283 281845.23400 156.78 166 0 ANNUAL ALL 1 New Development RP_G1 648659.32 4077241 1482133.20890 205.79 205.79 0 ANNUAL ALL 1 House 1 RP_H1 648071.24 4076116 260589.83420 169.6 240 0 ANNUAL ALL 1 House 10 RP_H10 648247.37 4076278 340879.97800 184.55 240 0 ANNUAL ALL 1 House 11 RP_H11 648027.19 4076255 277372.71440 169.38 240 0 ANNUAL ALL 1 House 12 RP_H12 648065.77 4076359 30 | 646330 | 4078283 | 210513.41700 | 142.68 | 142.68 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646630 4078283 260379.45500 151.56 151.56 0 ANNUAL ALL 1 New Development RP_G1 646730 4078283 281845.23400 156.78 166 0 ANNUAL ALL 1 New Development RP_G1 648659.32 4077241 1482133.20890 205.79 205.79 0 ANNUAL ALL 1 House 1 RP_H1 648071.24 4076116 260589.83420 169.6 240 0 ANNUAL ALL 1 House 10 RP_H10 648247.37 4076278 340879.97800 184.55 240 0 ANNUAL ALL 1 House 11 RP_H11 648027.19 4076255 277372.71440 169.38 240 0 ANNUAL ALL 1 House 12 RP_H12 648065.77 4076359 302914.17450 173.83 240 0 ANNUAL ALL 1 House 13 RP_H13 | 646430 | 4078283 | 224240.15270 | 140.02 | 140.02 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646730 4078283 281845.23400 156.78 166 0 ANNUAL ALL 1 New Development RP G1 648659.32 4077241 1482133.20890 205.79 205.79 0 ANNUAL ALL 1 House 1 RP_H1 648071.24 4076116 260589.83420 169.6 240 0 ANNUAL ALL 1 House 10 RP_H10 648247.37 4076278 340879.97800 184.55 240 0 ANNUAL ALL 1 House 11 RP_H11 648027.19 4076255 277372.71440 169.38 240 0 ANNUAL ALL 1 House 12 RP_H12 648065.77 4076359 302914.17450 173.83 240 0 ANNUAL ALL 1 House 13 RP_H13 | 646530 | 4078283 | 241581.86070 | 147.22 | 147.22 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 648659.32 4077241 1482133.20890 205.79 205.79 0 ANNUAL ALL 1 House 1 RP_H1 648071.24 4076116 260589.83420 169.6 240 0 ANNUAL ALL 1 House 10 RP_H10 648247.37 4076278 340879.97800 184.55 240 0 ANNUAL ALL 1 House 11 RP_H11 648027.19 4076255 277372.71440 169.38 240 0 ANNUAL ALL 1 House 12 RP_H12 648065.77 4076359 302914.17450 173.83 240 0 ANNUAL ALL 1 House 13 RP_H13 | 646630 | 4078283 | 260379.45500 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 648071.24 4076116 260589.83420 169.6 240 0 ANNUAL ALL 1 House 10 RP_H10 648247.37 4076278 340879.97800 184.55 240 0 ANNUAL ALL 1 House 11 RP_H11 648027.19 4076255 277372.71440 169.38 240 0 ANNUAL ALL 1 House 12 RP_H12 648065.77 4076359 302914.17450 173.83 240 0 ANNUAL ALL 1 House 13 RP_H13 | 646730 | 4078283 | 281845.23400 | 156.78 | 166 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 648247.37 4076278 340879.97800 184.55 240 0 ANNUAL ALL 1 House 11 RP_H11 648027.19 4076255 277372.71440 169.38 240 0 ANNUAL ALL 1 House 12 RP_H12 648065.77 4076359 302914.17450 173.83 240 0 ANNUAL ALL 1 House 13 RP_H13 | 648659.32 | 4077241 | 1482133.20890 | 205.79 | 205.79 | 0 | ANNUAL | ALL | 1 | | House 1 | RP_H1 |
| 648027.19 4076255 277372.71440 169.38 240 0 ANNUAL ALL 1 House 12 RP_H12 648065.77 4076359 302914.17450 173.83 240 0 ANNUAL ALL 1 House 13 RP_H13 | 648071.24 | 4076116 | 260589.83420 | 169.6 | 240 | 0 | ANNUAL | ALL | 1 | | House 10 | RP_H10 |
| 648065.77 4076359 302914.17450 173.83 240 0 ANNUAL ALL 1 House 13 RP_H13 | 648247.37 | 4076278 | 340879.97800 | 184.55 | 240 | 0 | ANNUAL | ALL | 1 | | House 11 | RP_H11 |
| 648065.77 4076359 302914.17450 173.83 240 0 ANNUAL ALL 1 House 13 RP_H13 | 648027.19 | 4076255 | 277372.71440 | | 240 | 0 | ANNUAL | ALL | 1 | | House 12 | RP H12 |
| - | 648065.77 | 4076359 | | | 240 | 0 | | ALL | 1 | | House 13 | RP H13 |
| | 648138.68 | 4076400 | 328544.91720 | | 240 | 0 | ANNUAL | ALL | 1 | | House 14 | RP H14 |

* AERMET (19191): 2019

15:27:04

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
|-----------|---------|---------------|--------|--------|-------|--------|-----|---------|--------|-------------|--------|------|
| 648254.71 | 4076411 | 379556.16420 | 191.28 | 240 | 0 | ANNUAL | ALL | 1 | | House 15 | RP H15 | 1 |
| 647877.81 | 4076365 | 265040.89250 | 165.39 | 240 | 0 | ANNUAL | ALL | 1 | | House 16 | RP H16 | 1 |
| 647520 | 4076206 | 201695.20390 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 17 | RP_H17 | 1 |
| 647921 | 4076247 | 256455.89620 | 164 | 240 | 0 | ANNUAL | ALL | 1 | | House 18 | RP_H18 | 1 |
| 647708.78 | 4076352 | 237221.52320 | 163.52 | 163.52 | 0 | ANNUAL | ALL | 1 | | House 19 | RP_H19 | |
| 648371.71 | 4075470 | 244735.09730 | 173.69 | 227 | 0 | ANNUAL | ALL | 1 | | House 2 | RP_H2 | 1 |
| 647703.58 | 4076251 | 226585.37460 | 162.17 | 162.17 | 0 | ANNUAL | ALL | 1 | | House 20 | RP_H20 | |
| 647718.77 | 4076104 | 206998.99580 | 159.35 | 159.35 | 0 | ANNUAL | ALL | 1 | | House 21 | RP_H21 | Ī |
| 647843.32 | 4076125 | 225013.75910 | 163 | 234 | 0 | ANNUAL | ALL | 1 | | House 22 | RP_H22 | |
| 647842.26 | 4076500 | 267852.50010 | 167.93 | 167.93 | 0 | ANNUAL | ALL | 1 | | House 23 | RP_H23 | 1 |
| 647727.75 | 4076644 | 236871.40530 | 164.15 | 164.15 | 0 | ANNUAL | ALL | 1 | | House 24 | RP_H24 | |
| 647823.91 | 4076644 | 258181.03680 | 168.29 | 168.29 | 0 | ANNUAL | ALL | 1 | | House 25 | RP_H25 | 1 |
| 647530 | 4076497 | 206859.38470 | 159.56 | 159.56 | 0 | ANNUAL | ALL | 1 | | House 26 | RP_H26 | |
| 647810.11 | 4076854 | 252698.19520 | 162.9 | 162.9 | 0 | ANNUAL | ALL | 1 | | House 27 | RP_H27 | |
| 647697.48 | 4076989 | 230302.69510 | 161.42 | 162 | 0 | ANNUAL | ALL | 1 | | House 28 | RP_H28 | 4 |
| 648225.5 | 4076182 | 313694.87800 | 183.22 | 240 | 0 | ANNUAL | ALL | 1 | | House 29 | RP_H29 |] |
| 647678.23 | 4075969 | 185101.74050 | 159.5 | 159.5 | 0 | ANNUAL | ALL | 1 | | House 3 | RP_H3 | |
| 645876.32 | 4077487 | 88150.74920 | 127.13 | 142 | 0 | ANNUAL | ALL | 1 | | House 30 | RP_H30 | |
| 650902 | 4076062 | 2484311.42780 | 215.24 | 287 | 0 | ANNUAL | ALL | 1 | | House 31 | RP_H31 | MEIR |
| 651490 | 4076597 | 1487515.33240 | 205.5 | 813 | 0 | ANNUAL | ALL | 1 | | House 32 | RP_H32 | |
| 651565 | 4077067 | 1016230.44910 | 213.93 | 813 | 0 | ANNUAL | ALL | 1 | | House 33 | RP_H33 | |
| 648672.77 | 4075307 | 343694.62700 | 225.91 | 227 | 0 | ANNUAL | ALL | 1 | | House 34 | RP_H34 | |
| 648383.6 | 4075469 | 246620.82720 | 174.44 | 227 | 0 | ANNUAL | ALL | 1 | | House 35 | RP_H35 | |
| 646379.37 | 4077233 | 98286.34420 | 146 | 146 | 0 | ANNUAL | ALL | 1 | | House 36 | RP_H36 | |
| 651849.72 | 4075865 | 1014935.51400 | 201.97 | 333 | 0 | ANNUAL | ALL | 1 | | House 37 | RP_H37 | |
| 652045.49 | 4076210 | 845695.41110 | 196.88 | 813 | 0 | ANNUAL | ALL | 1 | | House 38 | RP_H38 | |
| 652255.69 | 4076391 | 683996.85700 | 197.06 | 813 | 0 | ANNUAL | ALL | 1 | | House 39 | RP_H39 | |
| 647815.25 | 4075985 | 202420.69660 | 162.04 | 162.04 | 0 | ANNUAL | ALL | 1 | | House 4 | RP_H4 | |
| 646853.73 | 4077373 | 147330.45450 | 145.99 | 145.99 | 0 | ANNUAL | ALL | 1 | | House 40 | RP_H40 | 4 |
| 647050.21 | 4077360 | 168431.16780 | 145 | 145 | 0 | ANNUAL | ALL | 1 | | House 41 | RP_H41 | |
| 647286.42 | 4077474 | 230414.06140 | 149.68 | 153 | 0 | ANNUAL | ALL | 1 | | House 42 | RP_H42 | 4 |
| 647359.05 | 4077340 | 215621.62920 | 154.45 | 159 | 0 | ANNUAL | ALL | 1 | | House 43 | RP_H43 | |
| 647490.41 | 4077329 | 242850.54970 | 162.28 | 162.28 | 0 | ANNUAL | ALL | 1 | | House 44 | RP_H44 | 4 |
| 647522.17 | 4077252 | 233620.51310 | 164.3 | 164.3 | 0 | ANNUAL | ALL | 1 | | House 45 | RP_H45 | |
| 647517.82 | 4077139 | 215750.63220 | 164.01 | 164.01 | 0 | ANNUAL | ALL | 1 | | House 46 | RP_H46 | 4 |
| 646819.01 | 4077258 | 133470.53880 | 151.53 | 152 | 0 | ANNUAL | ALL | 1 | | House 47 | RP_H47 | |
| 646778.72 | 4077128 | 121492.19480 | 158.51 | 158.51 | 0 | ANNUAL | ALL | 1 | | House 48 | RP_H48 | 4 |
| 646987.26 | 4077213 | 145595.11760 | 146.44 | 146.44 | 0 | ANNUAL | ALL | 1 | | House 49 | RP_H49 | 1 |
| 647898.2 | 4076033 | 219059.44940 | 163.83 | 237 | 0 | ANNUAL | ALL | 1 | | House 5 | RP_H5 | 4 |
| 647241.77 | 4077227 | 178783.41470 | 154.85 | 154.85 | 0 | ANNUAL | ALL | 1 | | House 50 | RP_H50 | 1 |
| 646773.05 | 4077063 | 118177.28230 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 51 | RP_H51 | 4 |
| 647104.37 | 4077118 | 150865.96930 | 148.99 | 148.99 | 0 | ANNUAL | ALL | 1 | | House 52 | RP_H52 | 1 |
| 647291.9 | 4077123 | 176082.93440 | 158.62 | 158.62 | 0 | ANNUAL | ALL | 1 | | House 53 | RP_H53 | 4 |
| 646765.24 | 4076978 | 114876.41100 | 158.67 | 158.67 | 0 | ANNUAL | ALL | 1 | | House 54 | RP_H54 | |

* AERMET (19191): 2019 15:2

15:27:04

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------|--------|------------------|--------|
| 646995.65 | 4076984 | 130877.66880 | 152.34 | 152.34 | 0 | ANNUAL | ALL | 1 | | House 55 | RP_H55 |
| 647317.21 | 4077031 | 169556.17420 | 160.22 | 160.22 | 0 | ANNUAL | ALL | 1 | | House 56 | RP_H56 |
| 647398.39 | 4077013 | 178964.77240 | 161.26 | 161.26 | 0 | ANNUAL | ALL | 1 | | House 57 | RP_H57 |
| 646978.93 | 4076904 | 128547.50960 | 156.81 | 156.81 | 0 | ANNUAL | ALL | 1 | | House 58 | RP_H58 |
| 647015.19 | 4076807 | 135395.26330 | 156.21 | 156.21 | 0 | ANNUAL | ALL | 1 | | House 59 | RP_H59 |
| 648045.44 | 4076018 | 241795.34020 | 168.26 | 240 | 0 | ANNUAL | ALL | 1 | | House 6 | RP_H6 |
| 647163.96 | 4076802 | 150294.17510 | 154.38 | 154.38 | 0 | ANNUAL | ALL | 1 | | House 60 | RP_H60 |
| 647310.58 | 4076940 | 161267.25990 | 162.49 | 162.49 | 0 | ANNUAL | ALL | 1 | | House 61 | RP_H61 |
| 647298.09 | 4076805 | 166121.75190 | 158 | 158 | 0 | ANNUAL | ALL | 1 | | House 62 | RP_H62 |
| 647446.56 | 4076900 | 178195.13920 | 159.45 | 159.45 | 0 | ANNUAL | ALL | 1 | | House 63 | RP_H63 |
| 647464.49 | 4076781 | 192741.40370 | 159.32 | 159.32 | 0 | ANNUAL | ALL | 1 | | House 64 | RP_H64 |
| 647512 | 4076536 | 200815.07980 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 65 | RP_H65 |
| 651131 | 4078767 | 180379.83810 | 179.58 | 830 | 0 | ANNUAL | ALL | 1 | | House 66 | RP_H66 |
| 647131 | 4077336 | 176363.78570 | 146.77 | 146.77 | 0 | ANNUAL | ALL | 1 | | House 67 | RP_H67 |
| 646798 | 4076740 | 121656.65090 | 156.07 | 156.07 | 0 | ANNUAL | ALL | 1 | | House 68 | RP_H68 |
| 646900 | 4076802 | 126500.68660 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 69 | RP_H69 |
| 648126.33 | 4075955 | 250346.67120 | 171.51 | 240 | 0 | ANNUAL | ALL | 1 | | House 7 | RP_H7 |
| 647317 | 4076662 | 178432.92080 | 159.9 | 159.9 | 0 | ANNUAL | ALL | 1 | | House 70 | RP_H70 |
| 648249.26 | 4075970 | 283417.95640 | 183.42 | 240 | 0 | ANNUAL | ALL | 1 | | House 8 | RP_H8 |
| 648218.58 | 4076109 | 298123.75150 | 182.28 | 240 | 0 | ANNUAL | ALL | 1 | | House 9 | RP_H9 |
| 649744 | 4079173 | 354471.23930 | 176.1 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 51 | G51 |
| 650144 | 4079173 | 255174.98300 | 173 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 61 | G61 |
| 650544 | 4079173 | 223396.99030 | 177 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 71 | G71 |
| 650944 | 4079173 | 181450.72620 | 181.3 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 81 | G81 |
| 651344 | 4079173 | 143007.30280 | 191 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 91 | G91 |

09/02/21

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in µg/m³.

Concetration values multiplied by a factor of 10 to convert from 0.1 lb/hr-SF to 1 lb/hr-SF for dispersion factor use.

15:30:17

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| I OKW | 1A1. (A,1A,. | $3(1\Lambda,113.3),3(1\Lambda,16.2),2\Lambda,1$ | A0,2A,A0,2A, | 10.0,271,710) | | | | | | | | - |
|------------|--------------|---|--------------|---------------|-------|--------|-----|---------|--------|------------------------------------|------------|-------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
| 645996 | 4078698 | 247071.42560 | 123.85 | 123.85 | 0 | ANNUAL | ALL | 1 | | AQ Monitoring Station | AQ_ST_1 | |
| 643903.65 | 4077719 | 84910.08400 | 105.68 | 105.68 | 0 | ANNUAL | ALL | 1 | | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642056.782 | 4079416 | 71790.42910 | 85.12 | 85.12 | 0 | ANNUAL | ALL | 1 | | Dunne Park | CR_PK_1 | |
| 642179.095 | 4079950 | 70913.02770 | 117.99 | 117.99 | 0 | ANNUAL | ALL | 1 | | Vista Park Hill Park | CR_PK_2 | |
| 644733.142 | 4078753 | 140821.59720 | 106.44 | 106.44 | 0 | ANNUAL | ALL | 1 | | Las Brisas Park | CR_PK_3 | |
| 645608.808 | 4078854 | 208449.28680 | 112.86 | 112.86 | 0 | ANNUAL | ALL | 1 | | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238.054 | 4078807 | 120940.04430 | 95.25 | 95.25 | 0 | ANNUAL | ALL | 1 | | Veterans Memorial Park | CR_PK_5 | |
| 645311.476 | 4076559 | 99771.68300 | 134.61 | 134.61 | 0 | ANNUAL | ALL | 1 | | Park 6 | CR_PK_6 | |
| 649581.689 | 4073424 | 250022.89620 | 159.96 | 318 | 0 | ANNUAL | ALL | 1 | | Park 7 | CR_PK_7 | |
| 645145.11 | 4077181 | 107909.81190 | 133 | 133 | 0 | ANNUAL | ALL | 1 | | Cerra Vista Elem School | CR_SC_1 | |
| 642904.712 | 4079955 | 88340.82100 | 86 | 86 | 0 | ANNUAL | ALL | 1 | | San Andreas Continuation | CR SC 10 | |
| 645850.678 | 4074015 | 79416.21610 | 123 | 313 | 0 | ANNUAL | ALL | 1 | | SouthSide School | CR SC 11 | |
| 642105.679 | 4078176 | 54432.94310 | 91 | 91 | 0 | ANNUAL | ALL | 1 | | School 12 | CR SC 12 | |
| 646058.93 | 4078443 | 244066.92930 | 128.52 | 128.52 | 0 | ANNUAL | ALL | 1 | | Rancho Santana School | CR_SC_13 | Schoo |
| 647269 | 4075575 | 175355.47900 | 158 | 158 | 0 | ANNUAL | ALL | 1 | | Future School | CR SC 14 | |
| 648466 | 4074106 | 193248.10780 | 159 | 240 | 0 | ANNUAL | ALL | 1 | | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644109.6 | 4078389 | 104079.11580 | 98.2 | 98.2 | 0 | ANNUAL | ALL | 1 | | Sunnyslope Elem School | CR SC 2 | |
| 643920.12 | 4077304 | 76131.94780 | 101.23 | 101.23 | 0 | ANNUAL | ALL | 1 | | Hollister Montessori School | CR SC 3 | |
| 642961.07 | 4078621 | 76527.38540 | 92 | 92 | 0 | ANNUAL | ALL | 1 | | Rancho San Justo Middle School | CR SC 4 | |
| 643980.02 | 4079743 | 126512.68440 | 88 | 88 | 0 | ANNUAL | ALL | 1 | | Marguerite Maze Middle School | CR SC 5 | |
| 641630.17 | 4079153 | 63413.88560 | 85 | 85 | 0 | ANNUAL | ALL | 1 | | Hollister Prep Schoo | CR_SC_6 | |
| 643350.03 | 4077181 | 60493.55250 | 98.22 | 98.22 | 0 | ANNUAL | ALL | 1 | | Ladd Lane Elementary School | CR SC 7 | |
| 644002.96 | 4080079 | 137800.59440 | 87 | 87 | 0 | ANNUAL | ALL | 1 | | Gabilan Hills Elementary School | CR SC 8 | |
| 642244.858 | 4078413 | 56645.44700 | 90.17 | 90.17 | 0 | ANNUAL | ALL | 1 | | San Benito High School | CR SC 9 | |
| 642083.447 | 4079794 | 68423.72520 | 87.58 | 127 | 0 | ANNUAL | ALL | 1 | | Jovenes De Antano | CR SR 1 | |
| 646402 | 4076879 | 171723.15870 | 146.33 | 153 | 0 | ANNUAL | ALL | 1 | | Workplace | CR WP 1 | |
| 648949 | 4077938 | 2615205.25430 | 189.45 | 259 | 0 | ANNUAL | ALL | 1 | | Nearest Workplace | CR_WP_2 | MEIV |
| 647744 | 4079173 | 796800.75180 | 155.2 | 155.2 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 231298.65940 | 160 | 160 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 1195972.73840 | 252.9 | 252.9 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 883429.89180 | 165.9 | 165.9 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 1073681.76220 | 159.6 | 159.6 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 12 | G12 | |
| 648144 | 4078373 | 1207906.52820 | 146.2 | 146.2 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 13 | G13 | |
| 648144 | 4077973 | 1210278.52420 | 158.3 | 181 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 14 | G14 | |
| 648144 | 4077573 | 989999.46320 | 166.6 | 179 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 15 | G15 | |
| 648144 | 4077173 | 731275.19700 | 175.4 | 175.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 16 | G15 | |
| 648144 | 4076773 | 542311.83530 | 177.1 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 17 | G17 | |
| 648144 | 4076373 | 438012.70130 | 178 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 18 | G17 | |
| 648144 | 4075973 | 359467.89760 | 173 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 19 | G19 | |
| 647744 | 4078773 | 859330.76120 | 145.4 | 145.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 2 | G2 | 1 |
| 648144 | 4075573 | 291833.34660 | 168.8 | 190 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 20 | G20 | |
| 648544 | 4079173 | 863835.78820 | 173.5 | 190 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 21 | G20 G21 | 1 |
| 648544 | 4079173 | 1193249.72480 | 166.2 | 166.2 | 0 | ANNUAL | ALL | 1 1 | | Grid Receptor 21 Grid Receptor 22 | G21 G22 | |
| | 4078373 | | 145.4 | 253 | | | ALL | 1 1 | | • | G22 G23 | 4 |
| 648544 | 40/83/3 | 1535079.28670 | 145.4 | 255 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 23 | G23 | |

* AERMET (21112): 2020

15:30:17

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 289 RECEPTORS.

FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | (1X,F13.5),3(1X,F8.2),2X,A | | | | 4.575 | CDD | NUMBER | NIEW ID | P | ID |
|--------|---------|----------------------------|-------|-------|-------|-----------------|------|---------|---------|------------------|-----|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
| 648544 | 4077973 | 1890498.26030 | 173.9 | 214 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 1884903.13170 | 179.6 | 227 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 1368522.17800 | 191 | 226 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 1052677.13010 | 209.2 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 785015.32550 | 233.7 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 540402.48220 | 199.9 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 867979.84480 | 144.4 | 144.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 421319.37580 | 195.5 | 227 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 830432.91940 | 190.4 | 194 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 1132433.22670 | 165.4 | 165.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 1718531.94170 | 159.6 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 2496067.74430 | 183.5 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 4821979.46580 | 224 | 226 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 1239878.60800 | 205 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 886292.45710 | 208.8 | 220 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 749476.94220 | 134.6 | 181 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 542110.36680 | 185.6 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 626347.80810 | 187.4 | 801 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 927392.86070 | 160.9 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 1763524.83080 | 200.5 | 221 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 3566624.80880 | 229 | 253 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 1929008.67440 | 253.3 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 4015675.51900 | 220.2 | 263 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 1709728.31500 | 227.2 | 227.2 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 613669.77900 | 163.8 | 171 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 941486.91040 | 205.5 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 50 | G50 |
| 649744 | 4078773 | 718337.38550 | 195 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 1216248.85260 | 196.1 | 227 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 3141135.92950 | 215.3 | 251 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 8507683.96140 | 221.6 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 8642198.96160 | 211.7 | 266 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 2468261.91640 | 237.7 | 257 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 474915.41480 | 158.4 | 171 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 1462955.68440 | 204.2 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 60 | G60 |
| 650144 | 4078773 | 430362.84170 | 171 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 776475.09620 | 204.6 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 1747916.82780 | 216.5 | 290 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 1520109.13790 | 257.7 | 257.7 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 6450903.58780 | 231.4 | 272 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 2100522.43450 | 249.4 | 266 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 360271.88500 | 164.7 | 164.7 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 2110845.45490 | 216.4 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 70 | G70 |
| 650544 | 4078773 | 298390.00590 | 180.9 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 458549.40190 | 196.6 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 73 | G73 |
| 050544 | 10,0515 | 120217.70170 | 170.0 | 050 | U | . 11 11 10 / 1L | 1144 | 1 | | ona neceptor 15 | 3/3 |

* AERMET (21112): 2020 15:3

15:30:17

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| FORN | VIA1. (A,1A,3 | 6(1X,F13.5),3(1X,F8.2),2X, <i>F</i> | $40,2\Lambda,A0,2\Lambda,$ | 10.0,2A,Ao | | | | | | | |
|-----------|---------------|-------------------------------------|----------------------------|------------|-------|--------|-----|----------|--------|---------------------------------------|------------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
| 650544 | 4077973 | 690895.16100 | 236.9 | 801 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 340019.49260 | 261.3 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 2153998.95870 | 260.9 | 260.9 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 3444477.51610 | 226.7 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 314386.10690 | 164 | 164 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 911413.57780 | 268.2 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 80 | G80 |
| 650944 | 4078773 | 227171.89530 | 178.4 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 376296.10690 | 214.8 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 219666.07120 | 249.9 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 175033.92910 | 276.5 | 296 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 2701719.52780 | 225.6 | 296 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 4985347.66940 | 219.8 | 267 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 3747800.45680 | 209.2 | 273 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 2826672.66220 | 216.6 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 278811.35330 | 160.7 | 160.7 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 1721102.08400 | 243.2 | 289 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 90 | G90 |
| 651344 | 4078773 | 189985.67760 | 181 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 256276.75220 | 214.3 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 202964.04840 | 248.4 | 826 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 645381.77260 | 213.2 | 826 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 1359154.22450 | 213.6 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 1849057.84390 | 203.5 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 2099665.66420 | 205.6 | 220 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 1946337.19450 | 205.8 | 269 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 99 | G98 G99 |
| 648584.24 | 4077523 | 1987525.21120 | 183.61 | 209 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 1 | P1 |
| | 4077537 | | 254.01 | 257 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 10 | P10 |
| 649484.05 | | 1989423.26500 | | | | | | 1 1 | | · · · · · · · · · · · · · · · · · · · | |
| 649584.03 | 4077539 | 5527270.97710 | 235.3 | 259 | 0 | ANNUAL | ALL | l | | Boundary Perimeter 11 | P11 |
| 649684.02 | 4077540 | 8744221.32140 | 221.29 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 9698859.56320 | 222.37 | 260 | 0 | ANNUAL | ALL | <u>l</u> | | Boundary Perimeter 13 | P13 |
| 649883.99 | 4077542 | 6911949.18390 | 233.6 | 259 | 0 | ANNUAL | ALL | l | | Boundary Perimeter 14 | P14 |
| 649983.97 | 4077543 | 2783253.95240 | 249.54 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 15 | P15 |
| 650083.94 | 4077546 | 1820155.97200 | 258.89 | 258.89 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 16 | P16 |
| 650183.91 | 4077548 | 1486971.10200 | 259.56 | 259.56 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 17 | P17 |
| 650283.87 | 4077550 | 1008146.06680 | 256.77 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 18 | P18 |
| 650383.84 | 4077552 | 1455878.21710 | 242.37 | 290 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 19 | P19 |
| 648684.22 | 4077525 | 2498380.83020 | 197.16 | 227 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 2 | P2 |
| 650483.81 | 4077554 | 1105736.71130 | 242.23 | 296 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 20 | P20 |
| 650583.78 | 4077557 | 364545.30010 | 259.71 | 290 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 21 | P21 |
| 650683.75 | 4077559 | 360244.09300 | 257.58 | 296 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 22 | P22 |
| 650776.81 | 4077554 | 242612.12190 | 267.9 | 296 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 23 | P23 |
| 650778.91 | 4077454 | 286895.27430 | 275.91 | 275.91 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 531519.17640 | 265.73 | 281 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 25 | P25 |
| 650783.1 | 4077254 | 1228588.91330 | 251.08 | 282 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 26 | P26 |
| 650785.19 | 4077154 | 1743168.61760 | 252.83 | 281 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 27 | P27 |

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- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
|-----------|---------|----------------|--------|--------|-------|--------|-----|---------|--------|-----------------------|-----|-----|
| 650787.29 | 4077054 | 3096128.01610 | 246.1 | 269 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 28 | P28 | |
| 650789.38 | 4076954 | 4464631.85280 | 241.37 | 269 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 29 | P29 | 1 |
| 648784.19 | 4077527 | 3411275.24510 | 209.74 | 209.74 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 3 | Р3 | |
| 650791.48 | 4076854 | 4161244.47250 | 246.79 | 251 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 30 | P30 | 1 |
| 650793.57 | 4076754 | 7694512.75550 | 228.75 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 31 | P31 | |
| 650754.39 | 4076683 | 8060798.21040 | 217.76 | 271 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 32 | P32 | |
| 650660.22 | 4076650 | 9190421.78870 | 221.2 | 273 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 33 | P33 | |
| 650561.43 | 4076650 | 10199555.61680 | 220.83 | 273 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 34 | P34 | |
| 650462.72 | 4076666 | 11275274.61250 | 223.42 | 273 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 35 | P35 | |
| 650364.01 | 4076682 | 12026272.82100 | 222.46 | 263 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 36 | P36 | |
| 650264.24 | 4076683 | 11902236.07210 | 223.19 | 263 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 37 | P37 | |
| 650164.71 | 4076674 | 12095426.99680 | 222.1 | 249 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 38 | P38 | 1 |
| 650065.8 | 4076660 | 12454643.43120 | 217.03 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 39 | P39 | |
| 648884.17 | 4077529 | 4320173.52750 | 214.25 | 227 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 4 | P4 | |
| 649980.44 | 4076627 | 12924632.14560 | 214.82 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 40 | P40 | PMI |
| 649920.26 | 4076547 | 12877651.74020 | 214.91 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 41 | P41 | 1 |
| 649852.19 | 4076474 | 11921386.44870 | 214.09 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 42 | P42 | |
| 649770.68 | 4076417 | 10165198.25970 | 211.53 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 43 | P43 | 1 |
| 649680.48 | 4076375 | 8504673.59240 | 210.17 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 44 | P44 | |
| 649580.91 | 4076368 | 6847829.02430 | 208.52 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 45 | P45 | 1 |
| 649482.48 | 4076384 | 5462054.45670 | 207.5 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 46 | P46 | |
| 649391.59 | 4076425 | 4726608.52350 | 205.17 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 47 | P47 | 1 |
| 649303.5 | 4076472 | 3831007.28910 | 202.16 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 48 | P48 | |
| 649226.19 | 4076535 | 3244954.54910 | 196.38 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 49 | P49 | 1 |
| 648984.14 | 4077530 | 5327919.24350 | 221.41 | 221.41 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 5 | P5 | |
| 649156.2 | 4076605 | 2940993.40780 | 195.87 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 50 | P50 | 1 |
| 649068.25 | 4076653 | 2371667.49150 | 196.32 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 51 | P51 | |
| 648986.7 | 4076711 | 2056419.95300 | 192.42 | 263 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 52 | P52 | |
| 648936.53 | 4076759 | 1937429.40450 | 192.46 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 53 | P53 | |
| 648868.58 | 4076833 | 1817245.61490 | 191.63 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 54 | P54 | |
| 648797.23 | 4076902 | 1682975.06620 | 186.32 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 55 | P55 | |
| 648710.56 | 4076952 | 1471608.54900 | 179.81 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 56 | P56 | |
| 648620.79 | 4076996 | 1280745.55680 | 176.23 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 57 | P57 | |
| 648607.19 | 4077051 | 1313753.28620 | 175.02 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 58 | P58 | |
| 648680.07 | 4077119 | 1667535.57340 | 180.62 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 59 | P59 | |
| 649084.12 | 4077532 | 5671639.61220 | 216.54 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 6 | P6 | |
| 648759.24 | 4077180 | 2205057.48360 | 183.47 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 60 | P60 | |
| 648791.44 | 4077262 | 2774868.82910 | 202.88 | 245 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 61 | P61 | |
| 648788.45 | 4077362 | 2761394.04160 | 178.21 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 62 | P62 | |
| 648691.25 | 4077361 | 2223196.25150 | 176.25 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 63 | P63 | |
| 648591.35 | 4077357 | 1800416.88840 | 176 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 64 | P64 | 4 |
| 648525.69 | 4077371 | 1597125.10090 | 175.24 | 245 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 65 | P65 | |
| 648586.93 | 4077430 | 1886392.56560 | 175.13 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 66 | P66 | |
| 649184.09 | 4077534 | 5681239.69450 | 230.71 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 7 | P7 | |

09/02/21

* AERMET (21112): 2020

15:30:17

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | (1X,F13.5),3(1X,F8.2),2X, | | | | | | | | | |
|-----------|---------|---------------------------|--------|--------|-------|--------|-----|---------|--------|----------------------|--------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
| 649284.08 | 4077535 | 2525425.98310 | 248.08 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 8 | P8 |
| 649384.06 | 4077536 | 1613987.64480 | 258.43 | 258.43 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 196807.76530 | 127.38 | 127.38 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646030 | 4077983 | 207928.21680 | 131.21 | 131.21 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646130 | 4077983 | 220071.54890 | 135.89 | 135.89 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646230 | 4077983 | 233140.73480 | 139.18 | 139.18 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646330 | 4077983 | 247189.73960 | 140.76 | 140.76 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646430 | 4077983 | 262855.12870 | 143.89 | 143.89 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646530 | 4077983 | 279949.17560 | 145.22 | 145.22 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646630 | 4077983 | 299021.97540 | 147.21 | 147.21 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646730 | 4077983 | 319849.96350 | 148.3 | 160 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 645930 | 4078083 | 205239.23090 | 127.58 | 127.58 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646030 | 4078083 | 216526.80630 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646130 | 4078083 | 228787.32780 | 134.35 | 134.35 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646230 | 4078083 | 242345.76800 | 139.22 | 139.22 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646330 | 4078083 | 257527.71820 | 144.65 | 144.65 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646430 | 4078083 | 273055.12300 | 142.28 | 142.28 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646530 | 4078083 | 291337.51850 | 146.76 | 146.76 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646630 | 4078083 | 311316.79090 | 150.64 | 150.64 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646730 | 4078083 | 333496.03630 | 155.4 | 157 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 645930 | 4078183 | 212387.45770 | 127.22 | 127.22 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646030 | 4078183 | 223833.38490 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646130 | 4078183 | 236460.76030 | 133.89 | 133.89 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646230 | 4078183 | 250883.62940 | 140.45 | 140.45 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646330 | 4078183 | 267100.85690 | 146.94 | 146.94 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646430 | 4078183 | 282318.93570 | 140.23 | 140.23 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646530 | 4078183 | 301309.22430 | 147.25 | 147.25 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646630 | 4078183 | 321638.73030 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646730 | 4078183 | 345077.89850 | 157.78 | 166 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 645930 | 4078283 | 218299.90210 | 126.06 | 126.06 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646030 | 4078283 | 230371.22750 | 129.56 | 129.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646130 | 4078283 | 243708.93960 | 132.89 | 132.89 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646230 | 4078283 | 258685.39670 | 139.24 | 139.24 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646330 | 4078283 | 274569.18540 | 142.68 | 142.68 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646430 | 4078283 | 290610.90790 | 140.02 | 140.02 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646530 | 4078283 | 309834.76720 | 147.22 | 147.22 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646630 | 4078283 | 330761.26840 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646730 | 4078283 | 354873.34630 | 156.78 | 166 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 648659.32 | 4077241 | 2082634.69760 | 205.79 | 205.79 | 0 | ANNUAL | ALL | 1 | | House 1 | RP H1 |
| 648071.24 | 4076116 | 374743.74620 | 169.6 | 240 | 0 | ANNUAL | ALL | 1 | | House 10 | RP H10 |
| 648247.37 | 4076278 | 471648.58800 | 184.55 | 240 | 0 | ANNUAL | ALL | 1 | | House 11 | RP H11 |
| 648027.19 | 4076255 | 378701.82180 | 169.38 | 240 | 0 | ANNUAL | ALL | 1 | | House 12 | RP H12 |
| 648065.77 | 4076359 | 405422.39270 | 173.83 | 240 | 0 | ANNUAL | ALL | 1 | | House 13 | RP H13 |
| 648138.68 | 4076400 | 440909.50470 | 178.22 | 240 | 0 | ANNUAL | ALL | 1 | | House 14 | RP_H14 |
| 0.0150.00 | .0,0100 | ,, | 1,0.22 | | 9 | | | | | 110 000 11 | |

15:30:17

* AERMET (21112): 2020

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
|-----------|---------|---------------|--------|--------|-------|--------|-----|---------|--------|-------------|--------|-----|
| 648254.71 | 4076411 | 510756.77560 | 191.28 | 240 | 0 | ANNUAL | ALL | 1 | | House 15 | RP_H15 | |
| 647877.81 | 4076365 | 347362.74830 | 165.39 | 240 | 0 | ANNUAL | ALL | 1 | | House 16 | RP_H16 | |
| 647520 | 4076206 | 259910.99060 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 17 | RP_H17 | |
| 647921 | 4076247 | 346703.24920 | 164 | 240 | 0 | ANNUAL | ALL | 1 | | House 18 | RP_H18 | |
| 647708.78 | 4076352 | 304539.93730 | 163.52 | 163.52 | 0 | ANNUAL | ALL | 1 | | House 19 | RP_H19 | |
| 648371.71 | 4075470 | 322875.52760 | 173.69 | 227 | 0 | ANNUAL | ALL | 1 | | House 2 | RP_H2 | |
| 647703.58 | 4076251 | 296300.48670 | 162.17 | 162.17 | 0 | ANNUAL | ALL | 1 | | House 20 | RP_H20 | |
| 647718.77 | 4076104 | 291652.71440 | 159.35 | 159.35 | 0 | ANNUAL | ALL | 1 | | House 21 | RP_H21 | |
| 647843.32 | 4076125 | 318636.78640 | 163 | 234 | 0 | ANNUAL | ALL | 1 | | House 22 | RP_H22 | |
| 647842.26 | 4076500 | 353034.74880 | 167.93 | 167.93 | 0 | ANNUAL | ALL | 1 | | House 23 | RP_H23 | |
| 647727.75 | 4076644 | 346198.02800 | 164.15 | 164.15 | 0 | ANNUAL | ALL | 1 | | House 24 | RP_H24 | |
| 647823.91 | 4076644 | 375487.84480 | 168.29 | 168.29 | 0 | ANNUAL | ALL | 1 | | House 25 | RP_H25 | |
| 647530 | 4076497 | 279763.59980 | 159.56 | 159.56 | 0 | ANNUAL | ALL | 1 | | House 26 | RP_H26 | |
| 647810.11 | 4076854 | 390525.43580 | 162.9 | 162.9 | 0 | ANNUAL | ALL | 1 | | House 27 | RP_H27 | |
| 647697.48 | 4076989 | 400523.48730 | 161.42 | 162 | 0 | ANNUAL | ALL | 1 | | House 28 | RP_H28 | |
| 648225.5 | 4076182 | 443744.32710 | 183.22 | 240 | 0 | ANNUAL | ALL | 1 | | House 29 | RP_H29 | |
| 647678.23 | 4075969 | 268410.56380 | 159.5 | 159.5 | 0 | ANNUAL | ALL | 1 | | House 3 | RP_H3 | |
| 645876.32 | 4077487 | 165942.13390 | 127.13 | 142 | 0 | ANNUAL | ALL | 1 | | House 30 | RP_H30 | |
| 650902 | 4076062 | 3116867.85020 | 215.24 | 287 | 0 | ANNUAL | ALL | 1 | | House 31 | | MEI |
| 651490 | 4076597 | 1652866.74190 | 205.5 | 813 | 0 | ANNUAL | ALL | 1 | | House 32 | RP_H32 | |
| 651565 | 4077067 | 1189837.90940 | 213.93 | 813 | 0 | ANNUAL | ALL | 1 | | House 33 | RP_H33 | |
| 648672.77 | 4075307 | 475952.26630 | 225.91 | 227 | 0 | ANNUAL | ALL | 1 | | House 34 | RP_H34 | |
| 648383.6 | 4075469 | 325604.85500 | 174.44 | 227 | 0 | ANNUAL | ALL | 1 | | House 35 | RP_H35 | |
| 646379.37 | 4077233 | 187816.18130 | 146 | 146 | 0 | ANNUAL | ALL | 1 | | House 36 | RP_H36 | |
| 651849.72 | 4075865 | 1171402.74450 | 201.97 | 333 | 0 | ANNUAL | ALL | 1 | | House 37 | RP_H37 | |
| 652045.49 | 4076210 | 941031.58740 | 196.88 | 813 | 0 | ANNUAL | ALL | 1 | | House 38 | RP_H38 | |
| 652255.69 | 4076391 | 749384.22810 | 197.06 | 813 | 0 | ANNUAL | ALL | 1 | | House 39 | RP_H39 | |
| 647815.25 | 4075985 | 292813.92490 | 162.04 | 162.04 | 0 | ANNUAL | ALL | 1 | | House 4 | RP_H4 | |
| 646853.73 | 4077373 | 269753.81340 | 145.99 | 145.99 | 0 | ANNUAL | ALL | 1 | | House 40 | RP_H40 | |
| 647050.21 | 4077360 | 304075.40490 | 145 | 145 | 0 | ANNUAL | ALL | 1 | | House 41 | RP_H41 | |
| 647286.42 | 4077474 | 377509.16300 | 149.68 | 153 | 0 | ANNUAL | ALL | 1 | | House 42 | RP_H42 | |
| 647359.05 | 4077340 | 375871.11100 | 154.45 | 159 | 0 | ANNUAL | ALL | 1 | | House 43 | RP_H43 | |
| 647490.41 | 4077329 | 415942.86790 | 162.28 | 162.28 | 0 | ANNUAL | ALL | 1 | | House 44 | RP_H44 | |
| 647522.17 | 4077252 | 410055.26760 | 164.3 | 164.3 | 0 | ANNUAL | ALL | 1 | | House 45 | RP_H45 | |
| 647517.82 | 4077139 | 384609.40920 | 164.01 | 164.01 | 0 | ANNUAL | ALL | 1 | | House 46 | RP_H46 | |
| 646819.01 | 4077258 | 246810.25480 | 151.53 | 152 | 0 | ANNUAL | ALL | 1 | | House 47 | RP_H47 | |
| 646778.72 | 4077128 | 226581.99050 | 158.51 | 158.51 | 0 | ANNUAL | ALL | 1 | | House 48 | RP_H48 | |
| 646987.26 | 4077213 | 267508.02380 | 146.44 | 146.44 | 0 | ANNUAL | ALL | 1 | | House 49 | RP_H49 | |
| 647898.2 | 4076033 | 317224.79560 | 163.83 | 237 | 0 | ANNUAL | ALL | 1 | | House 5 | RP_H5 | |
| 647241.77 | 4077227 | 323987.03650 | 154.85 | 154.85 | 0 | ANNUAL | ALL | 1 | | House 50 | RP_H50 | |
| 646773.05 | 4077063 | 222123.72860 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 51 | RP_H51 | |
| 647104.37 | 4077118 | 276300.30620 | 148.99 | 148.99 | 0 | ANNUAL | ALL | 1 | | House 52 | RP_H52 | |
| 647291.9 | 4077123 | 318296.75180 | 158.62 | 158.62 | 0 | ANNUAL | ALL | 1 | | House 53 | RP_H53 | |
| 646765.24 | 4076978 | 216104.56110 | 158.67 | 158.67 | 0 | ANNUAL | ALL | 1 | | House 54 | RP_H54 | |

09/02/21

MEIR

* AERMET (21112): 2020 15:3

15:30:17

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------|--------|------------------|--------|
| 646995.65 | 4076984 | 245286.30660 | 152.34 | 152.34 | 0 | ANNUAL | ALL | 1 | | House 55 | RP_H55 |
| 647317.21 | 4077031 | 309258.07820 | 160.22 | 160.22 | 0 | ANNUAL | ALL | 1 | | House 56 | RP_H56 |
| 647398.39 | 4077013 | 324274.35540 | 161.26 | 161.26 | 0 | ANNUAL | ALL | 1 | | House 57 | RP_H57 |
| 646978.93 | 4076904 | 233441.20350 | 156.81 | 156.81 | 0 | ANNUAL | ALL | 1 | | House 58 | RP_H58 |
| 647015.19 | 4076807 | 222377.33380 | 156.21 | 156.21 | 0 | ANNUAL | ALL | 1 | | House 59 | RP_H59 |
| 648045.44 | 4076018 | 346171.54340 | 168.26 | 240 | 0 | ANNUAL | ALL | 1 | | House 6 | RP_H6 |
| 647163.96 | 4076802 | 239871.90090 | 154.38 | 154.38 | 0 | ANNUAL | ALL | 1 | | House 60 | RP_H60 |
| 647310.58 | 4076940 | 291075.88890 | 162.49 | 162.49 | 0 | ANNUAL | ALL | 1 | | House 61 | RP_H61 |
| 647298.09 | 4076805 | 260291.96690 | 158 | 158 | 0 | ANNUAL | ALL | 1 | | House 62 | RP_H62 |
| 647446.56 | 4076900 | 307133.56190 | 159.45 | 159.45 | 0 | ANNUAL | ALL | 1 | | House 63 | RP_H63 |
| 647464.49 | 4076781 | 286139.66960 | 159.32 | 159.32 | 0 | ANNUAL | ALL | 1 | | House 64 | RP_H64 |
| 647512 | 4076536 | 280578.99810 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 65 | RP_H65 |
| 651131 | 4078767 | 209125.24610 | 179.58 | 830 | 0 | ANNUAL | ALL | 1 | | House 66 | RP_H66 |
| 647131 | 4077336 | 317581.13730 | 146.77 | 146.77 | 0 | ANNUAL | ALL | 1 | | House 67 | RP_H67 |
| 646798 | 4076740 | 190413.48670 | 156.07 | 156.07 | 0 | ANNUAL | ALL | 1 | | House 68 | RP_H68 |
| 646900 | 4076802 | 209385.70810 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 69 | RP_H69 |
| 648126.33 | 4075955 | 350521.98960 | 171.51 | 240 | 0 | ANNUAL | ALL | 1 | | House 7 | RP_H7 |
| 647317 | 4076662 | 248097.27990 | 159.9 | 159.9 | 0 | ANNUAL | ALL | 1 | | House 70 | RP_H70 |
| 648249.26 | 4075970 | 394034.69040 | 183.42 | 240 | 0 | ANNUAL | ALL | 1 | | House 8 | RP_H8 |
| 648218.58 | 4076109 | 422493.58540 | 182.28 | 240 | 0 | ANNUAL | ALL | 1 | | House 9 | RP_H9 |
| 649744 | 4079173 | 447170.30110 | 176.1 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 51 | G51 |
| 650144 | 4079173 | 308924.96600 | 173 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 61 | G61 |
| 650544 | 4079173 | 223397.48650 | 177 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 71 | G71 |
| 650944 | 4079173 | 177530.92100 | 181.3 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 81 | G81 |
| 651344 | 4079173 | 165696.98640 | 191 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 91 | G91 |

09/02/21

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in µg/m³.

Concetration values multiplied by a factor of 10 to convert from 0.1 lb/hr-SF to 1 lb/hr-SF for dispersion factor use.

* AERMET (21112): 2018

09:04:47

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 289 RECEPTORS.

FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | 3(1X,F13.5),3(1X,F8.2) | | | | | | | | | | |
|------------------|---------|------------------------|--------------|--------|-------|--------|-----|---------|--------|------------------------------------|------------|----------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
| 645996 | 4078698 | 324784.8870 | 123.85 | 123.85 | 1.5 | ANNUAL | ALL | 1 | | AQ Monitoring Station | AQ_ST_1 | |
| 643903.65 | 4077719 | 123471.9772 | 105.68 | 105.68 | 1.5 | ANNUAL | ALL | 1 | | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642056.782 | | 110567.1469 | 85.12 | 85.12 | 1.5 | ANNUAL | ALL | 1 | | Dunne Park | CR_PK_1 | |
| 642179.095 | | 118271.4082 | 117.99 | 117.99 | 1.5 | ANNUAL | ALL | 1 | | Vista Park Hill Park | CR_PK_2 | |
| 644733.142 | 4078753 | 220358.6095 | 106.44 | 106.44 | 1.5 | ANNUAL | ALL | 1 | | Las Brisas Park | CR_PK_3 | |
| 645608.808 | 4078854 | 279441.9326 | 112.86 | 112.86 | 1.5 | ANNUAL | ALL | 1 | | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238.054 | 4078807 | 190664.8578 | 95.25 | 95.25 | 1.5 | ANNUAL | ALL | 1 | | Veterans Memorial Park | CR_PK_5 | |
| 645311.476 | 4076559 | 169985.4631 | 134.61 | 134.61 | 1.5 | ANNUAL | ALL | 1 | | Park 6 | CR_PK_6 | |
| 649581.689 | 4073424 | 215119.3110 | 159.96 | 318 | 1.5 | ANNUAL | ALL | 1 | | Park 7 | CR_PK_7 | |
| 645145.11 | 4077181 | 178520.8682 | 133 | 133 | 1.5 | ANNUAL | ALL | 1 | | Cerra Vista Elem School | CR_SC_1 | |
| 642904.712 | 4079955 | 130174.6378 | 86 | 86 | 1.5 | ANNUAL | ALL | 1 | | San Andreas Continuation | CR_SC_10 | |
| 645850.678 | 4074015 | 71838.6116 | 123 | 313 | 1.5 | ANNUAL | ALL | 1 | | SouthSide School | CR_SC_11 | |
| 642105.679 | 4078176 | 80126.9750 | 91 | 91 | 1.5 | ANNUAL | ALL | 1 | | School 12 | CR_SC_12 | |
| 646058.93 | 4078443 | 350803.6024 | 128.52 | 128.52 | 1.5 | ANNUAL | ALL | 1 | | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 198736.9195 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 145989.1703 | 159 | 240 | 1.5 | ANNUAL | ALL | 1 | | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644109.6 | 4078389 | 184326.3662 | 98.2 | 98.2 | 1.5 | ANNUAL | ALL | 1 | | Sunnyslope Elem School | CR_SC_2 | |
| 643920.12 | 4077304 | 125378.3320 | 101.23 | 101.23 | 1.5 | ANNUAL | ALL | 1 | | Hollister Montessori School | CR SC 3 | |
| 642961.07 | 4078621 | 138648.8790 | 92 | 92 | 1.5 | ANNUAL | ALL | 1 | | Rancho San Justo Middle School | CR SC 4 | |
| 643980.02 | 4079743 | 160701.4348 | 88 | 88 | 1.5 | ANNUAL | ALL | 1 | | Marguerite Maze Middle School | CR SC 5 | 1 |
| 641630.17 | 4079153 | 107808.7376 | 85 | 85 | 1.5 | ANNUAL | ALL | 1 | | Hollister Prep Schoo | CR SC 6 | |
| 643350.03 | 4077181 | 106911.9685 | 98.22 | 98.22 | 1.5 | ANNUAL | ALL | 1 | | Ladd Lane Elementary School | CR SC 7 | 1 |
| 644002.96 | 4080079 | 147820.5345 | 87 | 87 | 1.5 | ANNUAL | ALL | 1 | | Gabilan Hills Elementary School | CR SC 8 | |
| 642244.858 | 4078413 | 98924.6214 | 90.17 | 90.17 | 1.5 | ANNUAL | ALL | 1 | | San Benito High School | CR SC 9 | 1 |
| 642083.447 | 4079794 | 112770.3868 | 87.58 | 127 | 1.5 | ANNUAL | ALL | 1 | | Jovenes De Antano | CR SR 1 | |
| 646402 | 4076879 | 286857.1151 | 146.33 | 153 | 1.5 | ANNUAL | ALL | 1 | | Workplace | CR WP 1 | |
| 648949 | 4077938 | 2037992.0061 | 189.45 | 259 | 1.5 | ANNUAL | ALL | 1 | | Nearest Workplace | | MEIW |
| 647744 | 4079173 | 582066.8131 | 155.2 | 155.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 237367.5951 | 160 | 160 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 983982.7342 | 252.9 | 252.9 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 629715.7092 | 165.9 | 165.9 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 790361.6238 | 159.6 | 159.6 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 12 | G12 | 1 |
| 648144 | 4078373 | 968089.3657 | 146.2 | 146.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 13 | G13 | |
| 648144 | 4077973 | 1165251.3701 | 158.3 | 181 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 14 | G14 | 1 |
| 648144 | 4077573 | 1298276.4101 | 166.6 | 179 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 15 | G15 | |
| 648144 | 4077173 | 1169950.1835 | 175.4 | 175.4 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 16 | G16 | 1 |
| 648144 | 4076773 | 814960.7157 | 177.1 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 17 | G17 | |
| 648144 | 4076373 | 520012.3983 | 178 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 18 | G18 | 1 |
| 648144 | 4075973 | 362194.0607 | 173 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 19 | G19 | |
| 647744 | 4078773 | 666877.5048 | 145.4 | 145.4 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 2 | G2 | 1 |
| 648144 | 4075573 | 264195.9709 | 168.8 | 190 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 20 | G20 | |
| 648544 | 4079173 | 614700.5926 | 173.5 | 191 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 21 | G20 | 4 |
| 648544 | 4079173 | 834945.8096 | 166.2 | 166.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 22 | G21 G22 | |
| 648544 | 4078373 | 1140552.1050 | 145.4 | 253 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 22 Grid Receptor 23 | G22 G23 | 4 |
| 648544 | 4078373 | 1616071.4710 | 173.9 | 214 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 24 | G23 G24 | |
| | 4077573 | | 173.9 | 214 | 1.5 | ANNUAL | ALL | 1 | | • | G24 G25 | 4 |
| 648544 648544 | 4077173 | 2035257.5286 | | 227 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 25 | G25 G26 | |
| | | 2004041.0393 | 191 209.2 | | 1.5 | | | 1 | | Grid Receptor 26 | | 4 |
| 648544 | 4076773 | 1566479.6396 | 209.2 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 27 | G27 | I |

* AERMET (21112): 2018 09:

09:04:47

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | 3(1X,F13.5),3(1X,F8.2), | | | | | CPP | NIT 13 5 5 100 00 | NIDO KO | | |
|--------|---------|-------------------------|-------|-------|-------|--------|-----|-------------------|---------|------------------|-----|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
| 648544 | 4076373 | 807688.9949 | 233.7 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 514038.8933 | 199.9 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 757009.4472 | 144.4 | 144.4 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 338039.9815 | 195.5 | 227 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 567186.5763 | 190.4 | 194 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 791306.8893 | 165.4 | 165.4 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 1197410.6941 | 159.6 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 1913649.2702 | 183.5 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 4290058.8019 | 224 | 226 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 1189960.1745 | 205 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 737760.8646 | 208.8 | 220 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 867322.1700 | 134.6 | 181 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 430559.4812 | 185.6 | 300 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 442286.4392 | 187.4 | 801 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 648913.4045 | 160.9 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 1286956.9992 | 200.5 | 221 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 2557872.4847 | 229 | 253 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 1690692.7509 | 253.3 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 3473230.6336 | 220.2 | 263 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 1378423.4882 | 227.2 | 227.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 910735.3505 | 163.8 | 171 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 799760.0035 | 205.5 | 300 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 50 | G50 |
| 649744 | 4078773 | 545804.4650 | 195 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 927116.9014 | 196.1 | 227 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 2429142.4957 | 215.3 | 251 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 7233289.5362 | 221.6 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 7556756.9905 | 211.7 | 266 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 1915623.7412 | 237.7 | 257 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 773952.4018 | 158.4 | 171 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 1268816.3197 | 204.2 | 300 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 60 | G60 |
| 650144 | 4078773 | 411894.2835 | 171 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 740751.3905 | 204.6 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 1580279.4247 | 216.5 | 290 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 1265627.9758 | 257.7 | 257.7 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 5582742.9141 | 231.4 | 272 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 1615868.7318 | 249.4 | 266 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 594016.3818 | 164.7 | 164.7 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 1753053.3688 | 216.4 | 300 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 70 | G70 |
| 650544 | 4078773 | 348829.0003 | 180.9 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 539979.4367 | 196.6 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 876530.5127 | 236.9 | 801 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 619738.3098 | 261.3 | 287 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 1780503.5463 | 260.9 | 260.9 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 2997656.9266 | 226.7 | 287 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 395033.3448 | 164 | 164 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 686775.6443 | 268.2 | 287 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 80 | G80 |
| 650944 | 4078773 | 286915.6215 | 178.4 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 536482.6078 | 214.8 | 830 | 1.5 | ANNUAL | ALL | 1 | | | G83 |
| 030944 | 40/83/3 | 330482.0078 | 214.8 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 83 | G85 |

* AERMET (21112): 2018 09

09:04:47

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X Y AVERGE CONC ZELEV ZHILL ZFLAG AVE GRP NUM YRS NET ID Description 650944 4077573 377592.1524 276.5 296 1.5 ANNUAL ALL 1 Grid Receptor 85 650944 4077173 3664994.5067 225.6 296 1.5 ANNUAL ALL 1 Grid Receptor 86 650944 4076773 3570806.8702 219.8 267 1.5 ANNUAL ALL 1 Grid Receptor 86 650944 4076373 357391.5870 209.2 273 1.5 ANNUAL ALL 1 Grid Receptor 88 650944 4075973 2539591.5850 216.6 287 1.5 ANNUAL ALL 1 Grid Receptor 89 647744 4075973 2432478 160.7 160.7 1.5 ANNUAL ALL 1 Grid Receptor 99 651344 4078773 1439110.0705 243.2 289 1.5 ANNUAL ALL <t< th=""><th>G84 G85 G86 G87 G88 G89 G9 G90 G92 G93 G94 G95 G96 G97 G98 G99 P1 P10 P11 P12 P13</th></t<> | G84 G85 G86 G87 G88 G89 G9 G90 G92 G93 G94 G95 G96 G97 G98 G99 P1 P10 P11 P12 P13 |
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| 650944 4077573 377592.1524 276.5 296 1.5 ANNUAL ALL 1 Grid Receptor 85 650944 4077173 3664994.5067 225.6 296 1.5 ANNUAL ALL 1 Grid Receptor 86 650944 4076773 3570806.8702 219.8 267 1.5 ANNUAL ALL 1 Grid Receptor 87 650944 4076373 3570806.8702 219.8 267 1.5 ANNUAL ALL 1 Grid Receptor 88 650944 4076373 3575391.5870 209.2 273 1.5 ANNUAL ALL 1 Grid Receptor 88 650944 4075973 2539591.5850 216.6 287 1.5 ANNUAL ALL 1 Grid Receptor 89 647744 4075973 279224.4378 160.7 160.7 1.5 ANNUAL ALL 1 Grid Receptor 9 650944 4075973 1439110.0705 243.2 289 1.5 ANNUAL ALL 1 Grid Receptor 9 0 651344 4075873 429165.5694 248.4 826 1.5 ANNUAL ALL 1 Grid Receptor 9 0 651344 4077873 429165.5694 248.4 826 1.5 ANNUAL ALL 1 Grid Receptor 93 651344 4077873 429165.5694 248.4 826 1.5 ANNUAL ALL 1 Grid Receptor 94 651344 4077173 1820458.4879 213.6 813 1.5 ANNUAL ALL 1 Grid Receptor 96 651344 4076773 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 96 651344 4076773 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 97 651344 4075973 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 97 651344 4075973 1880790.8555 205.8 269 1.5 ANNUAL ALL 1 Grid Receptor 98 648584.24 4077533 2191797.8733 183.61 227 1.5 ANNUAL ALL 1 Grid Receptor 98 648584.24 4077537 1799989.7162 254.01 257 1.5 ANNUAL ALL 1 Grid Receptor 99 648648.05 4077537 1799989.7162 254.01 257 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649484.05 4077537 179998.7162 254.01 257 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649684.03 4077539 4615401.6448 235.3 259 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649684.03 4077541 8371134.7301 222.37 260 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649688.03 4077541 8371134.7301 222.37 260 1.5 ANNUAL ALL 1 Boundary Perimeter 1 650083.87 4077548 1287912.3834 259.56 259.56 1.5 ANNUAL ALL 1 Boundary Perimeter 1 650083.87 4077548 1287912.3834 259.56 259.56 1.5 ANNUAL ALL 1 Boundary Perimeter 1 5 650083.87 4077550 1084833.0068 256.77 266 1.5 ANNUAL ALL 1 Boundary Perimeter 1 5 650383.87 4077550 1084833.0068 256.77 266 1.5 ANNUAL ALL 1 Boundary Perimeter 1 1 5 650383.87 40 | G85 G86 G87 G88 G89 G90 G92 G93 G94 G95 G96 G97 G98 G99 P1 |
| 650944 4077173 3664994.5067 225.6 226 1.5 ANNUAL ALL 1 Grid Receptor 86 650944 4076373 5370806.8702 219.8 267 1.5 ANNUAL ALL 1 Grid Receptor 87 650944 4076373 3575391.5870 209.2 273 1.5 ANNUAL ALL 1 Grid Receptor 88 650944 4076373 2539591.5850 216.6 287 1.5 ANNUAL ALL 1 Grid Receptor 89 647744 4075973 279224.4378 160.7 160.7 1.5 ANNUAL ALL 1 Grid Receptor 90 651344 4075873 1439110.0705 243.2 289 1.5 ANNUAL ALL 1 Grid Receptor 90 651344 4078773 265687.5066 181 830 1.5 ANNUAL ALL 1 Grid Receptor 92 651344 4078773 429165.5694 248.4 826 1.5 ANNUAL ALL 1 Grid Receptor 93 651344 4077973 1107915.1474 213.2 826 1.5 ANNUAL ALL 1 Grid Receptor 94 651344 4077973 1107915.1474 213.2 826 1.5 ANNUAL ALL 1 Grid Receptor 95 651344 40776773 1107915.1474 213.2 826 1.5 ANNUAL ALL 1 Grid Receptor 95 651344 40776773 12162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 96 651344 4076773 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 96 651344 4076773 1820458.4879 213.6 813 1.5 ANNUAL ALL 1 Grid Receptor 96 651344 4076773 182078.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 97 651344 4076773 188078.7878 213.6 813 1.5 ANNUAL ALL 1 Grid Receptor 96 661344 4076773 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 97 651344 4076773 2162459.5783 205.6 220 1.5 ANNUAL ALL 1 Grid Receptor 98 661344 4077573 1880790.8555 205.8 269 1.5 ANNUAL ALL 1 Grid Receptor 98 661344 4077573 179998.7162 254.01 257 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649484.05 4077537 179998.7162 254.01 257 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649484.05 4077537 179998.7162 254.01 257 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649884.05 4077537 4797542 5621897.5756 233.6 259 1.5 ANNUAL ALL 1 Boundary Perimeter 1 650083.94 4077541 8371134.7301 222.37 260 1.5 ANNUAL ALL 1 Boundary Perimeter 1 650083.94 4077541 8371134.7301 222.37 260 1.5 ANNUAL ALL 1 Boundary Perimeter 1 650083.94 4077540 105083.99 4077542 5621897.5756 233.6 259 1.5 ANNUAL ALL 1 Boundary Perimeter 1 650083.94 4077548 1287912.3834 259.56 259.56 1.5 ANNUAL ALL 1 Boundary Perimeter 1 650083.87 4077550 1 | G86 G87 G88 G89 G90 G92 G93 G94 G95 G96 G97 G98 G99 P1 P10 P11 |
| 650944 4076773 5370806.8702 219.8 267 1.5 ANNUAL ALL 1 Grid Receptor 87 650944 4076373 3575391.5870 209.2 273 1.5 ANNUAL ALL 1 Grid Receptor 88 650944 4076973 2533991.5850 216.6 287 1.5 ANNUAL ALL 1 Grid Receptor 89 647744 4075973 279224.4378 160.7 160.7 1.5 ANNUAL ALL 1 Grid Receptor 9 650944 4075573 1439110.0705 243.2 289 1.5 ANNUAL ALL 1 Grid Receptor 90 651344 4078773 265687.5066 181 830 1.5 ANNUAL ALL 1 Grid Receptor 92 651344 4078373 480596.2451 214.3 830 1.5 ANNUAL ALL 1 Grid Receptor 93 651344 4077873 143916.5694 248.4 826 1.5 ANNUAL ALL 1 Grid Receptor 94 651344 4077873 1107915.1474 213.2 826 1.5 ANNUAL ALL 1 Grid Receptor 94 651344 4077773 1262459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 95 651344 4076773 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 96 651344 4076773 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 97 651344 4076773 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 98 651344 4076773 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 98 651344 4076773 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 99 648584.24 4075973 1880790.8555 205.8 269 1.5 ANNUAL ALL 1 Grid Receptor 99 648584.24 4077523 2191797.8733 183.61 227 1.5 ANNUAL ALL 1 Grid Receptor 99 649584.03 4077539 4615401.6448 235.3 259 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649684.02 4077540 7706277.1102 221.29 259 1.5 ANNUAL ALL 1 Boundary Perimeter 10 649684.02 4077541 8371134.7301 222.37 260 1.5 ANNUAL ALL 1 Boundary Perimeter 11 649688.03 4077541 8371134.7301 222.37 260 1.5 ANNUAL ALL 1 Boundary Perimeter 12 64988.39 4077542 5621897.5756 233.6 259 1.5 ANNUAL ALL 1 Boundary Perimeter 15 650083.94 4077546 1550698.6059 258.89 258.89 1.5 ANNUAL ALL 1 Boundary Perimeter 15 650083.94 4077548 1287912.3834 259.56 259.56 1.5 ANNUAL ALL 1 Boundary Perimeter 16 650183.91 4077548 1287912.3834 259.56 259.56 1.5 ANNUAL ALL 1 Boundary Perimeter 16 650183.91 4077548 1287912.3834 259.56 259.56 1.5 ANNUAL ALL 1 Boundary Perimeter 17 | G87 G88 G89 G90 G90 G92 G93 G94 G95 G96 G97 G98 G99 P1 P10 P11 |
| 650944 4076373 3575391.5870 209.2 273 1.5 ANNUAL ALL 1 Grid Receptor 88 650944 4075973 2539591.5850 216.6 287 1.5 ANNUAL ALL 1 Grid Receptor 89 650944 4075973 279224.4378 160.7 160.7 1.5 ANNUAL ALL 1 Grid Receptor 9 650944 4075573 1439110.0705 243.2 289 1.5 ANNUAL ALL 1 Grid Receptor 9 651344 4078773 265687.5066 181 830 1.5 ANNUAL ALL 1 Grid Receptor 92 651344 4078773 429165.5694 248.4 826 1.5 ANNUAL ALL 1 Grid Receptor 93 651344 4077573 1107915.1474 213.2 826 1.5 ANNUAL ALL 1 Grid Receptor 94 651344 4077573 1107915.1474 213.2 826 1.5 ANNUAL ALL 1 Grid Receptor 95 651344 4077773 1820458.4879 213.6 813 1.5 ANNUAL ALL 1 Grid Receptor 96 651344 4076773 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 96 651344 4076773 219451.6232 205.6 220 1.5 ANNUAL ALL 1 Grid Receptor 97 651344 4076773 1880958.555 205.8 269 1.5 ANNUAL ALL 1 Grid Receptor 99 648584.24 4077523 2191797.8733 183.61 227 1.5 ANNUAL ALL 1 Grid Receptor 99 648584.24 4077537 1799989.7162 254.01 257 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649484.05 4077537 1799989.7162 254.01 257 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649684.02 4077540 7706277.1102 221.29 259 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649784.03 4077541 8371134.7301 222.37 260 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649883.99 4077542 5621897.5756 233.6 259 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649883.99 4077544 5621897.5756 233.6 259 1.5 ANNUAL ALL 1 Boundary Perimeter 16 649883.99 4077546 1550698.6059 258.89 258.89 1.5 ANNUAL ALL 1 Boundary Perimeter 15 650083.94 4077546 1550698.6059 258.89 258.89 1.5 ANNUAL ALL 1 Boundary Perimeter 15 650083.94 4077548 1287912.3834 259.56 259.56 1.5 ANNUAL ALL 1 Boundary Perimeter 16 650183.91 4077548 1287912.3834 259.56 259.56 1.5 ANNUAL ALL 1 Boundary Perimeter 16 650183.84 4077552 1741042.6880 242.37 290 1.5 ANNUAL ALL 1 Boundary Perimeter 18 | G88 G89 G90 G92 G93 G94 G95 G96 G97 G98 G99 P1 P10 P11 |
| 650944 4075973 2539591.5850 216.6 287 1.5 ANNUAL ALL 1 Grid Receptor 89 647744 4075973 279224.4378 160.7 160.7 1.5 ANNUAL ALL 1 Grid Receptor 9 650944 4075573 1439110.0705 243.2 289 1.5 ANNUAL ALL 1 Grid Receptor 90 651344 4078773 265687.5066 181 830 1.5 ANNUAL ALL 1 Grid Receptor 92 651344 4078773 429165.5694 248.4 826 1.5 ANNUAL ALL 1 Grid Receptor 93 651344 4077973 429165.5694 248.4 826 1.5 ANNUAL ALL 1 Grid Receptor 94 651344 4077973 429165.5694 248.4 826 1.5 ANNUAL ALL 1 Grid Receptor 95 651344 4077173 1107915.1474 213.2 826 1.5 ANNUAL ALL 1 Grid Receptor 95 651344 4077173 1820458.4879 213.6 813 1.5 ANNUAL ALL 1 Grid Receptor 96 651344 4076773 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 96 651344 4076773 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 97 651344 4076373 2195451.6232 205.6 220 1.5 ANNUAL ALL 1 Grid Receptor 98 651344 4075973 1880790.8555 205.8 269 1.5 ANNUAL ALL 1 Grid Receptor 99 648584.24 4077523 2191797.8733 183.61 227 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649484.05 4077537 1799989.7162 254.01 257 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649484.05 4077537 1799989.7162 254.01 257 1.5 ANNUAL ALL 1 Boundary Perimeter 1 649684.02 4077540 7706277.1102 221.29 259 1.5 ANNUAL ALL 1 Boundary Perimeter 10 649684.02 4077541 8371134.7301 222.37 260 1.5 ANNUAL ALL 1 Boundary Perimeter 12 649784 4077541 8371134.7301 222.37 260 1.5 ANNUAL ALL 1 Boundary Perimeter 16 64988.99 4077542 5621897.5756 233.6 259 1.5 ANNUAL ALL 1 Boundary Perimeter 16 64988.99 4077543 2375120.9664 249.54 259 1.5 ANNUAL ALL 1 Boundary Perimeter 15 650083.94 4077548 1287912.3834 259.56 259.56 1.5 ANNUAL ALL 1 Boundary Perimeter 16 650183.91 4077548 1287912.3834 259.56 259.56 1.5 ANNUAL ALL 1 Boundary Perimeter 16 650183.84 4077552 1741042.6880 242.37 290 1.5 ANNUAL ALL 1 Boundary Perimeter 17 | G89 G90 G90 G92 G93 G94 G95 G96 G97 G98 G99 P1 P10 P11 P12 |
| 647744 4075973 279224.4378 160.7 160.7 1.5 ANNUAL ALL 1 Grid Receptor 9 650944 4075573 1439110.0705 243.2 289 1.5 ANNUAL ALL 1 Grid Receptor 90 651344 4078773 265687.5066 181 830 1.5 ANNUAL ALL 1 Grid Receptor 92 651344 4078773 480596.2451 214.3 830 1.5 ANNUAL ALL 1 Grid Receptor 93 651344 4077973 429165.5694 248.4 826 1.5 ANNUAL ALL 1 Grid Receptor 94 651344 4077573 1107915.1474 213.2 826 1.5 ANNUAL ALL 1 Grid Receptor 94 651344 4077573 1107915.1474 213.2 826 1.5 ANNUAL ALL 1 Grid Receptor 95 651344 4077173 1820458.4879 213.6 813 1.5 ANNUAL ALL 1 Grid Receptor 96 651344 4076773 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 97 651344 4076773 2162459.5613 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 97 651344 4076773 1880790.8555 205.8 269 1.5 ANNUAL ALL 1 Grid Receptor 98 651344 4075973 1880790.8555 205.8 269 1.5 ANNUAL ALL 1 Grid Receptor 98 648584.24 4077523 2191797.8733 183.61 227 1.5 ANNUAL ALL 1 Boundary Perimeter 10 649584.03 4077539 4615401.6448 235.3 259 1.5 ANNUAL ALL 1 Boundary Perimeter 10 649584.03 4077540 7706277.1102 221.29 259 1.5 ANNUAL ALL 1 Boundary Perimeter 10 64988.09 4077541 8371134.7301 222.37 260 1.5 ANNUAL ALL 1 Boundary Perimeter 12 64988.99 4077542 5621897.5756 233.6 259 1.5 ANNUAL ALL 1 Boundary Perimeter 13 650083.94 4077543 2375120.9694 249.54 259 1.5 ANNUAL ALL 1 Boundary Perimeter 15 650083.97 4077540 1550698.6059 258.89 258.89 1.5 ANNUAL ALL 1 Boundary Perimeter 16 650183.91 4077540 1550698.6059 258.89 258.89 1.5 ANNUAL ALL 1 Boundary Perimeter 16 650183.91 4077540 1550698.6059 258.89 258.89 1.5 ANNUAL ALL 1 Boundary Perimeter 16 650183.91 4077550 1084833.0068 256.77 266 1.5 ANNUAL ALL 1 Boundary Perimeter 17 650383.84 4077552 1741042.6880 242.37 290 1.5 ANNUAL ALL 1 Boundary Perimeter 17 | G9 G90 G92 G93 G94 G95 G96 G97 G98 G99 P1 P10 P11 |
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| 650483.81 4077554 1535890.0510 242.23 296 1.5 ANNUAL ALL 1 Boundary Perimeter 20 | P20 |
| 650583.78 4077557 682073.6158 259.71 290 1.5 ANNUAL ALL 1 Boundary Perimeter 21 | P21 |
| 650683.75 4077559 695622.7521 257.58 296 1.5 ANNUAL ALL 1 Boundary Perimeter 22 | P22 |
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| 650778.91 4077454 586514.1622 275.91 275.91 1.5 ANNUAL ALL 1 Boundary Perimeter 24 | P24 |
| 650781 4077354 958182.0344 265.73 281 1.5 ANNUAL ALL 1 Boundary Perimeter 25 | P25 |
| 650783.1 4077254 1854372.5822 251.08 282 1.5 ANNUAL ALL 1 Boundary Perimeter 26 | P26 |
| 650785.19 4077154 2369625.0450 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 27 | P27 |
| 650787.29 4077054 3639607.2822 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 28 | P28 |
| 650789.38 4076954 4845681.1179 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 29 | P29 |
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| 650791.48 4076854 4229480.4504 246.79 251 1.5 ANNUAL ALL 1 Boundary Perimeter 30 | P30 |
| 650793.57 4076754 7425820.5839 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 | P31 |
| 650754.39 4076683 7843697.4000 217.76 271 1.5 ANNUAL ALL 1 Boundary Perimeter 32 | P32 |
| 650660.22 4076650 8560530.2356 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 33 | P33 |
| 650561.43 4076650 9425079.9479 220.83 273 1.5 ANNUAL ALL 1 Boundary Perimeter 34 | P34 |
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| 650462.72 4076666 10205624.7003 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 35 650364.01 4076682 10961442.3070 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 | |
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| 650264.24 4076683 10956208.7152 223.19 263 1.5 ANNUAL ALL 1 Boundary Perimeter 37 650164.71 4076674 11350163.4468 222.1 249 1.5 ANNUAL ALL 1 Boundary Perimeter 38 | P36 P37 P38 |

* AERMET (21112): 2018

09:04:47

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 289 RECEPTORS.

FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | 3(1A,F13.3),3(1A,F6.2) | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 0,271,10.0,2 | ,0) | | | | | |
|-----------|---------|------------------------|---|--------------|-------|--------|-----|----------|-----------------------|-------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID Description | ID |
| 650065.8 | 4076660 | 12197580.8125 | 217.03 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 39 | P39 |
| 648884.17 | 4077529 | 4112169.2366 | 214.25 | 227 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 4 | P4 |
| 649980.44 | 4076627 | 12745526.7989 | 214.82 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 40 | P40 |
| 649920.26 | 4076547 | 12441547.6399 | 214.91 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 41 | P41 |
| 649852.19 | 4076474 | 11057600.2545 | 214.09 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 42 | P42 |
| 649770.68 | 4076417 | 9069674.0334 | 211.53 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 43 | P43 |
| 649680.48 | 4076375 | 7295244.6354 | 210.17 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 44 | P44 |
| 649580.91 | 4076368 | 5763515.3722 | 208.52 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 45 | P45 |
| 649482.48 | 4076384 | 4631424.3821 | 207.5 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 46 | P46 |
| 649391.59 | 4076425 | 4118113.2482 | 205.17 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 47 | P47 |
| 649303.5 | 4076472 | 3508786.3178 | 202.16 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 48 | P48 |
| 649226.19 | 4076535 | 3314066.5693 | 196.38 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 49 | P49 |
| 648984.14 | 4077530 | 4771265.6801 | 221.41 | 221.41 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 5 | P5 |
| 649156.2 | 4076605 | 3399608.3933 | 195.87 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 50 | P50 |
| 649068.25 | 4076653 | 2943043.4263 | 196.32 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 51 | P51 |
| 648986.7 | 4076711 | 2714577.3784 | 192.42 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 52 | P52 |
| 648936.53 | 4076759 | 2658615.4834 | 192.46 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 53 | P53 |
| 648868.58 | 4076833 | 2577680.6789 | 191.63 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 54 | P54 |
| 648797.23 | 4076902 | 2421237.4288 | 186.32 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 55 | P55 |
| 648710.56 | 4076952 | 2158792.0597 | 179.81 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 56 | P56 |
| 648620.79 | 4076996 | 1948052.8675 | 176.23 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 57 | P57 |
| 548607.19 | 4077051 | 2006457.3409 | 175.02 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 58 | P58 |
| 548680.07 | 4077119 | 2379976.3867 | 180.62 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 59 | P59 |
| 649084.12 | 4077532 | | | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 6 | P6 |
| | | 5031025.2735 | 216.54 | | | ANNUAL | | 1 | · | |
| 548759.24 | 4077180 | 2869214.7879 | 183.47 | 259 | 1.5 | | ALL | <u> </u> | Boundary Perimeter 60 | P60 |
| 548791.44 | 4077262 | 3427304.3862 | 202.88 | 245 | 1.5 | ANNUAL | ALL | | Boundary Perimeter 61 | P61 |
| 648788.45 | 4077362 | 3126658.5188 | 178.21 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 62 | P62 |
| 648691.25 | 4077361 | 2636303.1357 | 176.25 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 63 | P63 |
| 648591.35 | 4077357 | 2238622.7277 | 176 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 64 | P64 |
| 648525.69 | 4077371 | 2031775.6983 | 175.24 | 245 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 65 | P65 |
| 648586.93 | 4077430 | 2226069.5671 | 175.13 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 66 | P66 |
| 649184.09 | 4077534 | 4747117.6863 | 230.71 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 7 | P7 |
| 649284.08 | 4077535 | 2197365.7440 | 248.08 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 8 | P8 |
| 649384.06 | 4077536 | 1479592.3174 | 258.43 | 258.43 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 333821.9892 | 127.38 | 127.38 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4077983 | 350350.2899 | 131.21 | 131.21 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4077983 | 367965.4802 | 135.89 | 135.89 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4077983 | 386400.3794 | 139.18 | 139.18 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4077983 | 405559.1727 | 140.76 | 140.76 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4077983 | 426374.1005 | 143.89 | 143.89 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4077983 | 447939.8196 | 145.22 | 145.22 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4077983 | 471080.1645 | 147.21 | 147.21 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4077983 | 495336.6544 | 148.3 | 160 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078083 | 341373.8205 | 127.58 | 127.58 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078083 | 356896.7494 | 130.56 | 130.56 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078083 | 373575.7806 | 134.35 | 134.35 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646230 | 4078083 | 391659.5987 | 139.22 | 139.22 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646330 | 4078083 | 411275.1183 | 144.65 | 144.65 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |

* AERMET (21112): 2018 09:

09:04:47

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A.1X.3(1X.F13.5).3(1X.F8.2).2X.A6.2X.A8.2X.I8.8.2X.A8)

| | | 3(1X,F13.5),3(1X,F8.2) | | | | | CDD | | NIPP VP | | *** | |
|-----------|---------|------------------------|--------|--------|-------|--------|-----|---------|---------|-----------------|------------------|----|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
| 646430 | 4078083 | 429422.4731 | 142.28 | 142.28 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646530 | 4078083 | 450888.3504 | 146.76 | 146.76 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646630 | 4078083 | 473529.5429 | 150.64 | 150.64 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646730 | 4078083 | 498259.6905 | 155.4 | 157 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 645930 | 4078183 | 344605.4736 | 127.22 | 127.22 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646030 | 4078183 | 359688.2394 | 130.56 | 130.56 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | _ |
| 646130 | 4078183 | 375595.5534 | 133.89 | 133.89 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646230 | 4078183 | 393136.9851 | 140.45 | 140.45 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646330 | 4078183 | 411986.8526 | 146.94 | 146.94 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646430 | 4078183 | 426826.9306 | 140.23 | 140.23 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646530 | 4078183 | 447128.5910 | 147.25 | 147.25 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646630 | 4078183 | 467827.6384 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646730 | 4078183 | 491464.8813 | 157.78 | 166 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 645930 | 4078283 | 344441.7244 | 126.06 | 126.06 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646030 | 4078283 | 358366.9586 | 129.56 | 129.56 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646130 | 4078283 | 372741.5713 | 132.89 | 132.89 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646230 | 4078283 | 388416.6462 | 139.24 | 139.24 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646330 | 4078283 | 404130.3117 | 142.68 | 142.68 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646430 | 4078283 | 418570.6001 | 140.02 | 140.02 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646530 | 4078283 | 437076.7434 | 147.22 | 147.22 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646630 | 4078283 | 456051.4811 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646730 | 4078283 | 477449.1713 | 156.78 | 166 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 648659.32 | 4077241 | 2777690.5819 | 205.79 | 205.79 | 1.5 | ANNUAL | ALL | 1 | | House 1 | RP H1 | |
| 648071.24 | 4076116 | 374573.9497 | 169.6 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 10 | RP_H10 | |
| 648247.37 | 4076278 | 503783.2778 | 184.55 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 11 | RP H11 | |
| 648027.19 | 4076255 | 415684.4261 | 169.38 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 12 | RP H12 | |
| 648065.77 | 4076359 | 481726.2353 | 173.83 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 13 | RP H13 | |
| 648138.68 | 4076400 | 534916.6798 | 178.22 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 14 | RP H14 | |
| 648254.71 | 4076411 | 614836.0140 | 191.28 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 15 | RP H15 | |
| 647877.81 | 4076365 | 425502.0347 | 165.39 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 16 | RP H16 | |
| 647520 | 4076206 | 292974.7713 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | | House 17 | RP H17 | |
| 647921 | 4076247 | 384095.4941 | 164 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 18 | RP_H18 | |
| 647708.78 | 4076352 | 378234.5702 | 163.52 | 163.52 | 1.5 | ANNUAL | ALL | 1 | | House 19 | RP H19 | |
| 648371.71 | 4075470 | 260208.1599 | 173.69 | 227 | 1.5 | ANNUAL | ALL | 1 | | House 2 | RP H2 | |
| 647703.58 | 4076251 | 338369.0560 | 162.17 | 162.17 | 1.5 | ANNUAL | ALL | 1 | | House 20 | RP H20 | |
| 647718.77 | 4076231 | 297950.3067 | 159.35 | 159.35 | 1.5 | ANNUAL | ALL | 1 | | House 21 | RP H21 | - |
| 647843.32 | 4076104 | 326662.4425 | 163 | 234 | 1.5 | ANNUAL | ALL | 1 | | House 22 | RP H22 | |
| 647842.26 | 4076500 | 479748.2791 | 167.93 | 167.93 | 1.5 | ANNUAL | ALL | 1 | | House 23 | RP H23 | - |
| 647727.75 | 4076644 | 521656.7889 | 164.15 | 164.15 | 1.5 | ANNUAL | ALL | 1 | | House 24 | RP H24 | |
| 647823.91 | 4076644 | 554461.8383 | 168.29 | 168.29 | 1.5 | ANNUAL | ALL | 1 | | House 25 | RP_H24 RP_H25 | - |
| | | 395199.8179 | 159.56 | 159.56 | 1.5 | ANNUAL | ALL | 1 | | | RP_H25 RP_H26 | - |
| 647530 | 4076497 | | | | | | | | | House 26 | | - |
| 647810.11 | 4076854 | 668549.5303 | 162.9 | 162.9 | 1.5 | ANNUAL | ALL | 1 | | House 27 | RP_H27 | - |
| 647697.48 | 4076989 | 674691.4644 | 161.42 | 162 | 1.5 | ANNUAL | ALL | 1 | | House 28 | RP_H28 | - |
| 648225.5 | 4076182 | 446056.6315 | 183.22 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 29 | RP_H29 | - |
| 647678.23 | 4075969 | 267496.6186 | 159.5 | 159.5 | 1.5 | ANNUAL | ALL | 1 | | House 3 | RP_H3 | |
| 645876.32 | 4077487 | 260535.8556 | 127.13 | 142 | 1.5 | ANNUAL | ALL | 1 | | House 30 | RP_H30 | |
| 650902 | 4076062 | 2826162.6800 | 215.24 | 287 | 1.5 | ANNUAL | ALL | 1 | | House 31 | RP_H31 | ME |
| 651490 | 4076597 | 1864775.5284 | 205.5 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 32 | RP_H32 | |
| | | | | | | | | | | | | |

* AERMET (21112): 2018

00:04:47

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | ,3(1A,F13.3),3(1A,F6.2) | | | | | | | | | |
|-----------|---------|-------------------------|--------|--------|-------|----------|-----|---------|--------|------------------|--------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
| 651565 | 4077067 | 1537949.5097 | 213.93 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 33 | RP_H33 |
| 648672.77 | 4075307 | 363899.2644 | 225.91 | 227 | 1.5 | ANNUAL | ALL | 1 | | House 34 | RP_H34 |
| 648383.6 | 4075469 | 261684.9647 | 174.44 | 227 | 1.5 | ANNUAL | ALL | 1 | | House 35 | RP_H35 |
| 646379.37 | 4077233 | 309626.2953 | 146 | 146 | 1.5 | ANNUAL | ALL | 1 | | House 36 | RP_H36 |
| 651849.72 | 4075865 | 1183541.6886 | 201.97 | 333 | 1.5 | ANNUAL | ALL | 1 | | House 37 | RP_H37 |
| 652045.49 | 4076210 | 1045469.4554 | 196.88 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 38 | RP_H38 |
| 652255.69 | 4076391 | 872352.6673 | 197.06 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 39 | RP_H39 |
| 647815.25 | 4075985 | 293682.9153 | 162.04 | 162.04 | 1.5 | ANNUAL | ALL | 1 | | House 4 | RP_H4 |
| 646853.73 | 4077373 | 428941.9202 | 145.99 | 145.99 | 1.5 | ANNUAL | ALL | 1 | | House 40 | RP_H40 |
| 647050.21 | 4077360 | 484600.2431 | 145 | 145 | 1.5 | ANNUAL | ALL | 1 | | House 41 | RP_H41 |
| 647286.42 | 4077474 | 607225.9216 | 149.68 | 153 | 1.5 | ANNUAL | ALL | 1 | | House 42 | RP_H42 |
| 647359.05 | 4077340 | 602824.8362 | 154.45 | 159 | 1.5 | ANNUAL | ALL | 1 | | House 43 | RP_H43 |
| 647490.41 | 4077329 | 668929.0605 | 162.28 | 162.28 | 1.5 | ANNUAL | ALL | 1 | | House 44 | RP_H44 |
| 647522.17 | 4077252 | 665342.6583 | 164.3 | 164.3 | 1.5 | ANNUAL | ALL | 1 | | House 45 | RP_H45 |
| 647517.82 | 4077139 | 631779.4438 | 164.01 | 164.01 | 1.5 | ANNUAL | ALL | 1 | | House 46 | RP_H46 |
| 646819.01 | 4077258 | 404482.7397 | 151.53 | 152 | 1.5 | ANNUAL | ALL | 1 | | House 47 | RP_H47 |
| 646778.72 | 4077128 | 375767.9202 | 158.51 | 158.51 | 1.5 | ANNUAL | ALL | 1 | | House 48 | RP_H48 |
| 646987.26 | 4077213 | 440136.6072 | 146.44 | 146.44 | 1.5 | ANNUAL | ALL | 1 | | House 49 | RP_H49 |
| 647898.2 | 4076033 | 316812.6819 | 163.83 | 237 | 1.5 | ANNUAL | ALL | 1 | | House 5 | RP_H5 |
| 647241.77 | 4077227 | 528212.4906 | 154.85 | 154.85 | 1.5 | ANNUAL | ALL | 1 | | House 50 | RP H50 |
| 646773.05 | 4077063 | 365766.1716 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | | House 51 | RP H51 |
| 647104.37 | 4077118 | 458083.8133 | 148.99 | 148.99 | 1.5 | ANNUAL | ALL | 1 | | House 52 | RP H52 |
| 647291.9 | 4077123 | 526602.2796 | 158.62 | 158.62 | 1.5 | ANNUAL | ALL | 1 | | House 53 | RP H53 |
| 646765.24 | 4076978 | 354934.2333 | 158.67 | 158.67 | 1.5 | ANNUAL | ALL | 1 | | House 54 | RP H54 |
| 646995.65 | 4076984 | 403054.6782 | 152.34 | 152.34 | 1.5 | ANNUAL | ALL | 1 | | House 55 | RP H55 |
| 647317.21 | 4077031 | 514251.3822 | 160.22 | 160.22 | 1.5 | ANNUAL | ALL | 1 | | House 56 | RP H56 |
| 647398.39 | 4077013 | 540540.3357 | 161.26 | 161.26 | 1.5 | ANNUAL | ALL | 1 | | House 57 | RP H57 |
| 646978.93 | 4076904 | 387509.9286 | 156.81 | 156.81 | 1.5 | ANNUAL | ALL | 1 | | House 58 | RP H58 |
| 647015.19 | 4076807 | 381720.4897 | 156.21 | 156.21 | 1.5 | ANNUAL | ALL | 1 | | House 59 | RP H59 |
| 648045.44 | 4076018 | 346355.8627 | 168.26 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 6 | RP H6 |
| 647163.96 | 4076802 | 414268.1133 | 154.38 | 154.38 | 1.5 | ANNUAL | ALL | 1 | | House 60 | RP H60 |
| 647310.58 | 4076940 | 485664.9402 | 162.49 | 162.49 | 1.5 | ANNUAL | ALL | 1 | | House 61 | RP H61 |
| 647298.09 | 4076805 | 450526.5317 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | | House 62 | RP H62 |
| 647446.56 | 4076900 | 519853.2457 | 159.45 | 159.45 | 1.5 | ANNUAL | ALL | 1 | | House 63 | RP H63 |
| 647464.49 | 4076781 | 495584.2167 | 159.32 | 159.32 | 1.5 | ANNUAL | ALL | 1 | | House 64 | RP H64 |
| 647512 | 4076536 | 409178.9906 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | | House 65 | RP H65 |
| 651131 | 4078767 | 274702.4840 | 179.58 | 830 | 1.5 | ANNUAL | ALL | 1 | | House 66 | RP H66 |
| 647131 | 4077336 | 507895.2143 | 146.77 | 146.77 | 1.5 | ANNUAL | ALL | 1 | | House 67 | RP H67 |
| 646798 | 4076740 | 333187.1335 | 156.07 | 156.07 | 1.5 | ANNUAL | ALL | 1 | | House 68 | RP H68 |
| 646900 | 4076802 | 359161.1864 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | | House 69 | RP H69 |
| 648126.33 | 4075955 | 354697.0774 | 171.51 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 7 | RP H7 |
| 647317 | 4076662 | 424049.2824 | 159.9 | 159.9 | 1.5 | ANNUAL | ALL | 1 | | House 70 | RP H70 |
| 648249.26 | 4075970 | 393876.4168 | 183.42 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 8 | RP H8 |
| 648218.58 | 4076109 | 417070.6529 | 182.28 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 9 | RP H9 |
| 649744 | 4079173 | 342099.0917 | 176.1 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 51 | G51 |
| 650144 | 4079173 | 299582.2218 | 173 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 61 | G61 |
| 650544 | 4079173 | 262756.0890 | 177 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 71 | G71 |
| 650944 | 4079173 | 226473.2675 | 181.3 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 81 | G81 |
| 030944 | +0/71/3 | 2204/3.20/3 | 101.3 | 030 | 1.3 | AININUAL | ALL | 1 | | Ond Receptor 81 | G01 |

09/03/21

* AERMET (21112): 2018

09:04:4

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|--------|---------|--------------|-------|-------|-------|--------|-----|---------|--------|------------------|-----|
| 651344 | 4079173 | 207220.0234 | 191 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 91 | G91 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in µg/m³.

Concetration values multiplied by a factor of 10 to convert from 0.1 lb/hr-SF to 1 lb/hr-SF for dispersion factor use.

* AERMET (19191): 2019 09:01:17

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A.1X.3(1X.F13.5).3(1X.F8.2).2X.A6.2X.A8.2X.I8.8.2X.A8)

| X | Y | 3(1X,F13.5),3(1X,F8.2) AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
|------------|---------|--|--------|--------|-------|--------|-----|----------------|------------------------------------|----------|----------|
| 645996 | 4078698 | 200395.35060 | 123.85 | 123.85 | 1.5 | ANNUAL | ALL | 1 | AQ Monitoring Station | AQ ST 1 | |
| 643903.65 | 4077719 | 42282.64370 | 105.68 | 105.68 | 1.5 | ANNUAL | ALL | 1 | Hazel Hawkins Memorial Hospital | CR HP 1 | |
| 642056.782 | | 48854.91470 | 85.12 | 85.12 | 1.5 | ANNUAL | ALL | 1 | Dunne Park | CR PK 1 | |
| 642179.095 | | 58815.11560 | 117.99 | 117.99 | 1.5 | ANNUAL | ALL | 1 | Vista Park Hill Park | CR PK 2 | |
| 644733.142 | | 103988.89810 | 106.44 | 106.44 | 1.5 | ANNUAL | ALL | 1 | Las Brisas Park | CR PK 3 | |
| 645608.808 | 4078854 | 169423.22040 | 112.86 | 112.86 | 1.5 | ANNUAL | ALL | 1 | Frank Klauer Memorial Park | CR PK 4 | |
| 644238.054 | | 85864.85070 | 95.25 | 95.25 | 1.5 | ANNUAL | ALL | 1 | Veterans Memorial Park | CR PK 5 | |
| 645311.476 | | 61647.84850 | 134.61 | 134.61 | 1.5 | ANNUAL | ALL | 1 | Park 6 | CR PK 6 | |
| 649581.689 | | 216357.25820 | 159.96 | 318 | 1.5 | ANNUAL | ALL | 1 | Park 7 | CR PK 7 | |
| 645145.11 | 4077181 | 54220.74990 | 133 | 133 | 1.5 | ANNUAL | ALL | 1 | Cerra Vista Elem School | CR SC 1 | |
| 642904.712 | | 74544.07960 | 86 | 86 | 1.5 | ANNUAL | ALL | 1 | San Andreas Continuation | CR_SC_10 | |
| 645850.678 | | 53346.43330 | 123 | 313 | 1.5 | ANNUAL | ALL | 1 | SouthSide School | CR SC 11 | |
| 642105.679 | | 24390.02590 | 91 | 91 | 1.5 | ANNUAL | ALL | 1 | School 12 | CR SC 12 | |
| 646058.93 | 4078443 | 188570.97060 | 128.52 | 128.52 | 1.5 | ANNUAL | ALL | 1 | Rancho Santana School | CR SC 13 | School |
| 647269 | 4075575 | 125291.48500 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | Future School | CR SC 14 | School 2 |
| 648466 | 4074106 | 143345.37200 | 159 | 240 | 1.5 | ANNUAL | ALL | 1 | Tres Pinos Union Elementary School | CR SC 15 | |
| 644109.6 | 4078389 | 70566.38250 | 98.2 | 98.2 | 1.5 | ANNUAL | ALL | 1 | Sunnyslope Elem School | CR_SC_2 | |
| 643920.12 | 4077304 | 37335.96270 | 101.23 | 101.23 | 1.5 | ANNUAL | ALL | 1 | Hollister Montessori School | CR SC 3 | |
| 642961.07 | 4078621 | 52717.07460 | 92 | 92 | 1.5 | ANNUAL | ALL | 1 | Rancho San Justo Middle School | CR SC 4 | |
| 643980.02 | 4079743 | 104958.16260 | 88 | 88 | 1.5 | ANNUAL | ALL | 1 | Marguerite Maze Middle School | CR SC 5 | |
| 641630.17 | 4079153 | 44014.83910 | 85 | 85 | 1.5 | ANNUAL | ALL | 1 | Hollister Prep Schoo | CR SC 6 | |
| 643350.03 | 4077181 | 29954.35280 | 98.22 | 98.22 | 1.5 | ANNUAL | ALL | 1 | Ladd Lane Elementary School | CR_SC_7 | |
| 644002.96 | 4080079 | 114299.21040 | 87 | 87 | 1.5 | ANNUAL | ALL | 1 | Gabilan Hills Elementary School | CR_SC_8 | |
| 642244.858 | 4078413 | 31405.95470 | 90.17 | 90.17 | 1.5 | ANNUAL | ALL | 1 | San Benito High School | CR SC 9 | |
| 642083.447 | 4079794 | 52157.35080 | 87.58 | 127 | 1.5 | ANNUAL | ALL | 1 | Jovenes De Antano | CR SR 1 | |
| 646402 | 4076879 | 94762.13020 | 146.33 | 153 | 1.5 | ANNUAL | ALL | 1 | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 2288285.07930 | 189.45 | 259 | 1.5 | ANNUAL | ALL | 1 | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 675737.35930 | 155.2 | 155.2 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 156944.28520 | 160 | 160 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 10 | G10 | Ī |
| 651344 | 4075573 | 949958.78880 | 252.9 | 252.9 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 784210.10580 | 165.9 | 165.9 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 11 | G11 | Ī |
| 648144 | 4078773 | 913163.48630 | 159.6 | 159.6 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 12 | G12 | |
| 648144 | 4078373 | 1001218.78420 | 146.2 | 146.2 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 13 | G13 | Ī |
| 648144 | 4077973 | 968640.27280 | 158.3 | 181 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 14 | G14 | |
| 648144 | 4077573 | 730651.05420 | 166.6 | 179 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 15 | G15 | Ī |
| 648144 | 4077173 | 451943.91200 | 175.4 | 175.4 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 16 | G16 | |
| 648144 | 4076773 | 353591.74530 | 177.1 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 17 | G17 | |
| 648144 | 4076373 | 326473.87090 | 178 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 18 | G18 | |
| 648144 | 4075973 | 256977.15360 | 173 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 19 | G19 | |
| 647744 | 4078773 | 709685.05080 | 145.4 | 145.4 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 2 | G2 | |
| 648144 | 4075573 | 218414.99560 | 168.8 | 190 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 20 | G20 | |
| 648544 | 4079173 | 789930.24360 | 173.5 | 191 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 21 | G21 | |

* AERMET (19191): 2019 09:01:17

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | 3(1X,F13.5),3(1X,F8.2), AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|------------------|--------------------|---|------------|------------|-------|--------|------------|----------------|-----------------------------------|------------|
| 648544 | 4078773 | 1051158.96130 | 166.2 | 166.2 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 1306928.67790 | 145.4 | 253 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 23 | G22 G23 |
| 648544 | 4077973 | 1591118.66530 | 173.4 | 214 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 24 | G23 G24 |
| 648544 | 4077573 | 1480115.18360 | 179.6 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 25 | G24 G25 |
| 648544 | 4077173 | 930780.92010 | 191 | 226 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 26 | G25 |
| 648544 | 4076773 | 722729.89810 | 209.2 | 240 | 1.5 | ANNUAL | ALL | <u> </u> | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 555290.50850 | 233.7 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 28 | G27 |
| 648544 | 4075973 | 402326.58390 | 199.9 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 29 | G28 G29 |
| 647744 | 4078373 | 698350.97280 | 144.4 | 144.4 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 320723.92060 | 195.5 | 227 | 1.5 | ANNUAL | ALL | <u> </u> | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 735437.21850 | 190.4 | 194 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 31 | G31 |
| 648944 | 4079173 | 993513.43960 | 165.4 | 165.4 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 32 | G31 G32 |
| 648944 | 4078373 | 1466966.00480 | 159.6 | 259 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 32 Grid Receptor 33 | G32 G33 |
| 648944 | 4077973 | 2165346.31790 | 183.5 | 259 | 1.5 | ANNUAL | ALL | 1 | * | G33 |
| 648944 | | | | 239 | 1.5 | | ALL | 1 | Grid Receptor 34 | G34 G35 |
| | 4077573 4076373 | 3983058.15260 | 224 205 | | | ANNUAL | | 1 | Grid Receptor 35 | G38 |
| 648944 648944 | | 928270.31820 | 208.8 | 240 220 | 1.5 | ANNUAL | ALL ALL | 1 | Grid Receptor 38 | G38 G39 |
| | 4075973 4077973 | 671613.11000 | 134.6 | | | ANNUAL | | 1 | Grid Receptor 39 | G39 G4 |
| 647744 | | 587620.37670 | | 181 300 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 4 | G40 |
| 648944 | 4075573 | 411727.22230 | 185.6 | | | ANNUAL | ALL | - | Grid Receptor 40 | |
| 649344 | 4079173 | 546254.95570 | 187.4 | 801 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 802465.68280 | 160.9 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 1575914.43070 | 200.5 | 221 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 2951437.85650 | 229 | 253 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 1901875.49420 | 253.3 | 259 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 3186050.44510 | 220.2 | 263 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 1343556.63950 | 227.2 | 227.2 | 1.5 | ANNUAL | ALL | <u>1</u> | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 432093.42890 | 163.8 | 171 | 1.5 | ANNUAL | ALL | • | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 796111.65400 | 205.5 | 300 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 50 | G50 |
| 649744 | 4078773 | 605588.59400 | 195 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 1078260.17270 | 196.1 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 2784687.42020 | 215.3 | 251 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 7184286.66170 | 221.6 | 259 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 7185341.84000 | 211.7 | 266 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 1910082.58010 | 237.7 | 257 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 273022.52100 | 158.4 | 171 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 1232976.27810 | 204.2 | 300 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 60 | G60 |
| 650144 | 4078773 | 366218.58940 | 171 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 683125.35220 | 204.6 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 1535664.03200 | 216.5 | 290 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 1744534.96790 | 257.7 | 257.7 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 5171817.07000 | 231.4 | 272 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 1643290.53950 | 249.4 | 266 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 69 | G69 |

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* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | 3(1X,F13.5),3(1X,F8.2) | | | | 4 7 7 7 7 | CDF | NIVING NIPITE | B 1.1 | VD. |
|-----------|---------------------|------------------------|--------|--------|-------|-----------|-----|----------------|------------------------|-----|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 647744 | 4076773 | 241731.43820 | 164.7 | 164.7 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 1669132.75220 | 216.4 | 300 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 70 | G70 |
| 650544 | 4078773 | 294271.84350 | 180.9 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 427461.37820 | 196.6 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 603494.61910 | 236.9 | 801 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 400204.23010 | 261.3 | 287 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 1846446.47070 | 260.9 | 260.9 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 2737661.84310 | 226.7 | 287 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 244447.86340 | 164 | 164 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 712301.50100 | 268.2 | 287 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 80 | G80 |
| 650944 | 4078773 | 207195.24440 | 178.4 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 330544.08880 | 214.8 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 246061.87930 | 249.9 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 209565.90640 | 276.5 | 296 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 2376310.27550 | 225.6 | 296 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 4368003.29540 | 219.8 | 267 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 3148966.62660 | 209.2 | 273 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 2252892.40680 | 216.6 | 287 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 192712.05490 | 160.7 | 160.7 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 1327649.42480 | 243.2 | 289 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 90 | G90 |
| 651344 | 4078773 | 160004.03000 | 181 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 241476.83590 | 214.3 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 226290.90470 | 248.4 | 826 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 617806.11610 | 213.2 | 826 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 1169192.64160 | 213.6 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 1683680.97780 | 203.5 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 1868216.94550 | 205.6 | 220 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 1632510.47220 | 205.8 | 269 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 99 | G99 |
| 648584.24 | 4077523 | 1553234.68850 | 183.61 | 227 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 1 | P1 |
| 649484.05 | 4077537 | 1996332.84510 | 254.01 | 257 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 10 | P10 |
| 649584.03 | 4077539 | 4603433.37440 | 235.3 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 11 | P11 |
| 649684.02 | 4077540 | 7331957.94960 | 221.29 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 8145543.21360 | 222.37 | 260 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 13 | P13 |
| 649883.99 | 4077542 | 5864642.05280 | 233.6 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 14 | P14 |
| 649983.97 | 4077543 | 2868739.06150 | 249.54 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 15 | P15 |
| 650083.94 | 4077546 | 2089875.54940 | 258.89 | 258.89 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 16 | P16 |
| 650183.91 | 4077548 | 1744170.29170 | 259.56 | 259.56 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 17 | P17 |
| 650283.87 | 4077550 | 1168998.08820 | 256.77 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 18 | P18 |
| 650383.84 | 4077552 | 1410849.53240 | 242.37 | 290 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 19 | P19 |
| 648684.22 | 4077525 | 2022966.01960 | 197.16 | 227 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 2 | P2 |
| 650483.81 | 4077554 | 1055820.18500 | 242.23 | 296 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 20 | P20 |
| 650583.78 | 4077557 | 423940.39320 | 259.71 | 290 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 21 | P21 |
| 030363.78 | 1 0//33/ | 743340.37340 | 237./1 | 290 | 1.5 | AMMUAL | ALL | 1 | Doulidary Fermieter 21 | ГДІ |

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- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A.1X.3(1X.F13.5).3(1X.F8.2).2X.A6.2X.A8.2X.I8.8.2X.A8)

| X | Ŷ | ,3(1X,F13.5),3(1X,F8.2). AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--|--------|--------|-------|--------|-----|----------------|-----------------------|-----|
| 650683.75 | 4077559 | 412223.84680 | 257.58 | 296 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 22 | P22 |
| 650776.81 | 4077554 | 290956.76410 | 267.9 | 296 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 23 | P23 |
| 650778.91 | 4077454 | 340570.64120 | 275.91 | 275.91 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 599658.13720 | 265.73 | 281 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 25 | P25 |
| 650783.1 | 4077254 | 1249971.33330 | 251.08 | 282 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 26 | P26 |
| 650785.19 | 4077154 | 1759296.15530 | 252.83 | 281 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 27 | P27 |
| 650787.29 | 4077054 | 2944448.84200 | 246.1 | 269 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 28 | P28 |
| 650789.38 | 4076954 | 4017481.00340 | 241.37 | 269 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 29 | P29 |
| 648784.19 | 4077527 | 2819198.91100 | 209.74 | 209.74 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 3 | Р3 |
| 650791.48 | 4076854 | 3775656.40560 | 246.79 | 251 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 30 | P30 |
| 650793.57 | 4076754 | 6391368.91900 | 228.75 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 31 | P31 |
| 650754.39 | 4076683 | 6809183.73720 | 217.76 | 271 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 32 | P32 |
| 650660.22 | 4076650 | 7535859.30580 | 221.2 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 33 | P33 |
| 650561.43 | 4076650 | 8397042.23340 | 220.83 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 34 | P34 |
| 650462.72 | 4076666 | 9133672.05530 | 223.42 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 35 | P35 |
| 650364.01 | 4076682 | 9737923.73510 | 222.46 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 36 | P36 |
| 650264.24 | 4076683 | 9639309.00150 | 223.19 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 37 | P37 |
| 650164.71 | 4076674 | 9892225.11250 | 222.1 | 249 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 38 | P38 |
| 650065.8 | 4076660 | 10617889.16000 | 217.03 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 39 | P39 |
| 548884.17 | 4077529 | 3608400.98920 | 214.25 | 227 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 4 | P4 |
| 649980.44 | 4076627 | 11154628.66920 | 214.82 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 40 | P40 |
| 649920.26 | 4076547 | 11087289.26540 | 214.91 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 41 | P41 |
| 649852.19 | 4076474 | 10158304.30010 | 214.09 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 42 | P42 |
| 649770.68 | 4076417 | 8530776.03950 | 211.53 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 43 | P43 |
| 549680.48 | 4076375 | 6953296.42250 | 210.17 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 44 | P44 |
| 549580.91 | 4076368 | 5519203.72720 | 208.52 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 45 | P45 |
| 649482.48 | 4076384 | 4365494.60540 | 207.5 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 46 | P46 |
| 549391.59 | 4076425 | 3747771.15990 | 205.17 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 47 | P47 |
| 649303.5 | 4076472 | 2991432.03060 | 202.16 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 48 | P48 |
| 649226.19 | 4076535 | 2415443.22050 | 196.38 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 49 | P49 |
| 648984.14 | 4077530 | 4412566.42680 | 221.41 | 221.41 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 5 | P5 |
| 649156.2 | 4076605 | 2101274.90220 | 195.87 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 50 | P50 |
| 649068.25 | 4076653 | 1673665.80600 | 196.32 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 51 | P51 |
| 648986.7 | 4076711 | 1424553.08270 | 192.42 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 52 | P52 |
| 648936.53 | 4076759 | 1341221.60860 | 192.46 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 53 | P53 |
| 648868.58 | 4076833 | 1259411.26390 | 191.63 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 54 | P54 |
| 648797.23 | 4076902 | 1163080.37080 | 186.32 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 55 | P55 |
| 648710.56 | 4076952 | 1007211.29190 | 179.81 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 56 | P56 |
| 648620.79 | 4076996 | 870691.28920 | 176.23 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 57 | P57 |
| 648607.19 | 4077051 | 902447.14760 | 175.02 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 58 | P58 |
| 648680.07 | 4077119 | 1159922.66510 | 180.62 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 59 | P59 |
| 649084.12 | 4077532 | 4833906.36130 | 216.54 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 6 | P6 |

09:01:17 * AERMET (19191): 2019

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 289 RECEPTORS.

FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | ,3(1X,F13.5),3(1X,F8.2), AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|------------------|--------------------|--|------------------|--------|-------|--------|-----|------------------|--|-------|
| 648759.24 | 4077180 | 1558631.58520 | 183.47 | 259 | 1.5 | ANNUAL | ALL | 1 NUMLINS NET ID | Boundary Perimeter 60 | P60 |
| 648791.44 | 4077262 | 2090285.46110 | 202.88 | 245 | 1.5 | ANNUAL | ALL | <u> </u> | Boundary Perimeter 61 | P61 |
| 648788.45 | 4077362 | 2106695.18370 | 178.21 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 62 | P62 |
| 648691.25 | 4077361 | 1654979.36960 | 176.21 | 259 | 1.5 | ANNUAL | ALL | <u> </u> | Boundary Perimeter 63 | P63 |
| 648591.35 | 4077357 | 1304406.56790 | 176.23 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 63 Boundary Perimeter 64 | P64 |
| 648525.69 | 4077371 | 1149949.59050 | 175.24 | 245 | 1.5 | ANNUAL | ALL | <u> </u> | Boundary Perimeter 65 | P65 |
| 648586.93 | 4077430 | 1412816.84360 | 175.13 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 65 | P66 |
| 649184.09 | 4077534 | 4615477.07810 | 230.71 | 259 | 1.5 | ANNUAL | ALL | <u> </u> | Boundary Perimeter 7 | P7 |
| 649284.08 | 4077535 | 2351276.52140 | 248.08 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 8 | P8 |
| 649384.06 | 4077536 | 1680901.19040 | 258.43 | 258.43 | 1.5 | ANNUAL | ALL | <u> </u> | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 132844.73670 | 127.38 | 127.38 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646030 | 4077983 | 141839.67800 | 131.21 | 131.21 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4077983 | 151718.29930 | 131.21 | 131.21 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646230 | 4077983 | | 139.18 | 139.18 | 1.5 | ANNUAL | | 1 | | |
| 646330 | | 162425.46140 | | | | | ALL | 1 | New Development | RP_G1 |
| | 4077983 | 174005.62640 | 140.76 | 140.76 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4077983 | 187100.23760 | 143.89 | 143.89 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 646630 | 4077983 4077983 | 201307.29890 | 145.22 147.21 | 145.22 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| | | 217176.32970 | | 147.21 | | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4077983 | 234490.01310 | 148.3 | 160 | 1.5 | ANNUAL | ALL | - | New Development | RP_G1 |
| 645930 | 4078083 | 143907.87820 | 127.58 | 127.58 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078083 | 153187.94130 | 130.56 | 130.56 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078083 | 163495.70580 | 134.35 | 134.35 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078083 | 175107.67360 | 139.22 | 139.22 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4078083 | 188237.52580 | 144.65 | 144.65 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078083 | 201172.20940 | 142.28 | 142.28 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4078083 | 216862.38560 | 146.76 | 146.76 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4078083 | 234136.43310 | 150.64 | 150.64 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4078083 | 253796.49740 | 155.4 | 157 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078183 | 153473.96150 | 127.22 | 127.22 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078183 | 163369.58550 | 130.56 | 130.56 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078183 | 174339.08360 | 133.89 | 133.89 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078183 | 186981.56860 | 140.45 | 140.45 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4078183 | 201188.81140 | 146.94 | 146.94 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078183 | 213593.33730 | 140.23 | 140.23 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4078183 | 230384.52110 | 147.25 | 147.25 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4078183 | 248534.77260 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4078183 | 269986.04110 | 157.78 | 166 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078283 | 161994.74010 | 126.06 | 126.06 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078283 | 172539.23020 | 129.56 | 129.56 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078283 | 184036.75970 | 132.89 | 132.89 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078283 | 197045.58450 | 139.24 | 139.24 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4078283 | 210800.04330 | 142.68 | 142.68 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |

09/03/21

* AERMOD (19191): Appendix B Attachment - Future Peak Emissions for Closure Area

* AERMET (19191): 2019 09:01:17

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- FORMAT: (A.1X.3(1X.F13.5),3(1X.F8.2),2X.A6.2X.A8.2X.I8.8.2X.A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|---------------|--------|--------|-------|--------|-----|----------------|-----------------|--------|
| 646430 | 4078283 | 224476.49390 | 140.02 | 140.02 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4078283 | 241973.75530 | 147.22 | 147.22 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4078283 | 260907.25090 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4078283 | 282593.39630 | 156.78 | 166 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 648659.32 | 4077241 | 1507190.01940 | 205.79 | 205.79 | 1.5 | ANNUAL | ALL | 1 | House 1 | RP_H1 |
| 648071.24 | 4076116 | 260821.29520 | 169.6 | 240 | 1.5 | ANNUAL | ALL | 1 | House 10 | RP_H10 |
| 648247.37 | 4076278 | 342318.99340 | 184.55 | 240 | 1.5 | ANNUAL | ALL | 1 | House 11 | RP_H11 |
| 648027.19 | 4076255 | 277580.71520 | 169.38 | 240 | 1.5 | ANNUAL | ALL | 1 | House 12 | RP_H12 |
| 648065.77 | 4076359 | 303313.19320 | 173.83 | 240 | 1.5 | ANNUAL | ALL | 1 | House 13 | RP_H13 |
| 648138.68 | 4076400 | 329230.58350 | 178.22 | 240 | 1.5 | ANNUAL | ALL | 1 | House 14 | RP_H14 |
| 648254.71 | 4076411 | 382498.41240 | 191.28 | 240 | 1.5 | ANNUAL | ALL | 1 | House 15 | RP_H15 |
| 647877.81 | 4076365 | 265174.15260 | 165.39 | 240 | 1.5 | ANNUAL | ALL | 1 | House 16 | RP_H16 |
| 647520 | 4076206 | 201810.63690 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | House 17 | RP_H17 |
| 647921 | 4076247 | 256543.89780 | 164 | 240 | 1.5 | ANNUAL | ALL | 1 | House 18 | RP_H18 |
| 647708.78 | 4076352 | 237374.60680 | 163.52 | 163.52 | 1.5 | ANNUAL | ALL | 1 | House 19 | RP_H19 |
| 648371.71 | 4075470 | 245446.23270 | 173.69 | 227 | 1.5 | ANNUAL | ALL | 1 | House 2 | RP_H2 |
| 647703.58 | 4076251 | 226711.02160 | 162.17 | 162.17 | 1.5 | ANNUAL | ALL | 1 | House 20 | RP_H20 |
| 647718.77 | 4076104 | 207075.27840 | 159.35 | 159.35 | 1.5 | ANNUAL | ALL | 1 | House 21 | RP_H21 |
| 647843.32 | 4076125 | 225123.98350 | 163 | 234 | 1.5 | ANNUAL | ALL | 1 | House 22 | RP_H22 |
| 647842.26 | 4076500 | 268078.91820 | 167.93 | 167.93 | 1.5 | ANNUAL | ALL | 1 | House 23 | RP_H23 |
| 647727.75 | 4076644 | 237006.24340 | 164.15 | 164.15 | 1.5 | ANNUAL | ALL | 1 | House 24 | RP H24 |
| 647823.91 | 4076644 | 258410.70990 | 168.29 | 168.29 | 1.5 | ANNUAL | ALL | 1 | House 25 | RP H25 |
| 647530 | 4076497 | 206966.15870 | 159.56 | 159.56 | 1.5 | ANNUAL | ALL | 1 | House 26 | RP H26 |
| 647810.11 | 4076854 | 252759.04140 | 162.9 | 162.9 | 1.5 | ANNUAL | ALL | 1 | House 27 | RP H27 |
| 647697.48 | 4076989 | 230390.77530 | 161.42 | 162 | 1.5 | ANNUAL | ALL | 1 | House 28 | RP H28 |
| 648225.5 | 4076182 | 314963.37400 | 183.22 | 240 | 1.5 | ANNUAL | ALL | 1 | House 29 | RP H29 |
| 647678.23 | 4075969 | 185207.36840 | 159.5 | 159.5 | 1.5 | ANNUAL | ALL | 1 | House 3 | RP H3 |
| 645876.32 | 4077487 | 88181.73130 | 127.13 | 142 | 1.5 | ANNUAL | ALL | 1 | House 30 | RP H30 |
| 650902 | 4076062 | 2499181.50770 | 215.24 | 287 | 1.5 | ANNUAL | ALL | 1 | House 31 | RP H31 |
| 651490 | 4076597 | 1502904.13770 | 205.5 | 813 | 1.5 | ANNUAL | ALL | 1 | House 32 | RP H32 |
| 651565 | 4077067 | 1022559.93220 | 213.93 | 813 | 1.5 | ANNUAL | ALL | 1 | House 33 | RP H33 |
| 648672.77 | 4075307 | 342416.06720 | 225.91 | 227 | 1.5 | ANNUAL | ALL | 1 | House 34 | RP H34 |
| 648383.6 | 4075469 | 247387.81910 | 174.44 | 227 | 1.5 | ANNUAL | ALL | 1 | House 35 | RP H35 |
| 646379.37 | | 98383.13630 | 146 | 146 | 1.5 | ANNUAL | ALL | 1 | House 36 | RP H36 |
| 651849.72 | | 1022795.21600 | 201.97 | 333 | 1.5 | ANNUAL | ALL | 1 | House 37 | RP H37 |
| 652045.49 | | 852706.27520 | 196.88 | 813 | 1.5 | ANNUAL | ALL | 1 | House 38 | RP H38 |
| 652255.69 | | 689452.73530 | 197.06 | 813 | 1.5 | ANNUAL | ALL | 1 | House 39 | RP H39 |
| 647815.25 | 4075985 | 202542.31160 | 162.04 | 162.04 | 1.5 | ANNUAL | ALL | 1 | House 4 | RP H4 |
| 646853.73 | | 147406.27170 | 145.99 | 145.99 | 1.5 | ANNUAL | ALL | 1 | House 40 | RP H40 |
| 647050.21 | 4077360 | 168474.43780 | 145 | 145 | 1.5 | ANNUAL | ALL | 1 | House 41 | RP_H41 |
| 647286.42 | | 230497.45890 | 149.68 | 153 | 1.5 | ANNUAL | ALL | 1 | House 42 | RP H42 |
| 647359.05 | | 215730.83890 | 154.45 | 159 | 1.5 | ANNUAL | ALL | 1 | House 43 | RP_H43 |

09/03/21

* AERMET (19191): 2019

09:01:17

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------------------|--------------------|------------------------------|--------|--------|-------|------------------|------------|----------------|----------------------|------------------|
| 647490.41 | 4077329 | 243122.83960 | 162.28 | 162.28 | 1.5 | ANNUAL | ALL | NUM TRS NET ID | House 44 | RP H44 |
| 647522.17 | 4077252 | 233918.76180 | 164.3 | 164.3 | 1.5 | ANNUAL | ALL | 1 | House 45 | RP H45 |
| 647517.82 | 4077139 | 215998.78870 | 164.01 | 164.01 | 1.5 | ANNUAL | ALL | 1 | House 45 | RP H46 |
| 646819.01 | 4077258 | 133598.23690 | 151.53 | 152 | 1.5 | ANNUAL | ALL | 1 | House 47 | RP H47 |
| 646778.72 | 4077128 | 121714.61900 | 151.55 | 158.51 | 1.5 | ANNUAL | ALL | 1 | House 48 | RP_H48 |
| 646987.26 | 4077128 | | 138.31 | 146.44 | 1.5 | ANNUAL | ALL | <u> </u> | House 48 | RP_H48 RP_H49 |
| | | 145643.61630 | 163.83 | 237 | 1.5 | | ALL | 1 | | |
| 647898.2 647241.77 | 4076033 4077227 | 219190.73690 | 154.85 | 154.85 | | ANNUAL ANNUAL | | 1 | House 5 | RP_H5 |
| | 4077227 | 178898.45210 118397.85030 | 154.85 | 154.85 | 1.5 | ANNUAL | ALL ALL | 1 | House 50 House 51 | RP_H50 RP H51 |
| 646773.05 | | | | | | | | 1 | | |
| 647104.37 | 4077118 | 150914.52000 | 148.99 | 148.99 | 1.5 | ANNUAL | ALL | 1 | House 52 | RP_H52 |
| 647291.9 | 4077123 | 176239.26780 | 158.62 | 158.62 | 1.5 | ANNUAL | ALL | 1 | House 53 | RP_H53 |
| 646765.24 | 4076978 | 115082.28430 | 158.67 | 158.67 | 1.5 | ANNUAL | ALL | I | House 54 | RP_H54 |
| 646995.65 | 4076984 | 130965.17660 | 152.34 | 152.34 | 1.5 | ANNUAL | ALL | 1 | House 55 | RP_H55 |
| 647317.21 | 4077031 | 169725.03620 | 160.22 | 160.22 | 1.5 | ANNUAL | ALL | 1 | House 56 | RP_H56 |
| 647398.39 | 4077013 | 179137.24100 | 161.26 | 161.26 | 1.5 | ANNUAL | ALL | <u> </u> | House 57 | RP_H57 |
| 646978.93 | 4076904 | 128695.82580 | 156.81 | 156.81 | 1.5 | ANNUAL | ALL | 1 | House 58 | RP_H58 |
| 647015.19 | 4076807 | 135531.21260 | 156.21 | 156.21 | 1.5 | ANNUAL | ALL | 1 | House 59 | RP_H59 |
| 648045.44 | 4076018 | 242015.98800 | 168.26 | 240 | 1.5 | ANNUAL | ALL | 1 | House 6 | RP_H6 |
| 647163.96 | 4076802 | 150381.27440 | 154.38 | 154.38 | 1.5 | ANNUAL | ALL | 1 | House 60 | RP_H60 |
| 647310.58 | 4076940 | 161477.54410 | 162.49 | 162.49 | 1.5 | ANNUAL | ALL | 1 | House 61 | RP_H61 |
| 647298.09 | 4076805 | 166239.04540 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | House 62 | RP_H62 |
| 647446.56 | 4076900 | 178307.09570 | 159.45 | 159.45 | 1.5 | ANNUAL | ALL | 1 | House 63 | RP_H63 |
| 647464.49 | 4076781 | 192844.25650 | 159.32 | 159.32 | 1.5 | ANNUAL | ALL | 1 | House 64 | RP_H64 |
| 647512 | 4076536 | 200911.81620 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | House 65 | RP_H65 |
| 651131 | 4078767 | 181338.23680 | 179.58 | 830 | 1.5 | ANNUAL | ALL | 1 | House 66 | RP_H66 |
| 647131 | 4077336 | 176409.74000 | 146.77 | 146.77 | 1.5 | ANNUAL | ALL | 1 | House 67 | RP_H67 |
| 646798 | 4076740 | 121820.80200 | 156.07 | 156.07 | 1.5 | ANNUAL | ALL | 1 | House 68 | RP_H68 |
| 646900 | 4076802 | 126700.60350 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | House 69 | RP_H69 |
| 648126.33 | 4075955 | 250701.61610 | 171.51 | 240 | 1.5 | ANNUAL | ALL | 1 | House 7 | RP_H7 |
| 647317 | 4076662 | 178587.26400 | 159.9 | 159.9 | 1.5 | ANNUAL | ALL | 1 | House 70 | RP_H70 |
| 648249.26 | 4075970 | 284810.04540 | 183.42 | 240 | 1.5 | ANNUAL | ALL | 1 | House 8 | RP_H8 |
| 648218.58 | 4076109 | 299299.01410 | 182.28 | 240 | 1.5 | ANNUAL | ALL | 1 | House 9 | RP_H9 |
| 649744 | 4079173 | 355961.03780 | 176.1 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 51 | G51 |
| 650144 | 4079173 | 256008.75140 | 173 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 61 | G61 |
| 650544 | 4079173 | 224481.16330 | 177 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 71 | G71 |
| 650944 | 4079173 | 182664.49500 | 181.3 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 81 | G81 |
| 651344 | 4079173 | 144353.72990 | 191 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 91 | G91 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in $\mu g/m^3$.

Concetration values multiplied by a factor of 10 to convert from 0.1 lb/hr-SF to 1 lb/hr-SF for dispersion factor use.

* AERMOD (19191): Appendix B Attachment - Future Peak Emissions for Closure Area

* AERMET (21112): 2020 10:44:48

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 642056.782 4079416 71822.8485 85.12 85.12 1.5 ANNUAL ALL 1 Dunne Park CR PK 1 642179.095 4079950 71041.3951 117.99 117.99 1.5 ANNUAL ALL 1 Vista Park Hill Park CR PK 2 644733.142 4078753 140852.9396 106.44 106.44 1.5 ANNUAL ALL 1 Las Brissa Park CR PK 3 645608.808 4078854 208479.1419 112.86 112.86 1.5 ANNUAL ALL 1 Frank Klauer Memorial Park CR PK 4 644238.054 4078807 120958.1370 95.25 95.25 1.5 ANNUAL ALL 1 Veterans Memorial Park CR PK 5 645114.76 4076559 99832.0843 134.61 134.61 1.5 ANNUAL ALL 1 Park 6 CR PK 6 649581.689 4073424 250882.1405 159.96 318 1.5 ANNUAL ALL 1 Park 7 CR PK 7 645145.11 4077181 107991.0190 133 133 1.5 ANNUAL ALL 1 Cerra Vista Elem School CR SC 1 642904.712 4079955 88370.2117 86 86 1.5 ANNUAL ALL 1 San Andreas Continuation CR SC 10 642105.679 4078176 54456.7807 91 91 1.5 ANNUAL ALL 1 SouthSide School CR SC 11 642105.679 4078176 54456.7807 91 91 1.5 ANNUAL ALL 1 School CR SC 12 64608.893 4078443 244138.6464 128.52 128.52 1.5 ANNUAL ALL 1 Rancho Santana School CR SC 13 647269 4075575 175528.1867 158 158 158 1.5 ANNUAL ALL 1 Sunnyslope Elem School CR SC 13 644109.6 4074106 193658.2526 159 240 1.5 ANNUAL ALL 1 Tree Pinos Union Elementary School CR SC 2 643920.12 4077304 76146.8125 101.23 101.23 1.5 ANNUAL ALL 1 Sunnyslope Elem School CR SC 2 643920.2 4077304 76146.8125 101.23 101.23 1.5 ANNUAL ALL 1 BRancho San Justo Middle School CR SC 3 643980.02 4079743 126536.4283 88 88 1.5 ANNUAL ALL 1 BRancho San Justo Middle School CR SC 4 643980.02 4079743 126536.4283 88 88 1.5 ANNUAL ALL 1 BRancho San Justo Middle School CR SC 6 643350.03 4077181 60510.6093 98.22 98.2 1.5 ANNUAL ALL 1 BRancho San Justo Middle School CR SC 6 643030.03 4077181 60510.6093 98.22 98.2 1.5 ANNUAL ALL 1 BRancho San Justo Middle School CR SC 6 643350.03 4077181 60510.6093 98.22 98.2 1.5 ANNUAL ALL 1 BRancho San Justo Middle School CR SC 6 643350.03 4077181 60510.6093 98.22 98.2 1.5 ANNUAL ALL 1 Badd Lane Elementary School CR SC 6 643350.03 4077181 60510.6093 98.22 98.2 1.5 ANNUAL ALL 1 Gabilan Hills Elementary School CR SC 8 | I OKW | 1/11. (A,1A | $.,3(1\Lambda,113.3),3(1\Lambda,16.2$ | 2,5,41,140,41,1 | 10,4/1,10.0,4 | Λ,Λο) | | | | | |
|--|------------|-------------|---------------------------------------|-----------------|---------------|-------|--------|-----|---------------|------------------------------------|-------------|
| 643903.65 4077719 84943.4905 105.68 105.68 105.68 1.5 ANNUAL ALL 1 Hazel Hawkins Memoral Hospital CR. FIP. I 462179.095 4079916 71822.4845 85.12 | | | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | | | NUM YRSNET ID | | |
| 64205.6782 4079416 71822.8485 85.12 85.12 1.5 ANNUAL ALL I Domme Park CR_PK_1 642179.095 4079950 71041.3951 117.99 117.99 1.5 ANNUAL ALL I Vista Park Hill Park CR_PK_2 64473.142 4078753 140852.936 106.44 106.44 1.5 ANNUAL ALL I Las Brisss Park CR_PK_3 64508.080 4078854 208479.1419 112.86 112.86 1.5 ANNUAL ALL I Frank Klauer Memorial Park CR_PK_4 644238.084 4078753 140852.9361 106.44 106.44 1.5 ANNUAL ALL I Park 6 CR_PK_5 643311.476 4076559 99852.0843 134.61 134.61 1.5 ANNUAL ALL I Park 6 CR_PK_6 649581.689 9973424 250882.1405 139.96 318 1.5 ANNUAL ALL I Park 6 CR_PK_6 649581.689 9073424 250882.1405 139.96 318 1.5 ANNUAL ALL I Park 6 CR_PK_6 649581.689 40791342 250882.1405 139.96 318 1.5 ANNUAL ALL I Cerra Vista Elem School CR_PK_7 645145.11 4077181 107991.0190 133 133 1.5 ANNUAL ALL I San Andreas Continuation CR_PK_7 645145.11 4077181 79462.7193 123 313 1.5 ANNUAL ALL I San Andreas Continuation CR_PK_7 142094.712 4079955 883702.117 86 86 1.5 ANNUAL ALL I San Andreas Continuation CR_PK_7 142094.712 4079955 883702.117 86 86 1.5 ANNUAL ALL I San Andreas Continuation CR_PK_7 142094.712 4079955 883702.117 86 86 1.5 ANNUAL ALL I San Andreas Continuation CR_PK_7 142094.712 407405 79462.7193 123 313 1.5 ANNUAL ALL I San Andreas Continuation CR_PK_7 142094.712 407405 79462.7193 123 313 1.5 ANNUAL ALL I San Andreas Continuation CR_PK_7 142094.712 407405 79462.7193 123 313 1.5 ANNUAL ALL I Rancho Santana School CR_PK_7 142094.712 407405 79557 79528.1807 79528.1 | 645996 | 4078698 | 247130.5190 | 123.85 | 123.85 | 1.5 | ANNUAL | ALL | 1 | AQ Monitoring Station | AQ_ST_1 |
| 17.99 17.9 | 643903.65 | 4077719 | 84934.3905 | 105.68 | 105.68 | 1.5 | ANNUAL | ALL | 1 | Hazel Hawkins Memorial Hospital | CR_HP_1 |
| G44733,142 4078753 140852,9396 106.44 106.44 1.5 ANNUAL ALL 1 Las Brissa Park CR PK 465068,808 4078854 204879,1419 112.86 1.5 ANNUAL ALL 1 Prank Klauer Memorial Park CR PK 546508,808 4078870 120958,1370 95.25 95.25 1.5 ANNUAL ALL 1 Veterans Memorial Park CR PK 54631,1476 4076559 99832,0943 314.61 314.61 1.5 ANNUAL ALL 1 Park 6 CR PK 5 64531,1476 4076559 99832,0943 314.61 314.61 1.5 ANNUAL ALL 1 Park 7 CR PK 7 645145,11 4077181 107991,0190 133 133 1.5 ANNUAL ALL 1 Cerra Vista Elem School CR SC 1 648904,712 4079955 83870,2117 86 86 1.5 ANNUAL ALL 1 SoundSide School CR SC 1 64858,078 4074015 79462,7193 123 313 1.5 ANNUAL ALL 1 SoundSide School CR SC 1 646058,93 4078443 2244138,6464 128.52 128.52 1.5 ANNUAL ALL 1 School 2 CR SC 1 646058,93 4078443 2244138,6464 128.52 128.52 1.5 ANNUAL ALL 1 Rancho Santana School CR SC 1 644106 4078389 104098,0310 98.2 98.2 1.5 ANNUAL ALL 1 Ters Priors Union Elementary School CR SC 3 64290.10 4078039 104098,0310 98.2 98.2 1.5 ANNUAL ALL 1 Bunnyslope Elem School CR SC 3 64290.10 4078021 76552,6317 92 92 1.5 ANNUAL ALL 1 Bunnyslope Elem School CR SC 3 64290.10 4078021 76552,6317 92 92 1.5 ANNUAL ALL 1 Bunnyslope Elem School CR SC 5 641630.17 4079943 12653,64283 88 88 1.5 ANNUAL ALL 1 Bunnyslope Elem School CR SC 5 641630.17 4079943 12653,64283 88 88 1.5 ANNUAL ALL 1 Bunnyslope Elem School CR SC 5 641630.17 4079943 12653,64283 88 88 1.5 ANNUAL ALL 1 Bunnyslope Elem School CR SC 5 641630.17 4079943 12653,64283 88 88 1.5 ANNUAL ALL 1 Bunnyslope Elem School CR SC 5 64160.07 4079943 12653,64283 88 88 1.5 ANNUAL ALL | 642056.782 | 4079416 | 71822.8485 | 85.12 | 85.12 | 1.5 | ANNUAL | ALL | 1 | Dunne Park | CR_PK_1 |
| 645608.808 4078854 208479,1419 112.86 112.86 112.86 1.5 ANNUAL ALL 1 Frank Kluwer Memorial Park CR PK 4 64238.054 4078807 120958,1370 95.25 95.25 1.5 ANNUAL ALL 1 Veterans Memorial Park CR PK 5 642311.476 4076559 99332.0843 134.61 134.61 13.61 1.5 ANNUAL ALL 1 Park 6 CR PK 6 649581.689 4073424 250882.1405 159.96 318 1.5 ANNUAL ALL 1 Cerral Visa Elementary CR PK 7 | 642179.095 | 4079950 | 71041.3951 | 117.99 | 117.99 | 1.5 | ANNUAL | ALL | 1 | Vista Park Hill Park | CR_PK_2 |
| 544238.054 4078807 120958.1370 95.25 95.25 1.5 ANNUAL ALL 1 Veterans Memorial Park CR PK 5 645311.476 4076559 99832.0843 134.61 134.61 1.5 ANNUAL ALL 1 Park 6 CR PK 6 649581.689 4073424 250882.1405 159.96 318 1.5 ANNUAL ALL 1 Park 7 CR PK 7 645145.11 4077181 107991.0190 133 133 1.5 ANNUAL ALL 1 Cerra Vista Elem School CR SC 1 649204.712 4079955 88370.2117 86 86 8.5 1.5 ANNUAL ALL 1 Sam Andreas Continuation CR SC 10 643850.678 4074015 79462.7193 123 313 1.5 ANNUAL ALL 1 SouthSide School CR SC 10 643850.678 4074015 79462.7193 123 313 1.5 ANNUAL ALL 1 School 12 CR SC 12 646058.93 4078443 244138.6464 128.52 128.52 1.5 ANNUAL ALL 1 Rancho Santana School CR SC 11 647209 4075575 175528.1867 158 158 1.5 ANNUAL ALL 1 Rancho Santana School CR SC 14 647209 4075575 175528.1867 158 158 158 1.5 ANNUAL ALL 1 Tres Pinos Union Elementary School CR SC 14 644106 4078389 104098.0310 98.2 98.2 1.5 ANNUAL ALL 1 Tres Pinos Union Elementary School CR SC 2 643920.12 4077304 76146.8125 101.23 101.23 1.5 ANNUAL ALL 1 Summyslope Elem School CR SC 2 643920.12 4077304 76146.8125 101.23 101.23 1.5 ANNUAL ALL 1 Bancho Santana School CR SC 4 643980.02 4079743 126536.4283 88 88 1.5 ANNUAL ALL 1 Bancho Santana School CR SC 4 643980.02 4079743 126536.4283 88 88 1.5 ANNUAL ALL 1 Bancho Santana School CR SC 6 643350.03 407181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Bancho Santana School CR SC 6 643350.03 407181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Bancho Santana School CR SC 6 643350.03 407181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Bancho Santana School CR SC 7 64002.96 4080079 137832.7647 87 87 1.5 ANNUAL ALL 1 Bancho Santana School CR SC 9 64083447 4079133 636454558 85 85 1.5 ANNUAL ALL 1 Bancho Santana School CR SC 9 6408244.888 4078413 56669.4117 90.17 1.5 ANNUAL ALL 1 Bancho Santano Grantary School CR SC 9 6408244.888 4078413 56669.4117 90.17 1.5 ANNUAL ALL 1 Gabia Bantary School CR SC 9 6408244.889 407938 262629.0331 189.45 259 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 640402 4076787 17180434 4075773 107468.8001 159.6 159.6 159.6 159.6 159.6 | 644733.142 | 4078753 | 140852.9396 | 106.44 | 106.44 | 1.5 | ANNUAL | ALL | 1 | Las Brisas Park | CR_PK_3 |
| 64531.476 4076559 99832.0843 134.61 134.61 13.5 ANNUAL ALL 1 Park 6 CR_PK_6 64581.689 4073424 250882.1405 159.96 318 1.5 ANNUAL ALL 1 Park 7 CR_PK_7 645145.11 4077181 107991.0190 133 133 1.5 ANNUAL ALL 1 Cerra Vista Elem School CR_SC_1 642904.712 4079955 88370.2117 86 86 1.5 ANNUAL ALL 1 San Andreas Continuation CR_SC_1 642904.712 4079955 88370.2117 86 86 1.5 ANNUAL ALL 1 San Andreas Continuation CR_SC_1 1642904.712 4079955 88370.2117 86 86 1.5 ANNUAL ALL 1 SouthSide School CR_SC_1 1642906.7679 4078176 54456.7807 91 91 1.5 ANNUAL ALL 1 School 12 CR_SC_1 1642105.679 4078176 54456.7807 91 91 1.5 ANNUAL ALL 1 School 12 CR_SC_1 164058.93 4078443 244138.6464 128.52 128.52 1.5 ANNUAL ALL 1 Rancho Santana School CR_SC_1 2647269 4075575 175528.1867 158 158 1.5 ANNUAL ALL 1 Tres Pinos Union Elementary School CR_SC_1 36460640 4074106 193658.2526 159 240 1.5 ANNUAL ALL 1 Tres Pinos Union Elementary School CR_SC_1 43920.12 4077304 76146.8125 101.23 101.23 1.5 ANNUAL ALL 1 Summysinge Elem School CR_SC_2 464920.12 4077304 76146.8125 101.23 101.23 1.5 ANNUAL ALL 1 Hollister Montessori School CR_SC_3 646961.07 4078621 76552.6317 92 92 1.5 ANNUAL ALL 1 Hollister Montessori School CR_SC_3 646396.00 4078621 76552.6317 92 92 1.5 ANNUAL ALL 1 Marguerite Maze Middle School CR_SC_3 641630.17 4079153 63445.4558 85 85 85 1.5 ANNUAL ALL 1 Marguerite Maze Middle School CR_SC_6 644096.09 4080079 137832.7647 87 87 1.5 ANNUAL ALL 1 Gabilan Hills Elementary School CR_SC_6 642044.884 4079738 63445.4558 85 85 1.5 ANNUAL ALL 1 Gabilan Hills Elementary School CR_SC_6 642044.884 4079738 63445.4558 85 127 ANNUAL ALL 1 Gabilan Hills Elementary School CR_SC_6 644002 4076879 17802.3314 146.33 153 1.5 ANNUAL ALL 1 Gabilan Hills Elementary School CR_SC_6 644002 4076879 17802.3314 146.33 153 1.5 ANNUAL ALL 1 Gabilan Hills Elementary School CR_SC_6 642044.884 4079773 82660.2416 165.9 165.9 1.5 ANNUAL ALL 1 Grid Receptor 10 Gil 648144 4079773 10468.8860.0091 187.89 115 115 ANNUAL ALL 1 Grid Receptor 10 Gil 648144 4078773 10468.8860.0091 185.8 118 1.5 ANNU | 645608.808 | 4078854 | 208479.1419 | 112.86 | 112.86 | 1.5 | ANNUAL | ALL | 1 | Frank Klauer Memorial Park | CR_PK_4 |
| February | 644238.054 | 4078807 | 120958.1370 | 95.25 | 95.25 | 1.5 | ANNUAL | ALL | 1 | Veterans Memorial Park | CR_PK_5 |
| 645145.11 4077181 107991.0190 133 133 1.5 ANNUAL ALL 1 Carra Visia Elem School CR SC 1 | 645311.476 | 4076559 | 99832.0843 | 134.61 | 134.61 | 1.5 | ANNUAL | ALL | 1 | Park 6 | CR_PK_6 |
| 642904.712 4079955 88370.2117 86 86 1.5 ANNUAL ALL 1 San Andreas Continuation CR SC 10 645850.678 4074015 79462.7193 123 313 1.5 ANNUAL ALL 1 SouthSide School CR SC 11 645850.678 4078176 54456.7807 91 91 1.5 ANNUAL ALL 1 School 12 CR SC 12 646058.93 4078443 244138.6464 128.52 128.52 1.5 ANNUAL ALL 1 Rancho Santana School CR SC 13 6467269 4075575 175528.1867 158 158 1.5 ANNUAL ALL 1 Future School CR SC 13 648466 4074106 193658.2526 159 240 1.5 ANNUAL ALL 1 Tres Pinos Union Elementary School CR SC 15 644109.6 4078389 104098.0310 98.2 98.2 1.5 ANNUAL ALL 1 Sunmyslope Elem School CR SC 2 643920.12 4073704 76164.8125 101.23 101.23 1.5 ANNUAL ALL 1 Hollister Montessori School CR SC 3 64296.107 4078621 76552.6317 92 92 1.5 ANNUAL ALL 1 Rancho San Justo Middle School CR SC 4 64380.02 4079743 126536.4283 88 88 81.5 ANNUAL ALL 1 Marguerite Maze Middle School CR SC 5 643350.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Hollister Prep School CR SC 6 643350.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Hollister Prep School CR SC 6 643350.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Ball Hollister Prep School CR SC 6 6434040.96 4080079 137832.7647 87 87 87 1.5 ANNUAL ALL 1 Gabian Hilb Elementary School CR SC 7 642044.838 4078413 56669.4117 90.17 90.17 1.5 ANNUAL ALL 1 Gabian Hilb Elementary School CR SC 8 642244.838 4078413 56669.4117 90.17 90.17 1.5 ANNUAL ALL 1 Gabian Hilb Elementary School CR SC 9 642244.838 4078413 56669.4117 90.17 90.17 1.5 ANNUAL ALL 1 Gabian Hilb Elementary School CR SC 1 647744 4075573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 647744 407573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 64744 407573 24056.237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4077973 120166.1265 252.9 252.9 15.5 ANNUAL ALL 1 Grid Receptor 10 G10 648144 407573 989983.8066 166.6 179 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4077973 120166.1265 155.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 10 G16 648144 4077973 989983.8066 166.6 179 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 6481 | 649581.689 | 4073424 | 250882.1405 | 159.96 | 318 | 1.5 | ANNUAL | ALL | 1 | Park 7 | CR PK 7 |
| 649850.678 4074015 79462.7193 123 313 1.5 ANNUAL ALL I SouthSide School CR SC 11 642105.679 4078176 54456.7807 91 91 1.5 ANNUAL ALL I Rancho Santana School 12 CR SC 12 646058.93 4078443 244138.6464 128.52 128.52 1.5 ANNUAL ALL I Rancho Santana School CR SC 13 Scho 647269 4075575 175528.1867 158 158 1.5 ANNUAL ALL I Future School CR SC 14 648466 4074106 193658.2566 159 240 1.5 ANNUAL ALL I Tres Pinos Union Elementary School CR SC 14 648466 4074106 193658.2566 159 240 1.5 ANNUAL ALL I Sunnyslope Elem School CR SC 26 643920.12 4077304 76146.8125 101.23 101.23 10.2 1.5 ANNUAL ALL I Bollister Montessori School CR SC 3 64390.12 4077304 76146.8125 101.23 101.23 10.2 1.5 ANNUAL ALL I Rancho San Justo Middle School CR SC 4 643980.02 4079743 126536.4283 88 88 88 1.5 ANNUAL ALL I Rancho San Justo Middle School CR SC 6 641630.17 4079153 63445.4558 85 85 1.5 ANNUAL ALL I Marguerite Maze Middle School CR SC 6 644020.96 4080079 137832.7647 87 87 87 1.5 ANNUAL ALL I LAD Gabilan Hills Elementary School CR SC 7 644002.96 4080079 137832.7647 87 87 87 1.5 ANNUAL ALL I Gabilan Hills Elementary School CR SC 7 642244.885 4078413 56669.4117 90.17 90.17 90.17 1.5 ANNUAL ALL I Gabilan Hills Elementary School CR SC 8 642244.885 4078413 56669.4117 90.17 90.17 90.17 1.5 ANNUAL ALL I Gabilan Hills Elementary School CR SC 1 648949 4077938 262629.0331 189.45 259 1.5 ANNUAL ALL I Workplace CR WP 1 648949 4077938 262629.0331 189.45 259 1.5 ANNUAL ALL I Grid Receptor 10 G10 648144 4075573 231456.6237 160 160 1.5 ANNUAL ALL I Grid Receptor 10 G10 648144 4075773 28988.2891 158.3 181 1.5 ANNUAL ALL I Grid Receptor 12 G12 648144 4077973 885660.2361 165.9 165.9 1.5 ANNUAL ALL I Grid Receptor 10 G10 648144 4077973 1210106.1395 158.3 181 1.5 ANNUAL ALL I Grid Receptor 10 G10 648144 4077973 291016.395 158.3 181 1.5 ANNUAL ALL I Grid Receptor 10 G10 648144 4077973 291016.395 158.3 181 1.5 ANNUAL ALL I Grid Receptor 10 G10 648144 4077973 398988.8066 166.6 179 1.5 ANNUAL ALL I Grid Receptor 15 G15 648144 4077973 398988.8066 166.6 179 1.5 ANNUAL ALL I Grid | 645145.11 | 4077181 | 107991.0190 | 133 | 133 | 1.5 | ANNUAL | ALL | 1 | Cerra Vista Elem School | CR SC 1 |
| 642105.679 4078176 54456.7807 91 91 1.5 ANNUAL ALL 1 Rancho Santana School CR_SC_12 (646058.93) 4078443 244138.6464 128.52 128.52 1.5 ANNUAL ALL 1 Rancho Santana School CR_SC_13 (647269) 4075575 175528.1867 158 158 158 1.5 ANNUAL ALL 1 Future School CR_SC_14 (648466 4074106 193658.2526 159 240 1.5 ANNUAL ALL 1 Tres Pinos Union Elementary School CR_SC_15 (644109.6 4078389) 104098.0310 98.2 98.2 1.5 ANNUAL ALL 1 Sunnyslope Elem School CR_SC_2 (4643920.12 4077304 76146.8125 101.23 101.23 101.23 1.5 ANNUAL ALL 1 Hollister Montessori School CR_SC_2 (4643980.02 4079743 126536.4283 88 88 88 1.5 ANNUAL ALL 1 Rancho San Justo Middle School CR_SC_2 (4643980.02 4079743 126536.4283 88 88 88 1.5 ANNUAL ALL 1 Marguerite Maze Middle School CR_SC_2 (4643030.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Hollister Prep School CR_SC_2 (464002.96 4080079 137832.7647 87 87 87 1.5 ANNUAL ALL 1 Gabian Hills Elementary School CR_SC_2 (464002.96 4080079 137832.7647 87 87 87 1.5 ANNUAL ALL 1 Gabian Hills Elementary School CR_SC_2 (464002.96 4080079 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Devense De Antano CR_SC_2 (464002.96 4076879 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Devense De Antano CR_SC_2 (464002.96 4076879 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Grid Receptor 1 GI 647744 4079173 797835.7235 155.2 155.2 15.5 ANNUAL ALL 1 Grid Receptor 1 GI 647744 4079173 97835.7235 155.2 155.2 15.5 ANNUAL ALL 1 Grid Receptor 10 GI 648144 4077973 12076438.801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 10 GI 648144 4077973 12076438.801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 1 GI 648144 4077973 12076438.801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 10 GI 648144 4077973 12076438.801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 1 GI 648144 4077973 12076438.801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 1 GI 648144 4077973 12076438.801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 15 GI 648144 4077973 12076438.801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 15 GI 648144 4077973 12076438.803 175.4 175.4 1.5 ANNUAL ALL 1 Grid Receptor 15 GI 648144 4 | 642904.712 | 4079955 | 88370.2117 | 86 | 86 | 1.5 | ANNUAL | ALL | 1 | San Andreas Continuation | CR SC 10 |
| 646058-93 4078443 244138.6464 128.52 128.52 1.5 ANNUAL ALL 1 Rancho Santana School CR_SC_13 School 647269 4075575 175528.1867 158 1.58 1.58 1.5 ANNUAL ALL 1 Tres Pinos Union Elementary School CR_SC_15 644109.6 4078189 104098.0310 98.2 98.2 1.5 ANNUAL ALL 1 Sunnyslope Elem School CR_SC_2 643920.12 4077304 76146.8125 101.23 101.23 1.5 ANNUAL ALL 1 Rancho San Justo Middle School CR_SC_3 642961.07 4078621 76552.6317 92 92 1.5 ANNUAL ALL 1 Rancho San Justo Middle School CR_SC_3 643980.02 4079743 126536.4283 88 88 1.5 ANNUAL ALL 1 Marguerite Maze Middle School CR_SC_5 643980.02 4079743 126536.4283 88 88 81 1.5 ANNUAL ALL 1 Marguerite Maze Middle School CR_SC_6 643350.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Hollister Prep School CR_SC_6 643350.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Ladd Lane Elementary School CR_SC_6 643350.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Gabilan Hills Elementary School CR_SC_6 642244.888 4078413 66609.4117 90.17 90.17 1.5 ANNUAL ALL 1 Gabilan Hills Elementary School CR_SC_8 6424244.888 4078413 66609.4117 90.17 90.17 1.5 ANNUAL ALL 1 San Benito High School CR_SC_8 643949.4076479 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Workplace CR_WP_2 64208.3447 4079794 68460.0091 87.58 127 1.5 ANNUAL ALL 1 Workplace CR_WP_2 6439494 4076879 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Workplace CR_WP_2 6439494 4077938 266229.0331 189.45 259 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 648444 4077573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4077573 281456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4077573 98983.8066 166.6 179 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077573 98983.8066 166.6 179 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077573 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4077573 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076773 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076773 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076773 438642.7891 1 | 645850.678 | 4074015 | 79462.7193 | 123 | 313 | 1.5 | ANNUAL | ALL | 1 | SouthSide School | CR SC 11 |
| 647269 4075575 175528.1867 158 158 1.5 ANNUAL ALL 1 Future School CR SC 14 643466 4074106 193658.2526 159 240 1.5 ANNUAL ALL 1 Tres Pinos Union Elementary School CR SC 15 644109.6 4078389 104098.0310 98.2 98.2 1.5 ANNUAL ALL 1 Sunnyslope Elem School CR SC 2 643920.12 4077304 76146.8125 101.23 101.23 1.5 ANNUAL ALL 1 Hollister Montessori School CR SC 3 642961.07 4078621 76555.6317 92 92 1.5 ANNUAL ALL 1 Rancho San Justo Middle School CR SC 4 643980.02 4079743 126536.4283 88 88 1.5 ANNUAL ALL 1 Marguerite Maze Middle School CR SC 5 641630.17 4079153 63445.4558 85 85 1.5 ANNUAL ALL 1 Marguerite Maze Middle School CR SC 5 641630.17 4079153 63445.4558 85 85 1.5 ANNUAL ALL 1 Hollister Prep Schoo CR SC 6 643350.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Ladd Lane Elementary School CR SC 7 644002.96 4080079 137832.7647 87 87 1.5 ANNUAL ALL 1 Gabilan Hills Elementary School CR SC 8 642244.858 4078413 56669.4117 90.17 90.17 1.5 ANNUAL ALL 1 San Benito High School CR SC 9 642040.296 4076879 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Devenes De Antano CR SR 1 648949 4077938 262629.0331 189.45 259 1.5 ANNUAL ALL 1 Workplace CR WP 1 648949 4077938 262629.0331 189.45 259 1.5 ANNUAL ALL 1 Grid Receptor 1 G1 647444 4079573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 651344 4075573 1155066.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4078773 115066.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4078773 1210106.1395 188.3 181 1.5 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 1210106.1395 188.3 181 1.5 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4077973 1210106.1395 188.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 1210106.1395 188.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 1210106.1395 188.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 1210106.1395 188.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G16 648144 4077973 3438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 15 G16 648144 4077973 359888.2893 173 240 1.5 ANNUAL ALL 1 Grid Receptor 19 G19 | 642105.679 | 4078176 | 54456.7807 | 91 | 91 | 1.5 | ANNUAL | ALL | 1 | School 12 | CR SC 12 |
| 648466 4074106 193658.2526 159 240 1.5 ANNUAL ALL 1 Tree Pinos Union Elementary School CR_SC_15 644109.6 4078389 104098.0310 98.2 98.2 1.5 ANNUAL ALL 1 Summyslope Elem School CR_SC_2 2 643920.12 4077304 76146.8125 101.23 101.23 1.5 ANNUAL ALL 1 Hollister Montessori School CR_SC_3 642961.07 4078621 76552.6317 92 92 1.5 ANNUAL ALL 1 Rancho San Justo Middle School CR_SC_4 643980.02 4079743 126536.4283 88 88 1.5 ANNUAL ALL 1 Marguerite Maze Middle School CR_SC_6 643350.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Hollister Prep School CR_SC_6 643244.858 4078113 660510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Ladd Lane Elementary School CR_SC_7 6442244.858 40 | 646058.93 | 4078443 | 244138.6464 | 128.52 | 128.52 | 1.5 | ANNUAL | ALL | 1 | Rancho Santana School | CR SC 13 Sc |
| 648466 4074106 193658.2526 159 240 1.5 ANNUAL ALL 1 Tree Pinos Union Elementary School CR_SC_15 644109.6 4078389 104098.0310 98.2 98.2 1.5 ANNUAL ALL 1 Summyslope Elem School CR_SC_2 2 643920.12 4077304 76146.8125 101.23 101.23 1.5 ANNUAL ALL 1 Hollister Montessori School CR_SC_3 642961.07 4078621 76552.6317 92 92 1.5 ANNUAL ALL 1 Rancho San Justo Middle School CR_SC_4 643980.02 4079743 126536.4283 88 88 1.5 ANNUAL ALL 1 Marguerite Maze Middle School CR_SC_6 643350.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Hollister Prep School CR_SC_6 643244.858 4078113 660510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Ladd Lane Elementary School CR_SC_7 6442244.858 40 | 647269 | 4075575 | 175528.1867 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | Future School | CR SC 14 Sc |
| 643920.12 4077304 76146.8125 101.23 101.23 1.5 ANNUAL ALL 1 Hollister Montessori School CR SC 3 642961.07 4078621 76552.6317 92 92 1.5 ANNUAL ALL 1 Rancho San Justo Middle School CR SC 4 643980.02 4079743 126536.4283 88 88 1.5 ANNUAL ALL 1 Marguerite Maze Middle School CR SC 5 641630.17 4079153 63445.4588 85 85 1.5 ANNUAL ALL 1 Hollister Prep Schoo CR SC 6 643350.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Ladd Lane Elementary School CR SC 7 644002.96 4080079 137832.7647 87 87 1.5 ANNUAL ALL 1 Gabilan Hills Elementary School CR SC 8 642244.858 4078413 56669.4117 90.17 90.17 1.5 ANNUAL ALL 1 San Benito High School CR SC 9 642083.447 4079794 68460.0091 87.58 127 1.5 ANNUAL ALL 1 Jovenes De Antano CR SC 1 648949 4076879 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Workplace CR WP 1 64744 4079173 797835.7235 155.2 155.2 1.5 ANNUAL ALL 1 Nearest Workplace CR WP 2 647744 4079173 797835.7235 155.2 155.2 1.5 ANNUAL ALL 1 Grid Receptor 1 G1 64744 4075573 1155066.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 651344 4078773 1074638.5801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 668144 4079173 885660.2361 165.9 165.9 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 668144 4079773 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 668144 4079773 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 10 G11 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 10 G11 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 10 G11 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 12107648.9045 146.2 146.2 | 648466 | 4074106 | 193658.2526 | 159 | 240 | 1.5 | ANNUAL | ALL | 1 | Tres Pinos Union Elementary School | CR SC 15 |
| 643920.12 4077304 76146.8125 101.23 101.23 1.5 ANNUAL ALL 1 Hollister Montessori School CR_SC_3 642961.07 4078621 76552.6317 92 92 1.5 ANNUAL ALL 1 Rancho San Justo Middle School CR_SC_4 643980.02 4079743 126536.4283 88 88 1.5 ANNUAL ALL 1 Marguerite Maze Middle School CR_SC_5 641630.17 4079153 63445.4558 85 85 1.5 ANNUAL ALL 1 Hollister Prep School CR_SC_6 643530.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Ladd Lane Elementary School CR_SC_6 643530.03 4077181 50510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Gabilan Hills Elementary School CR_SC_6 64202.96 4080079 137832.7647 87 87 1.5 ANNUAL ALL 1 Gabilan Hills Elementary School CR_SC_6 64202.96 4080079 137832.7647 87 87 1.5 ANNUAL ALL 1 San Benito High School CR_SC_9 642024.4858 4078413 56669.4117 90.17 90.17 1.5 ANNUAL ALL 1 San Benito High School CR_SC_9 642083.447 4079794 68460.0091 87.58 127 1.5 ANNUAL ALL 1 Jovenes De Antano CR_SC_9 642083.447 4079794 68460.0091 87.58 127 1.5 ANNUAL ALL 1 Workplace CR_WP_1 648949 4077938 2626229.0331 189.45 259 1.5 ANNUAL ALL 1 Nearest Workplace CR_WP_2 647744 4079173 797835.7235 155.2 155.2 1.5 ANNUAL ALL 1 Nearest Workplace CR_WP_2 647744 4079573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 651344 4075573 115506.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 661414 4079173 885660.2361 165.9 165.9 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 661414 4079173 885660.2361 165.9 165.9 1.5 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078773 107468.98045 146.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4077973 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 16 G16 648144 40776773 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 17 G17 | | 4078389 | 104098.0310 | 98.2 | 98.2 | | | | 1 | | |
| 642961.07 4078621 76552.6317 92 92 1.5 ANNUAL ALL 1 Rancho San Justo Middle School CR SC 4 643980.02 4079743 126536.4283 88 88 1.5 ANNUAL ALL 1 Marguerite Maze Middle School CR SC 5 641630.17 4079153 63445.4558 85 85 1.5 ANNUAL ALL 1 Hollister Prep School CR SC 6 643350.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Ladd Lane Elementary School CR SC 7 644002.96 4080079 137832.7647 87 87 1.5 ANNUAL ALL 1 Gabian Hills Elementary School CR SC 8 642244.858 4078413 56669.4117 90.17 90.17 1.5 ANNUAL ALL 1 San Benito High School CR SC 9 642083.447 4079794 68460.0091 87.58 127 1.5 ANNUAL ALL 1 Jovenes De Antano CR SR 1 646402 4076879 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Workplace CR WP 1 646402 4076879 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Nearest Workplace CR WP 2 647744 4079173 797835.7235 155.2 155.2 15.5 ANNUAL ALL 1 Grid Receptor 1 G1 6647744 4075573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 651344 4075573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4078773 1074638.5801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078773 1074638.5801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4078773 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4078773 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4078773 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4078773 121016.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077873 989983.8066 166.6 179 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077873 989983.8066 166.6 179 1.5 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4077873 54724.7956 177.1 240 1.5 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076773 54724.7956 177.1 240 1.5 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4076773 54724.7956 177.1 240 1.5 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4076773 54724.7956 177.1 240 1.5 ANNUAL ALL 1 Grid Receptor 19 G19 | 643920.12 | 4077304 | 76146.8125 | 101.23 | 101.23 | 1.5 | ANNUAL | ALL | 1 | Hollister Montessori School | CR SC 3 |
| 641630.17 4079153 63445.4558 85 85 1.5 ANNUAL ALL 1 Hollister Prep Schoo CR_SC_6 643350.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Ladd Lane Elementary School CR_SC_7 644002.96 4080079 137832.7647 87 87 87 1.5 ANNUAL ALL 1 Gabian Hills Elementary School CR_SC_8 642244.858 4078413 5669.4117 90.17 90.17 1.5 ANNUAL ALL 1 San Benito High School CR_SC_8 642083.447 4079794 68460.0091 87.58 127 1.5 ANNUAL ALL 1 Jovenes De Antano CR_SR_1 646402 4076879 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Workplace CR_WP_1 648949 4077938 2626229.0331 189.45 259 1.5 ANNUAL ALL 1 Nearest Workplace CR_WP_2 647744 4079573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 1 GI 651344 4075573 115506.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 10 GI0 651344 4078773 115506.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 11 GI1 648144 4078773 1207648.9045 146.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 12 GI2 648144 4078773 1207648.9045 146.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 12 GI2 648144 4078773 1207648.9045 146.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 14 GI4 648144 4078773 120106.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 GI5 648144 4077973 1210106.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 14 GI4 648144 4078773 1207648.9045 146.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 15 GI5 648144 4077973 1210106.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 GI5 648144 4077713 731732.7930 175.4 175.4 1.5 ANNUAL ALL 1 Grid Receptor 16 GI6 648144 4076373 542724.7956 177.1 240 1.5 ANNUAL ALL 1 Grid Receptor 17 GI7 648144 4076373 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 17 GI7 648144 4076373 359888.2893 173 240 1.5 ANNUAL ALL 1 Grid Receptor 18 GI8 648144 4076373 359888.2893 173 240 1.5 ANNUAL ALL 1 Grid Receptor 19 GI9 | | | | | | | | | 1 | | |
| 641630.17 4079153 63445.4558 85 85 1.5 ANNUAL ALL 1 Hollister Prep Schoo CR_SC_6 643350.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Ladd Lane Elementary School CR_SC_7 644002.96 4080079 137832.7647 87 87 87 1.5 ANNUAL ALL 1 Gabilan Hills Elementary School CR_SC_8 642244.858 4078413 5669.4117 90.17 90.17 1.5 ANNUAL ALL 1 San Benito High School CR_SC_8 642083.447 4079794 68460.0091 87.58 127 1.5 ANNUAL ALL 1 Jovenes De Antano CR_SR_1 646402 4076879 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Workplace CR_WP_1 648949 4077938 2626229.0331 189.45 259 1.5 ANNUAL ALL 1 Nearest Workplace CR_WP_2 647744 4079573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 1 G1 651344 4075573 1155066.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 651344 4078573 115506.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 11 G1 648144 4078773 1207648.9045 146.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078773 1207648.9045 146.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078773 1207648.9045 146.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078773 120106.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4078773 1210106.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 1210106.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4078773 731732.7930 175.4 175.4 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077713 731732.7930 175.4 175.4 1.5 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076773 542724.7956 177.1 240 1.5 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076733 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076733 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4076373 359888.2893 173 240 1.5 ANNUAL ALL 1 Grid Receptor 19 G19 | 643980.02 | 4079743 | 126536.4283 | 88 | 88 | 1.5 | ANNUAL | ALL | 1 | Marguerite Maze Middle School | CR SC 5 |
| 643350.03 4077181 60510.6093 98.22 98.22 1.5 ANNUAL ALL 1 Ladd Lane Elementary School CR_SC_7 644002.96 4080079 137832.7647 87 87 1.5 ANNUAL ALL 1 Gabilan Hills Elementary School CR_SC_8 642244.858 4078413 56669.4117 90.17 90.17 1.5 ANNUAL ALL 1 San Benito High School CR_SC_9 642083.447 4079794 68460.0091 87.58 127 1.5 ANNUAL ALL 1 Jovenes De Antano CR_SC_9 646402 4076879 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Workplace CR_WP_1 648949 4077938 2626229.0331 189.45 259 1.5 ANNUAL ALL 1 Nearest Workplace CR_WP_2 647744 4079173 797835.7235 155.2 155.2 1.5 ANNUAL ALL 1 Grid Receptor 1 GI | 641630.17 | 4079153 | 63445.4558 | 85 | 85 | 1.5 | ANNUAL | ALL | 1 | | CR SC 6 |
| 644002.96 4080079 137832.7647 87 87 1.5 ANNUAL ALL 1 Gabilan Hills Elementary School CR_SC_8 642244.858 4078413 56669.4117 90.17 1.5 ANNUAL ALL 1 San Benito High School CR_SC_9 642083.447 4079794 68460.0091 87.58 127 1.5 ANNUAL ALL 1 Jovenes De Antano CR_SR_1 642040.2 4076879 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Workplace CR_WP_1 648949 4077938 262629.0331 189.45 259 1.5 ANNUAL ALL 1 Nearest Workplace CR_WP_1 647744 4079173 797835.7235 155.2 155.2 1.5 ANNUAL ALL 1 Grid Receptor 1 GI 647744 4075573 213566.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 10 GI0 648144 407917 | 643350.03 | 4077181 | 60510.6093 | 98.22 | 98.22 | 1.5 | ANNUAL | ALL | 1 | Ladd Lane Elementary School | |
| 642244.858 4078413 56669.4117 90.17 90.17 1.5 ANNUAL ALL 1 San Benito High School CR_SC_9 642083.447 4079794 68460.0091 87.58 127 1.5 ANNUAL ALL 1 Jovenes De Antano CR_SR_1 646402 4076879 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Workplace CR_WP_1 648949 4077938 2626229.0331 189.45 259 1.5 ANNUAL ALL 1 Nearest Workplace CR_WP_2 MIE 647744 4079173 797835.7235 155.2 155.2 1.5 ANNUAL ALL 1 Grid Receptor 1 GI 647744 4075573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 1 GIO 64144 4075573 1155066.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 10 GIO 648144 </td <td>644002.96</td> <td></td> <td></td> <td>87</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> | 644002.96 | | | 87 | | | | | 1 | | |
| 642083.447 4079794 68460.0091 87.58 127 1.5 ANNUAL ALL 1 Jovenes De Antano CR_SR_1 646402 4076879 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Workplace CR_WP_1 648949 4077938 2626229.0331 189.45 259 1.5 ANNUAL ALL 1 Nearest Workplace CR_WP_2 647744 4079173 79785.7225 155.2 155.2 1.5 ANNUAL ALL 1 Grid Receptor 1 GI 647744 4079173 79785.7225 155.2 1.5 ANNUAL ALL 1 Grid Receptor 1 GI 647744 4075573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 10 GI0 648144 4079173 885660.2361 165.9 165.9 1.5 ANNUAL ALL 1 Grid Receptor 10 GI1 648144 407873 1074638.5801 | 642244.858 | | | 90.17 | 90.17 | | | | 1 | | |
| 646402 4076879 171802.3314 146.33 153 1.5 ANNUAL ALL 1 Workplace CR_WP_1 648949 4077938 2626229.0331 189.45 259 1.5 ANNUAL ALL 1 Nearest Workplace CR_WP_2 647744 4079173 797835.7235 155.2 155.2 1.5 ANNUAL ALL 1 Grid Receptor 1 G1 647744 4075573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 651344 4075573 1155066.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4078773 1074638.5801 165.9 1.5 ANNUAL ALL 1 Grid Receptor 11 G11 648144 4078773 1207648.9045 146.2 1.5 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 1210106.1395 158.3 | 642083.447 | | 68460.0091 | 87.58 | 127 | | | | 1 | Jovenes De Antano | |
| 648949 4077938 2626229.0331 189.45 259 1.5 ANNUAL ALL 1 Nearest Workplace CR WP 2 MIE 647744 4079173 797835.7235 155.2 155.2 1.5 ANNUAL ALL 1 Grid Receptor 1 G1 647744 4075573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 651344 4075573 1155066.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 100 G100 648144 4079173 885660.2361 165.9 1.5 ANNUAL ALL 1 Grid Receptor 11 G11 648144 4078773 1074638.5801 159.6 1.5 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078373 1207648.9045 146.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 1210106.1395 </td <td></td> <td></td> <td></td> <td></td> <td>153</td> <td></td> <td>ANNUAL</td> <td></td> <td>1</td> <td>Workplace</td> <td></td> | | | | | 153 | | ANNUAL | | 1 | Workplace | |
| 647744 4079173 797835.7235 155.2 155.2 1.5 ANNUAL ALL 1 Grid Receptor 1 G1 647744 4075573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 651344 4075573 1155066.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 100 G100 648144 4079173 885660.2361 165.9 165.9 1.5 ANNUAL ALL 1 Grid Receptor 11 G11 648144 4078773 1074638.5801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078773 1207648.9045 146.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 1210106.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4077773 | | | | 189.45 | | | | | 1 | | |
| 647744 4075573 231456.6237 160 160 1.5 ANNUAL ALL 1 Grid Receptor 10 G10 651344 4075573 1155066.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 100 G100 648144 4079173 885660.2361 165.9 165.9 1.5 ANNUAL ALL 1 Grid Receptor 11 G11 648144 4078773 1074638.5801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078373 1207648.9045 146.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 1210106.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4077573 989983.8066 166.6 179 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4076773 | | | 797835.7235 | 155.2 | 155.2 | | | ALL | 1 | Grid Receptor 1 | G1 |
| 651344 4075573 1155066.1265 252.9 252.9 1.5 ANNUAL ALL 1 Grid Receptor 100 G100 648144 4079173 885660.2361 165.9 165.9 1.5 ANNUAL ALL 1 Grid Receptor 11 G11 648144 4078773 1074638.5801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078373 1207648.9045 146.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 1210106.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077573 989983.8066 166.6 179 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4076773 731732.7930 175.4 175.4 1.5 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076773 | | 4075573 | 231456.6237 | 160 | 160 | 1.5 | ANNUAL | ALL | 1 | | G10 |
| 648144 4079173 885660.2361 165.9 165.9 1.5 ANNUAL ALL 1 Grid Receptor 11 G11 648144 4078773 1074638.5801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078373 1207648.9045 146.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 1210106.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4077573 989983.8066 166.6 179 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077173 731732.7930 175.4 175.4 1.5 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076773 542724.7956 177.1 240 1.5 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4075973 | | | 1155066.1265 | | | | | | 1 | | |
| 648144 4078773 1074638.5801 159.6 159.6 1.5 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078373 1207648.9045 146.2 146.2 1.5 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 1210106.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4077573 989983.8066 166.6 179 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077173 731732.7930 175.4 175.4 1.5 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076773 542724.7956 177.1 240 1.5 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4075973 | | | | | | | | | 1 | | |
| 648144 4078373 1207648.9045 146.2 1.5 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 1210106.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4077573 989983.8066 166.6 179 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077173 731732.7930 175.4 175.4 1.5 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076773 542724.7956 177.1 240 1.5 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4075973 359888.2893 173 240 1.5 ANNUAL ALL 1 Grid Receptor 19 G19 | | | | 159.6 | 159.6 | 1.5 | | | 1 | | G12 |
| 648144 4077973 1210106.1395 158.3 181 1.5 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4077573 989983.8066 166.6 179 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077173 731732.7930 175.4 175.4 1.5 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076773 542724.7956 177.1 240 1.5 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4075973 359888.2893 173 240 1.5 ANNUAL ALL 1 Grid Receptor 19 G19 | | 4078373 | 1207648.9045 | 146.2 | 146.2 | 1.5 | ANNUAL | ALL | 1 | <u>.</u> | G13 |
| 648144 4077573 989983.8066 166.6 179 1.5 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077173 731732.7930 175.4 175.4 1.5 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076773 542724.7956 177.1 240 1.5 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4075973 359888.2893 173 240 1.5 ANNUAL ALL 1 Grid Receptor 19 G19 | | | | | | | | | 1 | | |
| 648144 4077173 731732.7930 175.4 175.4 1.5 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076773 542724.7956 177.1 240 1.5 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4075973 359888.2893 173 240 1.5 ANNUAL ALL 1 Grid Receptor 19 G19 | | | | | | | | | | | |
| 648144 4076773 542724.7956 177.1 240 1.5 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4075973 359888.2893 173 240 1.5 ANNUAL ALL 1 Grid Receptor 19 G19 | | | | | | | | | 1 | | |
| 648144 4076373 438642.7891 178 240 1.5 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4075973 359888.2893 173 240 1.5 ANNUAL ALL 1 Grid Receptor 19 G19 | | | | | | | | | 1 | | |
| 648144 4075973 359888.2893 173 240 1.5 ANNUAL ALL 1 Grid Receptor 19 G19 | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | 1 | | |

08/28/21

08/28/21

* AERMET (21112): 2020

10:44:48

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

| * X | | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRSNET ID | Description | ID |
|--------|---------|--------------|-------|-------|-------|--------|-----|---------------|------------------|-----|
| 648144 | 4075573 | 292230.9697 | 168.8 | 190 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 867146.7227 | 173.5 | 191 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 1194786.5239 | 166.2 | 166.2 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 1534489.3036 | 145.4 | 253 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 1891677.0318 | 173.9 | 214 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 1885967.6172 | 179.6 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 1373485.3177 | 191 | 226 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 1073169.7477 | 209.2 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 756258.1174 | 233.7 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 547774.8463 | 199.9 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 867917.3131 | 144.4 | 144.4 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 426174.4533 | 195.5 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 838317.7275 | 190.4 | 194 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 1133214.4968 | 165.4 | 165.4 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 1718009.9124 | 159.6 | 259 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 2500480.7800 | 183.5 | 259 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 4786842.2665 | 224 | 226 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 1259261.6551 | 205 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 901896.3436 | 208.8 | 220 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 749202.8876 | 134.6 | 181 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 544671.4729 | 185.6 | 300 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 631478.9883 | 187.4 | 801 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 927346.5638 | 160.9 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 1787791.6545 | 200.5 | 221 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 3498029.4545 | 229 | 253 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 1863870.0578 | 253.3 | 259 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 4029758.3326 | 220.2 | 263 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 1684595.7772 | 227.2 | 227.2 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 613951.0496 | 163.8 | 171 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 956035.3087 | 205.5 | 300 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 50 | G50 |
| 649744 | 4078773 | 726316.4829 | 195 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 1228574.7893 | 196.1 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 3188020.5715 | 215.3 | 251 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 8446453.2252 | 221.6 | 259 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 8815825.6563 | 211.7 | 266 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 2339803.4505 | 237.7 | 257 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 474829.4768 | 158.4 | 171 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 1484831.5789 | 204.2 | 300 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 60 | G60 |
| 650144 | 4078773 | 430571.0601 | 171 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 789266.8632 | 204.6 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 63 | G63 |

08/28/21

* AERMET (21112): 2020

10:44:48

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRSNET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------------|-----------------------|-----|
| 650144 | 4077973 | 1771078.2300 | 216.5 | 290 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 1463551.8044 | 257.7 | 257.7 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 6209847.3298 | 231.4 | 272 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 2009485.6744 | 249.4 | 266 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 360329.5731 | 164.7 | 164.7 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 2122515.8648 | 216.4 | 300 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 70 | G70 |
| 650544 | 4078773 | 299477.8344 | 180.9 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 463653.5809 | 196.6 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 649694.8126 | 236.9 | 801 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 330020.2866 | 261.3 | 287 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 2108203.2815 | 260.9 | 260.9 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 3420331.6725 | 226.7 | 287 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 314458.8037 | 164 | 164 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 892740.0620 | 268.2 | 287 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 80 | G80 |
| 650944 | 4078773 | 228023.5633 | 178.4 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 379274.8574 | 214.8 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 206548.7494 | 249.9 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 172554.0045 | 276.5 | 296 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 2669771.5676 | 225.6 | 296 | 1.5 | ANNUAL | | 1 | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 4997213.4039 | 219.8 | 267 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 3801649.8837 | 209.2 | 273 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 2840239.2734 | 216.6 | 287 | 1.5 | ANNUAL | | 1 | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 278870.0030 | 160.7 | 160.7 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 1667380.1515 | 243.2 | 289 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 90 | G90 |
| 651344 | 4078773 | 191044.6189 | 181 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 258048.3389 | 214.3 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 192259.1121 | 248.4 | 826 | 1.5 | ANNUAL | | 1 | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 651827.5517 | 213.2 | 826 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 1373515.9874 | 213.6 | 813 | 1.5 | ANNUAL | | 1 | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 1873447.4344 | 203.5 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 2125002.5160 | 205.6 | 220 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 1966345.1879 | 205.8 | 269 | 1.5 | ANNUAL | | 1 | Grid Receptor 99 | G99 |
| 648584.24 | 4077523 | 1989966.6529 | 183.61 | 227 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 1 | P1 |
| 649484.05 | 4077537 | 1924587.7889 | 254.01 | 257 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 10 | P10 |
| 649584.03 | 4077539 | 5107330.4330 | 235.3 | 259 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 11 | P11 |
| 649684.02 | 4077540 | 8697826.6348 | 221.29 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 9552582.2238 | 222.37 | 260 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 13 | P13 |
| 649883.99 | 4077542 | 6343733.7548 | 233.6 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 14 | P14 |
| 649983.97 | 4077543 | 2649764.2831 | 249.54 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 15 | P15 |
| 650083.94 | 4077546 | 1743951.5638 | 258.89 | 258.89 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 16 | P16 |

* AERMOD (19191): Appendix B Attachment - Future Peak Emissions for Closure Area

10:44:48

* AERMET (21112): 2020

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 284 RECEPTORS.
- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | I OIU | 1A1. (A,1A | .,5(1A,F15.5),5(1A,F6.2 | 2),2A,A0,2A,F | | л,но) | | | | | |
|-----|--------|------------|-------------------------|---------------|--------|-------|--------|-----|----------------|-----------------------|-----|
| * | | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 650 | 183.91 | 4077548 | 1425525.7643 | 259.56 | 259.56 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 17 | P17 |
| 650 | 283.87 | 4077550 | 972989.4454 | 256.77 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 18 | P18 |
| 650 | 383.84 | 4077552 | 1364128.1339 | 242.37 | 290 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 19 | P19 |
| 648 | 684.22 | 4077525 | 2520186.5095 | 197.16 | 227 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 2 | P2 |
| 650 | 483.81 | 4077554 | 1034774.8590 | 242.23 | 296 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 20 | P20 |
| 650 | 583.78 | 4077557 | 354092.0340 | 259.71 | 290 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 21 | P21 |
| 650 | 683.75 | 4077559 | 349138.2503 | 257.58 | 296 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 22 | P22 |
| 650 | 776.81 | 4077554 | 237923.0870 | 267.9 | 296 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 23 | P23 |
| 650 | 778.91 | 4077454 | 282692.5881 | 275.91 | 275.91 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 24 | P24 |
| 65 | 50781 | 4077354 | 520798.0646 | 265.73 | 281 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 25 | P25 |
| 650 | 0783.1 | 4077254 | 1183650.5565 | 251.08 | 282 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 26 | P26 |
| 650 | 785.19 | 4077154 | 1684639.2064 | 252.83 | 281 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 27 | P27 |
| 650 | 787.29 | 4077054 | 2963008.0636 | 246.1 | 269 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 28 | P28 |
| 650 | 789.38 | 4076954 | 4243191.6615 | 241.37 | 269 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 29 | P29 |
| 648 | 784.19 | 4077527 | 3477801.6744 | 209.74 | 209.74 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 3 | Р3 |
| 650 | 791.48 | 4076854 | 3994436.8711 | 246.79 | 251 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 30 | P30 |
| 650 | 793.57 | 4076754 | 7405138.5438 | 228.75 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 31 | P31 |
| | 754.39 | 4076683 | 8171105.4065 | 217.76 | 271 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 32 | P32 |
| 650 | 660.22 | 4076650 | 9158906.6320 | 221.2 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 33 | P33 |
| 650 | 561.43 | 4076650 | 10182226.7110 | 220.83 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 34 | P34 |
| 650 | 462.72 | 4076666 | 11091636.8316 | 223.42 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 35 | P35 |
| 650 | 364.01 | 4076682 | 11867135.9941 | 222.46 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 36 | P36 |
| 650 | 264.24 | 4076683 | 11720412.8944 | 223.19 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 37 | P37 |
| 650 | 164.71 | 4076674 | 11981783.5501 | 222.1 | 249 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 38 | P38 |
| 650 | 0065.8 | 4076660 | 12772615.1697 | 217.03 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 39 | P39 |
| 648 | 884.17 | 4077529 | 4398592.1960 | 214.25 | 227 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 4 | P4 |
| 649 | 980.44 | 4076627 | 13274386.1941 | 214.82 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 40 | P40 |
| 649 | 920.26 | 4076547 | 13209557.7165 | 214.91 | 264 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 41 | P41 |
| 649 | 852.19 | 4076474 | 12197408.4885 | 214.09 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 42 | P42 |
| | 770.68 | 4076417 | 10338789.1676 | 211.53 | 266 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 43 | P43 |
| _ | 680.48 | 4076375 | 8621656.0021 | 210.17 | 266 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 44 | P44 |
| | 580.91 | 4076368 | 6915885.7891 | 208.52 | 264 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 45 | P45 |
| 649 | 482.48 | 4076384 | 5507351.4108 | 207.5 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 46 | P46 |
| | 391.59 | 4076425 | 4737226.5644 | 205.17 | 264 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 47 | P47 |
| _ | 9303.5 | 4076472 | 3822156.4314 | 202.16 | 264 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 48 | P48 |
| | 226.19 | 4076535 | 3227166.5081 | 196.38 | 264 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 49 | P49 |
| _ | 984.14 | 4077530 | 5313596.6615 | 221.41 | 221.41 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 5 | P5 |
| | 9156.2 | 4076605 | 2928999.3898 | 195.87 | 264 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 50 | P50 |
| | 068.25 | 4076653 | 2368170.6189 | 196.32 | 264 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 51 | P51 |
| | 3986.7 | 4076711 | 2053121.1150 | 192.42 | 263 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 52 | P52 |
| | | | | | | | | | | | |

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08/28/21

* AERMET (21112): 2020

10:44:48

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRSNET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------------|-----------------------|-------|
| 648936.53 | 4076759 | 1935541.0467 | 192.46 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 53 | P53 |
| 648868.58 | 4076833 | 1816425.8006 | 191.63 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 54 | P54 |
| 648797.23 | 4076902 | 1681187.3697 | 186.32 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 55 | P55 |
| 648710.56 | 4076952 | 1469703.9127 | 179.81 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 56 | P56 |
| 648620.79 | 4076996 | 1279309.6048 | 176.23 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 57 | P57 |
| 648607.19 | 4077051 | 1312307.9524 | 175.02 | 250 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 58 | P58 |
| 648680.07 | 4077119 | 1666075.8685 | 180.62 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 59 | P59 |
| 649084.12 | 4077532 | 5765785.8782 | 216.54 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 6 | P6 |
| 648759.24 | 4077180 | 2203142.1447 | 183.47 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 60 | P60 |
| 648791.44 | 4077262 | 2809860.0903 | 202.88 | 245 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 61 | P61 |
| 648788.45 | 4077362 | 2758152.0221 | 178.21 | 259 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 62 | P62 |
| 648691.25 | 4077361 | 2221152.2106 | 176.25 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 63 | P63 |
| 648591.35 | 4077357 | 1799337.3542 | 176 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 64 | P64 |
| 648525.69 | 4077371 | 1596439.0125 | 175.24 | 245 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 65 | P65 |
| 648586.93 | 4077430 | 1885381.0926 | 175.13 | 259 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 66 | P66 |
| 649184.09 | 4077534 | 5421702.0776 | 230.71 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 7 | P7 |
| 649284.08 | 4077535 | 2409998.0155 | 248.08 | 259 | 1.5 | ANNUAL | | 1 | Boundary Perimeter 8 | P8 |
| 649384.06 | 4077536 | 1569458.9039 | 258.43 | 258.43 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 196847.6275 | 127.38 | 127.38 | 1.5 | ANNUAL | | 1 | New Development | RP_G1 |
| 646030 | 4077983 | 207985.7901 | 131.21 | 131.21 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4077983 | 220161.6082 | 135.89 | 135.89 | 1.5 | ANNUAL | | 1 | New Development | RP_G1 |
| 646230 | 4077983 | 233259.0525 | 139.18 | 139.18 | 1.5 | ANNUAL | | 1 | New Development | RP_G1 |
| 646330 | 4077983 | 247318.9771 | 140.76 | 140.76 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4077983 | 263022.9959 | 143.89 | 143.89 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4077983 | 280129.5203 | 145.22 | 145.22 | 1.5 | ANNUAL | | 1 | New Development | RP_G1 |
| 646630 | 4077983 | 299230.8353 | 147.21 | 147.21 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4077983 | 320069.6204 | 148.3 | 160 | 1.5 | ANNUAL | | 1 | New Development | RP_G1 |
| 645930 | 4078083 | 205286.0258 | 127.58 | 127.58 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078083 | 216586.9183 | 130.56 | 130.56 | 1.5 | ANNUAL | | 1 | New Development | RP_G1 |
| 646130 | 4078083 | 228872.1381 | 134.35 | 134.35 | 1.5 | ANNUAL | | 1 | New Development | RP_G1 |
| 646230 | 4078083 | 242478.3933 | 139.22 | 139.22 | 1.5 | ANNUAL | | 1 | New Development | RP_G1 |
| 646330 | 4078083 | 257741.2827 | 144.65 | 144.65 | 1.5 | ANNUAL | | 1 | New Development | RP_G1 |
| 646430 | 4078083 | 273214.0878 | 142.28 | 142.28 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4078083 | 291574.4294 | 146.76 | 146.76 | 1.5 | ANNUAL | | 1 | New Development | RP_G1 |
| 646630 | 4078083 | 311645.5622 | 150.64 | 150.64 | 1.5 | ANNUAL | | 1 | New Development | RP_G1 |
| 646730 | 4078083 | 333986.2897 | 155.4 | 157 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078183 | 212438.4830 | 127.22 | 127.22 | 1.5 | ANNUAL | | 1 | New Development | RP_G1 |
| 646030 | 4078183 | 223901.8095 | 130.56 | 130.56 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078183 | 236551.7922 | 133.89 | 133.89 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078183 | 251050.1337 | 140.45 | 140.45 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |

* AERMOD (19191): Appendix B Attachment - Future Peak Emissions for Closure Area

10:44:48

* AERMET (21112): 2020

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 284 RECEPTORS.
- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-----------------|--------|
| 646330 | 4078183 | 267388.0330 | 146.94 | 146.94 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078183 | 282462.0958 | 140.23 | 140.23 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646530 | 4078183 | 301582.2905 | 147.25 | 147.25 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646630 | 4078183 | 322027.6053 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646730 | 4078183 | 345722.4148 | 157.78 | 166 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 645930 | 4078283 | 218350.5437 | 126.06 | 126.06 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078283 | 230440.4455 | 129.56 | 129.56 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078283 | 243800.7443 | 132.89 | 132.89 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078283 | 258848.4590 | 139.24 | 139.24 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4078283 | 274782.6230 | 142.68 | 142.68 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078283 | 290766.0312 | 140.02 | 140.02 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4078283 | 310129.6313 | 147.22 | 147.22 | 1.5 | ANNUAL | | 1 | New Development | RP_G1 |
| 646630 | 4078283 | 331179.3173 | 151.56 | 151.56 | 1.5 | ANNUAL | | 1 | New Development | RP_G1 |
| 646730 | 4078283 | 355507.7748 | 156.78 | 166 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 648659.32 | 4077241 | 2119482.7561 | 205.79 | 205.79 | 1.5 | ANNUAL | ALL | 1 | House 1 | RP_H1 |
| 648071.24 | 4076116 | 374915.8442 | 169.6 | 240 | 1.5 | ANNUAL | | 1 | House 10 | RP_H10 |
| 648247.37 | 4076278 | 473324.5835 | 184.55 | 240 | 1.5 | ANNUAL | | 1 | House 11 | RP_H11 |
| 648027.19 | 4076255 | 378837.7467 | 169.38 | 240 | 1.5 | ANNUAL | ALL | 1 | House 12 | RP_H12 |
| 648065.77 | 4076359 | 405751.2792 | 173.83 | 240 | 1.5 | ANNUAL | | 1 | House 13 | RP_H13 |
| 648138.68 | 4076400 | 441553.5615 | 178.22 | 240 | 1.5 | ANNUAL | ALL | 1 | House 14 | RP_H14 |
| 648254.71 | 4076411 | 514328.0122 | 191.28 | 240 | 1.5 | ANNUAL | | 1 | House 15 | RP_H15 |
| 647877.81 | 4076365 | 347406.4245 | 165.39 | 240 | 1.5 | ANNUAL | | 1 | House 16 | RP_H16 |
| 647520 | 4076206 | 259973.5073 | 159 | 159 | 1.5 | ANNUAL | | 1 | House 17 | RP_H17 |
| 647921 | 4076247 | 346710.8134 | 164 | 240 | 1.5 | ANNUAL | | 1 | House 18 | RP_H18 |
| 647708.78 | 4076352 | 304619.5631 | 163.52 | 163.52 | 1.5 | ANNUAL | | 1 | House 19 | RP_H19 |
| 648371.71 | 4075470 | 323588.2197 | 173.69 | 227 | 1.5 | ANNUAL | | 1 | House 2 | RP_H2 |
| 647703.58 | 4076251 | 296362.5660 | 162.17 | 162.17 | 1.5 | ANNUAL | | 1 | House 20 | RP_H20 |
| 647718.77 | 4076104 | 291665.6899 | 159.35 | 159.35 | 1.5 | ANNUAL | | 1 | House 21 | RP_H21 |
| 647843.32 | 4076125 | 318680.6559 | 163 | 234 | 1.5 | ANNUAL | | 1 | House 22 | RP_H22 |
| 647842.26 | 4076500 | 353168.1034 | 167.93 | 167.93 | 1.5 | ANNUAL | | 1 | House 23 | RP_H23 |
| 647727.75 | 4076644 | 346250.6262 | 164.15 | 164.15 | 1.5 | ANNUAL | | 1 | House 24 | RP_H24 |
| 647823.91 | 4076644 | 375633.0223 | 168.29 | 168.29 | 1.5 | ANNUAL | | 1 | House 25 | RP_H25 |
| 647530 | 4076497 | 279805.1048 | 159.56 | 159.56 | 1.5 | ANNUAL | | 1 | House 26 | RP_H26 |
| 647810.11 | 4076854 | 390491.9866 | 162.9 | 162.9 | 1.5 | ANNUAL | | 1 | House 27 | RP_H27 |
| 647697.48 | 4076989 | 400519.8885 | 161.42 | 162 | 1.5 | ANNUAL | | 1 | House 28 | RP_H28 |
| 648225.5 | 4076182 | 445244.0488 | 183.22 | 240 | 1.5 | ANNUAL | | 1 | House 29 | RP_H29 |
| 647678.23 | 4075969 | 268463.2024 | 159.5 | 159.5 | 1.5 | ANNUAL | | 1 | House 3 | RP_H3 |
| 645876.32 | 4077487 | 165962.3619 | 127.13 | 142 | 1.5 | ANNUAL | | 1 | House 30 | RP_H30 |
| 650902 | 4076062 | 3138585.6440 | 215.24 | 287 | 1.5 | ANNUAL | | 1 | House 31 | RP_H31 |
| 651490 | 4076597 | 1672808.9198 | 205.5 | 813 | 1.5 | ANNUAL | ALL | 1 | House 32 | RP_H32 |

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08/28/21

* AERMET (21112): 2020

10:44:48

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-------------|--------|
| 651565 | 4077067 | 1199336.5717 | 213.93 | 813 | 1.5 | ANNUAL | ALL | 1 | House 33 | RP H33 |
| 648672.77 | 4075307 | 474148.2560 | 225.91 | 227 | 1.5 | ANNUAL | ALL | 1 | House 34 | RP H34 |
| 648383.6 | 4075469 | 326381.8082 | 174.44 | 227 | 1.5 | ANNUAL | ALL | 1 | House 35 | RP H35 |
| 646379.37 | 4077233 | 187928.7316 | 146 | 146 | 1.5 | ANNUAL | ALL | 1 | House 36 | RP H36 |
| 651849.72 | 4075865 | 1181925.4555 | 201.97 | 333 | 1.5 | ANNUAL | ALL | 1 | House 37 | RP H37 |
| 652045.49 | 4076210 | 949974.7124 | 196.88 | 813 | 1.5 | ANNUAL | ALL | 1 | House 38 | RP_H38 |
| 652255.69 | 4076391 | 756268.7728 | 197.06 | 813 | 1.5 | ANNUAL | ALL | 1 | House 39 | RP_H39 |
| 647815.25 | 4075985 | 292878.8589 | 162.04 | 162.04 | 1.5 | ANNUAL | ALL | 1 | House 4 | RP_H4 |
| 646853.73 | 4077373 | 269804.7088 | 145.99 | 145.99 | 1.5 | ANNUAL | ALL | 1 | House 40 | RP_H40 |
| 647050.21 | 4077360 | 304072.9463 | 145 | 145 | 1.5 | ANNUAL | ALL | 1 | House 41 | RP_H41 |
| 647286.42 | 4077474 | 377515.2083 | 149.68 | 153 | 1.5 | ANNUAL | ALL | 1 | House 42 | RP_H42 |
| 647359.05 | 4077340 | 375921.9389 | 154.45 | 159 | 1.5 | ANNUAL | ALL | 1 | House 43 | RP_H43 |
| 647490.41 | 4077329 | 416183.7622 | 162.28 | 162.28 | 1.5 | ANNUAL | ALL | 1 | House 44 | RP_H44 |
| 647522.17 | 4077252 | 410347.9182 | 164.3 | 164.3 | 1.5 | ANNUAL | ALL | 1 | House 45 | RP_H45 |
| 647517.82 | 4077139 | 384843.5010 | 164.01 | 164.01 | 1.5 | ANNUAL | ALL | 1 | House 46 | RP_H46 |
| 646819.01 | 4077258 | 246943.7596 | 151.53 | 152 | 1.5 | ANNUAL | ALL | 1 | House 47 | RP_H47 |
| 646778.72 | 4077128 | 226871.1890 | 158.51 | 158.51 | 1.5 | ANNUAL | ALL | 1 | House 48 | RP_H48 |
| 646987.26 | 4077213 | 267524.0237 | 146.44 | 146.44 | 1.5 | ANNUAL | ALL | 1 | House 49 | RP_H49 |
| 647898.2 | 4076033 | 317293.4038 | 163.83 | 237 | 1.5 | ANNUAL | ALL | 1 | House 5 | RP_H5 |
| 647241.77 | 4077227 | 324070.6644 | 154.85 | 154.85 | 1.5 | ANNUAL | ALL | 1 | House 50 | RP_H50 |
| 646773.05 | 4077063 | 222413.2393 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | House 51 | RP_H51 |
| 647104.37 | 4077118 | 276310.2632 | 148.99 | 148.99 | 1.5 | ANNUAL | | 1 | House 52 | RP_H52 |
| 647291.9 | 4077123 | 318435.2708 | 158.62 | 158.62 | 1.5 | ANNUAL | ALL | 1 | House 53 | RP_H53 |
| 646765.24 | 4076978 | 216366.5477 | 158.67 | 158.67 | 1.5 | ANNUAL | ALL | 1 | House 54 | RP_H54 |
| 646995.65 | 4076984 | 245353.1314 | 152.34 | 152.34 | 1.5 | ANNUAL | | 1 | House 55 | RP_H55 |
| 647317.21 | 4077031 | 309411.2645 | 160.22 | 160.22 | 1.5 | ANNUAL | ALL | 1 | House 56 | RP_H56 |
| 647398.39 | 4077013 | 324422.3470 | 161.26 | 161.26 | 1.5 | ANNUAL | | 1 | House 57 | RP_H57 |
| 646978.93 | 4076904 | 233590.8233 | 156.81 | 156.81 | 1.5 | ANNUAL | ALL | 1 | House 58 | RP_H58 |
| 647015.19 | 4076807 | 222499.8858 | 156.21 | 156.21 | 1.5 | ANNUAL | | 1 | House 59 | RP_H59 |
| 648045.44 | 4076018 | 346342.9011 | 168.26 | 240 | 1.5 | ANNUAL | ALL | 1 | House 6 | RP_H6 |
| 647163.96 | 4076802 | 239926.0277 | 154.38 | 154.38 | 1.5 | ANNUAL | ALL | 1 | House 60 | RP_H60 |
| 647310.58 | 4076940 | 291288.5551 | 162.49 | 162.49 | 1.5 | ANNUAL | ALL | 1 | House 61 | RP_H61 |
| 647298.09 | 4076805 | 260375.1008 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | House 62 | RP_H62 |
| 647446.56 | 4076900 | 307198.4373 | 159.45 | 159.45 | 1.5 | ANNUAL | ALL | 1 | House 63 | RP_H63 |
| 647464.49 | 4076781 | 286193.9750 | 159.32 | 159.32 | 1.5 | ANNUAL | | 1 | House 64 | RP_H64 |
| 647512 | 4076536 | 280613.1079 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | House 65 | RP_H65 |
| 651131 | 4078767 | 210081.9509 | 179.58 | 830 | 1.5 | ANNUAL | | 1 | House 66 | RP_H66 |
| 647131 | 4077336 | 317577.6048 | 146.77 | 146.77 | 1.5 | ANNUAL | ALL | 1 | House 67 | RP_H67 |
| 646798 | 4076740 | 190576.7491 | 156.07 | 156.07 | 1.5 | ANNUAL | ALL | 1 | House 68 | RP_H68 |
| 646900 | 4076802 | 209600.0469 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | House 69 | RP_H69 |

08/28/21

* AERMET (21112): 2020

10:44:48

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRSNET ID | Description | ID |
|-----------|---------|--------------|--------|-------|-------|--------|-----|---------------|------------------|--------|
| 648126.33 | 4075955 | 350861.7992 | 171.51 | 240 | 1.5 | ANNUAL | ALL | 1 | House 7 | RP_H7 |
| 647317 | 4076662 | 248216.3076 | 159.9 | 159.9 | 1.5 | ANNUAL | ALL | 1 | House 70 | RP_H70 |
| 648249.26 | 4075970 | 395694.3868 | 183.42 | 240 | 1.5 | ANNUAL | ALL | 1 | House 8 | RP_H8 |
| 648218.58 | 4076109 | 423872.2481 | 182.28 | 240 | 1.5 | ANNUAL | ALL | 1 | House 9 | RP_H9 |
| 649744 | 4079173 | 448590.9565 | 176.1 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 51 | G51 |
| 650144 | 4079173 | 309597.4915 | 173 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 61 | G61 |
| 650544 | 4079173 | 224245.5669 | 177 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 71 | G71 |
| 650944 | 4079173 | 178632.2685 | 181.3 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 81 | G81 |
| 651344 | 4079173 | 167333.8100 | 191 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 91 | G91 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in $\mu g/m^3$.

Concetration values multiplied by a factor of 10 to convert from 0.1 lb/hr-SF to 1 lb/hr-SF for dispersion factor use.

09/01/21

* AERMET (21112): 2018

09:17:47

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
|------------|---------|--------------|--------|--------|-------|--------|-----|---------|--------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.063960 | 123.85 | 123.85 | 0 | ANNUAL | ALL | 1 | | AQ Monitoring Station | AQ_ST_1 | |
| 643903.65 | 4077719 | 0.026900 | 105.68 | 105.68 | 0 | ANNUAL | ALL | 1 | | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642056.782 | 4079416 | 0.022070 | 85.12 | 85.12 | 0 | ANNUAL | ALL | 1 | | Dunne Park | CR_PK_1 | 1 |
| 642179.095 | 4079950 | 0.022690 | 117.99 | 117.99 | 0 | ANNUAL | ALL | 1 | | Vista Park Hill Park | CR_PK_2 | |
| 644733.142 | 4078753 | 0.043560 | 106.44 | 106.44 | 0 | ANNUAL | ALL | 1 | | Las Brisas Park | CR_PK_3 | |
| 645608.808 | 4078854 | 0.054720 | 112.86 | 112.86 | 0 | ANNUAL | ALL | 1 | | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238.054 | 4078807 | 0.037760 | 95.25 | 95.25 | 0 | ANNUAL | ALL | 1 | | Veterans Memorial Park | CR_PK_5 | |
| 645311.476 | 4076559 | 0.035490 | 134.61 | 134.61 | 0 | ANNUAL | ALL | 1 | | Park 6 | CR_PK_6 | |
| 649581.689 | 4073424 | 0.047130 | 159.96 | 318 | 0 | ANNUAL | ALL | 1 | | Park 7 | CR_PK_7 | |
| 645145.11 | 4077181 | 0.037970 | 133 | 133 | 0 | ANNUAL | ALL | 1 | | Cerra Vista Elem School | CR_SC_1 | |
| 642904.712 | 4079955 | 0.024990 | 86 | 86 | 0 | ANNUAL | ALL | 1 | | San Andreas Continuation | CR_SC_10 | |
| 645850.678 | 4074015 | 0.017380 | 123 | 313 | 0 | ANNUAL | ALL | 1 | | SouthSide School | CR_SC_11 | |
| 642105.679 | 4078176 | 0.018220 | 91 | 91 | 0 | ANNUAL | ALL | 1 | | School 12 | CR_SC_12 | |
| 646058.93 | 4078443 | 0.069190 | 128.52 | 128.52 | 0 | ANNUAL | ALL | 1 | | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.044630 | 158 | 158 | 0 | ANNUAL | ALL | 1 | | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.035070 | 159 | 240 | 0 | ANNUAL | ALL | 1 | | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644109.6 | 4078389 | 0.036850 | 98.2 | 98.2 | 0 | ANNUAL | ALL | 1 | | Sunnyslope Elem School | CR_SC_2 | |
| 643920.12 | 4077304 | 0.025780 | 101.23 | 101.23 | 0 | ANNUAL | ALL | 1 | | Hollister Montessori School | CR_SC_3 | |
| 642961.07 | 4078621 | 0.027510 | 92 | 92 | 0 | ANNUAL | ALL | 1 | | Rancho San Justo Middle School | CR_SC_4 | |
| 643980.02 | 4079743 | 0.030930 | 88 | 88 | 0 | ANNUAL | ALL | 1 | | Marguerite Maze Middle School | CR_SC_5 | |
| 641630.17 | 4079153 | 0.020580 | 85 | 85 | 0 | ANNUAL | ALL | 1 | | Hollister Prep Schoo | CR_SC_6 | |
| 643350.03 | 4077181 | 0.022120 | 98.22 | 98.22 | 0 | ANNUAL | ALL | 1 | | Ladd Lane Elementary School | CR_SC_7 | |
| 644002.96 | 4080079 | 0.028720 | 87 | 87 | 0 | ANNUAL | ALL | 1 | | Gabilan Hills Elementary School | CR_SC_8 | |
| 642244.858 | 4078413 | 0.021470 | 90.17 | 90.17 | 0 | ANNUAL | ALL | 1 | | San Benito High School | CR_SC_9 | |
| 642083.447 | 4079794 | 0.022160 | 87.58 | 127 | 0 | ANNUAL | ALL | 1 | | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.061440 | 146.33 | 153 | 0 | ANNUAL | ALL | 1 | | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 0.379410 | 189.45 | 259 | 0 | ANNUAL | ALL | 1 | | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 0.108860 | 155.2 | 155.2 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.057760 | 160 | 160 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.292800 | 252.9 | 252.9 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.117480 | 165.9 | 165.9 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.147350 | 159.6 | 159.6 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 12 | G12 | |
| 648144 | 4078373 | 0.175100 | 146.2 | 146.2 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 13 | G13 | |
| 648144 | 4077973 | 0.223340 | 158.3 | 181 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 14 | G14 | |
| 648144 | 4077573 | 0.286290 | 166.6 | 179 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 15 | G15 | |
| 648144 | 4077173 | 0.302580 | 175.4 | 175.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 16 | G16 | |
| 648144 | 4076773 | 0.208620 | 177.1 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 17 | G17 | |
| 648144 | 4076373 | 0.134900 | 178 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 18 | G18 | |
| 648144 | 4075973 | 0.088550 | 173 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 19 | G19 | |
| 647744 | 4078773 | 0.125100 | 145.4 | 145.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 2 | G2 | |
| 648144 | 4075573 | 0.068460 | 168.8 | 190 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 20 | G20 | |
| 648544 | 4079173 | 0.108440 | 173.5 | 191 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 21 | G21 | |
| 648544 | 4078773 | 0.158870 | 166.2 | 166.2 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 22 | G22 | |
| 648544 | 4078373 | 0.215030 | 145.4 | 253 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 23 | G23 | |

09/01/21

* AERMET (21112): 2018

09:17:47

MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 284 RECEPTORS.

| | | (1A,F13.3),3(1A,F8.2),2A,F | | | | | CDD | | A TROWN AND | 5 | *** |
|--------|---------|----------------------------|-------|-------|-------|----------|-----|---------|-------------|------------------|-----|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
| 648544 | 4077973 | 0.271230 | 173.9 | 214 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.384650 | 179.6 | 227 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.671050 | 191 | 226 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.404720 | 209.2 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.187990 | 233.7 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.130100 | 199.9 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.146240 | 144.4 | 144.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.086450 | 195.5 | 227 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.088340 | 190.4 | 194 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.134370 | 165.4 | 165.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.229660 | 159.6 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.364840 | 183.5 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.572310 | 224 | 226 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.373540 | 205 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.191110 | 208.8 | 220 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.175540 | 134.6 | 181 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.114440 | 185.6 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.072710 | 187.4 | 801 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.101540 | 160.9 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.179360 | 200.5 | 221 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 0.433630 | 229 | 253 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.752970 | 253.3 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.847850 | 220.2 | 263 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.299280 | 227.2 | 227.2 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.193650 | 163.8 | 171 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.181510 | 205.5 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.063670 | 176.1 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.090500 | 195 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.136590 | 196.1 | 227 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.259380 | 215.3 | 251 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.758110 | 221.6 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 1.548290 | 211.7 | 266 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.513360 | 237.7 | 257 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.180520 | 158.4 | 171 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.259280 | 204.2 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.056430 | 173 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.076500 | 171 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.116680 | 204.6 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.195610 | 216.5 | 290 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.276570 | 257.7 | 257.7 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 1.613720 | 231.4 | 272 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.628810 | 249.4 | 266 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.139540 | 164.7 | 164.7 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.372900 | 216.4 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 70 | G70 |
| 050144 | 7013313 | 0.374700 | 210.4 | 300 | U | AININUAL | ALL | 1 | | Grid Receptor 70 | 070 |

09/01/21

* AERMET (21112): 2018

09:17:47

MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 284 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-------------|----------|--------------|---------|--------|-------|-----------|-----|---------|--------|-----------------------|-----|
| 650544 | 4079173 | 0.051450 | 177 | 830 | 0 | ANNUAL | ALL | 1 | NETID | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.067440 | 180.9 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.094990 | 196.6 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.171530 | 236.9 | 801 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.172510 | 261.3 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.829150 | 260.9 | 260.9 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.677190 | 226.7 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 79 | G78 |
| 647744 | 4076373 | 0.101020 | 164 | 164 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 0.237570 | 268.2 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.045560 | 181.3 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.056160 | 178.4 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.085670 | 214.8 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.125910 | 249.9 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.083230 | 276.5 | 296 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.378330 | 225.6 | 296 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.589790 | 219.8 | 267 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.589770 | 209.2 | 273 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.504080 | 216.6 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.066490 | 160.7 | 160.7 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.371890 | 243.2 | 289 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.039510 | 191 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.049560 | 181 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.077760 | 214.3 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.113000 | 248.4 | 826 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.157710 | 213.2 | 826 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.233550 | 213.6 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.297800 | 203.5 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.338760 | 205.6 | 220 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.313820 | 205.8 | 269 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 99 | G99 |
| 649484.05 | 4077537 | 0.874600 | 254.01 | 257 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 10 | P10 |
| 649584.03 | 4077539 | 1.276500 | 235.3 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 11 | P11 |
| 649684.02 | 4077540 | 0.945710 | 221.29 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.808340 | 222.37 | 260 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 13 | P13 |
| 649883.99 | 4077542 | 0.727060 | 233.6 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 14 | P14 |
| 649983.97 | 4077543 | 0.503160 | 249.54 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 15 | P15 |
| 650083.94 | 4077546 | 0.289710 | 258.89 | 258.89 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 16 | P16 |
| 650183.91 | 4077548 | 0.252480 | 259.56 | 259.56 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 17 | P17 |
| 650283.87 | 4077550 | 0.253100 | 256.77 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 18 | P18 |
| 650383.84 | 4077552 | 0.358580 | 242.37 | 290 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 19 | P19 |
| 650483.81 | 4077554 | 0.327820 | 242.23 | 296 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 20 | P20 |
| 650583.78 | 4077557 | 0.192230 | 259.71 | 290 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 21 | P21 |
| 650683.75 | 4077559 | 0.202810 | 257.58 | 296 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 22 | P22 |
| 650776.81 | 4077554 | 0.128830 | 267.9 | 296 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 23 | P23 |
| 650778.91 | 4077454 | 0.116220 | 275.91 | 275.91 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 24 | P24 |
| 1 000,70.71 | .0,,,101 | 0.110220 | -, 5.71 | 5.71 | 9 | - I OI IL | | | | | 121 |

09/01/21

* AERMET (21112): 2018

09:17:47

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
|-----------|---------|--------------|--------|-------|-------|--------|-----|---------|--------|-----------------------|-----|-----|
| 650781 | 4077354 | 0.196490 | 265.73 | 281 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 25 | P25 | |
| 650783.1 | 4077254 | 0.370520 | 251.08 | 282 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 26 | P26 | |
| 650785.19 | 4077154 | 0.404690 | 252.83 | 281 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 27 | P27 | |
| 650787.29 | 4077054 | 0.564690 | 246.1 | 269 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 28 | P28 | |
| 650789.38 | 4076954 | 0.705280 | 241.37 | 269 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 29 | P29 | |
| 650791.48 | 4076854 | 0.756350 | 246.79 | 251 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 30 | P30 | |
| 650793.57 | 4076754 | 0.871720 | 228.75 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 31 | P31 | |
| 650754.39 | 4076683 | 0.904250 | 217.76 | 271 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 32 | P32 | |
| 650660.22 | 4076650 | 1.223700 | 221.2 | 273 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 33 | P33 | |
| 650561.43 | 4076650 | 1.715450 | 220.83 | 273 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 34 | P34 | |
| 650462.72 | 4076666 | 2.749160 | 223.42 | 273 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 35 | P35 | |
| 650364.01 | 4076682 | 4.025300 | 222.46 | 263 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 36 | P36 | |
| 650264.24 | 4076683 | 4.281390 | 223.19 | 263 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 37 | P37 | PMI |
| 650164.71 | 4076674 | 4.101910 | 222.1 | 249 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 38 | P38 | |
| 650065.8 | 4076660 | 3.806760 | 217.03 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 39 | P39 | |
| 649980.44 | 4076627 | 3.709030 | 214.82 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 40 | P40 | |
| 649920.26 | 4076547 | 3.075890 | 214.91 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 41 | P41 | |
| 649852.19 | 4076474 | 2.439700 | 214.09 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 42 | P42 | |
| 649770.68 | 4076417 | 1.872700 | 211.53 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 43 | P43 | |
| 649680.48 | 4076375 | 1.633080 | 210.17 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 44 | P44 | |
| 649580.91 | 4076368 | 1.448360 | 208.52 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 45 | P45 | |
| 649482.48 | 4076384 | 1.272570 | 207.5 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 46 | P46 | |
| 649391.59 | 4076425 | 1.375880 | 205.17 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 47 | P47 | |
| 649303.5 | 4076472 | 1.434660 | 202.16 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 48 | P48 | |
| 649226.19 | 4076535 | 1.502920 | 196.38 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 49 | P49 | |
| 649156.2 | 4076605 | 1.696370 | 195.87 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 50 | P50 | |
| 649068.25 | 4076653 | 1.470230 | 196.32 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 51 | P51 | |
| 648986.7 | 4076711 | 1.372400 | 192.42 | 263 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 52 | P52 | |
| 648936.53 | 4076759 | 1.401130 | 192.46 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 53 | P53 | |
| 648868.58 | 4076833 | 1.435640 | 191.63 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 54 | P54 | |
| 648797.23 | 4076902 | 1.447340 | 186.32 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 55 | P55 | |
| 648710.56 | 4076952 | 1.236100 | 179.81 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 56 | P56 | |
| 648620.79 | 4076996 | 0.858180 | 176.23 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 57 | P57 | |
| 648607.19 | 4077051 | 1.214590 | 175.02 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 58 | P58 | |
| 648680.07 | 4077119 | 1.046760 | 180.62 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 59 | P59 | |
| 649084.12 | 4077532 | 0.667130 | 216.54 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 6 | P6 | |
| 648759.24 | 4077180 | 0.730650 | 183.47 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 60 | P60 | |
| 648791.44 | 4077262 | 0.618390 | 202.88 | 245 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 61 | P61 | |
| 648788.45 | 4077362 | 0.524730 | 178.21 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 62 | P62 | |
| 648691.25 | 4077361 | 0.504360 | 176.25 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 63 | P63 | |
| 648591.35 | 4077357 | 0.495650 | 176 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 64 | P64 | |
| 648525.69 | 4077371 | 0.473500 | 175.24 | 245 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 65 | P65 | |
| 648586.93 | 4077430 | 0.446490 | 175.13 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 66 | P66 | |
| 649184.09 | 4077534 | 0.830450 | 230.71 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 7 | P7 | |

09/01/21

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MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 284 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------|--------|----------------------|--------|
| 649284.08 | 4077535 | 0.862000 | 248.08 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 8 | P8 |
| 649384.06 | 4077536 | 0.690470 | 258.43 | 258.43 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.068680 | 127.38 | 127.38 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646030 | 4077983 | 0.071880 | 131.21 | 131.21 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646130 | 4077983 | 0.075340 | 135.89 | 135.89 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646230 | 4077983 | 0.079010 | 139.18 | 139.18 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646330 | 4077983 | 0.082860 | 140.76 | 140.76 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646430 | 4077983 | 0.086990 | 143.89 | 143.89 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646530 | 4077983 | 0.091270 | 145.22 | 145.22 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646630 | 4077983 | 0.095800 | 147.21 | 147.21 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646730 | 4077983 | 0.100530 | 148.3 | 160 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 645930 | 4078083 | 0.069350 | 127.58 | 127.58 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646030 | 4078083 | 0.072450 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646130 | 4078083 | 0.075720 | 134.35 | 134.35 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646230 | 4078083 | 0.079180 | 139.22 | 139.22 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646330 | 4078083 | 0.082830 | 144.65 | 144.65 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646430 | 4078083 | 0.086300 | 142.28 | 142.28 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646530 | 4078083 | 0.090230 | 146.76 | 146.76 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646630 | 4078083 | 0.094380 | 150.64 | 150.64 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646730 | 4078083 | 0.098910 | 155.4 | 157 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 645930 | 4078183 | 0.069270 | 127.22 | 127.22 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646030 | 4078183 | 0.072070 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646130 | 4078183 | 0.074970 | 133.89 | 133.89 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646230 | 4078183 | 0.078100 | 140.45 | 140.45 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646330 | 4078183 | 0.081440 | 146.94 | 146.94 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646430 | 4078183 | 0.084390 | 140.23 | 140.23 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646530 | 4078183 | 0.088150 | 147.25 | 147.25 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646630 | 4078183 | 0.092140 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646730 | 4078183 | 0.096700 | 157.78 | 166 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 645930 | 4078283 | 0.068210 | 126.06 | 126.06 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646030 | 4078283 | 0.070750 | 129.56 | 129.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646130 | 4078283 | 0.073420 | 132.89 | 132.89 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646230 | 4078283 | 0.076350 | 139.24 | 139.24 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646330 | 4078283 | 0.079410 | 142.68 | 142.68 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646430 | 4078283 | 0.082470 | 140.02 | 140.02 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646530 | 4078283 | 0.086180 | 147.22 | 147.22 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646630 | 4078283 | 0.090100 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646730 | 4078283 | 0.094410 | 156.78 | 166 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 648659.32 | 4077241 | 0.654130 | 205.79 | 205.79 | 0 | ANNUAL | ALL | 1 | | House 1 | RP_H1 |
| 648071.24 | 4076116 | 0.091650 | 169.6 | 240 | 0 | ANNUAL | ALL | 1 | | House 10 | RP_H10 |
| 648247.37 | 4076278 | 0.127140 | 184.55 | 240 | 0 | ANNUAL | ALL | 1 | | House 11 | RP_H11 |
| 648027.19 | 4076255 | 0.105300 | 169.38 | 240 | 0 | ANNUAL | ALL | 1 | | House 12 | RP_H12 |
| 648065.77 | 4076359 | 0.124640 | 173.83 | 240 | 0 | ANNUAL | ALL | 1 | | House 13 | RP_H13 |
| 648138.68 | 4076400 | 0.139070 | 178.22 | 240 | 0 | ANNUAL | ALL | 1 | | House 14 | RP_H14 |

09/01/21

* AERMET (21112): 2018

09:17:47

MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 284 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------|--------|-------------|--------|
| 648254.71 | 4076411 | 0.158170 | 191.28 | 240 | 0 | ANNUAL | ALL | 1 | NETTE | House 15 | RP H15 |
| 647877.81 | 4076365 | 0.109850 | 165.39 | 240 | 0 | ANNUAL | ALL | 1 | | House 16 | RP_H16 |
| 647520 | 4076206 | 0.075800 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 17 | RP H17 |
| 647921 | 4076247 | 0.097640 | 164 | 240 | 0 | ANNUAL | ALL | 1 | | House 18 | RP H18 |
| 647708.78 | 4076352 | 0.096930 | 163.52 | 163.52 | 0 | ANNUAL | ALL | 1 | | House 19 | RP H19 |
| 648371.71 | 4075470 | 0.069100 | 173.69 | 227 | 0 | ANNUAL | ALL | 1 | | House 2 | RP H2 |
| | | 0.087350 | 162.17 | 162.17 | 0 | ANNUAL | ALL | 1 | | House 20 | RP H20 |
| 647718.77 | 4076104 | 0.073480 | 159.35 | 159.35 | 0 | ANNUAL | ALL | 1 | | House 21 | RP H21 |
| 647843.32 | 4076125 | 0.080280 | 163 | 234 | 0 | ANNUAL | ALL | 1 | | House 22 | RP H22 |
| 647842.26 | 4076500 | 0.120460 | 167.93 | 167.93 | 0 | ANNUAL | ALL | 1 | | House 23 | RP H23 |
| 647727.75 | 4076644 | 0.123730 | 164.15 | 164.15 | 0 | ANNUAL | ALL | 1 | | House 24 | RP H24 |
| 647823.91 | 4076644 | 0.133580 | 168.29 | 168.29 | 0 | ANNUAL | ALL | 1 | | House 25 | RP H25 |
| 647530 | 4076497 | 0.095440 | 159.56 | 159.56 | 0 | ANNUAL | ALL | 1 | | House 26 | RP H26 |
| 647810.11 | 4076854 | 0.158970 | 162.9 | 162.9 | 0 | ANNUAL | ALL | 1 | | House 27 | RP H27 |
| 647697.48 | 4076989 | 0.156100 | 161.42 | 162 | 0 | ANNUAL | ALL | 1 | | House 28 | RP H28 |
| 648225.5 | 4076182 | 0.110520 | 183.22 | 240 | 0 | ANNUAL | ALL | 1 | | House 29 | RP H29 |
| 647678.23 | 4075969 | 0.063820 | 159.5 | 159.5 | 0 | ANNUAL | ALL | 1 | | House 3 | RP H3 |
| 645876.32 | 4077487 | 0.056790 | 127.13 | 142 | 0 | ANNUAL | ALL | 1 | | House 30 | RP H30 |
| 650902 | 4076062 | 0.552480 | 215.24 | 287 | 0 | ANNUAL | ALL | 1 | | House 31 | RP H31 |
| 651490 | 4076597 | 0.274280 | 205.5 | 813 | 0 | ANNUAL | ALL | 1 | | House 32 | RP H32 |
| 651565 | 4077067 | 0.221780 | 213.93 | 813 | 0 | ANNUAL | ALL | 1 | | House 33 | RP H33 |
| 648672.77 | 4075307 | 0.082530 | 225.91 | 227 | 0 | ANNUAL | ALL | 1 | | House 34 | RP H34 |
| 648383.6 | 4075469 | 0.069450 | 174.44 | 227 | 0 | ANNUAL | ALL | 1 | | House 35 | RP H35 |
| 646379.37 | 4077233 | 0.066430 | 146 | 146 | 0 | ANNUAL | ALL | 1 | | House 36 | RP H36 |
| 651849.72 | 4075865 | 0.202510 | 201.97 | 333 | 0 | ANNUAL | ALL | 1 | | House 37 | RP H37 |
| 652045.49 | 4076210 | 0.171030 | 196.88 | 813 | 0 | ANNUAL | ALL | 1 | | House 38 | RP H38 |
| 652255.69 | 4076391 | 0.141630 | 197.06 | 813 | 0 | ANNUAL | ALL | 1 | | House 39 | RP H39 |
| 647815.25 | 4075985 | 0.070000 | 162.04 | 162.04 | 0 | ANNUAL | ALL | 1 | | House 4 | RP H4 |
| 646853.73 | 4077373 | 0.096870 | 145.99 | 145.99 | 0 | ANNUAL | ALL | 1 | | House 40 | RP H40 |
| 647050.21 | 4077360 | 0.111000 | 145 | 145 | 0 | ANNUAL | ALL | 1 | | House 41 | RP H41 |
| 647286.42 | 4077474 | 0.139300 | 149.68 | 153 | 0 | ANNUAL | ALL | 1 | | House 42 | RP_H42 |
| 647359.05 | 4077340 | 0.141030 | 154.45 | 159 | 0 | ANNUAL | ALL | 1 | | House 43 | RP_H43 |
| 647490.41 | 4077329 | 0.157670 | 162.28 | 162.28 | 0 | ANNUAL | ALL | 1 | | House 44 | RP H44 |
| 647522.17 | 4077252 | 0.153900 | 164.3 | 164.3 | 0 | ANNUAL | ALL | 1 | | House 45 | RP H45 |
| 647517.82 | 4077139 | 0.142160 | 164.01 | 164.01 | 0 | ANNUAL | ALL | 1 | | House 46 | RP H46 |
| 646819.01 | 4077258 | 0.087650 | 151.53 | 152 | 0 | ANNUAL | ALL | 1 | | House 47 | RP_H47 |
| 646778.72 | 4077128 | 0.082080 | 158.51 | 158.51 | 0 | ANNUAL | ALL | 1 | | House 48 | RP H48 |
| 646987.26 | 4077213 | 0.095880 | 146.44 | 146.44 | 0 | ANNUAL | ALL | 1 | | House 49 | RP H49 |
| 647898.2 | 4076033 | 0.076180 | 163.83 | 237 | 0 | ANNUAL | ALL | 1 | | House 5 | RP H5 |
| 647241.77 | 4077227 | 0.117360 | 154.85 | 154.85 | 0 | ANNUAL | ALL | 1 | | House 50 | RP H50 |
| 646773.05 | 4077063 | 0.080810 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 51 | RP H51 |
| 647104.37 | 4077118 | 0.100940 | 148.99 | 148.99 | 0 | ANNUAL | ALL | 1 | | House 52 | RP H52 |
| 647291.9 | 4077123 | 0.116620 | 158.62 | 158.62 | 0 | ANNUAL | ALL | 1 | | House 53 | RP H53 |
| 646765.24 | 4076978 | 0.078430 | 158.67 | 158.67 | 0 | ANNUAL | ALL | 1 | | House 54 | RP_H54 |
| 1 | | | | | | _ | | | | * | |

09/01/21

* AERMET (21112): 2018

09:17:47

- *MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------|--------|-------------|--------|
| 646995.65 | 4076984 | 0.090240 | 152.34 | 152.34 | 0 | ANNUAL | ALL | 1 | | House 55 | RP_H55 |
| 647317.21 | 4077031 | 0.115660 | 160.22 | 160.22 | 0 | ANNUAL | ALL | 1 | | House 56 | RP_H56 |
| 647398.39 | 4077013 | 0.122310 | 161.26 | 161.26 | 0 | ANNUAL | ALL | 1 | | House 57 | RP_H57 |
| 646978.93 | 4076904 | 0.085890 | 156.81 | 156.81 | 0 | ANNUAL | ALL | 1 | | House 58 | RP_H58 |
| 647015.19 | 4076807 | 0.083310 | 156.21 | 156.21 | 0 | ANNUAL | ALL | 1 | | House 59 | RP_H59 |
| 648045.44 | 4076018 | 0.083770 | 168.26 | 240 | 0 | ANNUAL | ALL | 1 | | House 6 | RP_H6 |
| 647163.96 | 4076802 | 0.091320 | 154.38 | 154.38 | 0 | ANNUAL | ALL | 1 | | House 60 | RP_H60 |
| 647310.58 | 4076940 | 0.110280 | 162.49 | 162.49 | 0 | ANNUAL | ALL | 1 | | House 61 | RP_H61 |
| 647298.09 | 4076805 | 0.100420 | 158 | 158 | 0 | ANNUAL | ALL | 1 | | House 62 | RP_H62 |
| 647446.56 | 4076900 | 0.119110 | 159.45 | 159.45 | 0 | ANNUAL | ALL | 1 | | House 63 | RP_H63 |
| 647464.49 | 4076781 | 0.111960 | 159.32 | 159.32 | 0 | ANNUAL | ALL | 1 | | House 64 | RP_H64 |
| 647512 | 4076536 | 0.097540 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 65 | RP_H65 |
| 651131 | 4078767 | 0.052480 | 179.58 | 830 | 0 | ANNUAL | ALL | 1 | | House 66 | RP_H66 |
| 647131 | 4077336 | 0.116240 | 146.77 | 146.77 | 0 | ANNUAL | ALL | 1 | | House 67 | RP_H67 |
| 646798 | 4076740 | 0.071440 | 156.07 | 156.07 | 0 | ANNUAL | ALL | 1 | | House 68 | RP_H68 |
| 646900 | 4076802 | 0.077700 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 69 | RP_H69 |
| 648126.33 | 4075955 | 0.086490 | 171.51 | 240 | 0 | ANNUAL | ALL | 1 | | House 7 | RP_H7 |
| 647317 | 4076662 | 0.095100 | 159.9 | 159.9 | 0 | ANNUAL | ALL | 1 | | House 70 | RP_H70 |
| 648249.26 | 4075970 | 0.097490 | 183.42 | 240 | 0 | ANNUAL | ALL | 1 | | House 8 | RP_H8 |
| 648218.58 | 4076109 | 0.103080 | 182.28 | 240 | 0 | ANNUAL | ALL | 1 | | House 9 | RP_H9 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in $\mu g/m^3$.

09/01/21

* AERMET (19191): 2019

09:36:45

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X Y AVERAGE CONC ZELEV Z | HILL ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
|--|------------|--------|-----|----------------|------------------------------------|----------|----------|
| 645996 4078698 0.04341 123.85 1 | 23.85 0 | ANNUAL | ALL | 1 | AQ Monitoring Station | AQ ST 1 | |
| 643903.65 4077719.38 0.01002 105.68 1 | 05.68 0 | ANNUAL | ALL | 1 | Hazel Hawkins Memorial Hospital | CR HP 1 | |
| | 35.12 0 | ANNUAL | ALL | 1 | Dunne Park | CR_PK_1 | |
| 642179.1 4079949.513 0.01246 117.99 1 | 17.99 0 | ANNUAL | ALL | 1 | Vista Park Hill Park | CR_PK_2 | |
| 644733.14 4078752.702 0.02283 106.44 1 | 06.44 0 | ANNUAL | ALL | 1 | Las Brisas Park | CR_PK_3 | |
| 645608.81 4078854.277 0.03655 112.86 1 | 12.86 0 | ANNUAL | ALL | 1 | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238.05 4078806.978 0.01872 95.25 | 95.25 0 | ANNUAL | ALL | 1 | Veterans Memorial Park | CR_PK_5 | |
| 645311.48 4076558.997 0.01477 134.61 1 | 34.61 0 | ANNUAL | ALL | 1 | Park 6 | CR_PK_6 | |
| 649581.69 4073424.461 0.04857 159.96 | 318 0 | ANNUAL | ALL | 1 | Park 7 | CR_PK_7 | |
| 645145.11 4077180.55 0.01426 133 | 133 0 | ANNUAL | ALL | 1 | Cerra Vista Elem School | CR_SC_1 | |
| 642904.71 4079954.526 0.01546 86 | 86 0 | ANNUAL | ALL | 1 | San Andreas Continuation | CR_SC_10 | |
| 645850.68 4074014.898 0.01249 123 | 313 0 | ANNUAL | ALL | 1 | SouthSide School | CR_SC_11 | |
| 642105.68 4078176.206 0.00671 91 | 91 0 | ANNUAL | ALL | 1 | School 12 | CR_SC_12 | |
| 646058.93 4078443.2 0.04133 128.52 1 | 28.52 0 | ANNUAL | ALL | 1 | Rancho Santana School | CR_SC_13 | School 1 |
| | 158 0 | ANNUAL | ALL | 1 | Future School | CR_SC_14 | School 2 |
| | 240 0 | ANNUAL | ALL | 1 | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644109.6 4078388.69 0.01596 98.2 | 98.2 0 | ANNUAL | ALL | 1 | Sunnyslope Elem School | CR_SC_2 | |
| 643920.12 4077304.04 0.00966 101.23 1 | 01.23 0 | ANNUAL | ALL | 1 | Hollister Montessori School | CR_SC_3 | |
| 642961.07 4078620.83 0.01169 92 | 92 0 | ANNUAL | ALL | 1 | Rancho San Justo Middle School | CR_SC_4 | |
| 643980.02 4079743.02 0.02177 88 | 88 0 | ANNUAL | ALL | 1 | Marguerite Maze Middle School | CR_SC_5 | |
| 641630.17 4079153 0.00917 85 | 85 0 | ANNUAL | ALL | 1 | Hollister Prep Schoo | CR_SC_6 | |
| | 98.22 0 | ANNUAL | ALL | 1 | Ladd Lane Elementary School | CR_SC_7 | |
| 644002.96 4080078.78 0.02297 87 | 87 0 | ANNUAL | ALL | 1 | Gabilan Hills Elementary School | CR_SC_8 | |
| 642244.86 4078412.696 0.00821 90.17 | 90.17 0 | ANNUAL | ALL | 1 | San Benito High School | CR_SC_9 | |
| | 127 0 | ANNUAL | ALL | 1 | Jovenes De Antano | CR_SR_1 | |
| 646402 4076879.07 0.02227 146.33 | 153 0 | ANNUAL | ALL | 1 | Workplace | CR_WP_1 | |
| 648949 4077938 0.42593 189.45 | 259 0 | ANNUAL | ALL | 1 | Nearest Workplace | CR_WP_2 | MEIW |
| | 155.2 0 | ANNUAL | ALL | 1 | Grid Receptor 1 | G1 | |
| | 160 0 | ANNUAL | ALL | 1 | Grid Receptor 10 | G10 | |
| | 252.9 0 | ANNUAL | ALL | 1 | Grid Receptor 100 | G100 | |
| | 165.9 0 | ANNUAL | ALL | 1 | Grid Receptor 11 | G11 | |
| | 159.6 0 | ANNUAL | ALL | 1 | Grid Receptor 12 | G12 | |
| | 146.2 0 | ANNUAL | ALL | 1 | Grid Receptor 13 | G13 | |
| | 181 0 | ANNUAL | ALL | 1 | Grid Receptor 14 | G14 | |
| | 179 0 | ANNUAL | ALL | 1 | Grid Receptor 15 | G15 | |
| | 175.4 0 | ANNUAL | ALL | 1 | Grid Receptor 16 | G16 | |
| | 240 0 | ANNUAL | ALL | 1 | Grid Receptor 17 | G17 | |
| | 240 0 | ANNUAL | ALL | 1 | Grid Receptor 18 | G18 | |
| | 240 0 | ANNUAL | ALL | 1 | Grid Receptor 19 | G19 | |
| | 145.4 0 | ANNUAL | ALL | 1 | Grid Receptor 2 | G2 | |
| 648144 4075573 0.05231 168.8 | 190 0 | ANNUAL | ALL | 1 | Grid Receptor 20 | G20 | |
| | 191 0 | ANNUAL | ALL | 1 | Grid Receptor 21 | G21 | |
| | 166.2 0 | ANNUAL | ALL | 1 | Grid Receptor 22 | G22 | |
| 648544 4078373 0.24598 145.4 | 253 0 | ANNUAL | ALL | 1 | Grid Receptor 23 | G23 | |
| 648544 4077973 0.27956 173.9 | 214 0 | ANNUAL | ALL | 1 | Grid Receptor 24 | G24 | |

09/01/21

* AERMET (19191): 2019

09:36:45

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 284 RECEPTORS.

| | | 13.3),3(1A,16.2),2A,A0, | | | | | | | | |
|--------|---------|-------------------------|-------|-------|-------|--------|------------|----------------|------------------|------------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 648544 | 4077573 | 0.31386 | 179.6 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.55122 | 191 | 226 | 0 | ANNUAL | ALL | 1 | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.19968 | 209.2 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.12741 | 233.7 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.10035 | 199.9 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.14082 | 144.4 | 144.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.07918 | 195.5 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.11579 | 190.4 | 194 | 0 | ANNUAL | ALL | 1 | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.17392 | 165.4 | 165.4 | 0 | ANNUAL | ALL | 1 | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.27495 | 159.6 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.41302 | 183.5 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.49873 | 224 | 226 | 0 | ANNUAL | ALL | 1 | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.29663 | 205 | 240 | 0 | ANNUAL | ALL | 1 | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.17194 | 208.8 | 220 | 0 | ANNUAL | ALL | 1 | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.13948 | 134.6 | 181 | 0 | ANNUAL | ALL | 1 | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.10443 | 185.6 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.08078 | 187.4 | 801 | 0 | ANNUAL | ALL | 1 | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.12334 | 160.9 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.22807 | 200.5 | 221 | 0 | ANNUAL | ALL | 1 | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 0.5541 | 229 | 253 | 0 | ANNUAL | ALL | 1 | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.90002 | 253.3 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.74957 | 220.2 | 263 | 0 | ANNUAL | ALL | 1 | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.28017 | 227.2 | 227.2 | 0 | ANNUAL | ALL | 1 | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.11095 | 163.8 | 171 | 0 | ANNUAL | ALL | 1 | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.1705 | 205.5 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.06011 | 176.1 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.08731 | 195 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.1357 | 196.1 | 227 | 0 | ANNUAL | ALL | 1 | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.27711 | 215.3 | 251 | 0 | ANNUAL | ALL | 1 | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.85523 | 221.6 | 259 | 0 | ANNUAL | ALL | 1 | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 1.44436 | 211.7 | 266 | 0 | ANNUAL | ALL | 1 | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.50286 | 237.7 | 257 | 0 | ANNUAL | ALL | 1 | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.07336 | 158.4 | 171 | 0 | ANNUAL | ALL | 1 | Grid Receptor 6 | G6 |
| 649744 | 4077173 | 0.07330 | 204.2 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.23393 | 173 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 61 | G61 |
| 650144 | 4079173 | 0.04773 | 173 | 830 | 0 | | | 1 | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.06249 | 204.6 | 830 | 0 | ANNUAL | ALL ALL | | | G62 G63 |
| | | | | | | ANNUAL | | 1 | Grid Receptor 63 | |
| 650144 | 4077973 | 0.15795 | 216.5 | 290 | 0 | ANNUAL | ALL | 1 | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.22305 | 257.7 | 257.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 1.49794 | 231.4 | 272 | 0 | ANNUAL | ALL | 1 | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.59799 | 249.4 | 266 | 0 | ANNUAL | ALL | 1 | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.05907 | 164.7 | 164.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.34794 | 216.4 | 300 | 0 | ANNUAL | ALL | 1 | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.04011 | 177 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.05401 | 180.9 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 72 | G72 |

09/01/21

* AERMET (19191): 2019

09:36:45

MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

| | | 13.5),3(1X,F8.2),2X,A6 | | | | | | | | |
|-----------|------------|------------------------|--------|--------|-------|--------|-----|----------------|---|------------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 650544 | 4078373 | 0.07642 | 196.6 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.1204 | 236.9 | 801 | 0 | ANNUAL | ALL | 1 | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.10315 | 261.3 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.78739 | 260.9 | 260.9 | 0 | ANNUAL | ALL | 1 | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.61662 | 226.7 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.05835 | 164 | 164 | 0 | ANNUAL | ALL | 1 | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 0.23758 | 268.2 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.03831 | 181.3 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.04323 | 178.4 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.05577 | 214.8 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.07201 | 249.9 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.04528 | 276.5 | 296 | 0 | ANNUAL | ALL | 1 | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.23634 | 225.6 | 296 | 0 | ANNUAL | ALL | 1 | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.4263 | 219.8 | 267 | 0 | ANNUAL | ALL | 1 | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.50955 | 209.2 | 273 | 0 | ANNUAL | ALL | 1 | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.44162 | 216.6 | 287 | 0 | ANNUAL | ALL | 1 | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.05055 | 160.7 | 160.7 | 0 | ANNUAL | ALL | 1 | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.33811 | 243.2 | 289 | 0 | ANNUAL | ALL | 1 | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.0281 | 191 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.03026 | 181 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.04363 | 214.3 | 830 | 0 | ANNUAL | ALL | 1 | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.05921 | 248.4 | 826 | 0 | ANNUAL | ALL | 1 | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.09072 | 213.2 | 826 | 0 | ANNUAL | ALL | 1 | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.14551 | 213.6 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.21395 | 203.5 | 813 | 0 | ANNUAL | ALL | 1 | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.27754 | 205.6 | 220 | 0 | ANNUAL | ALL | 1 | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.28039 | 205.8 | 269 | 0 | ANNUAL | ALL | 1 | Grid Receptor 99 | G99 |
| 649484.05 | 4077537.42 | 1.14105 | 254.01 | 257 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 10 | P10 |
| 649584.03 | 4077538.59 | 1.62899 | 235.3 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 11 | P11 |
| 649684.02 | 4077539.76 | 1.10829 | 221.29 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 12 | P12 |
| 649784 | 4077540.93 | 0.88238 | 222.37 | 260 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 13 | P13 |
| 649883.99 | 4077542.1 | 0.74637 | 233.6 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 14 | P14 |
| 649983.97 | 4077543.45 | 0.46249 | 249.54 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 15 | P15 |
| 650083.94 | 4077545.65 | 0.23945 | 258.89 | 258.89 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 16 | P16 |
| 650183.91 | 4077547.85 | 0.21021 | 259.56 | 259.56 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 17 | P17 |
| 650283.87 | 4077550.05 | 0.19289 | 256.77 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 18 | P18 |
| 650383.84 | 4077552.25 | 0.23801 | 242.37 | 290 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 19 | P19 |
| 650483.81 | 4077554.45 | 0.20611 | 242.23 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 20 | P20 |
| 650583.78 | 4077556.65 | 0.11196 | 259.71 | 290 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 21 | P21 |
| 650683.75 | 4077558.85 | 0.11253 | 257.58 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 22 | P22 |
| 650776.81 | 4077553.84 | 0.069 | 267.9 | 296 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 23 | P23 |
| 650778.91 | 4077453.87 | 0.0631 | 275.91 | 275.91 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 24 | P24 |
| 650781 | 4077353.9 | 0.11599 | 265.73 | 281 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 25 | P25 |
| 650783.1 | 4077253.93 | 0.2231 | 251.08 | 282 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 25 Boundary Perimeter 26 | P25 P26 |
| 650785.19 | 4077153.96 | | 252.83 | 282 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 27 | P26 P27 |
| 030/83.19 | 40//133.90 | 0.25579 | 232.83 | 281 | U | AMMUAL | ALL | 1 | Boundary Ferimeter 27 | Γ2/ |

09/01/21

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MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Υ | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
|-----------|------------|--------------|--------|--------|-------|-----------------|------|----------------|---------------------------------------|------------|--------|
| 650787.29 | 4077053.99 | 0.36842 | 246.1 | 269 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 28 | P28 | 1 |
| 650789.38 | 4076954.02 | 0.4743 | 241.37 | 269 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 29 | P29 | |
| 650791.48 | 4076854.05 | 0.52955 | 246.79 | 251 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 30 | P30 | |
| 650793.57 | 4076754.08 | 0.64855 | 228.75 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 31 | P31 | |
| 650754.39 | 4076683.11 | 0.73371 | 217.76 | 271 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 32 | P32 | 1 |
| 650660.22 | 4076649.5 | 1.01821 | 221.2 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 33 | P33 | |
| 650561.43 | 4076649.99 | 1.46946 | 220.83 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 34 | P34 | |
| 650462.72 | 4076665.95 | 2.43429 | 223.42 | 273 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 35 | P35 | |
| 650364.01 | 4076681.9 | 3.67287 | 222.46 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 36 | P36 | |
| 650264.24 | 4076683.08 | 3.92194 | 223.19 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 37 | P37 | PMI |
| 650164.71 | 4076674.46 | 3.71306 | 222.1 | 249 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 38 | P38 | 1 1/11 |
| 650065.8 | 4076659.74 | 3.42186 | 217.03 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 39 | P39 | |
| 649980.44 | | 3.31793 | 214.82 | 264 | 0 | ANNUAL | ALL | 1 | · · · · · · · · · · · · · · · · · · · | P40 | - |
| | 4076626.71 | | | 264 | 0 | | ALL | 1 | Boundary Perimeter 40 | P40 P41 | |
| 649920.26 | 4076547.41 | 2.73716 | 214.91 | | | ANNUAL | | - | Boundary Perimeter 41 | | - |
| 649852.19 | 4076474.41 | 2.25047 | 214.09 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 42 | P42 | |
| 649770.68 | 4076416.8 | 1.73224 | 211.53 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 43 | P43 | - |
| 649680.48 | 4076374.63 | 1.53646 | 210.17 | 266 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 44 | P44 | |
| 649580.91 | 4076368.3 | 1.34497 | 208.52 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 45 | P45 | |
| 649482.48 | 4076383.73 | 1.14963 | 207.5 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 46 | P46 | |
| 649391.59 | 4076425.15 | 1.17903 | 205.17 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 47 | P47 | |
| 649303.5 | 4076472.31 | 1.17955 | 202.16 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 48 | P48 | |
| 649226.19 | 4076535.29 | 1.11819 | 196.38 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 49 | P49 | |
| 649156.2 | 4076605.17 | 1.26924 | 195.87 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 50 | P50 | |
| 649068.25 | 4076652.76 | 1.08374 | 196.32 | 264 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 51 | P51 | |
| 648986.7 | 4076710.52 | 0.97055 | 192.42 | 263 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 52 | P52 | |
| 648936.53 | 4076759.27 | 0.96786 | 192.46 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 53 | P53 | |
| 648868.58 | 4076832.5 | 1.00709 | 191.63 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 54 | P54 | |
| 648797.23 | 4076902.21 | 1.07179 | 186.32 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 55 | P55 | |
| 648710.56 | 4076951.69 | 0.88794 | 179.81 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 56 | P56 | |
| 648620.79 | 4076995.72 | 0.51479 | 176.23 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 57 | P57 | |
| 648607.19 | 4077051.27 | 0.64957 | 175.02 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 58 | P58 | |
| 648680.07 | 4077119.49 | 0.98456 | 180.62 | 250 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 59 | P59 | |
| 649084.12 | 4077532.21 | 0.59264 | 216.54 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 6 | P6 | |
| 648759.24 | 4077180.33 | 0.57817 | 183.47 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 60 | P60 | |
| 648791.44 | 4077262.37 | 0.46649 | 202.88 | 245 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 61 | P61 | |
| 648788.45 | 4077362.32 | 0.38778 | 178.21 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 62 | P62 | |
| 648691.25 | 4077361.04 | 0.38685 | 176.25 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 63 | P63 | |
| 648591.35 | 4077356.85 | 0.39537 | 176 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 64 | P64 | |
| 648525.69 | 4077371.4 | 0.37931 | 175.24 | 245 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 65 | P65 | 1 |
| 648586.93 | 4077430.21 | 0.35297 | 175.13 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 66 | P66 | |
| 649184.09 | 4077533.91 | 0.78339 | 230.71 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 7 | P7 | 1 |
| 649284.08 | 4077535.08 | 0.90395 | 248.08 | 259 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 8 | P8 | |
| 649384.06 | 4077536.25 | 0.85247 | 258.43 | 258.43 | 0 | ANNUAL | ALL | 1 | Boundary Perimeter 9 | P9 | |
| 645930 | 4077982.6 | 0.0312 | 127.38 | 127.38 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646030 | 4077982.6 | 0.0312 | 131.21 | 131.21 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 0-10050 | 10/1/02.0 | 0.03310 | 131.21 | 131.41 | U | 7 11 11 10 7 1L | 1100 | 1 | rew Development | 101 _01 | 1 |

09/01/21

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* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

| | | 13.3),3(1A,10.2),2A,A0, | | | | | | | | |
|-----------|------------|-------------------------|--------|--------|-------|---------|-----|----------------|-----------------|----------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 646130 | 4077982.6 | 0.03534 | 135.89 | 135.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4077982.6 | 0.03775 | 139.18 | 139.18 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646330 | 4077982.6 | 0.0404 | 140.76 | 140.76 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646430 | 4077982.6 | 0.04339 | 143.89 | 143.89 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646530 | 4077982.6 | 0.04667 | 145.22 | 145.22 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646630 | 4077982.6 | 0.05033 | 147.21 | 147.21 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646730 | 4077982.6 | 0.05435 | 148.3 | 160 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 645930 | 4078082.6 | 0.03292 | 127.58 | 127.58 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646030 | 4078082.6 | 0.03502 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646130 | 4078082.6 | 0.03736 | 134.35 | 134.35 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646230 | 4078082.6 | 0.03997 | 139.22 | 139.22 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646330 | 4078082.6 | 0.04289 | 144.65 | 144.65 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646430 | 4078082.6 | 0.04586 | 142.28 | 142.28 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646530 | 4078082.6 | 0.04934 | 146.76 | 146.76 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646630 | 4078082.6 | 0.05316 | 150.64 | 150.64 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646730 | 4078082.6 | 0.05744 | 155.4 | 157 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 645930 | 4078182.6 | 0.0346 | 127.22 | 127.22 | 0 | ANNUAL | ALL | 1 | New Development | RP G1 |
| | | | | | 0 | | | 1 | * | |
| 646030 | 4078182.6 | 0.03682 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078182.6 | 0.03926 | 133.89 | 133.89 | | ANNUAL | ALL | | New Development | RP_G1 |
| 646230 | 4078182.6 | 0.042 | 140.45 | 140.45 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4078182.6 | 0.04504 | 146.94 | 146.94 | 0 | ANNUAL | ALL | <u>-</u> | New Development | RP_G1 |
| 646430 | 4078182.6 | 0.04788 | 140.23 | 140.23 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4078182.6 | 0.05147 | 147.25 | 147.25 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4078182.6 | 0.05535 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4078182.6 | 0.05985 | 157.78 | 166 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078282.6 | 0.03614 | 126.06 | 126.06 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646030 | 4078282.6 | 0.03842 | 129.56 | 129.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078282.6 | 0.04089 | 132.89 | 132.89 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646230 | 4078282.6 | 0.04365 | 139.24 | 139.24 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4078282.6 | 0.0466 | 142.68 | 142.68 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078282.6 | 0.04963 | 140.02 | 140.02 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646530 | 4078282.6 | 0.05335 | 147.22 | 147.22 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646630 | 4078282.6 | 0.05742 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646730 | 4078282.6 | 0.06212 | 156.78 | 166 | 0 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 648659.32 | 4077241.2 | 0.55474 | 205.79 | 205.79 | 0 | ANNUAL | ALL | 1 | House 1 | RP_H1 |
| 648071.24 | 4076116.26 | 0.06856 | 169.6 | 240 | 0 | ANNUAL | ALL | 1 | House 10 | RP_H10 |
| 648247.37 | 4076278.08 | 0.08863 | 184.55 | 240 | 0 | ANNUAL | ALL | 1 | House 11 | RP_H11 |
| 648027.19 | 4076255.14 | 0.07016 | 169.38 | 240 | 0 | ANNUAL | ALL | 1 | House 12 | RP H12 |
| 648065.77 | 4076359.39 | 0.07696 | 173.83 | 240 | 0 | ANNUAL | ALL | 1 | House 13 | RP H13 |
| 648138.68 | 4076399.8 | 0.0841 | 178.22 | 240 | 0 | ANNUAL | ALL | 1 | House 14 | RP H14 |
| 648254.71 | 4076411.38 | 0.09692 | 191.28 | 240 | 0 | ANNUAL | ALL | 1 | House 15 | RP H15 |
| 647877.81 | 4076365.37 | 0.06525 | 165.39 | 240 | 0 | ANNUAL | ALL | 1 | House 16 | RP_H16 |
| 647520 | 4076206 | 0.04817 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 17 | RP H17 |
| 647921 | 4076247.13 | 0.06399 | 164 | 240 | 0 | ANNUAL | ALL | 1 | House 18 | RP H18 |
| | TU/U4T/.13 | 0.00377 | 107 | 270 | U | MINIOAL | ALL | 1 | 110030 10 | 1/1 1110 |

09/01/21

* AERMET (19191): 2019

09:36:45

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 284 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|------------|--------------|--------|--------|-------|--------|-----|----------------|-------------|------------------|
| 648371.71 | 4075470.41 | 0.06149 | 173.69 | 227 | 0 | ANNUAL | ALL | 1 | House 2 | RP H2 |
| 647703.58 | 4076251.07 | 0.05509 | 162.17 | 162.17 | 0 | ANNUAL | ALL | 1 | House 20 | RP H20 |
| 647718.77 | 4076103.98 | 0.05141 | 159.35 | 159.35 | 0 | ANNUAL | ALL | 1 | House 21 | RP H21 |
| 647843.32 | 4076124.94 | 0.05697 | 163 | 234 | 0 | ANNUAL | ALL | 1 | House 22 | RP H22 |
| 647842.26 | 4076500.39 | 0.06264 | 167.93 | 167.93 | 0 | ANNUAL | ALL | 1 | House 23 | RP H23 |
| 647727.75 | 4076644.22 | 0.05701 | 164.15 | 164.15 | 0 | ANNUAL | ALL | 1 | House 24 | RP H24 |
| 647823.91 | 4076643.73 | 0.06229 | 168.29 | 168.29 | 0 | ANNUAL | ALL | 1 | House 25 | RP_H25 |
| 647530 | 4076497 | 0.04729 | 159.56 | 159.56 | 0 | ANNUAL | ALL | 1 | House 26 | RP H26 |
| 647810.11 | 4076853.73 | 0.06366 | 162.9 | 162.9 | 0 | ANNUAL | ALL | 1 | House 27 | RP H27 |
| 647697.48 | 4076989.26 | 0.0601 | 161.42 | 162 | 0 | ANNUAL | ALL | 1 | House 28 | RP H28 |
| 648225.5 | 4076181.52 | 0.08277 | 183.22 | 240 | 0 | ANNUAL | ALL | 1 | House 29 | RP H29 |
| 647678.23 | 4075969.18 | 0.04816 | 159.5 | 159.5 | 0 | ANNUAL | ALL | 1 | House 3 | RP_H3 |
| 645876.32 | 4077487.41 | 0.0213 | 127.13 | 142 | 0 | ANNUAL | ALL | 1 | House 30 | RP H30 |
| 650902 | 4076062 | 0.48653 | 215.24 | 287 | 0 | ANNUAL | ALL | 1 | House 31 | RP H31 |
| 651490 | 4076597 | 0.21179 | 205.5 | 813 | 0 | ANNUAL | ALL | 1 | House 32 | RP H32 |
| 651565 | 4077067 | 0.14102 | 213.93 | 813 | 0 | ANNUAL | ALL | 1 | House 33 | RP_H33 |
| 648672.77 | 4075306.77 | 0.07824 | 225.91 | 227 | 0 | ANNUAL | ALL | 1 | House 34 | RP_H34 |
| 648383.6 | 4075469.08 | 0.06215 | 174.44 | 227 | 0 | ANNUAL | ALL | 1 | House 35 | RP H35 |
| 646379.37 | 4077232.58 | 0.02483 | 146 | 146 | 0 | ANNUAL | ALL | 1 | House 36 | RP H36 |
| 651849.72 | 4075865.15 | 0.17205 | 201.97 | 333 | 0 | ANNUAL | ALL | 1 | House 37 | RP H37 |
| 652045.49 | 4076210.24 | 0.13751 | 196.88 | 813 | 0 | ANNUAL | ALL | 1 | House 38 | RP H38 |
| 652255.69 | 4076390.67 | 0.11268 | 197.06 | 813 | 0 | ANNUAL | ALL | 1 | House 39 | RP H39 |
| 647815.25 | 4075985.43 | 0.05337 | 162.04 | 162.04 | 0 | ANNUAL | ALL | 1 | House 4 | RP H4 |
| 646853.73 | 4077372.88 | 0.0373 | 145.99 | 145.99 | 0 | ANNUAL | ALL | 1 | House 40 | RP H40 |
| 647050.21 | 4077359.57 | 0.04348 | 145 | 145 | 0 | ANNUAL | ALL | 1 | House 41 | RP_H41 |
| 647286.42 | 4077474.4 | 0.0625 | 149.68 | 153 | 0 | ANNUAL | ALL | 1 | House 42 | RP H42 |
| 647359.05 | 4077339.84 | 0.05761 | 154.45 | 159 | 0 | ANNUAL | ALL | 1 | House 43 | RP H43 |
| 647490.41 | 4077328.53 | 0.06594 | 162.28 | 162.28 | 0 | ANNUAL | ALL | 1 | House 44 | RP H44 |
| 647522.17 | 4077251.76 | 0.06181 | 164.3 | 164.3 | 0 | ANNUAL | ALL | 1 | House 45 | RP H45 |
| 647517.82 | 4077138.85 | 0.05572 | 164.01 | 164.01 | 0 | ANNUAL | ALL | 1 | House 46 | RP H46 |
| 646819.01 | 4077258.4 | 0.03287 | 151.53 | 152 | 0 | ANNUAL | ALL | 1 | House 47 | RP H47 |
| 646778.72 | 4077127.63 | 0.03139 | 158.51 | 158.51 | 0 | ANNUAL | ALL | 1 | House 48 | RP H48 |
| 646987.26 | 4077213.1 | 0.03639 | 146.44 | 146.44 | 0 | ANNUAL | ALL | 1 | House 49 | RP H49 |
| 647898.2 | 4076032.8 | 0.0577 | 163.83 | 237 | 0 | ANNUAL | ALL | 1 | House 5 | RP H5 |
| 647241.77 | 4077226.51 | 0.04517 | 154.85 | 154.85 | 0 | ANNUAL | ALL | 1 | House 50 | RP H50 |
| 646773.05 | 4077063.03 | 0.03059 | 159 | 159 | 0 | ANNUAL | ALL | 1 | House 51 | RP H51 |
| 647104.37 | 4077117.93 | 0.03875 | 148.99 | 148.99 | 0 | ANNUAL | ALL | 1 | House 52 | RP H52 |
| 647291.9 | 4077123.08 | 0.04506 | 158.62 | 158.62 | 0 | ANNUAL | ALL | 1 | House 53 | RP H53 |
| 646765.24 | 4076977.94 | 0.02885 | 158.67 | 158.67 | 0 | ANNUAL | ALL | 1 | House 54 | RP H54 |
| 646995.65 | 4076983.8 | 0.0334 | 152.34 | 152.34 | 0 | ANNUAL | ALL | 1 | House 55 | RP H55 |
| 647317.21 | 4077030.98 | 0.04387 | 160.22 | 160.22 | 0 | ANNUAL | ALL | 1 | House 56 | RP H56 |
| 647398.39 | 4077013.06 | 0.04635 | 161.26 | 161.26 | 0 | ANNUAL | ALL | 1 | House 57 | RP_H57 |
| 646978.93 | 4076903.58 | 0.04633 | 156.81 | 156.81 | 0 | ANNUAL | ALL | 1 | House 58 | RP_H57 RP_H58 |
| 647015.19 | 4076807.16 | 0.03132 | 156.21 | 156.21 | 0 | ANNUAL | ALL | 1 | House 59 | RP_H58 |
| | | | | | | | | 1 | | |
| 648045.44 | 4076017.78 | 0.06383 | 168.26 | 240 | 0 | ANNUAL | ALL | 1 | House 6 | RP_H6 |

09/01/21

* AERMET (19191): 2019

09:36:45

- *MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|------------|--------------|--------|--------|-------|--------|-----|---------|--------|-------------|--------|
| 647163.96 | 4076802.21 | 0.03543 | 154.38 | 154.38 | 0 | ANNUAL | ALL | 1 | | House 60 | RP_H60 |
| 647310.58 | 4076940.38 | 0.04108 | 162.49 | 162.49 | 0 | ANNUAL | ALL | 1 | | House 61 | RP_H61 |
| 647298.09 | 4076805.15 | 0.0393 | 158 | 158 | 0 | ANNUAL | ALL | 1 | | House 62 | RP_H62 |
| 647446.56 | 4076899.85 | 0.04484 | 159.45 | 159.45 | 0 | ANNUAL | ALL | 1 | | House 63 | RP_H63 |
| 647464.49 | 4076780.74 | 0.04555 | 159.32 | 159.32 | 0 | ANNUAL | ALL | 1 | | House 64 | RP_H64 |
| 647512 | 4076536 | 0.04661 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 65 | RP_H65 |
| 651131 | 4078767 | 0.03603 | 179.58 | 830 | 0 | ANNUAL | ALL | 1 | | House 66 | RP_H66 |
| 647131 | 4077336 | 0.04546 | 146.77 | 146.77 | 0 | ANNUAL | ALL | 1 | | House 67 | RP_H67 |
| 646798 | 4076740 | 0.02847 | 156.07 | 156.07 | 0 | ANNUAL | ALL | 1 | | House 68 | RP_H68 |
| 646900 | 4076802 | 0.02969 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 69 | RP_H69 |
| 648126.33 | 4075955.37 | 0.06467 | 171.51 | 240 | 0 | ANNUAL | ALL | 1 | | House 7 | RP_H7 |
| 647317 | 4076662 | 0.04186 | 159.9 | 159.9 | 0 | ANNUAL | ALL | 1 | | House 70 | RP_H70 |
| 648249.26 | 4075969.84 | 0.07245 | 183.42 | 240 | 0 | ANNUAL | ALL | 1 | | House 8 | RP_H8 |
| 648218.58 | 4076108.95 | 0.07913 | 182.28 | 240 | 0 | ANNUAL | ALL | 1 | | House 9 | RP_H9 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in $\mu g/m^3$.

09/01/21

* AERMET (21112): 2020

08:38:24

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 64998 6478908 | X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
|--|------------|-------------|--------------|--------|--------|-------|--------|-----|---------|--------|------------------------------------|----------|----------|
| 64901.65 407719.83 0.01819 105.68 105.68 0. ANNUAL ALL 1 Dunne Park CR. PK 642170.905 407944.5817 0.01423 85.12 85.12 0. ANNUAL ALL 1 Vitas Park Hill Park CR. PK 642170.905 407944.5813 0.01511 117.99 117.99 0. ANNUAL ALL 1 Vitas Park Hill Park CR. PK 642173.1142 4079552.79 0.02935 106.44 0. ANNUAL ALL 1 Las Brissas Park CR. PK 64508.088 407854.2177 0.04436 112.86 0. ANNUAL ALL 1 Fronk Klauer Memorial Park CR. PK 645218.034 4078555.997 0.02273 134.61 134.61 0. ANNUAL ALL 1 Park 6 CR. PK 645218.034 4077555.997 0.02273 134.61 134.61 0. ANNUAL ALL 1 Park 6 CR. PK 645931.689 4078542.461 0.04543 159.06 318 0. ANNUAL ALL 1 Park 6 CR. PK 645931.689 407942.461 0.04543 159.06 318 0. ANNUAL ALL 1 Park 6 CR. PK 6. 645931.689 407942.461 0.04543 159.06 318 0. ANNUAL ALL 1 Park 6 CR. PK 6. 645931.689 407942.461 0.04543 159.06 318 0. ANNUAL ALL 1 San Administration CR. Sci. I 64406.893 407941.698 0.01788 123 31 0. ANNUAL ALL 1 San Administration CR. Sci. I 64406.893 407941.698 0.01788 123 313 0. ANNUAL ALL 1 San Administration CR. Sci. I 64406.899 4075575 0.04291 128.52 0. ANNUAL ALL 1 Rancho Santasion CR. Sci. I 64406.899 4075575 0.04291 128.52 0. ANNUAL ALL 1 Rancho Santasion CR. Sci. I 64406.899 4075575 0.04291 128.52 0. ANNUAL ALL 1 Rancho San Jason Middle School CR. Sci. I 64406.899 4075475 0.04291 128.52 0. ANNUAL ALL 1 Bullister Memorial Sci. School CR. Sci. I 64406.899 4075475 0.04291 101.23 0. ANNUAL ALL 1 Rancho San Jason Middle School CR. Sci. I 64409.899 4075475 0.04291 101.23 0. ANNUAL ALL 1 Rancho San Jason Middle School CR. Sci. I 64409.899 4075475 0.04291 101.23 0. ANNUAL ALL 1 Rancho San Jason Middle School CR. Sci. I 64409.899 4075475 0.04291 101.23 0. ANNUAL ALL | 645996 | 4078698 | 0.05290 | 123.85 | 123.85 | 0 | ANNUAL | ALL | 1 | | AQ Monitoring Station | AQ ST 1 | |
| 642179.095 4079949.513 0.01511 117.99 117.99 0 ANNIAL ALL 1 Las Brisss Park CR, PK 2 64733.142 407855.277 0.04436 112.86 112.86 0 ANNIAL ALL 1 Las Brisss Park CR, PK 3 64508.808 407885.4277 0.04436 112.86 112.86 0 ANNIAL ALL 1 Frank Klauer Memorial Park CR, PK 4 64238.054 407885.097 0.02273 134.61 134.61 0 ANNIAL ALL 1 Park 6 CR, PK 6 64531.476 407655.997 0.02273 134.61 134.61 0 ANNIAL ALL 1 Park 7 CR, PK 6 64531.41 4077180.55 0.02526 133 133 0 ANNIAL ALL 1 San Andreas Continuous CR, SC 1 64580.678 4073424.461 0.05453 159.96 318 0 ANNIAL ALL 1 San Andreas Continuous CR, SC 1 64580.678 4074014.898 0.01758 123 313 0 ANNIAL ALL 1 San Andreas Continuous CR, SC 1 646850.678 4074014.898 0.01758 123 313 0 ANNIAL ALL 1 SouthSide School CR, SC 1 64680.893 407844.2 0.05157 128.52 128.32 0 ANNIAL ALL 1 Rancho Santama School CR, SC 1 64680.893 407844.2 0.05157 128.52 128.32 0 ANNIAL ALL 1 Rancho Santama School CR, SC 1 64680.693 407844.2 0.05157 128.52 128.32 0 ANNIAL ALL 1 Rancho Santama School CR, SC 1 64680.604 407410.6 0.04550 159 240 0 ANNIAL ALL 1 Tree Pimos Union Elementary School CR, SC 1 64590.002 4075838.69 0.02240 9 9 9 0 ANNIAL ALL 1 Tree Pimos Union Elementary School CR, SC 1 64590.002 407734.02 0.01622 88 88 0 ANNIAL ALL 1 Brancho Santama School CR, SC 3 64590.002 407743.02 0.01622 88 88 0 ANNIAL ALL 1 Brancho Santama School CR, SC 6 64590.00 407743.02 0.01622 88 88 0 ANNIAL ALL 1 Brancho Santama School CR, SC 6 64590.00 407743.02 0.01622 88 88 0 ANNIAL ALL 1 Brancho Santama School CR, SC 6 64590.00 407743.02 0.01623 88 88 0 ANNIAL ALL 1 Brancho Santama School CR, SC 6 64590.00 407743.02 0.01623 88 88 0 ANNIAL ALL 1 Brancho Santama School CR, S | 643903.65 | | 0.01819 | 105.68 | 105.68 | 0 | ANNUAL | ALL | 1 | | | CR HP 1 | |
| 644731.412 4078782.702 0.02935 10.644 10.644 0.6.ANNIAL ALL Las brisas Park CR, PK, 3 | 642056.782 | 4079415.687 | 0.01423 | 85.12 | 85.12 | 0 | ANNUAL | ALL | 1 | | Dunne Park | CR PK 1 | |
| 64508.98 4078842.77 | 642179.095 | 4079949.513 | 0.01511 | 117.99 | 117.99 | 0 | ANNUAL | ALL | 1 | | Vista Park Hill Park | CR PK 2 | |
| 64436.054 d078806.978 0.02469 95.25 95.25 0 ANNUAL ALL 1 Veteran Memorial Park CR PK. 5 64531.476 0.07658.997 0.02273 134.61 134.61 0 ANNUAL ALL 1 Park 6 CR PK. 6 64981.689 d073424.661 0.05433 159.96 318 0 ANNUAL ALL 1 Park 7 CR PK. 6 64981.689 d073424.661 0.05433 159.96 318 0 ANNUAL ALL 1 Park 7 CR PK. 7 64764.712 d077810.55 0.02526 133 133 0 ANNUAL ALL 1 San Andreas Continuation CR SC. 1 64206.712 d079854.526 0.01861 86 86 0 ANNUAL ALL 1 San Andreas Continuation CR SC. 10 64206.707 d07816.206 0.01166 91 91 0 ANNUAL ALL 1 School 12 CR SC. 10 64216.679 d07816.206 0.01166 91 91 0 ANNUAL ALL 1 School 12 CR SC. 12 64058.93 d078157.50 0.02517 128.52 128.52 0 ANNUAL ALL 1 Rancho Santama School CR SC. 13 640658.93 d078453.2 0.05171 128.52 128.52 0 ANNUAL ALL 1 Tes Pinos Union Elementary School CR SC. 13 64064.66 d0.04550 159 240 0 ANNUAL ALL 1 Tes Pinos Union Elementary School CR SC. 13 640610 6 d04550 159 240 0 ANNUAL ALL 1 Sunnyslope Elem School CR SC. 3 64920.12 d077804.0 0.01740 1012.3 1012.3 0 ANNUAL ALL 1 Sunnyslope Elem School CR SC. 3 64920.12 d077804.0 0.01740 1012.3 1012.3 0 ANNUAL ALL 1 Bollister Memberson School CR SC. 3 649300.12 d077804.0 0.01740 1012.3 1012.3 0 ANNUAL ALL 1 Bollister Pres School CR SC. 4 64980.02 d079783.0 0.00632 88 88 0 ANNUAL ALL 1 Bollister Pres School CR SC. 5 641630.17 d079133 0.01255 85 85 0 ANNUAL ALL 1 Bollister Pres School CR SC. 6 643500.0 d079781.71 0.01413 82.22 82.22 0 ANNUAL ALL 1 Bollister Pres School CR SC. 6 6436406 40791783.0 0.0262 88 88 0 ANNUAL ALL 1 Bollister Pres School CR SC. 6 6436406 4079793.5 0.01425 85 85 0 ANNUAL ALL 1 Bollister Pres School CR SC. 6 6436406 4079793.8 0.01237 9.017 9.017 0.01704.1 1.0141 9.014 9.014 | 644733.142 | 4078752.702 | 0.02935 | 106.44 | 106.44 | 0 | ANNUAL | ALL | 1 | | Las Brisas Park | CR PK 3 | |
| 64591.476 | 645608.808 | 4078854.277 | 0.04436 | 112.86 | 112.86 | 0 | ANNUAL | ALL | 1 | | Frank Klauer Memorial Park | CR PK 4 | |
| 64981.699 4073424.461 0.05453 159.96 318 0 ANNUAL ALL 1 Park 7 CR PK, 7 | 644238.054 | 4078806.978 | 0.02469 | 95.25 | 95.25 | 0 | ANNUAL | ALL | 1 | | Veterans Memorial Park | CR PK 5 | |
| 64514.51.1 4077180.55 0.0226 133 133 0 ANNUAL ALL 1 Cerra Vista Elem School CR, SC, 10 62904.712 4077814.898 0.01758 123 313 0 ANNUAL ALL 1 Sun Andreas Continuation CR, SC, 10 64580.678 4074014.898 0.01758 123 313 0 ANNUAL ALL 1 South\$ide School CR, SC, 11 6469.893 407844.32 0.05171 128.52 128.52 0 ANNUAL ALL 1 Rancho Santana School CR, SC, 12 6469.893 407844.32 0.05171 128.52 128.52 0 ANNUAL ALL 1 Future School CR, SC, 13 64640.64 4074106 0.04550 159 240 0 ANNUAL ALL 1 Tree Pinos Union Elementary School CR, SC, 15 64440.66 4074106 0.04550 159 240 0 ANNUAL ALL 1 Tree Pinos Union Elementary School CR, SC, 15 64409.66 407810.60 0.01540 101.23 101.23 0 ANNUAL ALL 1 Hollister Montessori School CR, SC, 15 644309.61 4077340.04 0.01740 101.23 101.23 0 ANNUAL ALL 1 Hollister Montessori School CR, SC, 2 64399.01 407840.80 30.0164 92 92 9 ANNUAL ALL 1 Rancho Santana School CR, SC, 3 64399.01 407943.02 0.02632 88 88 0 ANNUAL ALL 1 Marguerite Maze Middle School CR, SC, 6 644309.02 407943.02 0.02632 88 88 0 ANNUAL ALL 1 Hollister Prep School CR, SC, 6 644309.03 4077181.17 0.01431 98.22 98.22 0 ANNUAL ALL 1 Hollister Prep School CR, SC, 6 644300.26 407943.02 0.02632 88 88 0 ANNUAL ALL 1 Hollister Prep School CR, SC, 6 644309.03 4077181.17 0.01431 98.22 98.22 0 ANNUAL ALL 1 Hollister Prep School CR, SC, 6 644309.04 4079173 0.03032 146.33 153 0 ANNUAL ALL 1 Gabilan Hills Elementary School CR, SC, 7 644002.96 407943.92 407943.92 407943.92 407943.92 407993.93 407943.92 407993.93 407943.92 407993.93 407943.93 407943.93 407943.93 407943.93 407943.93 407943.93 407943.93 407943.93 407943.93 407943.93 407943.93 407943.93 407943.93 407943.93 407943.93 407943.93 407943.9 | 645311.476 | 4076558.997 | 0.02273 | 134.61 | 134.61 | 0 | ANNUAL | ALL | 1 | | Park 6 | CR_PK_6 | |
| 642904.712 4079954.526 0.01861 86 | 649581.689 | 4073424.461 | 0.05453 | 159.96 | 318 | 0 | ANNUAL | ALL | 1 | | Park 7 | CR_PK_7 | |
| 64586,078 4074014,898 0.01758 123 313 0 ANNUAL ALL 1 SouthSide School CR SC 12 6402105,679 4078176,200 0.01166 91 91 0 ANNUAL ALL 1 School 2 CR SC 12 64038,933 4078443,2 0.05171 128.52 128.52 0 ANNUAL ALL 1 Rancho Santana School CR SC 13 64169 4075575 0.04291 158 158 0 ANNUAL ALL 1 Tres Finos Union Elementary School CR SC 14 64169 4075878,8 0.04250 98.2 98.2 0 ANNUAL ALL 1 Tres Finos Union Elementary School CR SC 15 64169.6 4078388,8 0 0.02240 98.2 98.2 0 ANNUAL ALL 1 Hollister Montessori School CR SC 15 64390.12 4077304,04 0.01740 1012.3 1012.3 0 ANNUAL ALL 1 Hollister Montessori School CR SC 3 64390.10 407803,3 0.01634 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School CR SC 4 643980.02 407803,3 0.01634 92 92 0 ANNUAL ALL 1 Marguerite Maze Middle School CR SC 6 643980.02 4079743,02 0.02652 88 88 0 ANNUAL ALL 1 Hollister Prep School CR SC 6 643390.03 4079141,1 0.01431 98.2 98.2 98.2 0 ANNUAL ALL 1 Hollister Prep School CR SC 6 643390.03 407948,1 4079153 0.01285 85 85 85 0 ANNUAL ALL 1 Ladd Lane Elementary School CR SC 6 64204.858 407804,1 4079153 0.02831 87 87 0 ANNUAL ALL 1 Gabilan Hills Elementary School CR SC 8 642244.858 407804,1 4079173 0.05802 40463 3153 0 ANNUAL ALL 1 Jovenes De Antano CR SC 8 642244.858 407804,1 4079738 0.01455 87.58 127 0 ANNUAL ALL 1 Jovenes De Antano CR SC 8 642244.858 4079739,3 0.0593 252.9 252.9 0 ANNUAL ALL 1 Grid Receptor 10 Gil 648144 4079173 0.05466 160 160 0 ANNUAL ALL 1 Grid Receptor 10 Gil 648144 4079773 0.05446 160 160 0 ANNUAL ALL 1 Grid Receptor 12 Gil 648144 4079773 0.05446 159.6 159.6 0 ANNUAL ALL 1 Grid Receptor 1 | 645145.11 | 4077180.55 | 0.02526 | 133 | 133 | 0 | ANNUAL | ALL | 1 | | Cerra Vista Elem School | CR SC 1 | |
| 642106.679 4078176.206 0.01166 91 91 0 ANNUAL ALL 1 Rancho Stantan School CR SC 1.2 | 642904.712 | 4079954.526 | 0.01861 | 86 | 86 | 0 | ANNUAL | ALL | 1 | | San Andreas Continuation | CR_SC_10 | |
| 647689.33 407844.12 0.05171 128.52 128.52 0 ANNUAL AIL 1 Rancho Santana School CR. SC. 13 School 6438.66 407410.6 0.04550 1.59 240 0 ANNUAL AIL 1 Tres Pinos Union Elementary School CR. SC. 14 School 6438.66 407410.6 0.04550 0.0240 98.2 98.2 0 ANNUAL AIL 1 Tres Pinos Union Elementary School CR. SC. 15 64490.12 4077304.04 0.01740 101.23 101.23 0 ANNUAL AIL 1 Bullister Morteson School CR. SC. 2 64390.12 4077304.04 0.01740 101.23 101.23 0 ANNUAL AIL 1 Bullister Morteson School CR. SC. 3 64396.107 40786.083 0.01634 92 92 0 ANNUAL AIL 1 Bullister Prep School CR. SC. 4 64390.107 407913.0 0.02622 88 88 0 ANNUAL AIL 1 Bullister Prep School CR. SC. 5 64163.017 407915.3 0.01285 85 85 0 ANNUAL AIL 1 Bullister Prep School CR. SC. 6 64350.01 407915.3 0.01285 85 85 0 ANNUAL AIL 1 Bullister Prep School CR. SC. 6 64350.01 407915.3 0.01285 85 85 0 ANNUAL AIL 1 Bullister Prep School CR. SC. 7 64400.26 4088078.78 0.02331 87 87 0 ANNUAL AIL 1 Gabilan Hills Elementary School CR. SC. 7 644024.85 4078412.96 0.01237 9.017 90.17 90.17 0 ANNUAL AIL 1 San Bentio High School CR. SC. 8 64204.84 407939.3652 0.01425 87.58 127 0 ANNUAL AIL 1 Jovenes De Antano CR. SR. 1 648404 4079793.8 0.51371 189.45 259 0 ANNUAL AIL 1 Nearest Workplace CR. WP. 1 648404 4079793 0.05406 160 160 0 ANNUAL AIL 1 Grid Receptor 10 Gilo 641744 4079573 0.05466 160 160 0 ANNUAL AIL 1 Grid Receptor 10 Gilo 641844 4078773 0.05466 160 160 0 ANNUAL AIL 1 Grid Receptor 10 Gilo 641844 4079773 0.05465 155.2 155.2 0 ANNUAL AIL 1 Grid Receptor 10 Gilo 641844 4079773 0.05465 159.6 0 ANNUAL AIL 1 Grid Receptor 10 Gilo 641844 4079773 0.05405 159.6 0 ANNUAL AIL 1 Grid Receptor 10 Gilo 64 | 645850.678 | 4074014.898 | 0.01758 | 123 | 313 | 0 | ANNUAL | ALL | 1 | | SouthSide School | CR SC 11 | |
| 643269 4075575 0.04291 158 158 0 ANNUAL ALL 1 Tres Pinos Union Elementary School CR SC 14 | 642105.679 | 4078176.206 | 0.01166 | 91 | 91 | 0 | ANNUAL | ALL | 1 | | School 12 | CR SC 12 | |
| 648466 4074106 0.04550 159 240 0 ANNUAL ALL 1 Tree Pinos Union Elementary School CR SC 2 644109.6 4078388.69 0.02240 98.2 98.2 0 ANNUAL ALL 1 Sumyslope Elem School CR SC 2 64390.12 4077304.04 0.01740 101.23 101.23 0 ANNUAL ALL 1 Hollister Montressori School CR SC 3 64396.107 407860.83 0.01634 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School CR SC 5 641630.17 407913.0 0.02632 88 88 0 ANNUAL ALL 1 Marguerite Marez Middle School CR SC 5 641630.17 407913.0 0.01431 98.22 98.22 0 ANNUAL ALL 1 Hollister Pep Schoo CR SC 5 641630.17 407913.0 0.01431 98.22 98.22 0 ANNUAL ALL 1 Ladd Lane Elementary School CR SC 6 64330.0 407181.17 0.01431 98.22 98.22 0 ANNUAL ALL 1 Ladd Lane Elementary School CR SC 6 64244.858 4078412.696 0.01237 90.17 90.17 0 ANNUAL ALL 1 Gabilan Hills Elementary School CR SC 8 64244.858 4078412.696 0.01237 90.17 90.17 0 ANNUAL ALL 1 San Benito High School CR SC 9 64264.858 4078412.696 0.01237 90.17 90.17 0 ANNUAL ALL 1 San Benito High School CR SC 9 64244.858 4078472.696 0.01237 90.17 90.17 0 ANNUAL ALL 1 Workplace CR WP 1 64602 4076879.07 0.03892 146.33 153 0 ANNUAL ALL 1 Workplace CR WP 1 64744 4079173 0.15072 155.2 155.2 0 ANNUAL ALL 1 Grid Receptor 1 Gil 647744 4079173 0.15072 155.2 155.2 0 ANNUAL ALL 1 Grid Receptor 1 Gil 648144 4078773 0.03646 160 160 0 ANNUAL ALL 1 Grid Receptor 1 Gil 648144 4078773 0.20444 159.6 159.6 0 ANNUAL ALL 1 Grid Receptor 1 Gil 648144 4078773 0.24345 158.3 181 0 ANNUAL ALL 1 Grid Receptor 1 Gil 648144 4078773 0.24345 158.3 181 0 ANNUAL ALL 1 Grid Receptor 1 Gil 648144 4078773 0.14822 177.1 240 0 ANNUAL ALL 1 Grid Receptor 1 | 646058.93 | 4078443.2 | 0.05171 | 128.52 | 128.52 | 0 | ANNUAL | ALL | 1 | | Rancho Santana School | CR_SC_13 | School 1 |
| 644109.6 4078388.69 0.02240 98.2 98.2 0 ANNUAL ALL 1 Bumyslope Elem School CR SC 2 64392.01 4077304.04 0.01740 101.23 101.23 0 ANNUAL ALL 1 Hollister Montessori School CR SC 3 64396.07 4078620.83 0.01634 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School CR SC 4 64398.02 4079743.02 0.02632 88 88 8 0 ANNUAL ALL 1 Marguerite Maze Middle School CR SC 5 641630.17 4079153 0.01285 85 85 0 ANNUAL ALL 1 Marguerite Maze Middle School CR SC 6 64350.03 4077181.17 0.01431 98.22 98.22 0 ANNUAL ALL 1 Ladd Lane Elementary School CR SC 7 64302.96 4080078.78 0.02831 87 87 0 ANNUAL ALL 1 Gabilan Hills Elementary School CR SC 7 64202.96 4080078.78 0.02831 87 87 0 ANNUAL ALL 1 Gabilan Hills Elementary School CR SC 8 64208.44858 4078412.696 0.01237 90.17 90.17 0 ANNUAL ALL 1 San Benito High School CR SC 9 64208.44858 4078412.696 0.01237 90.17 90.17 0 ANNUAL ALL 1 Son Benito High School CR SC 1 648949 40797938.8 0.51371 189.45 259 0 ANNUAL ALL 1 Workplace CR WP 2 647744 4079173 0.15072 155.2 155.2 0 ANNUAL ALL 1 Workplace CR WP 2 647744 4075573 0.05466 160 160 0 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4075573 0.05466 160 160 0 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4079173 0.15633 165.9 165.9 0 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4078773 0.23493 146.2 146.2 0 ANNUAL ALL 1 Grid Receptor 11 G11 648144 4078773 0.24445 158.3 181 0 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078773 0.2445 158.3 181 0 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 0.2445 158.3 181 0 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4078773 0.2445 158.3 181 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 0.2445 158.3 181 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 0.24545 158.3 181 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 0.24545 158.3 181 0 ANNUAL ALL 1 Grid Receptor 15 G16 648144 4077973 0.24545 158.3 181 0 ANNUAL ALL 1 Grid Receptor 15 G16 648144 4077973 0.24545 158.3 181 0 ANNUAL ALL 1 Grid Receptor 15 G16 648144 4077973 0.24545 158.3 181 0 ANNUAL ALL 1 Grid Receptor 15 G16 648144 4077973 0.2532 157.3 175.4 175.4 0 ANNUAL ALL 1 Grid | 647269 | 4075575 | 0.04291 | 158 | 158 | 0 | ANNUAL | ALL | 1 | | Future School | CR SC 14 | School 2 |
| 644109.6 4078388.69 0.02240 98.2 98.2 0 ANNUAL ALL 1 Bumyslope Elem School CR SC 2 64392.01 4077304.04 0.01740 101.23 101.23 0 ANNUAL ALL 1 Hollister Montessori School CR SC 3 64396.07 4078620.83 0.01634 92 92 0 ANNUAL ALL 1 Rancho San Justo Middle School CR SC 4 64398.02 4079743.02 0.02632 88 88 8 0 ANNUAL ALL 1 Marguerite Maze Middle School CR SC 5 641630.17 4079153 0.01285 85 85 0 ANNUAL ALL 1 Marguerite Maze Middle School CR SC 6 64350.03 4077181.17 0.01431 98.22 98.22 0 ANNUAL ALL 1 Ladd Lane Elementary School CR SC 7 64302.96 4080078.78 0.02831 87 87 0 ANNUAL ALL 1 Gabilan Hills Elementary School CR SC 7 64202.96 4080078.78 0.02831 87 87 0 ANNUAL ALL 1 Gabilan Hills Elementary School CR SC 8 64208.44858 4078412.696 0.01237 90.17 90.17 0 ANNUAL ALL 1 San Benito High School CR SC 9 64208.44858 4078412.696 0.01237 90.17 90.17 0 ANNUAL ALL 1 Son Benito High School CR SC 1 648949 40797938.8 0.51371 189.45 259 0 ANNUAL ALL 1 Workplace CR WP 2 647744 4079173 0.15072 155.2 155.2 0 ANNUAL ALL 1 Workplace CR WP 2 647744 4075573 0.05466 160 160 0 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4075573 0.05466 160 160 0 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4079173 0.15633 165.9 165.9 0 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4078773 0.23493 146.2 146.2 0 ANNUAL ALL 1 Grid Receptor 11 G11 648144 4078773 0.24445 158.3 181 0 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078773 0.2445 158.3 181 0 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 0.2445 158.3 181 0 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4078773 0.2445 158.3 181 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 0.2445 158.3 181 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 0.24545 158.3 181 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077973 0.24545 158.3 181 0 ANNUAL ALL 1 Grid Receptor 15 G16 648144 4077973 0.24545 158.3 181 0 ANNUAL ALL 1 Grid Receptor 15 G16 648144 4077973 0.24545 158.3 181 0 ANNUAL ALL 1 Grid Receptor 15 G16 648144 4077973 0.24545 158.3 181 0 ANNUAL ALL 1 Grid Receptor 15 G16 648144 4077973 0.2532 157.3 175.4 175.4 0 ANNUAL ALL 1 Grid | 648466 | 4074106 | 0.04550 | 159 | 240 | 0 | ANNUAL | ALL | 1 | | Tres Pinos Union Elementary School | CR SC 15 | |
| 64398.0.2 407943.02 0.02632 88 88 0 ANNUAL ALL 1 Margurite Maze Middle School CR SC 5 64398.0.2 407943.02 0.02632 88 88 0 ANNUAL ALL 1 Margurite Maze Middle School CR SC 5 64398.0.2 407943.02 0.02632 85 85 85 0 ANNUAL ALL 1 Hollister Prep Schoo CR SC 6 643350.03 4077181.17 0.01431 98.22 98.22 0 ANNUAL ALL 1 Ladd Lane Elementary School CR SC 7 64302.09 4080078.78 0.02831 87 87 0 ANNUAL ALL 1 Gabian Hills Elementary School CR SC 8 64224.858 4078412.696 0.01237 90.17 90.17 0 ANNUAL ALL 1 San Benito High School CR SC 8 64224.858 4078412.696 0.01237 90.17 90.17 0 ANNUAL ALL 1 San Benito High School CR SC 8 64208.3447 4079793.652 0.01425 87.58 127 0 ANNUAL ALL 1 Workplace CR WP 1 64602 4076879.07 0.03892 146.33 153 0 ANNUAL ALL 1 Nearest Workplace CR WP 2 64794 40797938 0.51371 189.45 259 0 ANNUAL ALL 1 Nearest Workplace CR WP 2 64794 40797938 0.51371 189.45 259 0 ANNUAL ALL 1 Grid Receptor 1 GI 647744 4079173 0.15072 155.2 155.2 0 ANNUAL ALL 1 Grid Receptor 10 GI 0 651344 4075573 0.05466 160 160 0 ANNUAL ALL 1 Grid Receptor 10 GI 0 661844 4075733 0.0503 252.9 252.9 0 ANNUAL ALL 1 Grid Receptor 10 GI 0 661844 4079773 0.15633 165.9 165.9 0 ANNUAL ALL 1 Grid Receptor 1 GI 1 648144 4079773 0.20444 159.6 159.6 0 ANNUAL ALL 1 Grid Receptor 1 GI 1 648144 4079773 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 1 GI 1 648144 4079773 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 1 GI 2 648144 4079773 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 1 GI 2 648144 4077973 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 1 GI 648144 4077973 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 1 GI 648144 4077973 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 1 GI 648144 4077973 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 1 GI 648144 4077973 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 1 GI 648144 4077973 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 1 GI 648144 4077973 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 1 GI 648144 4077973 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 1 GI 648144 4077973 0.24245 158.3 181 0 ANNUAL ALL 1 | 644109.6 | 4078388.69 | 0.02240 | 98.2 | 98.2 | 0 | ANNUAL | ALL | 1 | | | CR_SC_2 | |
| 64398.0.2 4079743.02 0.02632 88 88 0 ANUAL ALL 1 Marguerite Maze Middle School CR SC 5 64398.0.2 4079743.02 0.02632 88 88 0 ANUAL ALL 1 Marguerite Maze Middle School CR SC 5 641630.17 4079153 0.01285 85 85 85 0 ANUAL ALL 1 Hollister Prey School CR SC 6 643350.03 4077181.17 0.01431 98.22 98.22 0 ANUAL ALL 1 Ladd Lane Elementary School CR SC 6 643350.03 4077181.17 0.01431 98.22 98.22 0 ANUAL ALL 1 Gablian Hills Elementary School CR SC 8 642024.858 4078412.696 0.01237 90.17 90.17 0 ANUAL ALL 1 Gablian Hills Elementary School CR SC 8 64224.858 4078412.696 0.01237 90.17 90.17 0 ANUAL ALL 1 San Benito High School CR SC 8 64208.3447 4079793.652 0.01425 87.58 127 0 ANUAL ALL 1 Jovenes De Antano CR SC 9 64208.3447 4079793.652 0.01425 87.58 127 0 ANUAL ALL 1 Workplace CR WP 1 648949 4077938 0.51371 189.45 259 0 ANUAL ALL 1 Nearest Workplace CR WP 1 648744 4079173 0.15072 155.2 155.2 0 ANUAL ALL 1 Grid Receptor 1 GI 647744 4079173 0.15072 155.2 155.2 0 ANUAL ALL 1 Grid Receptor 10 GI0 651344 4075573 0.05466 160 160 0 ANUAL ALL 1 Grid Receptor 10 GI0 6618144 4079173 0.15633 165.9 165.9 0 ANUAL ALL 1 Grid Receptor 11 GI1 648144 4079773 0.24245 158.3 181 0 ANUAL ALL 1 Grid Receptor 11 GI1 648144 4079773 0.24245 158.3 181 0 ANUAL ALL 1 Grid Receptor 13 GI3 648144 4079773 0.24245 158.3 181 0 ANUAL ALL 1 Grid Receptor 14 GI4 648144 4078773 0.24245 158.3 181 0 ANUAL ALL 1 Grid Receptor 15 GI5 648144 4077773 0.24245 158.3 181 0 ANUAL ALL 1 Grid Receptor 15 GI5 648144 4077773 0.24245 158.3 181 0 ANUAL ALL 1 Grid Receptor 15 GI5 648144 4077773 0.24245 158.3 181 0 ANUAL ALL 1 Grid Receptor 15 GI5 648144 4077773 0.24245 158.3 181 0 ANUAL ALL 1 Grid Receptor 15 GI5 648144 4077773 0.24245 158.3 181 0 ANUAL ALL 1 Grid Receptor 15 GI5 648144 4077773 0.24245 158.3 181 0 ANUAL ALL 1 Grid Receptor 15 GI5 648144 4077773 0.24245 158.3 181 0 ANUAL ALL 1 Grid Receptor 15 GI5 648144 4077773 0.24245 158.3 181 0 ANUAL ALL 1 Grid Receptor 15 GI5 648144 4077773 0.24245 158.3 181 0 ANUAL ALL 1 Grid Receptor 15 GI5 648144 4077873 0.24245 158.3 181 0 A | 643920.12 | 4077304.04 | 0.01740 | 101.23 | 101.23 | 0 | ANNUAL | ALL | 1 | | Hollister Montessori School | CR SC 3 | |
| 64130.17 4079153 0.01285 85 85 0 ANNUAL ALL 1 Hollister Prep Schoo CR SC 6 643350.03 4077181.17 0.01431 98.22 98.22 0 ANNUAL ALL 1 Ladd Lane Elementary School CR SC 7 644002.96 4080078.78 0.02831 87 87 0 ANNUAL ALL 1 Gabilan Hills Elementary School CR SC 7 64202.96 4080078.78 0.02831 87 87 0 ANNUAL ALL 1 Gabilan Hills Elementary School CR SC 7 6 64204.4858 4078412.696 0.01237 90.17 90.17 0 ANNUAL ALL 1 San Benito High School CR SC 9 64224.4858 4078412.696 0.01237 90.17 90.17 0 ANNUAL ALL 1 San Benito High School CR SC 9 9 642083.447 4079793.652 0.01425 87.58 127 0 ANNUAL ALL 1 Workplace CR WP 1 646402 4076879.07 0.03892 146.33 153 0 ANNUAL ALL 1 Workplace CR WP 1 648949 40779738 0.51371 189.45 259 0 ANNUAL ALL 1 Nearest Workplace CR WP 2 647744 4079173 0.15072 155.2 155.2 0 ANNUAL ALL 1 Grid Receptor 1 G1 647744 4079573 0.05466 160 160 0 ANNUAL ALL 1 Grid Receptor 10 G10 647744 4075573 0.05466 160 160 0 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4079573 0.05466 165.9 165.9 0 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4078733 0.20444 159.6 159.6 0 ANNUAL ALL 1 Grid Receptor 11 G11 648144 4078733 0.23393 146.2 146.2 0 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078733 0.23393 146.2 146.2 0 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4078733 0.23493 146.2 146.2 0 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4078733 0.23493 146.2 146.2 0 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4077573 0.26332 166.6 179 0 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4077573 0.26332 166.6 179 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077573 0.26332 177.1 240 0 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076733 0.19974 175.4 175.4 0 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076733 0.19974 175.4 175.4 0 ANNUAL ALL 1 Grid Receptor 19 G19 648144 4076733 0.19974 175.4 175.4 0 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076733 0.19974 175.4 175.4 0 ANNUAL ALL 1 Grid Receptor 19 G19 648144 4076733 0.19974 175.4 175.4 0 ANNUAL ALL 1 Grid Receptor 19 G19 648144 4076733 0.19978 1455.4 155.4 0 ANNUAL ALL 1 Grid Receptor 19 G19 648144 4076733 0.19989 1455.4 155.4 | 642961.07 | 4078620.83 | 0.01634 | 92 | 92 | 0 | ANNUAL | ALL | 1 | | Rancho San Justo Middle School | | |
| 643350.03 4077181.17 0.01431 98.22 98.22 0 ANNUAL ALL 1 Ladd Lane Elementary School CR SC 7 64002.96 4080078.78 0.02831 87 87 0 ANNUAL ALL 1 Gablian Hills Elementary School CR SC 9 642044.888 4078412.696 0.01237 90.17 90.17 0 ANNUAL ALL 1 San Benito High School CR SC 9 642083.447 4079793.652 0.01425 87.58 127 0 ANNUAL ALL 1 Jovenes De Antano CR SR 1 646402 4076879.07 0.03892 146.33 153 0 ANNUAL ALL 1 Nearest Workplace CR WP 1 648949 4077938 0.51371 189.45 259 0 ANNUAL ALL 1 Nearest Workplace CR WP 2 647744 4079173 0.15072 155.2 155.2 0 ANNUAL ALL 1 Grid Receptor 1 GI 647744 4075573 0.05466 160 160 0 ANNUAL ALL 1 Grid Receptor 10 GI0 648144 407573 0.3503 252.9 252.9 0 ANNUAL ALL 1 Grid Receptor 10 GI0 648144 4078773 0.15633 165.9 165.9 0 ANNUAL ALL 1 Grid Receptor 11 GI1 648144 4078773 0.20444 159.6 159.6 0 ANNUAL ALL 1 Grid Receptor 12 GI2 648144 4077973 0.22445 158.3 181 0 ANNUAL ALL 1 Grid Receptor 13 GI3 648144 4077773 0.26332 166.6 179 0 ANNUAL ALL 1 Grid Receptor 14 GI4 648144 4077773 0.26332 166.6 179 0 ANNUAL ALL 1 Grid Receptor 15 GI5 648144 4077773 0.26332 166.6 179 0 ANNUAL ALL 1 Grid Receptor 15 GI5 648144 4077773 0.14822 177.1 240 0 ANNUAL ALL 1 Grid Receptor 16 GI6 648144 4076773 0.14822 177.1 240 0 ANNUAL ALL 1 Grid Receptor 17 GI7 648144 4075773 0.16908 178 240 0 ANNUAL ALL 1 Grid Receptor 19 GI9 648144 4075773 0.14822 177.1 240 0 ANNUAL ALL 1 Grid Receptor 19 GI9 648144 4075773 0.17814 175.4 175.4 0 ANNUAL ALL 1 Grid Receptor 19 GI9 648144 4075773 0.17814 175.4 175.4 0 ANNUAL ALL 1 Grid Receptor 19 GI9 648144 4075773 0.18919 173.5 191 0 ANNUAL ALL 1 Grid Receptor 20 | 643980.02 | 4079743.02 | 0.02632 | 88 | 88 | 0 | ANNUAL | ALL | 1 | | Marguerite Maze Middle School | CR_SC_5 | |
| G4204.858 407847.8 40281.8 87 87 0 ANNUAL ALL 1 Gabilan Hills Elementary School CR_SC_8 | 641630.17 | 4079153 | 0.01285 | 85 | 85 | 0 | ANNUAL | ALL | 1 | | Hollister Prep Schoo | CR SC 6 | |
| 64204.858 407847.8 4078773 4078773 4078773 4078773 407878.2 407874.2 4078773 | 643350.03 | 4077181.17 | 0.01431 | 98.22 | 98.22 | 0 | ANNUAL | ALL | 1 | | Ladd Lane Elementary School | CR SC 7 | |
| 642083.447 4079793.652 0.01425 87.58 127 0 ANNUAL ALL 1 Jovenes De Antano CR SR I 646402 4076879.07 0.03892 146.33 153 0 ANNUAL ALL 1 Workplace CR WP 2 648949 4077938 0.51371 189.45 259 0 ANNUAL ALL 1 Nearest Workplace CR WP 2 647744 4079173 0.15072 155.2 155.2 0 ANNUAL ALL 1 Grid Receptor 1 GI 647744 4075573 0.05466 160 160 0 ANNUAL ALL 1 Grid Receptor 10 GI0 648144 4075573 0.05663 165.9 165.9 0 ANNUAL ALL 1 Grid Receptor 10 GI0 648144 4078773 0.20444 159.6 159.6 0 ANNUAL ALL 1 Grid Receptor 12 GI2 648144 4078773 0.22425 15 | 644002.96 | 4080078.78 | 0.02831 | 87 | 87 | 0 | ANNUAL | ALL | 1 | | Gabilan Hills Elementary School | | |
| 646402 4076879.07 0.03892 146.33 153 0 ANNUAL ALL 1 Workplace CR_WP_1 | 642244.858 | 4078412.696 | 0.01237 | 90.17 | 90.17 | 0 | | ALL | 1 | | San Benito High School | CR_SC_9 | |
| 646402 4076879.07 0.03892 146.33 153 0 ANNUAL ALL 1 Workplace CR_WP_1 | 642083.447 | 4079793.652 | 0.01425 | 87.58 | 127 | 0 | ANNUAL | ALL | 1 | | Jovenes De Antano | CR SR 1 | |
| 647744 4079173 0.15072 155.2 155.2 0 ANNUAL ALL 1 Grid Receptor 1 G1 647744 4075573 0.05466 160 160 0 ANNUAL ALL 1 Grid Receptor 10 G10 651344 4075573 0.30503 252.9 252.9 0 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4079173 0.15633 165.9 165.9 0 ANNUAL ALL 1 Grid Receptor 11 G11 648144 4079173 0.20444 159.6 159.6 0 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078373 0.20444 159.6 159.6 0 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 0.26332 166.6 179 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 407773 0.19974 175.4 175.4 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 407773 0.14282 177.1 240 0 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 0.14282 177.1 240 0 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 0.14282 177.1 240 0 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 0.14282 177.1 240 0 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 0.14282 177.1 240 0 ANNUAL ALL 1 Grid Receptor 19 G19 64704 4076373 0.14282 177.1 240 0 ANNUAL ALL 1 Grid Receptor 19 G19 64704 4076373 0.150801 178 240 0 ANNUAL ALL 1 Grid Receptor 19 G19 64704 4078773 0.17234 145.4 145.4 0 ANNUAL ALL 1 Grid Receptor 19 G19 64704 4078773 0.17234 145.4 145.4 0 ANNUAL ALL 1 Grid Receptor 2 G2 648144 407573 0.17234 145.4 145.4 0 ANNUAL ALL 1 Grid Receptor 2 G2 648144 407573 0.17234 145.4 145.4 0 ANNUAL ALL 1 Grid Receptor 2 G2 648144 407573 0.17234 145.4 145.4 0 ANNUAL ALL 1 Grid Receptor 2 G2 648144 4079173 0.15219 173.5 191 0 ANNUAL ALL 1 Grid Receptor 2 G2 648144 4079173 0.15219 173.5 191 0 ANNUAL ALL 1 Grid Receptor 2 G2 648544 4079173 0.15219 173.5 191 0 ANNUAL ALL 1 Grid Receptor 2 G2 648544 4079773 0.34301 173.9 214 0 ANNUAL ALL 1 Grid Receptor 2 G2 648544 4077573 0.34301 173.9 214 0 ANNUAL ALL 1 Grid Receptor 2 G2 648544 4077573 0.34301 173.9 214 0 ANNUAL ALL 1 Grid Receptor 2 G2 648544 4077573 0.34301 173.9 214 0 ANNUAL ALL 1 Grid Receptor 2 G2 | 646402 | 4076879.07 | 0.03892 | 146.33 | 153 | 0 | | ALL | 1 | | Workplace | CR_WP_1 | |
| 647744 4075573 0.05466 160 160 0 ANNUAL ALL 1 Grid Receptor 10 G10 651344 4075573 0.30503 252.9 252.9 0 ANNUAL ALL 1 Grid Receptor 10 G10 648144 4078773 0.15633 165.9 165.9 0 ANNUAL ALL 1 Grid Receptor 11 G11 648144 4078773 0.20444 159.6 159.6 0 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078773 0.2393 146.2 146.2 0 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 0.26332 166.6 179 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077773 0.14282 177.1 240 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4076773 0.14282 177.1 | 648949 | 4077938 | 0.51371 | 189.45 | 259 | 0 | ANNUAL | ALL | 1 | | Nearest Workplace | CR_WP_2 | MEIW |
| 651344 407573 0.30503 252.9 252.9 0 ANNUAL ALL 1 Grid Receptor 100 G100 648144 4079173 0.15633 165.9 165.9 0 ANNUAL ALL 1 Grid Receptor 11 G11 648144 4078773 0.20444 159.6 159.6 0 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078373 0.23393 146.2 146.2 10.2 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4078773 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4077573 0.26332 166.6 179 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077773 0.101777 0.10177 0.10 | 647744 | 4079173 | 0.15072 | 155.2 | 155.2 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 1 | G1 | |
| 648144 4079173 0.15633 165.9 165.9 0 ANNUAL ALL 1 Grid Receptor 11 G11 648144 4078773 0.20444 159.6 159.6 0 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078373 0.23393 146.2 146.2 0 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4077573 0.26332 166.6 179 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077573 0.19974 175.4 175.4 0 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076773 0.14282 177.1 240 0 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 0.10801 178 | 647744 | 4075573 | 0.05466 | 160 | 160 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 10 | G10 | |
| 648144 4078773 0.20444 159.6 159.6 0 ANNUAL ALL 1 Grid Receptor 12 G12 648144 4078373 0.23393 146.2 146.2 0 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4077573 0.26332 166.6 179 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077173 0.19974 175.4 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4076773 0.14282 177.1 240 0 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 0.10801 178 240 0 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4078573 0.17234 145.4 145.4 < | 651344 | 4075573 | 0.30503 | 252.9 | 252.9 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 100 | G100 | |
| 648144 4078373 0.23393 146.2 0 ANNUAL ALL 1 Grid Receptor 13 G13 648144 4077973 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4077573 0.26332 166.6 179 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077173 0.19974 175.4 175.4 0 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076773 0.14282 177.1 240 0 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 0.10801 178 240 0 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4075973 0.09008 173 240 0 ANNUAL ALL 1 Grid Receptor 19 G19 647744 4078773 0.17234 145.4 0 ANNUA | 648144 | | | 165.9 | 165.9 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 11 | G11 | |
| 648144 4077973 0.24245 158.3 181 0 ANNUAL ALL 1 Grid Receptor 14 G14 648144 4077573 0.26332 166.6 179 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077173 0.19974 175.4 175.4 0 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076773 0.14282 177.1 240 0 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 0.10801 178 240 0 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4075973 0.09008 173 240 0 ANNUAL ALL 1 Grid Receptor 19 G19 647744 4078773 0.17234 145.4 145.4 0 ANNUAL ALL 1 Grid Receptor 2 G2 648144 4075573 0.07108 168.8 190 | 648144 | 4078773 | 0.20444 | 159.6 | 159.6 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 12 | G12 | |
| 648144 4077573 0.26332 166.6 179 0 ANNUAL ALL 1 Grid Receptor 15 G15 648144 4077173 0.19974 175.4 175.4 0 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076773 0.14282 177.1 240 0 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 0.10801 178 240 0 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4075973 0.09008 173 240 0 ANNUAL ALL 1 Grid Receptor 19 G19 647744 4078773 0.17234 145.4 145.4 0 ANNUAL ALL 1 Grid Receptor 2 G2 648144 4075573 0.07108 168.8 190 0 ANNUAL ALL 1 Grid Receptor 20 G20 648544 4079173 0.15219 173.5 191 0 ANNUAL ALL 1 Grid Receptor 21 G | 648144 | 4078373 | 0.23393 | 146.2 | 146.2 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 13 | G13 | |
| 648144 4077173 0.19974 175.4 175.4 0 ANNUAL ALL 1 Grid Receptor 16 G16 648144 4076773 0.14282 177.1 240 0 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 0.10801 178 240 0 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4075973 0.09008 173 240 0 ANNUAL ALL 1 Grid Receptor 19 G19 647744 4078773 0.17234 145.4 145.4 0 ANNUAL ALL 1 Grid Receptor 2 G2 648144 4075573 0.07108 168.8 190 0 ANNUAL ALL 1 Grid Receptor 20 G20 648544 4079173 0.15219 173.5 191 0 ANNUAL ALL 1 Grid Receptor 21 G21 648544 4078773 0.21402 166.2 0 ANNUAL ALL 1 Grid Receptor 22 G22 | 648144 | 4077973 | 0.24245 | 158.3 | 181 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 14 | G14 | |
| 648144 4076773 0.14282 177.1 240 0 ANNUAL ALL 1 Grid Receptor 17 G17 648144 4076373 0.10801 178 240 0 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4075973 0.09008 173 240 0 ANNUAL ALL 1 Grid Receptor 19 G19 647744 4078773 0.17234 145.4 145.4 0 ANNUAL ALL 1 Grid Receptor 2 G2 648144 4075573 0.07108 168.8 190 0 ANNUAL ALL 1 Grid Receptor 20 G20 648544 4079173 0.15219 173.5 191 0 ANNUAL ALL 1 Grid Receptor 21 G21 648544 4078773 0.21402 166.2 166.2 0 ANNUAL ALL 1 Grid Receptor 22 G22 648544 4078373 0.29756 145.4 253 0 ANNUAL ALL 1 Grid Receptor 23 G | 648144 | 4077573 | 0.26332 | 166.6 | 179 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 15 | G15 | |
| 648144 4076373 0.10801 178 240 0 ANNUAL ALL 1 Grid Receptor 18 G18 648144 4075973 0.09008 173 240 0 ANNUAL ALL 1 Grid Receptor 19 G19 647744 4078773 0.17234 145.4 145.4 0 ANNUAL ALL 1 Grid Receptor 2 G2 648144 4075573 0.07108 168.8 190 0 ANNUAL ALL 1 Grid Receptor 20 G20 648544 4079173 0.15219 173.5 191 0 ANNUAL ALL 1 Grid Receptor 21 G21 648544 4078773 0.21402 166.2 166.2 0 ANNUAL ALL 1 Grid Receptor 22 G22 648544 4078373 0.29756 145.4 253 0 ANNUAL ALL 1 Grid Receptor 23 G23 648544 4077973 0.34301 173.9 214 | 648144 | 4077173 | 0.19974 | 175.4 | 175.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 16 | G16 | |
| 648144 4075973 0.09008 173 240 0 ANNUAL ALL 1 Grid Receptor 19 G19 647744 4078773 0.17234 145.4 145.4 0 ANNUAL ALL 1 Grid Receptor 2 G2 648144 4075573 0.07108 168.8 190 0 ANNUAL ALL 1 Grid Receptor 20 G20 648544 4079173 0.15219 173.5 191 0 ANNUAL ALL 1 Grid Receptor 21 G21 648544 4078773 0.21402 166.2 166.2 0 ANNUAL ALL 1 Grid Receptor 22 G22 648544 4078373 0.29756 145.4 253 0 ANNUAL ALL 1 Grid Receptor 23 G23 648544 4077973 0.34301 173.9 214 0 ANNUAL ALL 1 Grid Receptor 24 G24 648544 4077573 0.37814 179.6 2 | 648144 | 4076773 | 0.14282 | 177.1 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 17 | G17 | |
| 647744 4078773 0.17234 145.4 145.4 0 ANNUAL ALL 1 1 Grid Receptor 2 G2 648144 4075573 0.07108 168.8 190 0 ANNUAL ALL 1 1 Grid Receptor 20 G20 648544 4079173 0.15219 173.5 191 0 ANNUAL ALL 1 1 Grid Receptor 21 G21 648544 4078773 0.21402 166.2 166.2 0 ANNUAL ALL 1 1 Grid Receptor 22 G22 648544 4078373 0.29756 145.4 253 0 ANNUAL ALL 1 1 Grid Receptor 23 G23 648544 4077973 0.34301 173.9 214 0 ANNUAL ALL 1 1 Grid Receptor 24 G24 648544 4077573 0.37814 179.6 227 0 ANNUAL ALL 1 1 Grid Receptor 25 G25 | 648144 | 4076373 | 0.10801 | 178 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 18 | G18 | |
| 648144 4075573 0.07108 168.8 190 0 ANNUAL ALL 1 Grid Receptor 20 G20 648544 4079173 0.15219 173.5 191 0 ANNUAL ALL 1 Grid Receptor 21 G21 648544 4078773 0.21402 166.2 166.2 0 ANNUAL ALL 1 Grid Receptor 22 G22 648544 4078373 0.29756 145.4 253 0 ANNUAL ALL 1 Grid Receptor 23 G23 648544 4077973 0.34301 173.9 214 0 ANNUAL ALL 1 Grid Receptor 24 G24 648544 4077573 0.37814 179.6 227 0 ANNUAL ALL 1 Grid Receptor 25 G25 | 648144 | 4075973 | 0.09008 | 173 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 19 | G19 | |
| 648544 4079173 0.15219 173.5 191 0 ANNUAL ALL 1 Grid Receptor 21 G21 648544 4078773 0.21402 166.2 166.2 0 ANNUAL ALL 1 Grid Receptor 22 G22 648544 4078373 0.29756 145.4 253 0 ANNUAL ALL 1 Grid Receptor 23 G23 648544 4077973 0.34301 173.9 214 0 ANNUAL ALL 1 Grid Receptor 24 G24 648544 4077573 0.37814 179.6 227 0 ANNUAL ALL 1 Grid Receptor 25 G25 | 647744 | 4078773 | 0.17234 | 145.4 | 145.4 | 0 | ANNUAL | | 1 | | Grid Receptor 2 | | |
| 648544 4078773 0.21402 166.2 166.2 0 ANNUAL ALL 1 Grid Receptor 22 G22 648544 4078373 0.29756 145.4 253 0 ANNUAL ALL 1 Grid Receptor 23 G23 648544 4077973 0.34301 173.9 214 0 ANNUAL ALL 1 Grid Receptor 24 G24 648544 4077573 0.37814 179.6 227 0 ANNUAL ALL 1 Grid Receptor 25 G25 | | 4075573 | | 168.8 | 190 | 0 | | ALL | 1 | | Grid Receptor 20 | | |
| 648544 4078373 0.29756 145.4 253 0 ANNUAL ALL 1 Grid Receptor 23 G23 648544 4077973 0.34301 173.9 214 0 ANNUAL ALL 1 Grid Receptor 24 G24 648544 4077573 0.37814 179.6 227 0 ANNUAL ALL 1 Grid Receptor 25 G25 | 648544 | | | 173.5 | 191 | 0 | | | 1 | | Grid Receptor 21 | | |
| 648544 4077973 0.34301 173.9 214 0 ANNUAL ALL 1 Grid Receptor 24 G24 648544 4077573 0.37814 179.6 227 0 ANNUAL ALL 1 Grid Receptor 25 G25 | 648544 | | | 166.2 | 166.2 | 0 | ANNUAL | | 1 | | Grid Receptor 22 | | |
| 648544 4077573 0.37814 179.6 227 0 ANNUAL ALL 1 Grid Receptor 25 G25 | 648544 | 4078373 | 0.29756 | 145.4 | 253 | 0 | ANNUAL | ALL | 1 | | | G23 | |
| | | | | 173.9 | 214 | 0 | ANNUAL | | 1 | | Grid Receptor 24 | | |
| 648544 4077173 0.67701 191 226 0 ANNUAL ALL 1 Grid Receptor 26 G26 | | 4077573 | | 179.6 | 227 | 0 | ANNUAL | | 1 | | Grid Receptor 25 | G25 | |
| | 648544 | 4077173 | 0.67701 | 191 | 226 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 26 | G26 | |

09/01/21

* AERMET (21112): 2020

08:38:24

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 284 RECEPTORS.

| X | Y | .5),3(1X,F8.2),2X,A6,2X,A8,; AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|--------|---------|--|-------|-------|-------|---------|---------------|---------|--------|------------------------------------|------------|
| 648544 | 4076773 | 0.28866 | 209.2 | 240 | O O | ANNUAL | ALL | | TOTAL | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.17071 | 233.7 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 28 | G27 |
| 648544 | 4075973 | 0.13066 | 199.9 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 29 | G28 G29 |
| 647744 | 4078373 | 0.17241 | 144.4 | 144.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 3 | G29 |
| 648544 | 4075573 | 0.17241 | 195.5 | 227 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.10110 | 193.3 | 194 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 31 | G30 G31 |
| 648944 | 4079173 | 0.13008 | 165.4 | 165.4 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 31 Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.19270 | 159.6 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 32 Grid Receptor 33 | G32 |
| 648944 | | | | | 0 | ANNUAL | ALL | 1 | | * | |
| | 4077973 | 0.49774 | 183.5 | 259 | | | | 1 | | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.60369 | 224 | 226 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.37926 | 205 | 240 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.22036 | 208.8 | 220 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.17410 | 134.6 | 181 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.13592 | 185.6 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.10273 | 187.4 | 801 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.14804 | 160.9 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.25579 | 200.5 | 221 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 0.60780 | 229 | 253 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.99605 | 253.3 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.95475 | 220.2 | 263 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.36933 | 227.2 | 227.2 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.14727 | 163.8 | 171 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.21299 | 205.5 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.07388 | 176.1 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.10746 | 195 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.16808 | 196.1 | 227 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.33282 | 215.3 | 251 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.99055 | 221.6 | 259 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 1.68678 | 211.7 | 266 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.59966 | 237.7 | 257 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.11551 | 158.4 | 171 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.30730 | 204.2 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.05990 | 173 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.07763 | 171 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.11176 | 204.6 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.18335 | 216.5 | 290 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.20327 | 257.7 | 257.7 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 1.85690 | 231.4 | 272 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.73572 | 249.4 | 266 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.08915 | 164.7 | 164.7 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.42934 | 216.4 | 300 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.04291 | 177 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.05262 | 180.9 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.07638 | 196.6 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.13038 | 236.9 | 801 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.10366 | 261.3 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.92422 | 260.9 | 260.9 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 78 | G78 |
| 050577 | 40/03/3 | 0.ノムマムム | 200.9 | 200.7 | U | ALTIUAL | / 1 LL | 1 | | GIR Receptor /6 | 3/0 |

09/01/21

* AERMET (21112): 2020

08:38:24

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

- FOR A TOTAL OF 284 RECEPTORS.
- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|------------|--------------|--------|--------|-------|--------|-----|---------|--------|-----------------------|------|
| 650544 | 4075973 | 0.79231 | 226.7 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.07271 | 164 | 164 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 0.30613 | 268.2 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.03613 | 181.3 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.04478 | 178.4 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.06851 | 214.8 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.07782 | 249.9 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.03680 | 276.5 | 296 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.26486 | 225.6 | 296 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.49162 | 219.8 | 267 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.57227 | 209.2 | 273 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.53339 | 216.6 | 287 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.06726 | 160.7 | 160.7 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.43977 | 243.2 | 289 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.03341 | 191 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.04091 | 181 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.04969 | 214.3 | 830 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.05461 | 248.4 | 826 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.09160 | 213.2 | 826 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.17423 | 213.6 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.24904 | 203.5 | 813 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.30867 | 205.6 | 220 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.32065 | 205.8 | 269 | 0 | ANNUAL | ALL | 1 | | Grid Receptor 99 | G99 |
| 649484.05 | 4077537.42 | 1.21713 | 254.01 | 257 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 10 | P10 |
| 649584.03 | 4077538.59 | 1.80641 | 235.3 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 11 | P11 |
| 649684.02 | 4077539.76 | 1.28567 | 221.29 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 12 | P12 |
| 649784 | 4077540.93 | 1.00243 | 222.37 | 260 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 13 | P13 |
| 649883.99 | 4077542.1 | 0.85967 | 233.6 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 14 | P14 |
| 649983.97 | 4077543.45 | 0.53216 | 249.54 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 15 | P15 |
| 650083.94 | 4077545.65 | 0.23520 | 258.89 | 258.89 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 16 | P16 |
| 650183.91 | 4077547.85 | 0.17745 | 259.56 | 259.56 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 17 | P17 |
| 650283.87 | 4077550.05 | 0.18669 | 256.77 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 18 | P18 |
| 650383.84 | 4077552.25 | 0.27813 | 242.37 | 290 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 19 | P19 |
| 650483.81 | 4077554.45 | 0.23414 | 242.23 | 296 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 20 | P20 |
| 650583.78 | 4077556.65 | 0.10998 | 259.71 | 290 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 21 | P21 |
| 650683.75 | 4077558.85 | 0.10840 | 257.58 | 296 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 22 | P22 |
| 650776.81 | 4077553.84 | 0.05959 | 267.9 | 296 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 23 | P23 |
| 650778.91 | 4077453.87 | 0.05234 | 275.91 | 275.91 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 24 | P24 |
| 650781 | 4077353.9 | 0.10219 | 265.73 | 281 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 25 | P25 |
| 650783.1 | 4077253.93 | 0.23199 | 251.08 | 282 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 26 | P26 |
| 650785.19 | 4077153.96 | 0.28018 | 252.83 | 281 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 27 | P27 |
| 650787.29 | 4077053.99 | 0.40568 | 246.1 | 269 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 28 | P28 |
| 650789.38 | 4076954.02 | 0.53602 | 241.37 | 269 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 29 | P29 |
| 650791.48 | 4076854.05 | 0.59276 | 246.79 | 251 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 30 | P30 |
| 650793.57 | 4076754.08 | 0.74295 | 228.75 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 31 | P31 |
| 650754.39 | 4076683.11 | 0.80672 | 217.76 | 271 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 32 | P32 |
| 650660.22 | 4076649.5 | 1.11600 | 221.2 | 273 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 33 | P33 |
| | | | | _,, | | | | • | | , , , , , , | - 55 |

09/01/21

* AERMET (21112): 2020

08:38:24

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| TORWIA | 11.(A,1A,3(1A,113) | .5),5(1A,F6.2),2A,A0,2A,A6, | $,2\Lambda,10.0,2\Lambda,\Lambda$ | .0) | | | | | | | |
|-----------|--------------------|-----------------------------|-----------------------------------|--------|-------|----------|-----|---------|--------|-----------------------|-------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
| 650561.43 | 4076649.99 | 1.62106 | 220.83 | 273 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 34 | P34 |
| 650462.72 | 4076665.95 | 2.76041 | 223.42 | 273 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 35 | P35 |
| 650364.01 | 4076681.9 | 4.31761 | 222.46 | 263 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 36 | P36 |
| 650264.24 | 4076683.08 | 4.66334 | 223.19 | 263 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 37 | P37 F |
| 650164.71 | 4076674.46 | 4.51592 | 222.1 | 249 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 38 | P38 |
| 650065.8 | 4076659.74 | 4.13714 | 217.03 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 39 | P39 |
| 649980.44 | 4076626.71 | 4.06085 | 214.82 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 40 | P40 |
| 649920.26 | 4076547.41 | 3.30164 | 214.91 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 41 | P41 |
| 649852.19 | 4076474.41 | 2.63364 | 214.09 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 42 | P42 |
| 649770.68 | 4076416.8 | 2.00923 | 211.53 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 43 | P43 |
| 649680.48 | 4076374.63 | 1.82281 | 210.17 | 266 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 44 | P44 |
| 649580.91 | 4076368.3 | 1.66505 | 208.52 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 45 | P45 |
| 649482.48 | 4076383.73 | 1.41975 | 207.5 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 46 | P46 |
| 649391.59 | 4076425.15 | 1.49252 | 205.17 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 47 | P47 |
| 649303.5 | 4076472.31 | 1.52526 | 202.16 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 48 | P48 |
| 649226.19 | 4076535.29 | 1.45708 | 196.38 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 49 | P49 |
| 649156.2 | 4076605.17 | 1.60744 | 195.87 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 50 | P50 |
| 649068.25 | 4076652.76 | 1.39017 | 196.32 | 264 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 51 | P51 |
| 648986.7 | 4076710.52 | 1.25394 | 192.42 | 263 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 52 | P52 |
| 648936.53 | 4076759.27 | 1.25504 | 192.46 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 53 | P53 |
| 648868.58 | 4076832.5 | 1.30211 | 191.63 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 54 | P54 |
| 648797.23 | 4076902.21 | 1.37523 | 186.32 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 55 | P55 |
| 648710.56 | 4076951.69 | 1.15509 | 179.81 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 56 | P56 |
| 648620.79 | 4076995.72 | 0.69144 | 176.23 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 57 | P57 |
| 648607.19 | 4077051.27 | 0.85988 | 175.02 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 58 | P58 |
| 648680.07 | 4077119.49 | 1.15263 | 180.62 | 250 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 59 | P59 |
| 649084.12 | 4077532.21 | 0.71378 | 216.54 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 6 | P6 |
| 648759.24 | 4077180.33 | 0.69805 | 183.47 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 60 | P60 |
| 648791.44 | 4077262.37 | 0.57050 | 202.88 | 245 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 61 | P61 |
| 648788.45 | 4077362.32 | 0.48412 | 178.21 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 62 | P62 |
| 648691.25 | 4077361.04 | 0.47991 | 176.25 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 63 | P63 |
| 648591.35 | 4077356.85 | 0.48532 | 176 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 64 | P64 |
| 648525.69 | 4077371.4 | 0.46513 | 175.24 | 245 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 65 | P65 |
| 648586.93 | 4077430.21 | 0.43224 | 175.13 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 66 | P66 |
| 649184.09 | 4077533.91 | 0.93423 | 230.71 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 7 | P7 |
| 649284.08 | 4077535.08 | 1.04853 | 248.08 | 259 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 8 | P8 |
| 649384.06 | 4077536.25 | 0.90616 | 258.43 | 258.43 | 0 | ANNUAL | ALL | 1 | | Boundary Perimeter 9 | P9 |
| 645930 | 4077982.6 | 0.04341 | 127.38 | 127.38 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646030 | 4077982.6 | 0.04572 | 131.21 | 131.21 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646130 | 4077982.6 | 0.04824 | 135.89 | 135.89 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646230 | 4077982.6 | 0.05099 | 139.18 | 139.18 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646330 | 4077982.6 | 0.05400 | 140.76 | 140.76 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646430 | 4077982.6 | 0.05737 | 143.89 | 143.89 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646530 | 4077982.6 | 0.06109 | 145.22 | 145.22 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646630 | 4077982.6 | 0.06526 | 147.21 | 147.21 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646730 | 4077982.6 | 0.06988 | 148.3 | 160 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 645930 | 4077982.6 | 0.04441 | 127.58 | 127.58 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 043930 | 40/0002.0 | 0.04441 | 14/.30 | 12/.30 | U | AININUAL | ALL | 1 | | New Development | KI_GI |

PMI

09/01/21

* AERMET (21112): 2020

08:38:24

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| TOKWI | $A1. (A,1\Lambda,3(1\Lambda,\Gamma))$ | 5.5),5(1A,F6.2),2A,A0,2A,A6 | ,2A,10.0,2A,A | 0) | | | | | | | | _ |
|-----------|---------------------------------------|-----------------------------|---------------|------------------|-------|--------|------------|---------|--------|-----------------|--------|------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | | GRP | NUM YRS | NET ID | Description | ID | |
| 646030 | 4078082.6 | 0.04679 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646130 | 4078082.6 | 0.04942 | 134.35 | 134.35 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646230 | 4078082.6 | 0.05237 | 139.22 | 139.22 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646330 | 4078082.6 | 0.05567 | 144.65 | 144.65 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646430 | 4078082.6 | 0.05914 | 142.28 | 142.28 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646530 | 4078082.6 | 0.06316 | 146.76 | 146.76 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646630 | 4078082.6 | 0.06758 | 150.64 | 150.64 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646730 | 4078082.6 | 0.07254 | 155.4 | 157 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 645930 | 4078182.6 | 0.04547 | 127.22 | 127.22 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646030 | 4078182.6 | 0.04801 | 130.56 | 130.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646130 | 4078182.6 | 0.05081 | 133.89 | 133.89 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646230 | 4078182.6 | 0.05396 | 140.45 | 140.45 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646330 | 4078182.6 | 0.05746 | 146.94 | 146.94 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646430 | 4078182.6 | 0.06088 | 140.23 | 140.23 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646530 | 4078182.6 | 0.06500 | 147.25 | 147.25 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646630 | 4078182.6 | 0.06948 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646730 | 4078182.6 | 0.07466 | 157.78 | 166 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 645930 | 4078282.6 | 0.04664 | 126.06 | 126.06 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646030 | 4078282.6 | 0.04930 | 129.56 | 129.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646130 | 4078282.6 | 0.05218 | 132.89 | 132.89 | 0 | ANNUAL | ALL | 1 | | New Development | RP G1 | - |
| 646230 | | | 132.89 | 132.89 | 0 | ANNUAL | ALL | 1 | | | RP G1 | |
| | 4078282.6 | 0.05535 | | | | | | 1 | | New Development | | |
| 646330 | 4078282.6 | 0.05874 0.06225 | 142.68 | 142.68 140.02 | 0 | ANNUAL | ALL ALL | 1 | | New Development | RP_G1 | |
| 646430 | 4078282.6 | | 140.02 | | 0 | ANNUAL | | 1 | | New Development | RP_G1 | |
| 646530 | 4078282.6 | 0.06643 | 147.22 | 147.22 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646630 | 4078282.6 | 0.07112 | 151.56 | 151.56 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646730 | 4078282.6 | 0.07663 | 156.78 | 166 | 0 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 648659.32 | 4077241.2 | 0.66130 | 205.79 | 205.79 | 0 | ANNUAL | ALL | 1 | | House 1 | RP_H1 | MEII |
| 648071.24 | 4076116.26 | 0.09222 | 169.6 | 240 | 0 | ANNUAL | ALL | 1 | | House 10 | RP_H10 | |
| 648247.37 | 4076278.08 | 0.11982 | 184.55 | 240 | 0 | ANNUAL | ALL | 1 | | House 11 | RP_H11 | |
| 648027.19 | 4076255.14 | 0.09353 | 169.38 | 240 | 0 | ANNUAL | ALL | 1 | | House 12 | RP_H12 | |
| 648065.77 | 4076359.39 | 0.09889 | 173.83 | 240 | 0 | ANNUAL | ALL | 1 | | House 13 | RP_H13 | |
| 648138.68 | 4076399.8 | 0.10802 | 178.22 | 240 | 0 | ANNUAL | ALL | 1 | | House 14 | RP_H14 | |
| 648254.71 | 4076411.38 | 0.12613 | 191.28 | 240 | 0 | ANNUAL | ALL | 1 | | House 15 | RP_H15 | |
| 647877.81 | 4076365.37 | 0.08185 | 165.39 | 240 | 0 | ANNUAL | ALL | 1 | | House 16 | RP_H16 | |
| 647520 | 4076206 | 0.06001 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 17 | RP_H17 | |
| 647921 | 4076247.13 | 0.08474 | 164 | 240 | 0 | ANNUAL | ALL | 1 | | House 18 | RP_H18 | |
| 647708.78 | 4076351.65 | 0.07018 | 163.52 | 163.52 | 0 | ANNUAL | ALL | 1 | | House 19 | RP_H19 | |
| 648371.71 | 4075470.41 | 0.08046 | 173.69 | 227 | 0 | ANNUAL | ALL | 1 | | House 2 | RP_H2 | |
| 647703.58 | 4076251.07 | 0.06982 | 162.17 | 162.17 | 0 | ANNUAL | ALL | 1 | | House 20 | RP_H20 | |
| 647718.77 | 4076103.98 | 0.07035 | 159.35 | 159.35 | 0 | ANNUAL | ALL | 1 | | House 21 | RP_H21 | |
| 647843.32 | 4076124.94 | 0.07729 | 163 | 234 | 0 | ANNUAL | ALL | 1 | | House 22 | RP_H22 | |
| 647842.26 | 4076500.39 | 0.08565 | 167.93 | 167.93 | 0 | ANNUAL | ALL | 1 | | House 23 | RP_H23 | |
| 647727.75 | 4076644.22 | 0.08697 | 164.15 | 164.15 | 0 | ANNUAL | ALL | 1 | | House 24 | RP_H24 | |
| 647823.91 | 4076643.73 | 0.09500 | 168.29 | 168.29 | 0 | ANNUAL | ALL | 1 | | House 25 | RP H25 | |
| 647530 | 4076497 | 0.06814 | 159.56 | 159.56 | 0 | ANNUAL | ALL | 1 | | House 26 | RP H26 | |
| 647810.11 | 4076853.73 | 0.09840 | 162.9 | 162.9 | 0 | ANNUAL | ALL | 1 | | House 27 | RP H27 | |
| 647697.48 | 4076989.26 | 0.10023 | 161.42 | 162 | 0 | ANNUAL | ALL | 1 | | House 28 | RP H28 | |
| , | | | | | | | | • | | | | |

09/01/21

* AERMET (21112): 2020

08:38:24

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 284 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|------------|--------------|--------|--------|-------|--------|-----|---------|--------|-------------|------------------|
| 648225.5 | 4076181.52 | 0.11147 | 183.22 | 240 | 0 | ANNUAL | ALL | 1 | | House 29 | RP H29 |
| 647678.23 | 4075969.18 | 0.06453 | 159.5 | 159.5 | 0 | ANNUAL | ALL | 1 | | House 3 | RP H3 |
| 645876.32 | 4077487.41 | 0.03623 | 127.13 | 142 | 0 | ANNUAL | ALL | 1 | | House 30 | RP H30 |
| 650902 | 4076062 | 0.58181 | 215.24 | 287 | 0 | ANNUAL | ALL | 1 | | House 31 | RP H31 |
| 651490 | 4076597 | 0.23658 | 205.5 | 813 | 0 | ANNUAL | ALL | 1 | | House 32 | RP H32 |
| 651565 | 4077067 | 0.16752 | 213.93 | 813 | 0 | ANNUAL | ALL | 1 | | House 33 | RP H33 |
| 648672.77 | 4075306.77 | 0.09976 | 225.91 | 227 | 0 | ANNUAL | ALL | 1 | | House 34 | RP H34 |
| 648383.6 | 4075469.08 | 0.08104 | 174.44 | 227 | 0 | ANNUAL | ALL | 1 | | House 35 | RP H35 |
| 646379.37 | 4077232.58 | 0.04394 | 146 | 146 | 0 | ANNUAL | ALL | 1 | | House 36 | RP_H36 |
| 651849.72 | 4075865.15 | 0.19428 | 201.97 | 333 | 0 | ANNUAL | ALL | 1 | | House 37 | RP H37 |
| 652045.49 | 4076210.24 | 0.15098 | 196.88 | 813 | 0 | ANNUAL | ALL | 1 | | House 38 | RP H38 |
| 652255.69 | 4076390.67 | 0.12323 | 197.06 | 813 | 0 | ANNUAL | ALL | 1 | | House 39 | RP H39 |
| 647815.25 | 4075985.43 | 0.07088 | 162.04 | 162.04 | 0 | ANNUAL | ALL | 1 | | House 4 | RP H4 |
| 646853.73 | 4077372.88 | 0.06004 | 145.99 | 145.99 | 0 | ANNUAL | ALL | 1 | | House 40 | RP H40 |
| 647050.21 | 4077359.57 | 0.06837 | 145 | 145 | 0 | ANNUAL | ALL | 1 | | House 41 | RP H41 |
| 647286.42 | 4077474.4 | 0.08887 | 149.68 | 153 | 0 | ANNUAL | ALL | 1 | | House 42 | RP H42 |
| 647359.05 | 4077339.84 | 0.08676 | 154.45 | 159 | 0 | ANNUAL | ALL | 1 | | House 43 | RP H43 |
| 647490.41 | 4077328.53 | 0.09751 | 162.28 | 162.28 | 0 | ANNUAL | ALL | 1 | | House 44 | RP H44 |
| 647522.17 | 4077251.76 | 0.09603 | 164.3 | 164.3 | 0 | ANNUAL | ALL | 1 | | House 45 | RP H45 |
| 647517.82 | 4077138.85 | 0.09258 | 164.01 | 164.01 | 0 | ANNUAL | ALL | 1 | | House 46 | RP H46 |
| 646819.01 | 4077258.4 | 0.05676 | 151.53 | 152 | 0 | ANNUAL | ALL | 1 | | House 47 | RP H47 |
| 646778.72 | 4077127.63 | 0.05405 | 151.55 | 158.51 | 0 | ANNUAL | ALL | 1 | | House 48 | RP H48 |
| 646987.26 | 4077213.1 | 0.06251 | 146.44 | 146.44 | 0 | ANNUAL | ALL | 1 | | House 49 | RP H49 |
| 647898.2 | 4076032.8 | 0.07695 | 163.83 | 237 | 0 | ANNUAL | ALL | 1 | | House 5 | RP H5 |
| 647241.77 | 4077226.51 | 0.07514 | 154.85 | 154.85 | 0 | ANNUAL | ALL | 1 | | House 50 | RP H50 |
| 646773.05 | 4077063.03 | 0.05276 | 154.85 | 154.85 | 0 | ANNUAL | ALL | 1 | | House 51 | RP H51 |
| 647104.37 | 4077117.93 | 0.06637 | 148.99 | 148.99 | 0 | ANNUAL | ALL | 1 | | House 52 | RP H52 |
| 647291.9 | 4077123.08 | 0.07649 | 158.62 | 158.62 | 0 | ANNUAL | ALL | 1 | | House 53 | RP_H32 RP_H53 |
| 646765.24 | 4076977.94 | 0.05039 | 158.67 | 158.67 | 0 | ANNUAL | ALL | 1 | | House 54 | RP H54 |
| 646995.65 | 4076983.8 | 0.05802 | 152.34 | 152.34 | 0 | ANNUAL | ALL | 1 | | House 55 | RP_H34 RP_H55 |
| 647317.21 | 4077030.98 | 0.03802 | 160.22 | 160.22 | 0 | ANNUAL | ALL | 1 | | House 56 | RP_H55 |
| | | | | | | | | 1 | | | _ |
| 647398.39 | 4077013.06 | 0.07902 | 161.26 | 161.26 | 0 | ANNUAL | ALL | 1 | | House 57 | RP_H57 |
| 646978.93 | 4076903.58 | 0.05442 | 156.81 | 156.81 | 0 | ANNUAL | ALL | 1 | | House 58 | RP_H58 |
| 647015.19 | 4076807.16 | 0.05212 | 156.21 | 156.21 | 0 | ANNUAL | ALL | 1 | | House 59 | RP_H59 |
| 648045.44 | 4076017.78 | 0.08549 | 168.26 | 240 | 0 | ANNUAL | ALL | 1 | | House 6 | RP_H6 |
| 647163.96 | 4076802.21 | 0.05692 | 154.38 | 154.38 | 0 | ANNUAL | ALL | 1 | | House 60 | RP_H60 |
| 647310.58 | 4076940.38 | 0.06997 | 162.49 | 162.49 | 0 | ANNUAL | ALL | 1 | | House 61 | RP_H61 |
| 647298.09 | 4076805.15 | 0.06239 | 158 | 158 | 0 | ANNUAL | ALL | I | | House 62 | RP_H62 |
| 647446.56 | 4076899.85 | 0.07462 | 159.45 | 159.45 | 0 | ANNUAL | ALL | 1 | | House 63 | RP_H63 |
| 647464.49 | 4076780.74 | 0.06966 | 159.32 | 159.32 | 0 | ANNUAL | ALL | 1 | | House 64 | RP_H64 |
| 647512 | 4076536 | 0.06936 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 65 | RP_H65 |
| 651131 | 4078767 | 0.04377 | 179.58 | 830 | 0 | ANNUAL | ALL | 1 | | House 66 | RP_H66 |
| 647131 | 4077336 | 0.07178 | 146.77 | 146.77 | 0 | ANNUAL | ALL | 1 | | House 67 | RP_H67 |
| 646798 | 4076740 | 0.04471 | 156.07 | 156.07 | 0 | ANNUAL | ALL | 1 | | House 68 | RP_H68 |
| 646900 | 4076802 | 0.04869 | 159 | 159 | 0 | ANNUAL | ALL | 1 | | House 69 | RP_H69 |
| 648126.33 | 4075955.37 | 0.08773 | 171.51 | 240 | 0 | ANNUAL | ALL | 1 | | House 7 | RP_H7 |
| 647317 | 4076662 | 0.06145 | 159.9 | 159.9 | 0 | ANNUAL | ALL | 1 | | House 70 | RP_H70 |

09/01/21

* AERMET (21112): 2020

08:38:24

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|------------|--------------|--------|-------|-------|--------|-----|---------|--------|-------------|-------|
| 648249.26 | 4075969.84 | 0.09859 | 183.42 | 240 | 0 | ANNUAL | ALL | 1 | | House 8 | RP_H8 |
| 648218.58 | 4076108.95 | 0.10573 | 182.28 | 240 | 0 | ANNUAL | ALL | 1 | | House 9 | RP_H9 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in µg/m³.

08/31/21

* AERMET (21112): 2018

14:20:50

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | .,5(17 1 ,1 15.5),5(17 1 ,1 0. | | 1,710,271,10.0 | | | | | | | |
|------------|---------|--|--------|----------------|-------|--------|-----|----------------|------------------------------------|----------|----------|
| X | Y | AVERAGE CONC | | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
| 645996 | 4078698 | 0.06397 | 123.85 | 123.85 | 1.5 | ANNUAL | ALL | 1 | AQ Monitoring Station | AQ_ST_1 | |
| 643903.65 | 4077719 | 0.02691 | 105.68 | 105.68 | 1.5 | ANNUAL | ALL | 1 | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642056.782 | | 0.02207 | 85.12 | 85.12 | 1.5 | ANNUAL | ALL | 1 | Dunne Park | CR_PK_1 | |
| 642179.095 | | 0.02272 | 117.99 | 117.99 | 1.5 | ANNUAL | ALL | 1 | Vista Park Hill Park | CR_PK_2 | |
| 644733.142 | 4078753 | 0.04356 | 106.44 | 106.44 | 1.5 | ANNUAL | ALL | 1 | Las Brisas Park | CR_PK_3 | |
| 645608.808 | 4078854 | 0.05473 | 112.86 | 112.86 | 1.5 | ANNUAL | ALL | 1 | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238.054 | 4078807 | 0.03777 | 95.25 | 95.25 | 1.5 | ANNUAL | ALL | 1 | Veterans Memorial Park | CR_PK_5 | |
| 645311.476 | 4076559 | 0.03551 | 134.61 | 134.61 | 1.5 | ANNUAL | ALL | 1 | Park 6 | CR_PK_6 | |
| 649581.689 | 4073424 | 0.04721 | 159.96 | 318 | 1.5 | ANNUAL | ALL | 1 | Park 7 | CR_PK_7 | |
| 645145.11 | 4077181 | 0.03799 | 133 | 133 | 1.5 | ANNUAL | ALL | 1 | Cerra Vista Elem School | CR_SC_1 | |
| 642904.712 | 4079955 | 0.025 | 86 | 86 | 1.5 | ANNUAL | ALL | 1 | San Andreas Continuation | CR_SC_10 | |
| 645850.678 | 4074015 | 0.01738 | 123 | 313 | 1.5 | ANNUAL | ALL | 1 | SouthSide School | CR_SC_11 | |
| 642105.679 | 4078176 | 0.01823 | 91 | 91 | 1.5 | ANNUAL | ALL | 1 | School 12 | CR_SC_12 | |
| 646058.93 | 4078443 | 0.06921 | 128.52 | 128.52 | 1.5 | ANNUAL | ALL | 1 | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.04465 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.03511 | 159 | 240 | 1.5 | ANNUAL | ALL | 1 | Tres Pinos Union Elementary School | CR SC 15 | |
| 644109.6 | 4078389 | 0.03685 | 98.2 | 98.2 | 1.5 | ANNUAL | ALL | 1 | Sunnyslope Elem School | CR SC 2 | |
| 643920.12 | 4077304 | 0.02578 | 101.23 | 101.23 | 1.5 | ANNUAL | ALL | 1 | Hollister Montessori School | CR SC 3 | |
| 642961.07 | 4078621 | 0.02751 | 92 | 92 | 1.5 | ANNUAL | ALL | 1 | Rancho San Justo Middle School | CR SC 4 | |
| 643980.02 | 4079743 | 0.03094 | 88 | 88 | 1.5 | ANNUAL | ALL | 1 | Marguerite Maze Middle School | CR SC 5 | |
| 641630.17 | 4079153 | 0.02058 | 85 | 85 | 1.5 | ANNUAL | ALL | 1 | Hollister Prep Schoo | CR SC 6 | |
| 643350.03 | 4077181 | 0.02213 | 98.22 | 98.22 | 1.5 | ANNUAL | ALL | 1 | Ladd Lane Elementary School | CR SC 7 | |
| 644002.96 | 4080079 | 0.02873 | 87 | 87 | 1.5 | ANNUAL | ALL | 1 | Gabilan Hills Elementary School | CR SC 8 | |
| 642244.858 | 4078413 | 0.02148 | 90.17 | 90.17 | 1.5 | ANNUAL | ALL | 1 | San Benito High School | CR SC 9 | |
| 642083.447 | 4079794 | 0.02217 | 87.58 | 127 | 1.5 | ANNUAL | ALL | 1 | Jovenes De Antano | CR SR 1 | |
| 646402 | 4076879 | 0.06146 | 146.33 | 153 | 1.5 | ANNUAL | ALL | 1 | Workplace | CR WP 1 | |
| 648949 | 4077938 | 0.37971 | 189.45 | 259 | 1.5 | ANNUAL | ALL | 1 | Nearest Workplace | CR WP 2 | MEIW |
| 647744 | 4079173 | 0.10893 | 155.2 | 155.2 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.05777 | 160 | 160 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.28757 | 252.9 | 252.9 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.1176 | 165.9 | 165.9 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.14741 | 159.6 | 159.6 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 12 | G12 | |
| 648144 | 4078373 | 0.17506 | 146.2 | 146.2 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 13 | G13 | |
| 648144 | 4077973 | 0.22334 | 158.3 | 181 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 14 | G14 | |
| 648144 | 4077573 | 0.28648 | 166.6 | 179 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 15 | G15 | |
| 648144 | 4077173 | 0.30313 | 175.4 | 175.4 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 16 | G16 | |
| 648144 | 4076773 | 0.20874 | 177.1 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 17 | G17 | |
| 648144 | 4076373 | 0.13496 | 178 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 18 | G18 | |
| 648144 | 4075973 | 0.08859 | 173 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 19 | G19 | |
| | | | | | | | | | 1 | | |

08/31/21

* AERMET (21112): 2018

14:20:50

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|--------|---------|--------------|-------|-------|-------|--------|-----|----------------|------------------|-----|
| 647744 | 4078773 | 0.12511 | 145.4 | 145.4 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.0685 | 168.8 | 190 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.10859 | 173.5 | 191 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.15894 | 166.2 | 166.2 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.21494 | 145.4 | 253 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.27133 | 173.9 | 214 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.3849 | 179.6 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.66482 | 191 | 226 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.40421 | 209.2 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.18681 | 233.7 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.13065 | 199.9 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.14624 | 144.4 | 144.4 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.08683 | 195.5 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.08868 | 190.4 | 194 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.1344 | 165.4 | 165.4 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.22958 | 159.6 | 259 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.36495 | 183.5 | 259 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.57726 | 224 | 226 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.37482 | 205 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.1915 | 208.8 | 220 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.17549 | 134.6 | 181 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.11474 | 185.6 | 300 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.07293 | 187.4 | 801 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.10153 | 160.9 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.18 | 200.5 | 221 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 0.43776 | 229 | 253 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.7191 | 253.3 | 259 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.83398 | 220.2 | 263 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.2975 | 227.2 | 227.2 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.19379 | 163.8 | 171 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.18232 | 205.5 | 300 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.06376 | 176.1 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.0908 | 195 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.13688 | 196.1 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.26098 | 215.3 | 251 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.76267 | 221.6 | 259 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 1.54143 | 211.7 | 266 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.50593 | 237.7 | 257 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.18052 | 158.4 | 171 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 6 | G6 |

08/31/21

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* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

| X Y AVERAGE CONC ZELEY ZIIILL ZFLAG AVE GRP NUM YRS NET ID Description ID 649744 4075573 0.26041 204.2 300 1.5 ANNUAL ALL 1 Grid Receptor 60 G60 650144 4078773 0.07653 171 830 1.5 ANNUAL ALL 1 Grid Receptor 62 G62 650144 4078773 0.07653 171 830 1.5 ANNUAL ALL 1 Grid Receptor 62 G62 650144 4078773 0.19706 216.5 290 1.5 ANNUAL ALL 1 Grid Receptor 63 G63 650144 4077573 0.25844 257.7 257.7 1.5 ANNUAL ALL 1 Grid Receptor 65 G65 650144 4076373 1.62404 231.4 272 1.5 ANNUAL ALL 1 Grid Receptor 68 G68 650144 4075973 0.13956 |
|--|
| 650144 4079173 0.05649 173 830 1.5 ANNUAL ALL 1 Grid Receptor 61 G61 650144 4078773 0.07653 171 830 1.5 ANNUAL ALL 1 Grid Receptor 62 G62 650144 4078373 0.19706 216.5 290 1.5 ANNUAL ALL 1 Grid Receptor 63 G63 650144 4077973 0.19706 216.5 290 1.5 ANNUAL ALL 1 Grid Receptor 64 G64 650144 4077573 0.25844 257.7 257.7 1.5 ANNUAL ALL 1 Grid Receptor 65 G65 650144 4076373 1.62404 231.4 272 1.5 ANNUAL ALL 1 Grid Receptor 68 G68 650144 4075973 0.6115 249.4 266 1.5 ANNUAL ALL 1 Grid Receptor 76 G7 650144 4075573 0.37613 216.4 |
| 650144 4078773 0.07653 171 830 1.5 ANNUAL ALL 1 Grid Receptor 62 G62 650144 4078373 0.1172 204.6 813 1.5 ANNUAL ALL 1 Grid Receptor 63 G63 650144 4077973 0.19706 216.5 290 1.5 ANNUAL ALL 1 Grid Receptor 64 G64 650144 4077573 0.25844 257.7 257.7 1.5 ANNUAL ALL 1 Grid Receptor 65 G65 650144 4076373 1.62404 231.4 272 1.5 ANNUAL ALL 1 Grid Receptor 68 G68 650144 4075973 0.6115 249.4 266 1.5 ANNUAL ALL 1 Grid Receptor 69 G69 647744 4076773 0.13956 164.7 164.7 1.5 ANNUAL ALL 1 Grid Receptor 7 G7 650144 4079173 0.05153 177 |
| 650144 4078373 0.1172 204.6 813 1.5 ANNUAL ALL 1 Grid Receptor 63 G63 650144 4077973 0.19706 216.5 290 1.5 ANNUAL ALL 1 Grid Receptor 64 G64 650144 4077573 0.25844 257.7 257.7 1.5 ANNUAL ALL 1 Grid Receptor 65 G65 650144 4076733 1.62404 231.4 272 1.5 ANNUAL ALL 1 Grid Receptor 68 G68 650144 4076733 0.6115 249.4 266 1.5 ANNUAL ALL 1 Grid Receptor 69 G69 647744 4076773 0.13956 164.7 164.7 1.5 ANNUAL ALL 1 Grid Receptor 69 G69 647744 4076773 0.37613 216.4 300 1.5 ANNUAL ALL 1 Grid Receptor 70 G7 650544 4078773 0.06753 180.9 |
| 650144 4077973 0.19706 216.5 290 1.5 ANNUAL ALL 1 Grid Receptor 64 G64 650144 4077573 0.25844 257.7 257.7 1.5 ANNUAL ALL 1 Grid Receptor 65 G65 650144 4076373 1.62404 231.4 272 1.5 ANNUAL ALL 1 Grid Receptor 68 G68 650144 4075973 0.6115 249.4 266 1.5 ANNUAL ALL 1 Grid Receptor 69 G69 647744 4076773 0.13956 164.7 164.7 1.5 ANNUAL ALL 1 Grid Receptor 7 G7 650144 4075573 0.37613 216.4 300 1.5 ANNUAL ALL 1 Grid Receptor 70 G7 650544 4078173 0.05153 177 830 1.5 ANNUAL ALL 1 Grid Receptor 71 G71 650544 4078773 0.06753 180.9 |
| 650144 4077573 0.25844 257.7 257.7 1.5 ANNUAL ALL 1 Grid Receptor 65 G65 650144 4076373 1.62404 231.4 272 1.5 ANNUAL ALL 1 Grid Receptor 68 G68 650144 4075973 0.6115 249.4 266 1.5 ANNUAL ALL 1 Grid Receptor 69 G69 647744 4076773 0.13956 164.7 164.7 1.5 ANNUAL ALL 1 Grid Receptor 7 G7 650144 4075573 0.37613 216.4 300 1.5 ANNUAL ALL 1 Grid Receptor 70 G70 650544 4079173 0.05153 177 830 1.5 ANNUAL ALL 1 Grid Receptor 70 G70 650544 4078773 0.06753 180.9 830 1.5 ANNUAL ALL 1 Grid Receptor 72 G72 650544 4078373 0.09527 196.6 |
| 650144 4076373 1.62404 231.4 272 1.5 ANNUAL ALL 1 Grid Receptor 68 G68 650144 4075973 0.6115 249.4 266 1.5 ANNUAL ALL 1 Grid Receptor 69 G69 647744 4076773 0.13956 164.7 1.5 ANNUAL ALL 1 Grid Receptor 7 G7 650144 407573 0.37613 216.4 300 1.5 ANNUAL ALL 1 Grid Receptor 70 G70 650544 4079173 0.05153 177 830 1.5 ANNUAL ALL 1 Grid Receptor 70 G70 650544 4078773 0.06753 180.9 830 1.5 ANNUAL ALL 1 Grid Receptor 71 G71 650544 4078373 0.09527 196.6 830 1.5 ANNUAL ALL 1 Grid Receptor 73 G73 650544 4077573 0.16253 261.3 287 |
| 650144 4075973 0.6115 249.4 266 1.5 ANNUAL ALL 1 Grid Receptor 69 G69 647744 4076773 0.13956 164.7 164.7 1.5 ANNUAL ALL 1 Grid Receptor 7 G7 650144 4075573 0.37613 216.4 300 1.5 ANNUAL ALL 1 Grid Receptor 70 G70 650544 4079173 0.05153 177 830 1.5 ANNUAL ALL 1 Grid Receptor 71 G71 650544 4078773 0.06753 180.9 830 1.5 ANNUAL ALL 1 Grid Receptor 72 G72 650544 4078373 0.09527 196.6 830 1.5 ANNUAL ALL 1 Grid Receptor 73 G73 650544 4077573 0.17094 236.9 801 1.5 ANNUAL ALL 1 Grid Receptor 74 G74 650544 4077573 0.16253 261.3 |
| 647744 4076773 0.13956 164.7 164.7 1.5 ANNUAL ALL 1 Grid Receptor 7 G7 650144 4075573 0.37613 216.4 300 1.5 ANNUAL ALL 1 Grid Receptor 70 G70 650544 4079173 0.05153 177 830 1.5 ANNUAL ALL 1 Grid Receptor 71 G71 650544 4078773 0.06753 180.9 830 1.5 ANNUAL ALL 1 Grid Receptor 72 G72 650544 4078773 0.09527 196.6 830 1.5 ANNUAL ALL 1 Grid Receptor 72 G72 650544 4077973 0.17094 236.9 801 1.5 ANNUAL ALL 1 Grid Receptor 74 G74 650544 407573 0.16253 261.3 287 1.5 ANNUAL ALL 1 Grid Receptor 75 G75 650544 4076373 0.79673 260.9 |
| 650144 4075573 0.37613 216.4 300 1.5 ANNUAL ALL 1 Grid Receptor 70 G70 650544 4079173 0.05153 177 830 1.5 ANNUAL ALL 1 Grid Receptor 71 G71 650544 4078773 0.06753 180.9 830 1.5 ANNUAL ALL 1 Grid Receptor 72 G72 650544 4078373 0.09527 196.6 830 1.5 ANNUAL ALL 1 Grid Receptor 73 G73 650544 4077973 0.17094 236.9 801 1.5 ANNUAL ALL 1 Grid Receptor 74 G74 650544 4077573 0.16253 261.3 287 1.5 ANNUAL ALL 1 Grid Receptor 75 G75 650544 4076373 0.79673 260.9 260.9 1.5 ANNUAL ALL 1 Grid Receptor 78 G78 650544 4075973 0.6829 226.7 |
| 650544 4079173 0.05153 177 830 1.5 ANNUAL ALL 1 Grid Receptor 71 G71 650544 4078773 0.06753 180.9 830 1.5 ANNUAL ALL 1 Grid Receptor 72 G72 650544 4078373 0.09527 196.6 830 1.5 ANNUAL ALL 1 Grid Receptor 73 G73 650544 4077973 0.17094 236.9 801 1.5 ANNUAL ALL 1 Grid Receptor 74 G74 650544 4077573 0.16253 261.3 287 1.5 ANNUAL ALL 1 Grid Receptor 75 G75 650544 4076373 0.79673 260.9 260.9 1.5 ANNUAL ALL 1 Grid Receptor 78 G78 650544 4075973 0.6829 226.7 287 1.5 ANNUAL ALL 1 Grid Receptor 79 G79 647744 4076373 0.10102 164 |
| 650544 4078773 0.06753 180.9 830 1.5 ANNUAL ALL 1 Grid Receptor 72 G72 650544 4078373 0.09527 196.6 830 1.5 ANNUAL ALL 1 Grid Receptor 73 G73 650544 4077973 0.17094 236.9 801 1.5 ANNUAL ALL 1 Grid Receptor 74 G74 650544 4077573 0.16253 261.3 287 1.5 ANNUAL ALL 1 Grid Receptor 75 G75 650544 4076373 0.79673 260.9 260.9 1.5 ANNUAL ALL 1 Grid Receptor 78 G78 650544 4075973 0.6829 226.7 287 1.5 ANNUAL ALL 1 Grid Receptor 79 G79 647744 4076373 0.10102 164 164 1.5 ANNUAL ALL 1 Grid Receptor 8 G8 650544 4075573 0.22842 268.2 |
| 650544 4077973 0.17094 236.9 801 1.5 ANNUAL ALL 1 Grid Receptor 74 G74 650544 4077573 0.16253 261.3 287 1.5 ANNUAL ALL 1 Grid Receptor 75 G75 650544 4076373 0.79673 260.9 260.9 1.5 ANNUAL ALL 1 Grid Receptor 78 G78 650544 4075973 0.6829 226.7 287 1.5 ANNUAL ALL 1 Grid Receptor 79 G79 647744 4076373 0.10102 164 164 1.5 ANNUAL ALL 1 Grid Receptor 8 G8 650544 4075573 0.22842 268.2 287 1.5 ANNUAL ALL 1 Grid Receptor 80 G80 650944 4079173 0.04567 181.3 830 1.5 ANNUAL ALL 1 Grid Receptor 81 G81 650944 4078773 0.05625 178.4 |
| 650544 4077973 0.17094 236.9 801 1.5 ANNUAL ALL 1 Grid Receptor 74 G74 650544 4077573 0.16253 261.3 287 1.5 ANNUAL ALL 1 Grid Receptor 75 G75 650544 4076373 0.79673 260.9 260.9 1.5 ANNUAL ALL 1 Grid Receptor 78 G78 650544 4075973 0.6829 226.7 287 1.5 ANNUAL ALL 1 Grid Receptor 79 G79 647744 4076373 0.10102 164 164 1.5 ANNUAL ALL 1 Grid Receptor 8 G8 650544 4075573 0.22842 268.2 287 1.5 ANNUAL ALL 1 Grid Receptor 80 G80 650944 4079173 0.04567 181.3 830 1.5 ANNUAL ALL 1 Grid Receptor 81 G81 650944 4078773 0.05625 178.4 |
| 650544 4076373 0.79673 260.9 260.9 1.5 ANNUAL ALL 1 Grid Receptor 78 G78 650544 4075973 0.6829 226.7 287 1.5 ANNUAL ALL 1 Grid Receptor 79 G79 647744 4076373 0.10102 164 164 1.5 ANNUAL ALL 1 Grid Receptor 8 G8 650544 4075573 0.22842 268.2 287 1.5 ANNUAL ALL 1 Grid Receptor 80 G80 650944 4079173 0.04567 181.3 830 1.5 ANNUAL ALL 1 Grid Receptor 81 G81 650944 4078773 0.05625 178.4 830 1.5 ANNUAL ALL 1 Grid Receptor 82 G82 |
| 650544 4075973 0.6829 226.7 287 1.5 ANNUAL ALL 1 Grid Receptor 79 G79 647744 4076373 0.10102 164 164 1.5 ANNUAL ALL 1 Grid Receptor 8 G8 650544 4075573 0.22842 268.2 287 1.5 ANNUAL ALL 1 Grid Receptor 80 G80 650944 4079173 0.04567 181.3 830 1.5 ANNUAL ALL 1 Grid Receptor 81 G81 650944 4078773 0.05625 178.4 830 1.5 ANNUAL ALL 1 Grid Receptor 82 G82 |
| 647744 4076373 0.10102 164 164 1.5 ANNUAL ALL 1 Grid Receptor 8 G8 650544 4075573 0.22842 268.2 287 1.5 ANNUAL ALL 1 Grid Receptor 80 G80 650944 4079173 0.04567 181.3 830 1.5 ANNUAL ALL 1 Grid Receptor 81 G81 650944 4078773 0.05625 178.4 830 1.5 ANNUAL ALL 1 Grid Receptor 82 G82 |
| 647744 4076373 0.10102 164 164 1.5 ANNUAL ALL 1 Grid Receptor 8 G8 650544 4075573 0.22842 268.2 287 1.5 ANNUAL ALL 1 Grid Receptor 80 G80 650944 4079173 0.04567 181.3 830 1.5 ANNUAL ALL 1 Grid Receptor 81 G81 650944 4078773 0.05625 178.4 830 1.5 ANNUAL ALL 1 Grid Receptor 82 G82 |
| 650944 4079173 0.04567 181.3 830 1.5 ANNUAL ALL 1 Grid Receptor 81 G81 650944 4078773 0.05625 178.4 830 1.5 ANNUAL ALL 1 Grid Receptor 82 G82 |
| 650944 4078773 0.05625 178.4 830 1.5 ANNUAL ALL 1 Grid Receptor 82 G82 |
| |
| 650044 4079272 0.09641 214.9 920 1.5 ANNITAL ALL 1 Cold Boomton 92 C92 |
| |
| 650944 4077973 0.12246 249.9 813 1.5 ANNUAL ALL 1 Grid Receptor 84 G84 |
| 650944 4077573 0.08038 276.5 296 1.5 ANNUAL ALL 1 Grid Receptor 85 G85 |
| 650944 4077173 0.38207 225.6 296 1.5 ANNUAL ALL 1 Grid Receptor 86 G86 |
| 650944 4076773 0.5962 219.8 267 1.5 ANNUAL ALL 1 Grid Receptor 87 G87 |
| 650944 4076373 0.59365 209.2 273 1.5 ANNUAL ALL 1 Grid Receptor 88 G88 |
| 650944 4075973 0.50892 216.6 287 1.5 ANNUAL ALL 1 Grid Receptor 89 G89 |
| 647744 4075973 0.06649 160.7 160.7 1.5 ANNUAL ALL 1 Grid Receptor 9 G9 |
| 650944 4075573 0.36849 243.2 289 1.5 ANNUAL ALL 1 Grid Receptor 90 G90 |
| 651344 4079173 0.0397 191 830 1.5 ANNUAL ALL 1 Grid Receptor 91 G91 |
| 651344 4078773 0.04969 181 830 1.5 ANNUAL ALL 1 Grid Receptor 92 G92 |
| 651344 4078373 0.07839 214.3 830 1.5 ANNUAL ALL 1 Grid Receptor 93 G93 |
| 651344 4077973 0.11083 248.4 826 1.5 ANNUAL ALL 1 Grid Receptor 94 G94 |
| 651344 4077573 0.15906 213.2 826 1.5 ANNUAL ALL 1 Grid Receptor 95 G95 |
| 651344 4077173 0.23552 213.6 813 1.5 ANNUAL ALL 1 Grid Receptor 96 G96 |
| 651344 4076773 0.29938 203.5 813 1.5 ANNUAL ALL 1 Grid Receptor 97 G97 |
| 651344 4076373 0.34097 205.6 220 1.5 ANNUAL ALL 1 Grid Receptor 98 G98 |
| 651344 4075973 0.31599 205.8 269 1.5 ANNUAL ALL 1 Grid Receptor 99 G99 |

08/31/21

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- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 649484,05 4077537 0.82961 22401 227 1.5 ANNUAL ALL 1 Boundary Perimeter 10 P10 | * FORN | /IA1: (A,1X | ,3(1X,F13.5),3(1X,F8 | 2),2X,A6,22 | 1,A0,2A,10. | .8,2X,A8) | | | | | |
|--|-----------|-------------|----------------------|-------------|-------------|-----------|--------|-----|----------------|---------------------------------------|-----|
| 64988403 4077549 1.27495 235.3 259 1.5 ANNUAL ALL 1 Boundary Perimeter 12 P12 | | | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 64984 Q-77540 Q-95004 Z-12-9 Z-959 1.5 ANNUAL ALL 1 Boundary Perimeter 12 P12 | 649484.05 | 4077537 | 0.82951 | 254.01 | 257 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 10 | P10 |
| 649784 4077541 0.8133 222.37 260 1.5 ANNUAL ALL 1 Boundary Perimeter 13 P13 (64983.97 4077542 0.7312 233.6 259 1.5 ANNUAL ALL 1 Boundary Perimeter 15 P15 (65083.97 4077543 0.47257 249.54 259 1.5 ANNUAL ALL 1 Boundary Perimeter 15 P15 (65083.94 4077546 0.27021 28.8.89 258.89 1.5 ANNUAL ALL 1 Boundary Perimeter 16 P16 (65083.94 4077546 0.27021 28.8.95 259.56 259.56 1.5 ANNUAL ALL 1 Boundary Perimeter 17 P17 (65083.87 4077555 0.23589 229.56 259.56 1.5 ANNUAL ALL 1 Boundary Perimeter 18 P18 (65083.87 4077555 0.235154 242.23 290 1.5 ANNUAL ALL 1 Boundary Perimeter 18 P18 (65083.81 4077554 0.32215 242.23 296 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 (65083.81 4077554 0.32215 242.23 296 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 (65083.81 4077557 0.18157 259.71 290 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 (65083.75 4077559 0.19294 257.58 296 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 (650776.81 4077554 0.12255 267.9 296 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 (650776.81 4077554 0.12255 267.9 296 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 (650776.81 4077554 0.12255 267.9 296 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 (650778.14 4077554 0.12255 267.9 296 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 (65078.14 4077554 0.1268 275.91 2.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 (65078.14 4077554 0.1268 275.91 2.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 (65078.14 4077554 0.1268 275.91 2.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 (65078.19 4077154 0.38851 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 (65078.19 4077154 0.38851 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 (65078.19 4077154 0.38851 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 (65078.148 4076854 0.7353 246.79 251 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 (65078.148 4076854 0.7353 246.79 251 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 (65078.148 4076854 0.7353 246.79 251 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 (65098.24) 4076666 1.73815 220.83 273 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 (65098.24) 4076666 1.73815 220.83 273 1.5 ANNUA | 649584.03 | 4077539 | 1.27495 | 235.3 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 11 | P11 |
| 64988.399 4077542 0.7312 233.6 259 1.5 ANNUAL ALL Boundary Perimeter 15 P15 | 649684.02 | 4077540 | 0.95004 | 221.29 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 12 | P12 |
| 649983.97 4077543 0.47257 249.54 259 1.5 ANNUAL ALL 1 Boundary Perimeter 15 P15 | 649784 | 4077541 | 0.8133 | 222.37 | 260 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 13 | P13 |
| 650083.94 4077546 0.27021 258.89 258.89 1.5 ANNUAL ALL 1 Boundary Perimeter 16 P16 650183.91 4077548 0.23589 259.56 259.56 1.5 ANNUAL ALL 1 Boundary Perimeter 17 P17 650283.87 4077550 0.23677 256.77 266 1.5 ANNUAL ALL 1 Boundary Perimeter 18 P18 650383.84 4077552 0.35154 242.23 290 1.5 ANNUAL ALL 1 Boundary Perimeter 19 P19 650383.84 40775552 0.35154 242.23 296 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 650583.78 4077557 0.18157 259.71 290 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 650583.78 4077557 0.18157 259.71 290 1.5 ANNUAL ALL 1 Boundary Perimeter 21 P21 650683.78 4077554 0.12255 267.9 296 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 4077554 0.12255 267.9 296 1.5 ANNUAL ALL 1 Boundary Perimeter 23 P23 650778.91 4077454 0.11268 275.91 275.91 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 650783.1 4077254 0.35687 251.08 282 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 650783.1 4077254 0.35687 251.08 282 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650783.1 4077254 0.35687 251.08 282 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.55119 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.55119 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.39 4076656 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650791.48 4076854 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P33 65060.22 4076650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 650793.57 4076754 0.87996 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P33 650660.22 4076650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P33 6506 | 649883.99 | 4077542 | 0.7312 | 233.6 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 14 | |
| 650183.91 4077548 0.23589 259.56 259.56 1.5 ANNUAL ALL 1 Boundary Perimeter 17 P.17 | 649983.97 | 4077543 | 0.47257 | 249.54 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 15 | P15 |
| 650283.87 4077550 0.23677 256.77 266 1.5 ANNUAL ALL 1 Boundary Perimeter 18 P18 650383.84 4077552 0.35154 242.37 290 1.5 ANNUAL ALL 1 Boundary Perimeter 19 P19 650483.81 4077554 0.32215 242.23 296 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 650583.78 4077557 0.18157 259.71 290 1.5 ANNUAL ALL 1 Boundary Perimeter 21 P21 650683.75 4077559 0.19294 257.58 296 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 4077554 0.12255 267.9 296 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 4077554 0.11268 275.91 275.91 1.5 ANNUAL ALL 1 Boundary Perimeter 23 P23 650778.91 4077454 0.11268 275.91 275.91 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 650781 4077354 0.18743 265.73 281 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 650783.1 4077254 0.35687 251.08 282 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650785.19 4077154 0.38851 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.55119 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.39 4076554 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650793.57 407654 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 407654 0.87696 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 407654 0.87696 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076660 1.73351 220.83 273 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650642.79 4076666 2.77889 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650642.79 4076666 2.77889 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.77889 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650064. | 650083.94 | 4077546 | 0.27021 | 258.89 | 258.89 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 16 | P16 |
| 650383.84 4077552 0.35154 242.37 290 1.5 ANNUAL ALL 1 Boundary Perimeter 19 P19 650483.81 4077554 0.32215 242.23 296 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 650583.78 4077559 0.18157 2597.1 290 1.5 ANNUAL ALL 1 Boundary Perimeter 21 P21 650683.75 4077559 0.19294 257.58 296 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 4077554 0.12255 267.9 296 1.5 ANNUAL ALL 1 Boundary Perimeter 23 P23 65078.81 4077354 0.11268 275.91 275.91 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 650781 4077354 0.18743 265.73 281 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 650785.19 4077154 0.35687 251.08 282 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650785.19 4077154 0.358851 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650785.19 4077154 0.358851 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.55119 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650789.38 4076954 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076854 0.05447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076684 0.7353 246.79 251 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.87996 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.87996 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650561.43 4076660 1.73351 220.83 273 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 65060.22 4076650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650660.22 4076660 3.80349 217.03 264 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 650660.24 4076688 4.29631 22.319 263 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 649980.4 | 650183.91 | 4077548 | 0.23589 | 259.56 | 259.56 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 17 | |
| 650783.81 4077554 0.32215 242.23 296 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 650583.78 4077557 0.18157 259.71 290 1.5 ANNUAL ALL 1 Boundary Perimeter 21 P21 650768.75 4077559 0.19294 257.58 296 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 4077554 0.12255 267.9 296 1.5 ANNUAL ALL 1 Boundary Perimeter 23 P23 650778.91 4077454 0.11268 275.91 275.91 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 65078.1 4077254 0.38651 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 650783.1 4077254 0.38651 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650788.1 4077154 0.38651 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650788.94 4077154 0.55119 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.55119 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650798.38 4076954 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.84 4076854 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.84 4076854 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.87996 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4076668 0.913 217.76 271 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650764.29 4076660 1.73351 220.83 273 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 650561.43 4076650 1.73351 220.83 273 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 65046.22 4076660 1.73851 221.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 65046.22 4076660 1.73851 220.83 273 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 65046.22 4076660 4.04441 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 65046.22 40 | 650283.87 | 4077550 | 0.23677 | 256.77 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 18 | P18 |
| 650583.78 4077557 0.18157 259.71 290 1.5 ANNUAL ALL 1 Boundary Perimeter 21 P21 650683.75 4077559 0.19294 257.58 296 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 4077554 0.12255 267.9 296 1.5 ANNUAL ALL 1 Boundary Perimeter 23 P23 65078.91 4077454 0.11268 275.91 275.91 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 65078.1 4077354 0.18743 265.73 281 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 650783.1 4077254 0.35687 251.08 282 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650785.19 4077154 0.38851 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.55119 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650789.38 4076954 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076854 0.7353 246.79 251 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076854 0.7353 246.79 251 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650763.39 4076683 0.913 217.76 271 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650561.43 4076650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650661.43 40766650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P33 650561.43 4076666 2.77859 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P34 650462.72 4076666 2.77859 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 4.04441 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076683 4.09661 2.23819 266 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 64980.44 4076667 3.69205 24.82 264 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 4.10931 222.1 249 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 464920.26 40 | 650383.84 | 4077552 | 0.35154 | 242.37 | 290 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 19 | P19 |
| 65068.75 4077559 0.19294 257.58 296 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 4077554 0.11255 267.9 296 1.5 ANNUAL ALL 1 Boundary Perimeter 23 P23 65078.1 4077354 0.11268 275.91 275.91 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 650781 4077354 0.18743 265.73 281 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 650783.1 4077254 0.35687 251.08 282 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650788.1 4077154 0.38851 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 65078.29 4077054 0.55119 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.55119 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650789.38 4076954 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650793.57 4076754 0.7533 246.79 251 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.87996 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.39 4076683 0.913 217.76 271 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650764.39 4076650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 65060.22 4076650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.77859 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 4.04441 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 4.29631 223.19 263 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 4.10931 222.1 249 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 650065.8 4076660 3.80349 217.03 264 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 409065.8 4076660 3.80349 217.03 264 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076547 | 650483.81 | 4077554 | 0.32215 | 242.23 | 296 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 20 | P20 |
| 650776.81 4077554 0.12255 267.9 296 1.5 ANNUAL ALL 1 Boundary Perimeter 23 P23 650778.91 4077454 0.11268 275.91 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 650781 4077354 0.18743 265.73 281 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 650783.1 4077254 0.35687 251.08 282 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650785.19 4077154 0.38851 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.55119 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650783.3 4076954 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076684 0.7353 246.79 251 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.87996 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4076683 0.913 217.76 271 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650660.22 4076660 1.23881 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650660.22 4076666 1.73351 220.83 273 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 65066.21 4076666 2.77859 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.77859 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650364.24 4076683 4.29631 223.19 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650364.24 4076683 4.29631 223.19 263 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 4.10931 222.1 249 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 640980.44 4076673 3.05814 214.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 640980.44 4076674 2.42355 214.90 266 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076547 3.05814 214.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 64980.26 4076375 1. | 650583.78 | 4077557 | 0.18157 | 259.71 | 290 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 21 | P21 |
| 650778.91 4077454 0.11268 275.91 275.91 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 | 650683.75 | 4077559 | 0.19294 | 257.58 | 296 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 22 | P22 |
| 650781 4077354 0.18743 265.73 281 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 650783.1 4077254 0.35687 251.08 282 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650785.19 4077154 0.38851 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.55119 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650788.38 4076954 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650793.57 4076754 0.87996 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4076653 0.913 217.76 271 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650660.22 4 | 650776.81 | 4077554 | 0.12255 | 267.9 | 296 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 23 | P23 |
| 650783.1 4077254 0.35687 251.08 282 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650785.19 4077154 0.38851 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.55119 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650789.38 4076954 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076854 0.7353 246.79 251 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650795.39 4076658 0.913 217.76 271 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650660.22 4076650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 65066.143 | 650778.91 | 4077454 | 0.11268 | 275.91 | 275.91 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 24 | P24 |
| 650785.19 4077154 0.38851 252.83 281 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.55119 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650789.38 4076954 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076854 0.7353 246.79 251 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.87996 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650764.39 4076683 0.913 217.76 271 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650561.43 4076650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P35 650462.72 <td< td=""><td>650781</td><td>4077354</td><td>0.18743</td><td>265.73</td><td>281</td><td>1.5</td><td>ANNUAL</td><td>ALL</td><td>1</td><td>Boundary Perimeter 25</td><td>P25</td></td<> | 650781 | 4077354 | 0.18743 | 265.73 | 281 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 25 | P25 |
| 650787.29 4077054 0.55119 246.1 269 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650789.38 4076954 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076854 0.7353 246.79 251 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.87996 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4076683 0.913 217.76 271 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650561.43 4076650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 650462.72 4076666 2.77859 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 <td< td=""><td>650783.1</td><td>4077254</td><td>0.35687</td><td>251.08</td><td>282</td><td>1.5</td><td>ANNUAL</td><td>ALL</td><td>1</td><td>Boundary Perimeter 26</td><td>P26</td></td<> | 650783.1 | 4077254 | 0.35687 | 251.08 | 282 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 26 | P26 |
| 650789.38 4076954 0.69447 241.37 269 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076854 0.7353 246.79 251 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.87996 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4076683 0.913 217.76 271 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650660.22 4076650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 65051.43 4076650 1.73351 220.83 273 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 660462.72 4076666 2.77859 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 4.04441 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 4.29631 223.19 263 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 4.10931 222.1 249 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650065.8 4076660 3.80349 217.03 264 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 64998.0.4 4076667 3.05814 214.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 64998.0.4 4076674 3.05814 214.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 64920.2 64 4076547 3.05814 214.91 266 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 64968.0.4 4076375 1.62208 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 64985.91 4076375 1.62208 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 4076375 1.62208 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 64988.04 4076384 1.26668 207.5 264 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 64988.04 4076384 1.26668 207.5 264 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 64988.48 4076384 1.26668 207.5 264 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 64988.48 4076384 1.26668 207.5 264 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.37267 205.17 264 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | 650785.19 | 4077154 | 0.38851 | 252.83 | 281 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 27 | P27 |
| 650791.48 4076854 0.7353 246.79 251 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.87996 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4076683 0.913 217.76 271 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650660.22 4076650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 650661.43 4076650 1.73351 220.83 273 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P33 650462.72 4076666 2.77859 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 4.04441 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 <t< td=""><td>650787.29</td><td>4077054</td><td>0.55119</td><td>246.1</td><td>269</td><td>1.5</td><td>ANNUAL</td><td>ALL</td><td>1</td><td>Boundary Perimeter 28</td><td>P28</td></t<> | 650787.29 | 4077054 | 0.55119 | 246.1 | 269 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 28 | P28 |
| 650793.57 4076754 0.87996 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4076683 0.913 217.76 271 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650660.22 4076650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 650561.43 4076650 1.73351 220.83 273 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.77859 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 4.04441 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 4.29631 223.19 263 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 < | 650789.38 | 4076954 | 0.69447 | 241.37 | 269 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 29 | P29 |
| 650754.39 4076683 0.913 217.76 271 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650660.22 4076650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 650561.43 4076650 1.73351 220.83 273 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.77859 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 4.04441 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650264.24 4076683 4.29631 223.19 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 4.29631 222.1 249 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 <t< td=""><td>650791.48</td><td>4076854</td><td>0.7353</td><td>246.79</td><td>251</td><td>1.5</td><td>ANNUAL</td><td>ALL</td><td>1</td><td>Boundary Perimeter 30</td><td>P30</td></t<> | 650791.48 | 4076854 | 0.7353 | 246.79 | 251 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 30 | P30 |
| 650660.22 4076650 1.23831 221.2 273 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 650561.43 4076650 1.73351 220.83 273 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.77859 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 4.04441 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 4.29631 223.19 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076674 4.10931 222.1 249 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 4.10931 222.1 249 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 650065.8 <t< td=""><td>650793.57</td><td>4076754</td><td>0.87996</td><td>228.75</td><td>264</td><td>1.5</td><td>ANNUAL</td><td>ALL</td><td>1</td><td>Boundary Perimeter 31</td><td>P31</td></t<> | 650793.57 | 4076754 | 0.87996 | 228.75 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 31 | P31 |
| 650561.43 4076650 1.73351 220.83 273 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.77859 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 4.04441 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 4.29631 223.19 263 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 4.10931 222.1 249 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 650065.8 4076660 3.80349 217.03 264 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 649980.44 4076627 3.69205 214.82 264 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 | 650754.39 | 4076683 | 0.913 | 217.76 | 271 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 32 | P32 |
| 650462.72 4076666 2.77859 223.42 273 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 4.04441 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 4.29631 223.19 263 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 4.10931 222.1 249 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 650065.8 4076660 3.80349 217.03 264 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 649980.44 4076627 3.69205 214.82 264 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076547 3.05814 214.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649852.19 | 650660.22 | 4076650 | 1.23831 | 221.2 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 33 | P33 |
| 650364.01 4076682 4.04441 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 4.29631 223.19 263 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 4.10931 222.1 249 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 650065.8 4076660 3.80349 217.03 264 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 649980.44 4076627 3.69205 214.82 264 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 649920.26 4076547 3.05814 214.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649852.19 4076474 2.42355 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 | 650561.43 | 4076650 | 1.73351 | 220.83 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 34 | P34 |
| 650264.24 4076683 4.29631 223.19 263 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 4.10931 222.1 249 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 650065.8 4076660 3.80349 217.03 264 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 649980.44 4076627 3.69205 214.82 264 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 649920.26 4076547 3.69205 214.82 264 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076547 3.05814 214.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649852.19 4076474 2.42355 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 | 650462.72 | 4076666 | 2.77859 | 223.42 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 35 | P35 |
| 650164.71 4076674 4.10931 222.1 249 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 650065.8 4076660 3.80349 217.03 264 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 649980.44 4076627 3.69205 214.82 264 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076547 3.05814 214.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649852.19 4076474 2.42355 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649770.68 4076474 1.86056 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649680.48 4076375 1.62208 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 | 650364.01 | 4076682 | 4.04441 | 222.46 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 36 | P36 |
| 650065.8 4076660 3.80349 217.03 264 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 649980.44 4076627 3.69205 214.82 264 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076547 3.05814 214.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649852.19 4076474 2.42355 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 4076417 1.86056 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 43 P43 649680.48 4076375 1.62208 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076368 1.4387 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 | 650264.24 | 4076683 | 4.29631 | 223.19 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 37 | P37 |
| 650065.8 4076660 3.80349 217.03 264 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 649980.44 4076627 3.69205 214.82 264 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076547 3.05814 214.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649852.19 4076474 2.42355 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 4076417 1.86056 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649680.48 4076375 1.62208 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076368 1.4387 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 | | | | | | | | | 1 | | |
| 649920.26 4076547 3.05814 214.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649852.19 4076474 2.42355 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 4076417 1.86056 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 43 P43 649680.48 4076375 1.62208 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076368 1.4387 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 4076384 1.26668 207.5 264 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.37267 205.17 264 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | 650065.8 | 4076660 | 3.80349 | 217.03 | 264 | | ANNUAL | ALL | 1 | Boundary Perimeter 39 | P39 |
| 649920.26 4076547 3.05814 214.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649852.19 4076474 2.42355 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 4076417 1.86056 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 43 P43 649680.48 4076375 1.62208 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076368 1.4387 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 4076384 1.26668 207.5 264 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.37267 205.17 264 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | | | | | 264 | 1.5 | | | 1 | | |
| 649852.19 4076474 2.42355 214.09 266 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 4076417 1.86056 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 43 P43 649680.48 4076375 1.62208 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076368 1.4387 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 4076384 1.26668 207.5 264 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.37267 205.17 264 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | | | | | | | | | 1 | | |
| 649770.68 4076417 1.86056 211.53 266 1.5 ANNUAL ALL 1 Boundary Perimeter 43 P43 649680.48 4076375 1.62208 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076368 1.4387 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 4076384 1.26668 207.5 264 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.37267 205.17 264 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | | | | | | | | | 1 | | |
| 649680.48 4076375 1.62208 210.17 266 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076368 1.4387 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 4076384 1.26668 207.5 264 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.37267 205.17 264 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | | | | | | | | | 1 | <u>*</u> | |
| 649580.91 4076368 1.4387 208.52 264 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 4076384 1.26668 207.5 264 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.37267 205.17 264 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | | | | | | | | | 1 | <u> </u> | |
| 649482.48 4076384 1.26668 207.5 264 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.37267 205.17 264 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| 649391.59 4076425 1.37267 205.17 264 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | | | | | | | | | 1 | | |
| | | | | | | | | | 1 | | |
| | 649303.5 | 4076472 | 1.43283 | 202.16 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 48 | P48 |

PMI

* AERMET (21112): 2018

14:20:50

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| · FORW | IAI. (A,IA | ,3(1X,F13.5),3(1X,F8 | 2),2A,A0,27 | 1,A0,2A,10. | 0,2A,A0) | | | | | |
|-----------|------------|----------------------|-------------|-------------|----------|--------|-----|----------------|-----------------------|-------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 649226.19 | 4076535 | 1.50323 | 196.38 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 49 | P49 |
| 649156.2 | 4076605 | 1.69294 | 195.87 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 50 | P50 |
| 649068.25 | 4076653 | 1.46895 | 196.32 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 51 | P51 |
| 648986.7 | 4076711 | 1.36523 | 192.42 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 52 | P52 |
| 648936.53 | 4076759 | 1.39252 | 192.46 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 53 | P53 |
| 648868.58 | 4076833 | 1.42394 | 191.63 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 54 | P54 |
| 648797.23 | 4076902 | 1.43256 | 186.32 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 55 | P55 |
| 648710.56 | 4076952 | 1.22809 | 179.81 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 56 | P56 |
| 648620.79 | 4076996 | 0.86017 | 176.23 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 57 | P57 |
| 648607.19 | 4077051 | 1.24504 | 175.02 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 58 | P58 |
| 648680.07 | 4077119 | 1.03724 | 180.62 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 59 | P59 |
| 649084.12 | 4077532 | 0.67067 | 216.54 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 6 | P6 |
| 648759.24 | 4077180 | 0.72814 | 183.47 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 60 | P60 |
| 648791.44 | 4077262 | 0.62005 | 202.88 | 245 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 61 | P61 |
| 648788.45 | 4077362 | 0.52452 | 178.21 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 62 | P62 |
| 648691.25 | 4077361 | 0.50436 | 176.25 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 63 | P63 |
| 648591.35 | 4077357 | 0.49586 | 176 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 64 | P64 |
| 648525.69 | 4077371 | 0.47391 | 175.24 | 245 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 65 | P65 |
| 648586.93 | 4077430 | 0.44665 | 175.13 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 66 | P66 |
| 649184.09 | 4077534 | 0.83839 | 230.71 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 7 | P7 |
| 649284.08 | 4077535 | 0.83228 | 248.08 | 259 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 8 | P8 |
| 649384.06 | 4077536 | 0.65475 | 258.43 | 258.43 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.06869 | 127.38 | 127.38 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646030 | 4077983 | 0.0719 | 131.21 | 131.21 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646130 | 4077983 | 0.07537 | 135.89 | 135.89 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646230 | 4077983 | 0.07904 | 139.18 | 139.18 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646330 | 4077983 | 0.08289 | 140.76 | 140.76 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646430 | 4077983 | 0.08703 | 143.89 | 143.89 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646530 | 4077983 | 0.09131 | 145.22 | 145.22 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646630 | 4077983 | 0.09585 | 147.21 | 147.21 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646730 | 4077983 | 0.10058 | 148.3 | 160 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 645930 | 4078083 | 0.06937 | 127.58 | 127.58 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646030 | 4078083 | 0.07247 | 130.56 | 130.56 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646130 | 4078083 | 0.07574 | 134.35 | 134.35 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646230 | 4078083 | 0.07921 | 139.22 | 139.22 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646330 | 4078083 | 0.08288 | 144.65 | 144.65 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646430 | 4078083 | 0.08634 | 142.28 | 142.28 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646530 | 4078083 | 0.09029 | 146.76 | 146.76 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646630 | 4078083 | 0.09445 | 150.64 | 150.64 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |

0.65392

08/31/21

* AERMET (21112): 2018

14:20:50

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | () |) | ,, , -, | , -, , - | -, , -, | | | | | |
|----------------------------------|--------------------|--------------------|------------------|------------------|------------|------------------|------------|----------------|----------------------|------------------|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 646730 | 4078083 | 0.099 | 155.4 | 157 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 645930 | 4078183 | 0.06928 | 127.22 | 127.22 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646030 | 4078183 | 0.07208 | 130.56 | 130.56 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646130 | 4078183 | 0.07499 | 133.89 | 133.89 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646230 | 4078183 | 0.07814 | 140.45 | 140.45 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646330 | 4078183 | 0.0815 | 146.94 | 146.94 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646430 | 4078183 | 0.08442 | 140.23 | 140.23 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646530 | 4078183 | 0.08821 | 147.25 | 147.25 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646630 | 4078183 | 0.09222 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646730 | 4078183 | 0.09682 | 157.78 | 166 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 645930 | 4078283 | 0.06823 | 126.06 | 126.06 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646030 | 4078283 | 0.07077 | 129.56 | 129.56 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646130 | 4078283 | 0.07344 | 132.89 | 132.89 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646230 | 4078283 | 0.07638 | 139.24 | 139.24 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646330 | 4078283 | 0.07945 | 142.68 | 142.68 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 |
| 646430 | 4078283 | 0.0825 | 140.02 | 140.02 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646530 | 4078283 | 0.08624 | 147.22 | 147.22 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646630 | 4078283 | 0.09017 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 646730 | 4078283 | 0.09452 | 156.78 | 166 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 |
| 648659.32 | 4077241 | 0.65392 | 205.79 | 205.79 | 1.5 | ANNUAL | ALL | 1 | House 1 | RP H1 |
| 648071.24 | 4076116 | 0.09167 | 169.6 | 240 | 1.5 | ANNUAL | ALL | 1 | House 10 | RP H10 |
| 648247.37 | 4076278 | 0.12728 | 184.55 | 240 | 1.5 | ANNUAL | ALL | 1 | House 11 | RP H11 |
| 648027.19 | 4076255 | 0.10531 | 169.38 | 240 | 1.5 | ANNUAL | ALL | 1 | House 12 | RP H12 |
| 648065.77 | 4076359 | 0.12467 | 173.83 | 240 | 1.5 | ANNUAL | ALL | 1 | House 13 | RP H13 |
| 648138.68 | 4076400 | 0.13913 | 178.22 | 240 | 1.5 | ANNUAL | ALL | 1 | House 14 | RP H14 |
| 648254.71 | 4076411 | 0.15856 | 191.28 | 240 | 1.5 | ANNUAL | ALL | 1 | House 15 | RP H15 |
| 647877.81 | 4076365 | 0.10984 | 165.39 | 240 | 1.5 | ANNUAL | ALL | 1 | House 16 | RP H16 |
| 647520 | 4076206 | 0.07579 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | House 17 | RP H17 |
| 647921 | 4076247 | 0.09762 | 164 | 240 | 1.5 | ANNUAL | ALL | 1 | House 18 | RP H18 |
| 647708.78 | 4076352 | 0.09693 | 163.52 | 163.52 | 1.5 | ANNUAL | ALL | 1 | House 19 | RP H19 |
| 648371.71 | 4075470 | 0.06917 | 173.69 | 227 | 1.5 | ANNUAL | ALL | 1 | House 2 | RP H2 |
| 647703.58 | 4076251 | 0.08734 | 162.17 | 162.17 | 1.5 | ANNUAL | ALL | 1 | House 20 | RP H20 |
| 647718.77 | 4076104 | 0.07347 | 159.35 | 159.35 | 1.5 | ANNUAL | ALL | 1 | House 21 | RP H21 |
| 647843.32 | 4076125 | 0.08027 | 163 | 234 | 1.5 | ANNUAL | ALL | 1 | House 22 | RP H22 |
| 647842.26 | 4076500 | 0.12049 | 167.93 | 167.93 | 1.5 | ANNUAL | ALL | 1 | House 23 | RP H23 |
| | 4076644 | 0.12373 | 164.15 | 164.15 | 1.5 | ANNUAL | ALL | 1 | House 24 | RP H24 |
| 647727.75 | 40/0044 | | | | | | | | | |
| 647727.75 647823.91 | | | | 168.29 | 1.5 | ANNUAL | ALL | 1 | House 25 | RP H25 |
| 647727.75 647823.91 647530 | 4076644 4076497 | 0.13362 0.09544 | 168.29 159.56 | 168.29 159.56 | 1.5 1.5 | ANNUAL ANNUAL | ALL ALL | 1 | House 25 House 26 | RP_H25 RP H26 |

08/31/21

* AERMET (21112): 2018

14:20:50

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

| X | Y | AVERAGE CONC | , | | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|---|--------|-------|--------|-----|----------------|-------------|--------|
| 647697.48 | 4076989 | 0.15612 | 161.42 | 162 | 1.5 | ANNUAL | ALL | 1 | House 28 | RP H28 |
| 648225.5 | 4076182 | 0.11061 | 183.22 | 240 | 1.5 | ANNUAL | ALL | 1 | House 29 | RP H29 |
| 647678.23 | 4075969 | 0.06382 | 159.5 | 159.5 | 1.5 | ANNUAL | ALL | 1 | House 3 | RP H3 |
| 645876.32 | 4077487 | 0.05679 | 127.13 | 142 | 1.5 | ANNUAL | ALL | 1 | House 30 | RP H30 |
| 650902 | 4076062 | 0.55771 | 215.24 | 287 | 1.5 | ANNUAL | ALL | 1 | House 31 | RP H31 |
| 651490 | 4076597 | 0.27609 | 205.5 | 813 | 1.5 | ANNUAL | ALL | 1 | House 32 | RP H32 |
| 651565 | 4077067 | 0.2237 | 213.93 | 813 | 1.5 | ANNUAL | ALL | 1 | House 33 | RP H33 |
| 648672.77 | 4075307 | 0.08236 | 225.91 | 227 | 1.5 | ANNUAL | ALL | 1 | House 34 | RP H34 |
| 648383.6 | 4075469 | 0.06953 | 174.44 | 227 | 1.5 | ANNUAL | ALL | 1 | House 35 | RP H35 |
| 646379.37 | 4077233 | 0.06646 | 146 | 146 | 1.5 | ANNUAL | ALL | 1 | House 36 | RP H36 |
| 651849.72 | 4075865 | 0.20384 | 201.97 | 333 | 1.5 | ANNUAL | ALL | 1 | House 37 | RP H37 |
| 652045.49 | 4076210 | 0.17198 | 196.88 | 813 | 1.5 | ANNUAL | ALL | 1 | House 38 | RP H38 |
| 652255.69 | 4076391 | 0.17198 | 197.06 | 813 | 1.5 | ANNUAL | ALL | 1 | House 39 | RP_H39 |
| 647815.25 | 4075985 | 0.14243 | 162.04 | 162.04 | 1.5 | ANNUAL | ALL | 1 | House 4 | RP H4 |
| 646853.73 | 4077373 | 0.09689 | 145.99 | 145.99 | 1.5 | ANNUAL | ALL | 1 | House 40 | RP H40 |
| 647050.21 | 4077360 | 0.111 | 145 | 145 | 1.5 | ANNUAL | ALL | 1 | House 41 | RP H41 |
| 647286.42 | 4077474 | 0.13931 | 149.68 | 153 | 1.5 | ANNUAL | ALL | 1 | House 42 | RP H42 |
| 647359.05 | 4077340 | 0.14106 | 154.45 | 159 | 1.5 | ANNUAL | ALL | 1 | House 43 | RP H43 |
| 647490.41 | 4077329 | 0.15778 | 162.28 | 162.28 | 1.5 | ANNUAL | ALL | 1 | House 44 | RP H44 |
| 647522.17 | 4077252 | 0.15403 | 164.3 | 164.3 | 1.5 | ANNUAL | ALL | 1 | House 45 | RP H45 |
| 647517.82 | 4077139 | 0.14226 | 164.01 | 164.01 | 1.5 | ANNUAL | ALL | 1 | House 46 | RP H46 |
| 646819.01 | 4077258 | 0.08769 | 151.53 | 152 | 1.5 | ANNUAL | ALL | 1 | House 47 | RP H47 |
| 646778.72 | | 0.08216 | 158.51 | 158.51 | 1.5 | ANNUAL | ALL | 1 | House 48 | RP H48 |
| 646987.26 | 4077213 | 0.09589 | 146.44 | 146.44 | 1.5 | ANNUAL | ALL | 1 | House 49 | RP H49 |
| 647898.2 | 4076033 | 0.07618 | 163.83 | 237 | 1.5 | ANNUAL | ALL | 1 | House 5 | RP H5 |
| 647241.77 | 4077227 | 0.11739 | 154.85 | 154.85 | 1.5 | ANNUAL | ALL | 1 | House 50 | RP H50 |
| 646773.05 | 4077063 | 0.08089 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | House 51 | RP H51 |
| 647104.37 | 4077118 | 0.10094 | 148.99 | 148.99 | 1.5 | ANNUAL | ALL | 1 | House 52 | RP H52 |
| 647291.9 | 4077123 | 0.11667 | 158.62 | 158.62 | 1.5 | ANNUAL | ALL | 1 | House 53 | RP H53 |
| 646765.24 | 4076978 | 0.0785 | 158.67 | 158.67 | 1.5 | ANNUAL | ALL | 1 | House 54 | RP H54 |
| 646995.65 | 4076984 | 0.09026 | 152.34 | 152.34 | 1.5 | ANNUAL | ALL | 1 | House 55 | RP H55 |
| 647317.21 | 4077031 | 0.11572 | 160.22 | 160.22 | 1.5 | ANNUAL | ALL | 1 | House 56 | RP H56 |
| 647398.39 | 4077013 | 0.12237 | 161.26 | 161.26 | 1.5 | ANNUAL | ALL | 1 | House 57 | RP H57 |
| 646978.93 | 4076904 | 0.08594 | 156.81 | 156.81 | 1.5 | ANNUAL | ALL | 1 | House 58 | RP H58 |
| 647015.19 | 4076807 | 0.08335 | 156.21 | 156.21 | 1.5 | ANNUAL | ALL | 1 | House 59 | RP H59 |
| 648045.44 | 4076018 | 0.08378 | 168.26 | 240 | 1.5 | ANNUAL | ALL | 1 | House 6 | RP H6 |
| 647163.96 | 4076802 | 0.09134 | 154.38 | 154.38 | 1.5 | ANNUAL | ALL | 1 | House 60 | RP H60 |
| 647310.58 | 4076940 | 0.11035 | 162.49 | 162.49 | 1.5 | ANNUAL | ALL | 1 | House 61 | RP H61 |
| 647298.09 | | 0.10044 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | House 62 | RP H62 |
| 07/2/0.09 | 10/0003 | 0.10077 | 150 | 150 | 1.5 | THUML | ALL | 1 | 110030 02 | _1102 |

08/31/21

* AERMET (21112): 2018

14:20:50

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-------------|--------|
| 647446.56 | 4076900 | 0.11914 | 159.45 | 159.45 | 1.5 | ANNUAL | ALL | 1 | House 63 | RP_H63 |
| 647464.49 | 4076781 | 0.11198 | 159.32 | 159.32 | 1.5 | ANNUAL | ALL | 1 | House 64 | RP_H64 |
| 647512 | 4076536 | 0.09754 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | House 65 | RP_H65 |
| 651131 | 4078767 | 0.05258 | 179.58 | 830 | 1.5 | ANNUAL | ALL | 1 | House 66 | RP_H66 |
| 647131 | 4077336 | 0.11624 | 146.77 | 146.77 | 1.5 | ANNUAL | ALL | 1 | House 67 | RP_H67 |
| 646798 | 4076740 | 0.07148 | 156.07 | 156.07 | 1.5 | ANNUAL | ALL | 1 | House 68 | RP_H68 |
| 646900 | 4076802 | 0.07776 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | House 69 | RP_H69 |
| 648126.33 | 4075955 | 0.08652 | 171.51 | 240 | 1.5 | ANNUAL | ALL | 1 | House 7 | RP_H7 |
| 647317 | 4076662 | 0.09512 | 159.9 | 159.9 | 1.5 | ANNUAL | ALL | 1 | House 70 | RP_H70 |
| 648249.26 | 4075970 | 0.09764 | 183.42 | 240 | 1.5 | ANNUAL | ALL | 1 | House 8 | RP_H8 |
| 648218.58 | 4076109 | 0.10318 | 182.28 | 240 | 1.5 | ANNUAL | ALL | 1 | House 9 | RP_H9 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in $\mu g/m^3$.

08/31/21

* AERMET (19191): 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | .,5(174,1 15.5),5(174,1 0. | | | | | | | | | |
|------------|---------|----------------------------|--------|--------|-------|--------|-----|----------------|------------------------------------|----------|----------|
| X | Y | AVERAGE CONC | | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
| 645996 | 4078698 | 0.04343 | 123.85 | 258.89 | 1.5 | ANNUAL | ALL | 1 | AQ Monitoring Station | AQ_ST_1 | |
| 643903.65 | 4077719 | 0.01002 | 105.68 | 194 | 1.5 | ANNUAL | ALL | 1 | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642056.782 | | 0.01039 | 85.12 | 259 | 1.5 | ANNUAL | ALL | 1 | Dunne Park | CR_PK_1 | |
| 642179.095 | | 0.01248 | 117.99 | 259 | 1.5 | ANNUAL | ALL | 1 | Vista Park Hill Park | CR_PK_2 | |
| 644733.142 | 4078753 | 0.02283 | 106.44 | 226 | 1.5 | ANNUAL | ALL | 1 | Las Brisas Park | CR_PK_3 | |
| 645608.808 | 4078854 | 0.03656 | 112.86 | 240 | 1.5 | ANNUAL | ALL | 1 | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238.054 | 4078807 | 0.01872 | 95.25 | 220 | 1.5 | ANNUAL | ALL | 1 | Veterans Memorial Park | CR_PK_5 | |
| 645311.476 | 4076559 | 0.01478 | 134.61 | 181 | 1.5 | ANNUAL | ALL | 1 | Park 6 | CR_PK_6 | |
| 649581.689 | 4073424 | 0.04868 | 159.96 | 300 | 1.5 | ANNUAL | ALL | 1 | Park 7 | CR_PK_7 | |
| 645145.11 | 4077181 | 0.01427 | 133 | 190 | 1.5 | ANNUAL | ALL | 1 | Cerra Vista Elem School | CR_SC_1 | |
| 642904.712 | 4079955 | 0.01547 | 86 | 240 | 1.5 | ANNUAL | ALL | 1 | San Andreas Continuation | CR_SC_10 | |
| 645850.678 | 4074015 | 0.0125 | 123 | 144.4 | 1.5 | ANNUAL | ALL | 1 | SouthSide School | CR_SC_11 | |
| 642105.679 | 4078176 | 0.00671 | 91 | 227 | 1.5 | ANNUAL | ALL | 1 | School 12 | CR_SC_12 | |
| 646058.93 | 4078443 | 0.04135 | 128.52 | 300 | 1.5 | ANNUAL | ALL | 1 | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.0328 | 158 | 259.56 | 1.5 | ANNUAL | ALL | 1 | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.03426 | 159 | 290 | 1.5 | ANNUAL | ALL | 1 | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644109.6 | 4078389 | 0.01596 | 98.2 | 191 | 1.5 | ANNUAL | ALL | 1 | Sunnyslope Elem School | CR_SC_2 | |
| 643920.12 | 4077304 | 0.00966 | 101.23 | 166.2 | 1.5 | ANNUAL | ALL | 1 | Hollister Montessori School | CR_SC_3 | |
| 642961.07 | 4078621 | 0.0117 | 92 | 253 | 1.5 | ANNUAL | ALL | 1 | Rancho San Justo Middle School | CR_SC_4 | |
| 643980.02 | 4079743 | 0.02178 | 88 | 214 | 1.5 | ANNUAL | ALL | 1 | Marguerite Maze Middle School | CR_SC_5 | |
| 641630.17 | 4079153 | 0.00917 | 85 | 227 | 1.5 | ANNUAL | ALL | 1 | Hollister Prep Schoo | CR_SC_6 | |
| 643350.03 | 4077181 | 0.00806 | 98.22 | 226 | 1.5 | ANNUAL | ALL | 1 | Ladd Lane Elementary School | CR_SC_7 | |
| 644002.96 | 4080079 | 0.02298 | 87 | 240 | 1.5 | ANNUAL | ALL | 1 | Gabilan Hills Elementary School | CR_SC_8 | |
| 642244.858 | 4078413 | 0.00822 | 90.17 | 240 | 1.5 | ANNUAL | ALL | 1 | San Benito High School | CR SC 9 | |
| 642083.447 | 4079794 | 0.01139 | 87.58 | 165.4 | 1.5 | ANNUAL | ALL | 1 | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.02228 | 146.33 | 801 | 1.5 | ANNUAL | ALL | 1 | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 0.42668 | 189.45 | 266 | 1.5 | ANNUAL | ALL | 1 | Nearest Workplace | CR WP 2 | MEIW |
| 647744 | 4079173 | 0.12814 | 155.2 | 154.38 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.0389 | 160 | 139.22 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.25292 | 252.9 | 140.45 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.13775 | 165.9 | 162.49 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.17229 | 159.6 | 148.99 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 12 | G12 | |
| 648144 | 4078373 | 0.18965 | 146.2 | 159 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 13 | G13 | |
| 648144 | 4077973 | 0.20172 | 158.3 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 14 | G14 | |
| 648144 | 4077573 | 0.20749 | 166.6 | 168.29 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 15 | G15 | |
| 648144 | 4077173 | 0.14056 | 175.4 | 162.17 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 16 | G16 | |
| 648144 | 4076773 | 0.09349 | 177.1 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 17 | G17 | |
| 648144 | 4076373 | 0.08356 | 178 | 147.22 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 18 | G18 | |
| 648144 | 4075973 | 0.06661 | 173 | 140.23 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 19 | G19 | |
| | | | | | | | | | 1 | | |

08/31/21

* AERMET (19191): 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | AVED A CE CONC | | | | ANTE | CDB | NHIM VDC NET ID | Description - | TD. |
|--------|--------------|----------------|-------|--------|-----|------------------|-----|-----------------|------------------|-------|
| X | Y 4070772 | AVERAGE CONC | | ZHILL | | AVE | GRP | NUM YRS NET ID | Description | ID G2 |
| 647744 | 4078773 | 0.13918 | 145.4 | 159 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.05237 | 168.8 | 144.65 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.13576 | 173.5 | 158 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.18674 | 166.2 | 158.62 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.24597 | 145.4 | 162.28 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.27987 | 173.9 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.31451 | 179.6 | 169.05 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.54478 | 191 | 159.35 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.19855 | 209.2 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.12649 | 233.7 | 151.56 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.10084 | 199.9 | 147.25 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.14088 | 144.4 | 153 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.07956 | 195.5 | 142.28 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.1163 | 190.4 | 159.45 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.17403 | 165.4 | 158.67 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.27497 | 159.6 | 164.3 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.41347 | 183.5 | 146 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.50236 | 224 | 162.9 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.29803 | 205 | 166 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.17236 | 208.8 | 151.56 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.13947 | 134.6 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.10481 | 185.6 | 146.76 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.08106 | 187.4 | 159.32 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.12337 | 160.9 | 152.34 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.22907 | 200.5 | 164.01 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 0.55909 | 229 | 333 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.86686 | 253.3 | 162 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.73758 | 220.2 | 205.79 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.2786 | 227.2 | 166 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.11112 | 163.8 | 164.15 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.17137 | 205.5 | 150.64 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.06022 | 176.1 | 159 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.08765 | 195 | 160.22 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.13609 | 196.1 | 152 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.27923 | 215.3 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.86197 | 221.6 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 1.44008 | 211.7 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.49673 | 237.7 | 126.06 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.07337 | 158.4 | 227 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 6 | G6 |
| 1 | .0,1113 | 0.0,557 | 100.1 | , | 1.0 | ·- · · · · · · · | | * | Sile resopror o | 50 |

08/31/21

* AERMET (19191): 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | ,5(174,1 15.5),5(174,1 0. | , | | | | | | | |
|--------|---------|---------------------------|---|--------|-----|--------|-----|----------------|------------------|-----|
| X | Y | AVERAGE CONC | | ZHILL | | AVE | GRP | NUM YRS NET ID | Description | ID |
| 649744 | 4075573 | 0.25722 | 204.2 | 157 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.04782 | 173 | 830 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.06253 | 171 | 161.26 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.09788 | 204.6 | 158.51 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.15926 | 216.5 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.20928 | 257.7 | 159.5 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 1.5086 | 231.4 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.58251 | 249.4 | 129.56 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.05911 | 164.7 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.35097 | 216.4 | 127.22 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.04018 | 177 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.05409 | 180.9 | 156.81 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.07666 | 196.6 | 146.44 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.11997 | 236.9 | 162.04 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.09728 | 261.3 | 142 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.76028 | 260.9 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.6216 | 226.7 | 132.89 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.05837 | 164 | 140.02 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 0.2292 | 268.2 | 130.56 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.0384 | 181.3 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.0433 | 178.4 | 156.21 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.05624 | 214.8 | 237 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.06966 | 249.9 | 145.99 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.0437 | 276.5 | 287 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.23854 | 225.6 | 234 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.43088 | 219.8 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.51319 | 209.2 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.44559 | 216.6 | 139.24 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.05057 | 160.7 | 146.94 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.33557 | 243.2 | 133.89 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.02825 | 191 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.03034 | 181 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.04395 | 214.3 | 154.85 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.05783 | 248.4 | 145 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.09147 | 213.2 | 813 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.14677 | 213.6 | 167.93 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.21529 | 203.5 | 163.52 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.27944 | 205.6 | 240 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.28235 | 205.8 | 142.68 | 1.5 | ANNUAL | ALL | 1 | Grid Receptor 99 | G99 |
| | | | | | | | | | | |

08/31/21

* AERMET (19191): 2019

15:34:45

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| AVERAGE CONC ZELEV ZHILL ZFLAG AVE GRP NUM YRS NET ID Description Description Description Description C4948403 4077537 1.02928 22401 229 1.5 ANNUAL ALL Boundary Perimeter D. P10 C4988403 4077540 1.1605 221.29 251 1.5 ANNUAL ALL Boundary Perimeter D. P10 C4988403 4077541 0.88928 222.37 264 1.5 ANNUAL ALL Boundary Perimeter D. P10 C498839 4077542 0.75153 233.6 271 1.5 ANNUAL ALL Boundary Perimeter D. P10 C4988399 4077542 0.75153 233.6 271 1.5 ANNUAL ALL Boundary Perimeter D. P10 C5908394 4077544 0.28489 273 1.5 ANNUAL ALL Boundary Perimeter D. P10 C5908394 4077546 0.22414 228.89 273 1.5 ANNUAL ALL Boundary Perimeter D. P10 C5908394 4077546 0.22414 228.89 273 1.5 ANNUAL ALL Boundary Perimeter D. P10 C590833, T. 4077580 0.18082 236.77 263 1.5 ANNUAL ALL Boundary Perimeter D. P10 C590833, T. 4077552 0.23296 242.37 263 1.5 ANNUAL ALL Boundary Perimeter D. P10 C590833, T. 4077554 0.2019 242.23 249 1.5 ANNUAL ALL Boundary Perimeter D. P10 C590833, T. 4077554 0.2019 242.23 249 1.5 ANNUAL ALL Boundary Perimeter D. P10 C590833, T. 4077559 0.10578 23971 264 1.5 ANNUAL ALL Boundary Perimeter D. P10 C590833, T. 4077559 0.10578 23971 264 1.5 ANNUAL ALL Boundary Perimeter D. P20 C590833, T. 4077559 0.10685 257.58 227 1.5 ANNUAL ALL Boundary Perimeter D. P20 C590783, T. 4077544 0.06108 275.91 264 1.5 ANNUAL ALL Boundary Perimeter D. P20 C590783, T. 4077544 0.06108 275.91 264 1.5 ANNUAL ALL Boundary Perimeter D. P20 C590783, T. 4077544 0.06108 275.91 264 1.5 ANNUAL ALL Boundary Perimeter D. P20 C590783, T. 4077544 0.06108 275.91 264 1.5 ANNUAL ALL Boundary Perimeter D. P20 C590783, T. 4077544 0.06108 275.91 264 1.5 ANNUAL ALL Boundary Perimet | | 1A1: (A,1X | ,3(1X,F13.5),3(1X,F8. | 2),2X,A6,22 | X,A8,2X,18. | 8,2X,A8) | | | | | |
|--|-----------|------------|-----------------------|-------------|-------------|----------|--------|-----|----------------|---------------------------------------|-----|
| 649884.03 | X | | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
| 64984 QFTS41 QF | 649484.05 | 4077537 | 1.09298 | 254.01 | 269 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 10 | P10 |
| 6497814 d077541 0.88928 222.37 264 1.5 ANNUAL ALL 1 Boundary Perimeter 13 P13 64983.97 d077543 0.43734 249.54 273 1.5 ANNUAL ALL 1 Boundary Perimeter 15 P15 65093.97 d077543 0.43734 249.54 273 1.5 ANNUAL ALL 1 Boundary Perimeter 16 P16 65083.91 d077546 0.22414 258.89 273 1.5 ANNUAL ALL 1 Boundary Perimeter 16 P16 65083.91 d077548 0.19732 259.56 273 1.5 ANNUAL ALL 1 Boundary Perimeter 17 P17 65028.387 d077545 0.18082 259.56 273 1.5 ANNUAL ALL 1 Boundary Perimeter 18 P18 650838.18 d077555 0.18082 256.77 263 1.5 ANNUAL ALL 1 Boundary Perimeter 18 P18 650838.18 d077555 0.018082 256.77 263 1.5 ANNUAL ALL 1 Boundary Perimeter 19 P19 650483.81 d077555 4 0.2019 242.23 249 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 65083.18 d077555 0.01678 259.71 264 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 65083.18 d077557 0.01685 257.58 227 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 d077559 0.10685 257.58 227 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 d077554 0.00608 275.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 d077554 0.00608 275.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 d077554 0.00608 275.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 65078.1 d077554 0.00608 267.9 264 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 65078.1 d077554 0.01608 252.83 266 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P25 65078.1 d077554 0.01608 252.83 266 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P25 65078.1 d077554 0.04646 252.83 266 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 65079.1.8 d077554 0.06660 20 46.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 65079.1.8 d077554 0.06666 20 46.1 252.83 266 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 65079.1.8 d077554 0.06666 20 20.83 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 65079.1.8 d077654 0.36609 246.0 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 65079.1.8 d077654 0.36609 246.0 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 65076.2 40 4076667 0.3668 22.8 26.5 3 26.5 3 26.5 3 26.5 3 26.5 3 26.5 3 26.5 3 26.5 3 26.5 3 26.5 3 26.5 3 26.5 3 26.5 3 26.5 | 649584.03 | 4077539 | 1.62845 | 235.3 | 209.74 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 11 | P11 |
| 649983.99 4077542 0.75153 233.6 271 1.5 ANNUAL ALL Boundary Perimeter 14 P14 649983.97 4077543 0.43734 249.54 273 1.5 ANNUAL ALL Boundary Perimeter 15 P15 650083.94 4077546 0.22414 228.89 273 1.5 ANNUAL ALL Boundary Perimeter 16 P16 650183.87 4077548 0.19732 259.56 273 1.5 ANNUAL ALL Boundary Perimeter 17 P17 650283.87 4077554 0.18082 256.77 263 1.5 ANNUAL ALL Boundary Perimeter 18 P18 650383.84 40775552 0.23296 242.37 263 1.5 ANNUAL ALL Boundary Perimeter 19 P19 650383.84 40775552 0.23296 242.37 263 1.5 ANNUAL ALL Boundary Perimeter 19 P19 650483.84 40775552 0.23296 242.37 263 1.5 ANNUAL ALL Boundary Perimeter 19 P19 650483.84 4077557 0.10578 259.71 264 1.5 ANNUAL ALL Boundary Perimeter 20 P20 65083.78 4077557 0.10578 259.71 264 1.5 ANNUAL ALL Boundary Perimeter 21 P21 65063.75 4077559 0.10685 257.88 227 1.5 ANNUAL ALL Boundary Perimeter 21 P21 65078.14 4077544 0.06108 275.91 264 1.5 ANNUAL ALL Boundary Perimeter 23 P23 650778.91 4077454 0.06108 275.91 264 1.5 ANNUAL ALL Boundary Perimeter 24 P24 650781 4077544 0.06108 275.91 264 1.5 ANNUAL ALL Boundary Perimeter 25 P25 650783.11 4077254 0.2157 251.08 266 1.5 ANNUAL ALL Boundary Perimeter 25 P25 650783.11 4077254 0.2157 251.08 266 1.5 ANNUAL ALL Boundary Perimeter 26 P26 650785.19 4077154 0.26466 252.83 266 1.5 ANNUAL ALL Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.17 264 1.5 ANNUAL ALL Boundary Perimeter 28 P28 650783.83 4076954 0.46822 241.37 264 1.5 ANNUAL ALL Boundary Perimeter 30 P30 650793.57 4076554 0.65398 228.75 264 1.5 ANNUAL ALL Boundary Perimeter 31 P31 650764.39 4076650 1.03075 221.2 221.41 1.5 ANNUAL ALL Boundary Perimeter 3 | 649684.02 | 4077540 | 1.11605 | 221.29 | 251 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 12 | P12 |
| 649983.97 4077543 0.43734 249.54 273 1.5 ANNUAL ALL 1 Boundary Perimeter 15 P15 650083.94 4077546 0.22414 258.89 273 1.5 ANNUAL ALL 1 Boundary Perimeter 16 P16 650083.94 4077548 0.19732 259.56 273 1.5 ANNUAL ALL 1 Boundary Perimeter 17 P17 650283.87 4077550 0.18082 256.77 263 1.5 ANNUAL ALL 1 Boundary Perimeter 18 P18 650383.84 4077552 0.23296 242.37 263 1.5 ANNUAL ALL 1 Boundary Perimeter 19 P19 650483.81 4077554 0.2019 242.23 249 1.5 ANNUAL ALL 1 Boundary Perimeter 19 P19 650483.81 4077554 0.2019 242.23 249 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 650583.78 4077557 0.10578 259.71 264 1.5 ANNUAL ALL 1 Boundary Perimeter 21 P21 650683.75 4077559 0.10685 257.58 227 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 4077554 0.06566 267.9 264 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 4077554 0.060566 267.9 264 1.5 ANNUAL ALL 1 Boundary Perimeter 23 P23 65078.91 4077554 0.06188 275.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 650781 4077554 0.06188 275.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 650781 4077554 0.0108 265.73 266 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 650781 4077554 0.11058 265.73 266 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 65078.01 4077554 0.2157 251.08 266 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 65078.01 4077554 0.06066 224.01 264 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650783.1 4077554 0.1058 265.73 266 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 65079.48 407655 0.6606 22 41.37 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 65079.35 4076660 2.46394 224.13 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 65079.35 4076660 2.46394 224.27 246 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 65079.35 4076660 2.46394 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 65079.35 4076660 2.46394 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650660.22 40766650 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Pe | 649784 | 4077541 | 0.88928 | 222.37 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 13 | P13 |
| 650183.91 4077546 0.22414 258.89 273 1.5 ANNUAL ALL 1 Boundary Perimeter 16 P16 650183.91 4077548 0.19732 259.56 273 1.5 ANNUAL ALL 1 Boundary Perimeter 17 P17 650283.87 4077550 0.18082 256.77 263 1.5 ANNUAL ALL 1 Boundary Perimeter 18 P18 650383.84 4077552 0.23296 242.37 263 1.5 ANNUAL ALL 1 Boundary Perimeter 19 P19 650483.81 4077552 0.23296 242.37 263 1.5 ANNUAL ALL 1 Boundary Perimeter 19 P19 650483.81 4077552 0.203296 242.37 249 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 650583.75 4077557 0.10578 259.71 264 1.5 ANNUAL ALL 1 Boundary Perimeter 21 P21 650683.75 4077557 0.10578 259.71 264 1.5 ANNUAL ALL 1 Boundary Perimeter 21 P21 650786.81 4077554 0.06566 267.9 264 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 4077554 0.06566 267.9 264 1.5 ANNUAL ALL 1 Boundary Perimeter 23 P23 650778.91 4077454 0.0108 275.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 650788.1 4077254 0.2157 251.08 266 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 650788.1 4077254 0.2157 251.08 266 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650788.1 4077154 0.24646 252.83 266 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P33 65056.13 4076656 4076666 246399 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 650793.57 4076754 4076650 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P | 649883.99 | 4077542 | 0.75153 | 233.6 | 271 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 14 | P14 |
| 650283.87 4077554 0.19732 259.56 273 1.5 ANNUAL ALL 1 Boundary Perimeter 17 P17 | 649983.97 | 4077543 | 0.43734 | 249.54 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 15 | P15 |
| 650383.87 4077550 0.18082 256.77 263 1.5 ANNUAL ALL 1 Boundary Perimeter 18 P18 650383.84 4077552 0.23296 242.37 263 1.5 ANNUAL ALL 1 Boundary Perimeter 19 P19 650483.81 4077554 0.2019 242.23 249 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 650583.78 4077557 0.10578 259.71 264 1.5 ANNUAL ALL 1 Boundary Perimeter 21 P21 650683.75 4077559 0.10685 257.58 227 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 4077554 0.06566 267.9 264 1.5 ANNUAL ALL 1 Boundary Perimeter 23 P23 650778.91 4077454 0.06108 275.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 650781 4077354 0.11058 265.73 266 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 650781 4077354 0.2157 251.08 266 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 650783.1 4077254 0.2157 251.08 266 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650785.19 4077154 0.24646 252.83 266 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.89 4076554 0.46822 241.37 264 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650791.48 4076854 0.46822 241.37 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.89 4076650 0.46822 241.37 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.65398 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076660 0.4683 0.74133 217.76 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 65064.39 4076653 0.74133 217.76 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 65064.34 4076650 1.48665 220.83 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P33 65064.34 4076660 3.46394 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P33 65064.24 | 650083.94 | 4077546 | 0.22414 | 258.89 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 16 | P16 |
| 650838.38 4077552 0.23296 242.37 263 1.5 ANNUAL ALL 1 Boundary Perimeter 19 P19 650483.81 4077554 0.2019 242.23 249 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 650838.78 4077557 0.10578 259.71 264 1.5 ANNUAL ALL 1 Boundary Perimeter 21 P21 650683.75 4077559 0.10685 257.58 227 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 65076.81 4077554 0.06566 267.9 264 1.5 ANNUAL ALL 1 Boundary Perimeter 23 P23 65078.91 4077354 0.06108 275.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 65078 4077354 0.11058 265.73 266 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 65078.1 4077254 0.2157 251.08 266 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 65078.19 4077154 0.24646 252.83 266 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650793.84 4076854 0.66822 241.37 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.84 4076854 0.51629 246.79 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.65398 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4076685 0.76398 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650764.39 4076680 1.48665 220.83 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 65060.22 4076660 1.48665 220.83 264 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650660.22 4076660 1.48665 220.83 264 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650660.22 4076660 1.48665 220.83 264 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650660.22 4076660 3.42439 217.03 250 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650660.24 4076662 | 650183.91 | 4077548 | 0.19732 | 259.56 | 273 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 17 | P17 |
| 650833.78 4077557 0.10578 259.71 264 1.5 ANNUAL ALL 1 Boundary Perimeter 20 P20 | 650283.87 | 4077550 | 0.18082 | 256.77 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 18 | P18 |
| 650583.78 4077557 0.10578 259.71 264 1.5 ANNUAL ALL 1 Boundary Perimeter 21 P21 65068.75 4077559 0.10685 257.58 227 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 4077554 0.06566 267.9 264 1.5 ANNUAL ALL 1 Boundary Perimeter 23 P23 650778.91 4077454 0.06108 275.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 650781 4077354 0.11058 265.73 266 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 650783.1 4077254 0.2157 251.08 266 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650783.1 4077154 0.24646 252.83 266 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650783.88 4076954 0.46822 241.37 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076854 0.51629 246.79 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076854 0.51629 246.79 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 65078.39 4076683 0.74133 217.76 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4076650 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650660.22 4076650 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650361.43 4076683 3.9453 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 3.99668 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 3.99668 222.4 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 65066.24 4076660 3.42439 217.03 220.1 250 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.24 4076683 3.9453 223.19 250 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 640980.44 4076667 2.272446 214.91 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 64992 | 650383.84 | 4077552 | 0.23296 | 242.37 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 19 | P19 |
| 65078.31 4077559 0.10685 257.58 227 1.5 ANNUAL ALL 1 Boundary Perimeter 22 P22 650776.81 4077554 0.06566 267.9 264 1.5 ANNUAL ALL 1 Boundary Perimeter 23 P23 65078.91 4077454 0.06108 275.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 65078.1 4077354 0.11058 265.73 266 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 650783.1 4077254 0.2157 251.08 266 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650783.1 4077254 0.2157 251.08 266 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650781.9 4077154 0.24646 252.83 266 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650789.38 4076954 0.46822 241.37 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650793.57 4076754 0.51629 246.79 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.65398 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076683 0.74133 217.76 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650764.39 4076683 0.74133 217.76 264 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 65060.22 4076650 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 65061.34 4076665 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.46394 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 3.69668 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 3.69668 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 3.69668 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 3.9453 223.19 250 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 3.72713 222.1 250 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 6409605.8 4076660 3.42439 217.03 250 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 6409605.8 4076660 3.42439 217.03 250 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 6409605.8 4076660 3.42439 217.03 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 64982.26 4076547 2.72446 214.91 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 64982.28 4076375 1.52778 210.17 259 1.5 ANNUAL ALL 1 Bound | 650483.81 | 4077554 | 0.2019 | 242.23 | 249 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 20 | P20 |
| 650778.81 4077554 0.06566 267.9 264 1.5 ANNUAL ALL 1 Boundary Perimeter 23 P23 650778.91 4077454 0.06108 275.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 650781 4077354 0.11058 265.73 266 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 650783.1 4077254 0.2157 251.08 266 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650783.1 4077254 0.22167 251.08 266 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650785.19 4077154 0.24646 252.83 266 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.39 4076054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076854 0.51629 246.79 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076854 0.51629 246.79 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.65398 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650754.39 4076683 0.74133 217.76 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650660.22 4076660 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P32 65060.22 4076660 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 65064.27 4076666 2.46394 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.46394 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.46394 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.2 4076683 3.9453 223.19 250 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 3.72713 222.1 250 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 3.72713 222.1 250 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 640980.44 4076627 3.30683 214.82 250 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 640980.44 4076627 3.30683 214.82 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076547 2.72446 214.91 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076547 2.72446 214.91 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 64980.48 4076375 1.52778 210.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 64980.48 4076375 1.52778 210.17 259 1.5 ANNUAL ALL 1 Bound | 650583.78 | 4077557 | 0.10578 | 259.71 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 21 | P21 |
| 650778.91 4077454 0.06108 275.91 264 1.5 ANNUAL ALL 1 Boundary Perimeter 24 P24 65078.1 4077354 0.11058 265.73 266 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P25 65078.19 4077154 0.24646 252.83 266 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 65078.19 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650789.38 4076954 0.46822 241.37 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650793.57 4076754 0.65398 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650754.39 4076683 0.74133 217.76 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650660.22 <td< td=""><td>650683.75</td><td>4077559</td><td>0.10685</td><td>257.58</td><td>227</td><td>1.5</td><td>ANNUAL</td><td>ALL</td><td>1</td><td>Boundary Perimeter 22</td><td>P22</td></td<> | 650683.75 | 4077559 | 0.10685 | 257.58 | 227 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 22 | P22 |
| 650781 4077354 0.11058 265.73 266 1.5 ANNUAL ALL 1 Boundary Perimeter 25 P25 650783.1 4077254 0.2157 251.08 266 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650785.19 4077154 0.24646 252.83 266 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650785.19 4077154 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 65078.38 4076954 0.46822 241.37 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650793.57 4076754 0.65398 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650745.29 4076654 0.65398 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4 | 650776.81 | 4077554 | 0.06566 | 267.9 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 23 | P23 |
| 650783.1 4077254 0.2157 251.08 266 1.5 ANNUAL ALL 1 Boundary Perimeter 26 P26 650785.19 4077154 0.24646 252.83 266 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650789.38 4076954 0.46822 241.37 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076854 0.51629 246.79 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 6507954.39 4076658 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650660.22 4076650 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 650461.39 4076666 | 650778.91 | 4077454 | 0.06108 | 275.91 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 24 | P24 |
| 650785.19 4077154 0.24646 252.83 266 1.5 ANNUAL ALL 1 Boundary Perimeter 27 P27 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650789.38 4076954 0.46822 241.37 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650791.48 4076854 0.51629 246.79 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.65398 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4076683 0.74133 217.76 264 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650561.43 4076650 1.48665 220.83 264 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 650462.72 | 650781 | 4077354 | 0.11058 | 265.73 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 25 | P25 |
| 650787.29 4077054 0.36049 246.1 264 1.5 ANNUAL ALL 1 Boundary Perimeter 28 P28 650789.38 4076654 0.46822 241.37 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076654 0.51629 246.79 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650791.54 4076654 0.65398 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4076683 0.74133 217.76 264 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650660.22 4076650 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 650660.22 4076650 1.48665 220.83 264 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.46394 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 3.69668 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 3.69668 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076674 3.79713 222.1 250 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 65016.471 4076670 3.42439 217.03 250 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 650056.8 4076660 3.42439 217.03 250 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 64998.04 4076627 3.30683 214.82 250 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 64998.04 4076627 3.30683 214.82 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076474 2.23747 214.09 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076474 2.23747 214.09 250 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649852.19 4076474 2.23747 214.09 250 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649852.19 4076474 2.23747 214.09 250 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649850.91 407638 1.3371 208.52 259 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076384 1.14517 207.5 245 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076685 1.3371 208.52 259 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076645 1.15728 205.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649858.91 4076645 1.15728 205.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 64980.48 4076384 1.14517 207.5 245 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | 650783.1 | 4077254 | 0.2157 | 251.08 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 26 | P26 |
| 650789.38 4076954 0.46822 241.37 264 1.5 ANNUAL ALL 1 Boundary Perimeter 29 P29 650791.48 4076854 0.51629 246.79 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.65398 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4076683 0.74133 217.76 264 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650660.22 4076650 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P33 650561.43 4076650 1.48665 220.83 264 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 650364.01 4076682 3.69668 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650264.24 | 650785.19 | 4077154 | 0.24646 | 252.83 | 266 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 27 | P27 |
| 650791.48 4076854 0.51629 246.79 264 1.5 ANNUAL ALL 1 Boundary Perimeter 30 P30 650793.57 4076754 0.65398 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4076650 0.74133 217.76 264 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650660.22 4076650 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 650661.43 4076660 1.48665 220.83 264 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.46394 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 6504642.72 4076668 3.69668 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 | 650787.29 | 4077054 | 0.36049 | 246.1 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 28 | P28 |
| 650793.57 4076754 0.65398 228.75 264 1.5 ANNUAL ALL 1 Boundary Perimeter 31 P31 650754.39 4076683 0.74133 217.76 264 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650660.22 4076650 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 650561.43 4076650 1.48665 220.83 264 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.46394 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 3.69668 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 3.9453 223.19 250 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 | 650789.38 | 4076954 | 0.46822 | 241.37 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 29 | P29 |
| 650754.39 4076683 0.74133 217.76 264 1.5 ANNUAL ALL 1 Boundary Perimeter 32 P32 650660.22 4076650 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 650561.43 4076650 1.48665 220.83 264 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.46394 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 3.69668 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 3.9453 223.19 250 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650164.71 4076674 3.72713 222.1 250 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 | 650791.48 | 4076854 | 0.51629 | 246.79 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 30 | P30 |
| 650660.22 4076650 1.03075 221.2 221.41 1.5 ANNUAL ALL 1 Boundary Perimeter 33 P33 650561.43 4076650 1.48665 220.83 264 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.46394 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 3.69668 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 3.9453 223.19 250 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650164.71 4076674 3.72713 222.1 250 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650065.8 4076660 3.42439 217.03 250 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 649980.44 | 650793.57 | 4076754 | 0.65398 | 228.75 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 31 | P31 |
| 650561.43 4076650 1.48665 220.83 264 1.5 ANNUAL ALL 1 Boundary Perimeter 34 P34 650462.72 4076666 2.46394 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 3.69668 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 3.9453 223.19 250 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 3.72713 222.1 250 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 650065.8 4076660 3.42439 217.03 250 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 649980.44 4076627 3.30683 214.82 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 < | 650754.39 | 4076683 | 0.74133 | 217.76 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 32 | P32 |
| 650462.72 4076666 2.46394 223.42 264 1.5 ANNUAL ALL 1 Boundary Perimeter 35 P35 650364.01 4076682 3.69668 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 3.9453 223.19 250 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 3.72713 222.1 250 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 650065.8 4076660 3.42439 217.03 250 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 649980.44 4076627 3.30683 214.82 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076547 2.72446 214.91 250 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649852.19 < | 650660.22 | 4076650 | 1.03075 | 221.2 | 221.41 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 33 | P33 |
| 650364.01 4076682 3.69668 222.46 263 1.5 ANNUAL ALL 1 Boundary Perimeter 36 P36 650264.24 4076683 3.9453 223.19 250 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 3.72713 222.1 250 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 650065.8 4076660 3.42439 217.03 250 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 649980.44 4076627 3.30683 214.82 250 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 649920.26 4076547 2.72446 214.91 250 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649852.19 4076474 2.23747 214.09 250 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 < | 650561.43 | 4076650 | 1.48665 | 220.83 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 34 | P34 |
| 650264.24 4076683 3.9453 223.19 250 1.5 ANNUAL ALL 1 Boundary Perimeter 37 P37 650164.71 4076674 3.72713 222.1 250 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 650065.8 4076660 3.42439 217.03 250 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 649980.44 4076627 3.30683 214.82 250 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 649920.26 4076547 2.72446 214.91 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649852.19 4076474 2.23747 214.09 250 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 4076417 1.72303 211.53 250 1.5 ANNUAL ALL 1 Boundary Perimeter 43 P43 649680.48 < | 650462.72 | 4076666 | 2.46394 | 223.42 | 264 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 35 | P35 |
| 650164.71 4076674 3.72713 222.1 250 1.5 ANNUAL ALL 1 Boundary Perimeter 38 P38 650065.8 4076660 3.42439 217.03 250 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 649980.44 4076627 3.30683 214.82 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076547 2.72446 214.91 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649852.19 4076474 2.23747 214.09 250 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649852.19 4076474 2.23747 214.09 250 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 4076417 1.72303 211.53 250 1.5 ANNUAL ALL 1 Boundary Perimeter 43 P43 649680.48 | 650364.01 | 4076682 | 3.69668 | 222.46 | 263 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 36 | P36 |
| 650065.8 4076660 3.42439 217.03 250 1.5 ANNUAL ALL 1 Boundary Perimeter 39 P39 649980.44 4076627 3.30683 214.82 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076547 2.72446 214.91 250 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649852.19 4076474 2.23747 214.09 250 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 4076417 1.72303 211.53 250 1.5 ANNUAL ALL 1 Boundary Perimeter 43 P43 649680.48 4076375 1.52778 210.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076368 1.3371 208.52 259 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 | 650264.24 | 4076683 | 3.9453 | 223.19 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 37 | P37 |
| 649980.44 4076627 3.30683 214.82 250 1.5 ANNUAL ALL 1 Boundary Perimeter 40 P40 649920.26 4076547 2.72446 214.91 250 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649852.19 4076474 2.23747 214.09 250 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 4076417 1.72303 211.53 250 1.5 ANNUAL ALL 1 Boundary Perimeter 43 P43 649680.48 4076375 1.52778 210.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076368 1.3371 208.52 259 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 4076384 1.14517 207.5 245 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 | 650164.71 | 4076674 | 3.72713 | 222.1 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 38 | P38 |
| 649920.26 4076547 2.72446 214.91 250 1.5 ANNUAL ALL 1 Boundary Perimeter 41 P41 649852.19 4076474 2.23747 214.09 250 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 4076417 1.72303 211.53 250 1.5 ANNUAL ALL 1 Boundary Perimeter 43 P43 649680.48 4076375 1.52778 210.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076368 1.3371 208.52 259 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 4076384 1.14517 207.5 245 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.17728 205.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | 650065.8 | 4076660 | 3.42439 | 217.03 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 39 | P39 |
| 649852.19 4076474 2.23747 214.09 250 1.5 ANNUAL ALL 1 Boundary Perimeter 42 P42 649770.68 4076417 1.72303 211.53 250 1.5 ANNUAL ALL 1 Boundary Perimeter 43 P43 649680.48 4076375 1.52778 210.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076368 1.3371 208.52 259 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 4076384 1.14517 207.5 245 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.17728 205.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | 649980.44 | 4076627 | 3.30683 | 214.82 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 40 | P40 |
| 649770.68 4076417 1.72303 211.53 250 1.5 ANNUAL ALL 1 Boundary Perimeter 43 P43 649680.48 4076375 1.52778 210.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076368 1.3371 208.52 259 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 4076384 1.14517 207.5 245 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.17728 205.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | 649920.26 | 4076547 | 2.72446 | 214.91 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 41 | P41 |
| 649770.68 4076417 1.72303 211.53 250 1.5 ANNUAL ALL 1 Boundary Perimeter 43 P43 649680.48 4076375 1.52778 210.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076368 1.3371 208.52 259 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 4076384 1.14517 207.5 245 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.17728 205.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | 649852.19 | 4076474 | 2.23747 | 214.09 | 250 | 1.5 | ANNUAL | ALL | 1 | Boundary Perimeter 42 | P42 |
| 649680.48 4076375 1.52778 210.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 44 P44 649580.91 4076368 1.3371 208.52 259 1.5 ANNUAL ALL 1 Boundary Perimeter 45 P45 649482.48 4076384 1.14517 207.5 245 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.17728 205.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | | 4076417 | | 211.53 | | | ANNUAL | ALL | 1 | Boundary Perimeter 43 | P43 |
| 649482.48 4076384 1.14517 207.5 245 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.17728 205.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | 649680.48 | 4076375 | | 210.17 | 259 | 1.5 | ANNUAL | ALL | 1 | • | P44 |
| 649482.48 4076384 1.14517 207.5 245 1.5 ANNUAL ALL 1 Boundary Perimeter 46 P46 649391.59 4076425 1.17728 205.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | | | | | | | | | 1 | · · · · · · · · · · · · · · · · · · · | P45 |
| 649391.59 4076425 1.17728 205.17 259 1.5 ANNUAL ALL 1 Boundary Perimeter 47 P47 | | | | | 245 | | | | 1 | · | P46 |
| | | | | | 259 | | ANNUAL | ALL | 1 | Boundary Perimeter 47 | P47 |
| | | 4076472 | | 202.16 | 259 | | | | 1 | Boundary Perimeter 48 | P48 |

PMI

* AERMET (19191): 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS N | ET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|-----------|-------|-----------------------|-------|
| 649226.19 | 4076535 | 1.12282 | 196.38 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 49 | P49 |
| 649156.2 | 4076605 | 1.26763 | 195.87 | 245 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 50 | P50 |
| 649068.25 | 4076653 | 1.08201 | 196.32 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 51 | P51 |
| 648986.7 | 4076711 | 0.96577 | 192.42 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 52 | P52 |
| 648936.53 | 4076759 | 0.96268 | 192.46 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 53 | P53 |
| 648868.58 | 4076833 | 0.99966 | 191.63 | 258.43 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 54 | P54 |
| 648797.23 | 4076902 | 1.06126 | 186.32 | 127.38 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 55 | P55 |
| 648710.56 | 4076952 | 0.88291 | 179.81 | 131.21 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 56 | P56 |
| 648620.79 | 4076996 | 0.51839 | 176.23 | 135.89 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 57 | P57 |
| 648607.19 | 4077051 | 0.66611 | 175.02 | 139.18 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 58 | P58 |
| 648680.07 | 4077119 | 0.97751 | 180.62 | 140.76 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 59 | P59 |
| 649084.12 | 4077532 | 0.59646 | 216.54 | 281 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 6 | P6 |
| 648759.24 | 4077180 | 0.57703 | 183.47 | 143.89 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 60 | P60 |
| 648791.44 | 4077262 | 0.46889 | 202.88 | 145.22 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 61 | P61 |
| 648788.45 | 4077362 | 0.38792 | 178.21 | 147.21 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 62 | P62 |
| 648691.25 | 4077361 | 0.38716 | 176.25 | 160 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 63 | P63 |
| 648591.35 | 4077357 | 0.39608 | 176 | 127.58 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 64 | P64 |
| 648525.69 | 4077371 | 0.38035 | 175.24 | 130.56 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 65 | P65 |
| 648586.93 | 4077430 | 0.35351 | 175.13 | 134.35 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 66 | P66 |
| 649184.09 | 4077534 | 0.7903 | 230.71 | 282 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 7 | P7 |
| 649284.08 | 4077535 | 0.87904 | 248.08 | 281 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 8 | P8 |
| 649384.06 | 4077536 | 0.81613 | 258.43 | 269 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.03121 | 127.38 | 830 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646030 | 4077983 | 0.03317 | 131.21 | 830 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646130 | 4077983 | 0.03536 | 135.89 | 830 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646230 | 4077983 | 0.03778 | 139.18 | 801 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646330 | 4077983 | 0.04043 | 140.76 | 287 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646430 | 4077983 | 0.04343 | 143.89 | 260.9 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646530 | 4077983 | 0.04671 | 145.22 | 287 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646630 | 4077983 | 0.05037 | 147.21 | 164 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646730 | 4077983 | 0.0544 | 148.3 | 287 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 645930 | 4078083 | 0.03293 | 127.58 | 830 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646030 | 4078083 | 0.03504 | 130.56 | 830 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646130 | 4078083 | 0.03737 | 134.35 | 830 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646230 | 4078083 | 0.04 | 139.22 | 813 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646330 | 4078083 | 0.04293 | 144.65 | 296 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646430 | 4078083 | 0.04589 | 142.28 | 296 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646530 | 4078083 | 0.04939 | 146.76 | 267 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646630 | 4078083 | 0.05323 | 150.64 | 273 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |

08/31/21

* AERMET (19191): 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID | |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-----------------|--------|------|
| 646730 | 4078083 | 0.05753 | 155.4 | 287 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 645930 | 4078183 | 0.03461 | 127.22 | 160.7 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646030 | 4078183 | 0.03684 | 130.56 | 289 | 1.5 | ANNUAL | ALL | 1 | New Development | RP G1 | |
| 646130 | 4078183 | 0.03928 | 133.89 | 830 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646230 | 4078183 | 0.04204 | 140.45 | 830 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646330 | 4078183 | 0.0451 | 146.94 | 830 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646430 | 4078183 | 0.04791 | 140.23 | 826 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646530 | 4078183 | 0.05152 | 147.25 | 826 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646630 | 4078183 | 0.05543 | 151.56 | 813 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646730 | 4078183 | 0.05997 | 157.78 | 813 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 645930 | 4078283 | 0.03615 | 126.06 | 220 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646030 | 4078283 | 0.03843 | 129.56 | 269 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646130 | 4078283 | 0.04091 | 132.89 | 227 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646230 | 4078283 | 0.04368 | 139.24 | 257 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646330 | 4078283 | 0.04665 | 142.68 | 259 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646430 | 4078283 | 0.04967 | 140.02 | 259 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646530 | 4078283 | 0.05341 | 147.22 | 260 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646630 | 4078283 | 0.0575 | 151.56 | 259 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 646730 | 4078283 | 0.06224 | 156.78 | 259 | 1.5 | ANNUAL | ALL | 1 | New Development | RP_G1 | |
| 648659.32 | 4077241 | 0.55371 | 205.79 | 123.85 | 1.5 | ANNUAL | ALL | 1 | House 1 | | MEIR |
| 648071.24 | 4076116 | 0.0686 | 169.6 | 133 | 1.5 | ANNUAL | ALL | 1 | House 10 | RP_H10 | |
| 648247.37 | 4076278 | 0.08882 | 184.55 | 86 | 1.5 | ANNUAL | ALL | 1 | House 11 | RP_H11 | |
| 648027.19 | 4076255 | 0.07021 | 169.38 | 313 | 1.5 | ANNUAL | ALL | 1 | House 12 | RP_H12 | |
| 648065.77 | 4076359 | 0.07704 | 173.83 | 91 | 1.5 | ANNUAL | ALL | 1 | House 13 | RP_H13 | |
| 648138.68 | 4076400 | 0.08421 | 178.22 | 128.52 | 1.5 | ANNUAL | ALL | 1 | House 14 | RP_H14 | |
| 648254.71 | 4076411 | 0.09724 | 191.28 | 158 | 1.5 | ANNUAL | ALL | 1 | House 15 | RP_H15 | |
| 647877.81 | 4076365 | 0.06528 | 165.39 | 98.2 | 1.5 | ANNUAL | ALL | 1 | House 16 | RP_H16 | |
| 647520 | 4076206 | 0.04819 | 159 | 101.23 | 1.5 | ANNUAL | ALL | 1 | House 17 | RP_H17 | |
| 647921 | 4076247 | 0.06401 | 164 | 92 | 1.5 | ANNUAL | ALL | 1 | House 18 | RP_H18 | |
| 647708.78 | 4076352 | 0.05675 | 163.52 | 88 | 1.5 | ANNUAL | ALL | 1 | House 19 | RP_H19 | |
| 648371.71 | 4075470 | 0.06159 | 173.69 | 105.68 | 1.5 | ANNUAL | ALL | 1 | House 2 | RP_H2 | |
| 647703.58 | 4076251 | 0.05511 | 162.17 | 85 | 1.5 | ANNUAL | ALL | 1 | House 20 | RP_H20 | |
| 647718.77 | 4076104 | 0.05143 | 159.35 | 98.22 | 1.5 | ANNUAL | ALL | 1 | House 21 | RP_H21 | |
| 647843.32 | 4076125 | 0.057 | 163 | 87 | 1.5 | ANNUAL | ALL | 1 | House 22 | RP_H22 | |
| 647842.26 | 4076500 | 0.06268 | 167.93 | 90.17 | 1.5 | ANNUAL | ALL | 1 | House 23 | RP_H23 | |
| 647727.75 | 4076644 | 0.05704 | 164.15 | 127 | 1.5 | ANNUAL | ALL | 1 | House 24 | RP_H24 | |
| 647823.91 | 4076644 | 0.06234 | 168.29 | 153 | 1.5 | ANNUAL | ALL | 1 | House 25 | RP_H25 | |
| 647530 | 4076497 | 0.0473 | 159.56 | 259 | 1.5 | ANNUAL | ALL | 1 | House 26 | RP_H26 | |
| 647810.11 | 4076854 | 0.06368 | 162.9 | 155.2 | 1.5 | ANNUAL | ALL | 1 | House 27 | RP_H27 | |

* AERMET (19191): 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-------------|--------|
| 647697.48 | 4076989 | 0.06012 | 161.42 | 160 | 1.5 | ANNUAL | ALL | 1 | House 28 | RP_H28 |
| 648225.5 | 4076182 | 0.08294 | 183.22 | 252.9 | 1.5 | ANNUAL | ALL | 1 | House 29 | RP_H29 |
| 647678.23 | 4075969 | 0.04818 | 159.5 | 85.12 | 1.5 | ANNUAL | ALL | 1 | House 3 | RP_H3 |
| 645876.32 | 4077487 | 0.0213 | 127.13 | 165.9 | 1.5 | ANNUAL | ALL | 1 | House 30 | RP_H30 |
| 650902 | 4076062 | 0.49097 | 215.24 | 159.6 | 1.5 | ANNUAL | ALL | 1 | House 31 | RP_H31 |
| 651490 | 4076597 | 0.21329 | 205.5 | 146.2 | 1.5 | ANNUAL | ALL | 1 | House 32 | RP_H32 |
| 651565 | 4077067 | 0.14223 | 213.93 | 181 | 1.5 | ANNUAL | ALL | 1 | House 33 | RP_H33 |
| 648672.77 | 4075307 | 0.07811 | 225.91 | 179 | 1.5 | ANNUAL | ALL | 1 | House 34 | RP_H34 |
| 648383.6 | 4075469 | 0.06225 | 174.44 | 175.4 | 1.5 | ANNUAL | ALL | 1 | House 35 | RP_H35 |
| 646379.37 | 4077233 | 0.02485 | 146 | 240 | 1.5 | ANNUAL | ALL | 1 | House 36 | RP_H36 |
| 651849.72 | 4075865 | 0.17316 | 201.97 | 240 | 1.5 | ANNUAL | ALL | 1 | House 37 | RP_H37 |
| 652045.49 | 4076210 | 0.1383 | 196.88 | 240 | 1.5 | ANNUAL | ALL | 1 | House 38 | RP_H38 |
| 652255.69 | 4076391 | 0.11336 | 197.06 | 145.4 | 1.5 | ANNUAL | ALL | 1 | House 39 | RP_H39 |
| 647815.25 | 4075985 | 0.0534 | 162.04 | 117.99 | 1.5 | ANNUAL | ALL | 1 | House 4 | RP_H4 |
| 646853.73 | 4077373 | 0.03731 | 145.99 | 813 | 1.5 | ANNUAL | ALL | 1 | House 40 | RP_H40 |
| 647050.21 | 4077360 | 0.04349 | 145 | 221 | 1.5 | ANNUAL | ALL | 1 | House 41 | RP_H41 |
| 647286.42 | 4077474 | 0.06252 | 149.68 | 253 | 1.5 | ANNUAL | ALL | 1 | House 42 | RP_H42 |
| 647359.05 | 4077340 | 0.05764 | 154.45 | 259 | 1.5 | ANNUAL | ALL | 1 | House 43 | RP_H43 |
| 647490.41 | 4077329 | 0.06601 | 162.28 | 263 | 1.5 | ANNUAL | ALL | 1 | House 44 | RP_H44 |
| 647522.17 | 4077252 | 0.06189 | 164.3 | 227.2 | 1.5 | ANNUAL | ALL | 1 | House 45 | RP_H45 |
| 647517.82 | 4077139 | 0.05577 | 164.01 | 171 | 1.5 | ANNUAL | ALL | 1 | House 46 | RP_H46 |
| 646819.01 | 4077258 | 0.03289 | 151.53 | 300 | 1.5 | ANNUAL | ALL | 1 | House 47 | RP_H47 |
| 646778.72 | 4077128 | 0.03142 | 158.51 | 830 | 1.5 | ANNUAL | ALL | 1 | House 48 | RP_H48 |
| 646987.26 | 4077213 | 0.0364 | 146.44 | 813 | 1.5 | ANNUAL | ALL | 1 | House 49 | RP_H49 |
| 647898.2 | 4076033 | 0.05772 | 163.83 | 106.44 | 1.5 | ANNUAL | ALL | 1 | House 5 | RP_H5 |
| 647241.77 | 4077227 | 0.0452 | 154.85 | 227 | 1.5 | ANNUAL | ALL | 1 | House 50 | RP_H50 |
| 646773.05 | 4077063 | 0.03062 | 159 | 251 | 1.5 | ANNUAL | ALL | 1 | House 51 | RP_H51 |
| 647104.37 | 4077118 | 0.03876 | 148.99 | 259 | 1.5 | ANNUAL | ALL | 1 | House 52 | RP_H52 |
| 647291.9 | 4077123 | 0.04509 | 158.62 | 266 | 1.5 | ANNUAL | ALL | 1 | House 53 | RP_H53 |
| 646765.24 | 4076978 | 0.02888 | 158.67 | 257 | 1.5 | ANNUAL | ALL | 1 | House 54 | RP_H54 |
| 646995.65 | 4076984 | 0.03341 | 152.34 | 171 | 1.5 | ANNUAL | ALL | 1 | House 55 | RP_H55 |
| 647317.21 | 4077031 | 0.0439 | 160.22 | 300 | 1.5 | ANNUAL | ALL | 1 | House 56 | RP_H56 |
| 647398.39 | 4077013 | 0.04638 | 161.26 | 830 | 1.5 | ANNUAL | ALL | 1 | House 57 | RP_H57 |
| 646978.93 | 4076904 | 0.03154 | 156.81 | 830 | 1.5 | ANNUAL | ALL | 1 | House 58 | RP_H58 |
| 647015.19 | 4076807 | 0.03192 | 156.21 | 813 | 1.5 | ANNUAL | ALL | 1 | House 59 | RP_H59 |
| 648045.44 | 4076018 | 0.06387 | 168.26 | 112.86 | 1.5 | ANNUAL | ALL | 1 | House 6 | RP_H6 |
| 647163.96 | 4076802 | 0.03544 | 154.38 | 290 | 1.5 | ANNUAL | ALL | 1 | House 60 | RP_H60 |
| 647310.58 | 4076940 | 0.04112 | 162.49 | 257.7 | 1.5 | ANNUAL | ALL | 1 | House 61 | RP_H61 |
| 647298.09 | 4076805 | 0.03932 | 158 | 272 | 1.5 | ANNUAL | ALL | 1 | House 62 | RP_H62 |

08/31/21

* AERMET (19191): 2019

15:34:45

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|----------------|-------------|--------|
| 647446.56 | 4076900 | 0.04486 | 159.45 | 266 | 1.5 | ANNUAL | ALL | 1 | House 63 | RP_H63 |
| 647464.49 | 4076781 | 0.04557 | 159.32 | 164.7 | 1.5 | ANNUAL | ALL | 1 | House 64 | RP_H64 |
| 647512 | 4076536 | 0.04663 | 159 | 290 | 1.5 | ANNUAL | ALL | 1 | House 65 | RP_H65 |
| 651131 | 4078767 | 0.03611 | 179.58 | 227 | 1.5 | ANNUAL | ALL | 1 | House 66 | RP_H66 |
| 647131 | 4077336 | 0.04547 | 146.77 | 296 | 1.5 | ANNUAL | ALL | 1 | House 67 | RP_H67 |
| 646798 | 4076740 | 0.0285 | 156.07 | 296 | 1.5 | ANNUAL | ALL | 1 | House 68 | RP_H68 |
| 646900 | 4076802 | 0.02972 | 159 | 296 | 1.5 | ANNUAL | ALL | 1 | House 69 | RP_H69 |
| 648126.33 | 4075955 | 0.06473 | 171.51 | 95.25 | 1.5 | ANNUAL | ALL | 1 | House 7 | RP_H7 |
| 647317 | 4076662 | 0.04189 | 159.9 | 275.91 | 1.5 | ANNUAL | ALL | 1 | House 70 | RP_H70 |
| 648249.26 | 4075970 | 0.07262 | 183.42 | 134.61 | 1.5 | ANNUAL | ALL | 1 | House 8 | RP_H8 |
| 648218.58 | 4076109 | 0.07929 | 182.28 | 318 | 1.5 | ANNUAL | ALL | 1 | House 9 | RP_H9 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in $\mu g/m^3$.

08/31/21

* AERMET (21112): 2020

15:54:04

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X Y 645996 40786 643903.65 40777 642056.782 40799 644733.142 40787 645608.808 40788 644238.054 40788 645311.476 40765 649581.689 40734 645145.11 40771 642904.712 40799 645850.678 40740 642105.679 40781 646058.93 40784 647269 40755 648466 40741 644109.6 40783 | 19 0.01819 16 0.01424 50 0.01512 53 0.02935 54 0.04436 07 0.02469 59 0.02274 24 0.05463 81 0.02527 55 0.01862 15 0.01758 76 0.01166 43 0.05172 75 0.04293 06 0.04555 | 123.85 105.68 85.12 117.99 106.44 112.86 95.25 134.61 159.96 133 86 123 91 128.52 158 159 | ZHILL 123.85 105.68 85.12 117.99 106.44 112.86 95.25 134.61 318 133 86 313 91 128.52 158 240 | ZFLAG 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1. | AVE ANNUAL | GRP ALL ALL ALL ALL ALL ALL ALL ALL ALL AL | NUM YRS 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | NET ID | Description AQ Monitoring Station Hazel Hawkins Memorial Hospital Dunne Park Vista Park Hill Park Las Brisas Park Frank Klauer Memorial Park Veterans Memorial Park Park 6 Park 7 Cerra Vista Elem School San Andreas Continuation SouthSide School School 12 | AQ ST_1 CR_HP_1 CR_PK_1 CR_PK_2 CR_PK_3 CR_PK_4 CR_PK_5 CR_PK_6 CR_PK_7 CR_SC_1 CR_SC_1 CR_SC_11 CR_SC_12 CR_SC_13 |
|--|--|--|--|--|--|--|---|--------|--|--|
| 643903.65 40777 642056.782 40794 642179.095 40799 644733.142 40787 645608.808 40788 644238.054 40788 645311.476 40765 649581.689 40734 645145.11 40771 642904.712 40799 645850.678 40740 642105.679 40781 646058.93 40784 647269 40755 648466 40741 644109.6 40783 | 19 0.01819 16 0.01424 50 0.01512 53 0.02935 54 0.04436 07 0.02469 59 0.02274 24 0.05463 81 0.02527 55 0.01862 15 0.01758 76 0.01166 43 0.05172 75 0.04293 06 0.04555 | 105.68 85.12 117.99 106.44 112.86 95.25 134.61 159.96 133 86 123 91 128.52 158 159 | 105.68 85.12 117.99 106.44 112.86 95.25 134.61 318 133 86 313 91 128.52 158 | 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL | ALL ALL ALL ALL ALL ALL ALL ALL ALL ALL | 1 1 1 1 1 1 1 1 1 1 1 1 1 | | Hazel Hawkins Memorial Hospital Dunne Park Vista Park Hill Park Las Brisas Park Frank Klauer Memorial Park Veterans Memorial Park Park 6 Park 7 Cerra Vista Elem School San Andreas Continuation SouthSide School | CR HP 1 CR PK 1 CR PK 2 CR PK 3 CR PK 4 CR PK 5 CR PK 6 CR PK 7 CR SC 1 CR SC 10 CR SC 11 CR SC 12 |
| 642056.782 40794 642179.095 40799 644733.142 40787 645608.808 40788 644238.054 40785 645311.476 40765 649581.689 40734 645145.11 40771 642904.712 40799 645850.678 40740 642105.679 40781 646058.93 40784 647269 40755 648466 40741 644109.6 40783 | 16 0.01424 50 0.01512 53 0.02935 54 0.04436 07 0.02469 59 0.02274 24 0.05463 81 0.02527 55 0.01862 15 0.01758 76 0.01166 43 0.05172 75 0.04293 06 0.04555 | 85.12 117.99 106.44 112.86 95.25 134.61 159.96 133 86 123 91 128.52 158 159 | 85.12 117.99 106.44 112.86 95.25 134.61 318 133 86 313 91 128.52 158 | 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL | ALL ALL ALL ALL ALL ALL ALL ALL ALL ALL | 1 1 1 1 1 1 1 1 1 1 1 1 | | Dunne Park Vista Park Hill Park Las Brisas Park Frank Klauer Memorial Park Veterans Memorial Park Park 6 Park 7 Cerra Vista Elem School San Andreas Continuation SouthSide School | CR PK 1 CR PK 2 CR PK 3 CR PK 4 CR PK 5 CR PK 6 CR PK 7 CR SC 1 CR SC 10 CR SC 11 CR SC 12 |
| 642179.095 40799 644733.142 40787 645608.808 40788 644238.054 40788 644238.054 40765 649581.689 40734 645145.11 40771 642904.712 40799 645850.678 40740 642105.679 40781 646058.93 40784 647269 40755 648466 40741 644109.6 40783 | 50 0.01512 53 0.02935 54 0.04436 07 0.02469 59 0.02274 24 0.05463 81 0.02527 55 0.01862 15 0.01758 76 0.01166 43 0.05172 75 0.04293 06 0.04555 | 117.99 106.44 112.86 95.25 134.61 159.96 133 86 123 91 128.52 158 159 | 117.99 106.44 112.86 95.25 134.61 318 133 86 313 91 128.52 | 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL | ALL ALL ALL ALL ALL ALL ALL ALL ALL ALL | 1 1 1 1 1 1 1 1 1 1 | | Vista Park Hill Park Las Brisas Park Frank Klauer Memorial Park Veterans Memorial Park Park 6 Park 7 Cerra Vista Elem School San Andreas Continuation SouthSide School School 12 | CR PK 2 CR PK 3 CR PK 4 CR PK 5 CR PK 6 CR PK 7 CR SC 1 CR SC 10 CR SC 11 CR SC 12 |
| 644733.142 40787 645608.808 40788 644238.054 40788 644238.054 40765 649581.689 40734 645145.11 40771 642904.712 40799 645850.678 40740 642105.679 40781 646058.93 40784 647269 40755 648466 40741 644109.6 40783 | 53 0.02935 54 0.04436 07 0.02469 59 0.02274 24 0.05463 81 0.02527 55 0.01862 15 0.01758 76 0.01166 43 0.05172 75 0.04293 06 0.04555 | 106.44 112.86 95.25 134.61 159.96 133 86 123 91 128.52 158 159 | 106.44 112.86 95.25 134.61 318 133 86 313 91 128.52 | 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL | ALL ALL ALL ALL ALL ALL ALL ALL ALL ALL | 1 1 1 1 1 1 1 1 1 | | Las Brisas Park Frank Klauer Memorial Park Veterans Memorial Park Park 6 Park 7 Cerra Vista Elem School San Andreas Continuation SouthSide School School 12 | CR PK 3 CR PK 4 CR PK 5 CR PK 6 CR PK 7 CR SC 1 CR SC 10 CR SC 11 CR SC 12 |
| 645608.808 40788 644238.054 40788 645311.476 40765 649581.689 40734 645145.11 40771 642904.712 40799 645850.678 40740 642105.679 40781 646058.93 40784 647269 40755 648466 40741 644109.6 40783 | 54 0.04436 07 0.02469 59 0.02274 24 0.05463 81 0.02527 55 0.01862 15 0.01758 76 0.01166 43 0.05172 75 0.04293 06 0.04555 | 112.86 95.25 134.61 159.96 133 86 123 91 128.52 158 159 | 112.86 95.25 134.61 318 133 86 313 91 128.52 158 | 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL | ALL ALL ALL ALL ALL ALL ALL ALL ALL ALL | 1 1 1 1 1 1 1 1 | | Frank Klauer Memorial Park Veterans Memorial Park Park 6 Park 7 Cerra Vista Elem School San Andreas Continuation SouthSide School School 12 | CR PK 4 CR PK 5 CR PK 6 CR PK 7 CR SC 1 CR SC 10 CR SC 11 CR SC 12 |
| 644238.054 40788 645311.476 40765 649581.689 40734 645145.11 40771 642904.712 40799 645850.678 40740 642105.679 40781 646058.93 40784 647269 40755 648466 40741 644109.6 40783 | 07 0.02469 59 0.02274 24 0.05463 81 0.02527 55 0.01862 15 0.01758 76 0.01166 43 0.05172 75 0.04293 06 0.04555 | 95.25 134.61 159.96 133 86 123 91 128.52 158 159 | 95.25 134.61 318 133 86 313 91 128.52 158 | 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL | ALL ALL ALL ALL ALL ALL ALL ALL ALL ALL | 1 1 1 1 1 1 1 | | Veterans Memorial Park Park 6 Park 7 Cerra Vista Elem School San Andreas Continuation SouthSide School School 12 | CR PK 5 CR PK 6 CR PK 7 CR SC 1 CR SC 10 CR SC 11 CR SC 12 |
| 645311.476 40765 649581.689 40734 645145.11 40771 642904.712 40799 645850.678 40740 642105.679 40781 646058.93 40784 647269 40755 648466 40741 644109.6 40783 | 59 0.02274 24 0.05463 81 0.02527 55 0.01862 15 0.01758 76 0.01166 43 0.05172 75 0.04293 06 0.04555 | 134.61 159.96 133 86 123 91 128.52 158 159 | 134.61 318 133 86 313 91 128.52 | 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL | ALL ALL ALL ALL ALL ALL ALL ALL ALL | 1 1 1 1 1 1 | | Park 6 Park 7 Cerra Vista Elem School San Andreas Continuation SouthSide School School 12 | CR PK 6 CR PK 7 CR SC 1 CR SC 10 CR SC 11 CR SC 12 |
| 649581.689 40734 645145.11 40771 642904.712 40799 645850.678 40740 642105.679 40781 646058.93 40784 647269 40755 648466 40741 644109.6 40783 | 24 0.05463 81 0.02527 55 0.01862 15 0.01758 76 0.01166 43 0.05172 75 0.04293 06 0.04555 | 159.96 133 86 123 91 128.52 158 159 | 318 133 86 313 91 128.52 158 | 1.5 1.5 1.5 1.5 1.5 1.5 | ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL | ALL ALL ALL ALL ALL ALL | 1 1 1 1 1 | | Park 7 Cerra Vista Elem School San Andreas Continuation SouthSide School School 12 | CR_PK_7 CR_SC_1 CR_SC_10 CR_SC_11 CR_SC_12 |
| 645145.11 40771 642904.712 40799 645850.678 40740 642105.679 40781 646058.93 40784 647269 40755 648466 40741 644109.6 40783 | 81 0.02527 55 0.01862 15 0.01758 76 0.01166 43 0.05172 75 0.04293 06 0.04555 | 133 86 123 91 128.52 158 159 | 133 86 313 91 128.52 158 | 1.5 1.5 1.5 1.5 1.5 | ANNUAL ANNUAL ANNUAL ANNUAL | ALL ALL ALL ALL | 1 1 1 1 | | Cerra Vista Elem School San Andreas Continuation SouthSide School School 12 | CR_SC_10 CR_SC_11 CR_SC_11 CR_SC_12 |
| 642904.712 40799 645850.678 40740 642105.679 40781 646058.93 40784 647269 40755 648466 40741 644109.6 40783 | 55 0.01862 15 0.01758 76 0.01166 43 0.05172 75 0.04293 06 0.04555 | 86 123 91 128.52 158 159 | 86 313 91 128.52 158 | 1.5 1.5 1.5 1.5 1.5 | ANNUAL ANNUAL ANNUAL ANNUAL | ALL ALL ALL ALL | 1 1 1 | | San Andreas Continuation SouthSide School School 12 | CR_SC_10 CR_SC_11 CR_SC_12 |
| 645850.678 40740 642105.679 40781 646058.93 40784 647269 40755 648466 40741 644109.6 40783 | 15 0.01758 76 0.01166 43 0.05172 75 0.04293 06 0.04555 | 123 91 128.52 158 159 | 313 91 128.52 158 | 1.5 1.5 1.5 1.5 | ANNUAL ANNUAL ANNUAL | ALL ALL ALL | 1 1 | | SouthSide School School 12 | CR_SC_11 CR_SC_12 |
| 642105.679 40781 646058.93 40784 647269 40755 648466 40741 644109.6 40783 | 76 0.01166 43 0.05172 75 0.04293 06 0.04555 | 91 128.52 158 159 | 91 128.52 158 | 1.5 1.5 1.5 | ANNUAL ANNUAL | ALL ALL | 1 | | School 12 | CR_SC_12 |
| 646058.93 40784 647269 40755 648466 40741 644109.6 40783 | 43 0.05172 75 0.04293 06 0.04555 | 128.52 158 159 | 128.52 158 | 1.5 1.5 | ANNUAL | ALL | | | | |
| 647269 40755 648466 40741 644109.6 40783 | 75 0.04293 06 0.04555 | 158 159 | 158 | 1.5 | | | 1 | | | CR SC 12 |
| 648466 40741 644109.6 40783 | 0.04555 | 159 | | | ANNUAL | | | | Rancho Santana School | CK 3C 13 |
| 648466 40741 644109.6 40783 | | | 240 | 1.5 | | ALL | 1 | | Future School | CR SC 14 |
| 644109.6 40783 | | 00.2 | | 1.3 | ANNUAL | ALL | 1 | | Tres Pinos Union Elementary School | CR SC 15 |
| | | 98.2 | 98.2 | 1.5 | ANNUAL | ALL | 1 | | Sunnyslope Elem School | CR SC 2 |
| 643920.12 40773 | 0.0174 | 101.23 | 101.23 | 1.5 | ANNUAL | ALL | 1 | | Hollister Montessori School | CR SC 3 |
| 642961.07 40786 | 21 0.01634 | 92 | 92 | 1.5 | ANNUAL | ALL | 1 | | Rancho San Justo Middle School | CR SC 4 |
| 643980.02 40797 | | 88 | 88 | 1.5 | ANNUAL | ALL | 1 | | Marguerite Maze Middle School | CR SC 5 |
| 641630.17 40791 | 53 0.01285 | 85 | 85 | 1.5 | ANNUAL | ALL | 1 | | Hollister Prep Schoo | CR SC 6 |
| 643350.03 40771 | | 98.22 | 98.22 | 1.5 | ANNUAL | ALL | 1 | | Ladd Lane Elementary School | CR SC 7 |
| 644002.96 40800 | | 87 | 87 | 1.5 | ANNUAL | ALL | 1 | | Gabilan Hills Elementary School | CR SC 8 |
| 642244.858 40784 | | 90.17 | 90.17 | 1.5 | ANNUAL | ALL | 1 | | San Benito High School | CR SC 9 |
| 642083.447 40797 | | 87.58 | 127 | 1.5 | ANNUAL | ALL | 1 | | Jovenes De Antano | CR SR 1 |
| 646402 40768 | | 146.33 | 153 | 1.5 | ANNUAL | ALL | 1 | | Workplace | CR WP 1 |
| 648949 40779 | | 189.45 | 259 | 1.5 | ANNUAL | ALL | 1 | | Nearest Workplace | CR WP 2 |
| 647744 40791 | | 155.2 | 155.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 1 | Gl |
| 647744 40755 | | 160 | 160 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 10 | G10 |
| 651344 40755 | | 252.9 | 252.9 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 100 | G100 |
| 648144 40791 | | 165.9 | 165.9 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 11 | G11 |
| 648144 40787 | | 159.6 | 159.6 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 12 | G12 |
| 648144 40783 | | 146.2 | 146.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 13 | G13 |
| 648144 40779 | | 158.3 | 181 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 14 | G14 |
| 648144 40775 | | 166.6 | 179 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 15 | G15 |
| 648144 40771 | | 175.4 | 175.4 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 16 | G16 |
| 648144 40767 | | 177.1 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 17 | G17 |
| 648144 40763 | | 178 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 18 | G17 |
| 648144 40759 | | 173 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 19 | G19 |
| 647744 40787 | | 145.4 | 145.4 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 2 | G2 |

08/31/21

* AERMET (21112): 2020

15:54:04

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

| | | ,3(1X,F13.5),3(1X,F8. | | | | | | | | | |
|--------|---------|-----------------------|-------|-------|-------|--------|-----|---------|--------|------------------|-----|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
| 648144 | | 0.07113 | 168.8 | 190 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 20 | G20 |
| 648544 | | 0.15242 | 173.5 | 191 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 21 | G21 |
| 648544 | | 0.21411 | 166.2 | 166.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 22 | G22 |
| 648544 | | 0.29743 | 145.4 | 253 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 23 | G23 |
| 648544 | | 0.34314 | 173.9 | 214 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 24 | G24 |
| 648544 | | 0.3785 | 179.6 | 227 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 25 | G25 |
| 648544 | | 0.66833 | 191 | 226 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.28729 | 209.2 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.16972 | 233.7 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 28 | G28 |
| 648544 | | 0.13128 | 199.9 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.1724 | 144.4 | 144.4 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.10157 | 195.5 | 227 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.13057 | 190.4 | 194 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.19272 | 165.4 | 165.4 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.31339 | 159.6 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.49782 | 183.5 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.60835 | 224 | 226 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.38077 | 205 | 240 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.22082 | 208.8 | 220 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.17403 | 134.6 | 181 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.13626 | 185.6 | 300 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.10301 | 187.4 | 801 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.148 | 160.9 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.25669 | 200.5 | 221 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 43 | G43 |
| 649344 | 4077973 | 0.61415 | 229 | 253 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.95147 | 253.3 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.93767 | 220.2 | 263 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.36742 | 227.2 | 227.2 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.14738 | 163.8 | 171 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.21394 | 205.5 | 300 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.07395 | 176.1 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.10778 | 195 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 52 | G52 |
| 649744 | | 0.16839 | 196.1 | 227 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 53 | G53 |
| 649744 | | 0.33509 | 215.3 | 251 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 54 | G54 |
| 649744 | | 0.99669 | 221.6 | 259 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 55 | G55 |
| 649744 | | 1.67959 | 211.7 | 266 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 58 | G58 |
| 649744 | | 0.59132 | 237.7 | 257 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.11549 | 158.4 | 171 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 6 | G6 |
| 649744 | | 0.30873 | 204.2 | 300 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 60 | G60 |
| 650144 | | 0.05995 | 173 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 61 | G61 |
| | | - | | | | | | - | | -L 4- | |

08/31/21

* AERMET (21112): 2020

15:54:04

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

| X | Υ | ,3(1X,F13.5),3(1X,F8.2 AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|---------|--|--------|-------|-------|--------|-----|---------|--------|-----------------------|-----|
| 650144 | 4078773 | 0.07764 | 171 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.11227 | 204.6 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.18484 | 216.5 | 290 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.18872 | 257.7 | 257.7 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 1.87042 | 231.4 | 272 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.71574 | 249.4 | 266 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.08917 | 164.7 | 164.7 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.43298 | 216.4 | 300 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.04298 | 177 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.0527 | 180.9 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.07659 | 196.6 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.13004 | 236.9 | 801 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.09682 | 261.3 | 287 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.88966 | 260.9 | 260.9 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.79923 | 226.7 | 287 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.07273 | 164 | 164 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 0.29495 | 268.2 | 287 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.03621 | 181.3 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.04484 | 178.4 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.0691 | 214.8 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.07487 | 249.9 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.03555 | 276.5 | 296 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.26744 | 225.6 | 296 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.4971 | 219.8 | 267 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.57605 | 209.2 | 273 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.53852 | 216.6 | 287 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.06727 | 160.7 | 160.7 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.43612 | 243.2 | 289 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.03356 | 191 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.04098 | 181 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.05007 | 214.3 | 830 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.05281 | 248.4 | 826 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.09231 | 213.2 | 826 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.17574 | 213.6 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.25041 | 203.5 | 813 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.31069 | 205.6 | 220 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.32291 | 205.8 | 269 | 1.5 | ANNUAL | ALL | 1 | | Grid Receptor 99 | G99 |
| 649484.05 | 4077537 | 1.15642 | 254.01 | 257 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 10 | P10 |
| 649584.03 | 4077539 | 1.80455 | 235.3 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 11 | P11 |
| 649684.02 | 4077540 | 1.29179 | 221.29 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 12 | P12 |

08/31/21

* AERMET (21112): 2020

15:54:04

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| * FORM | 1AT: (A,1X | ,3(1X,F13.5),3(1X,F8.2 | 2),2X,A6,2X | ,A8,2X,I8.8 | ,2X,A8) | | | | | | | |
|-----------|------------|------------------------|-------------|-------------|---------|--------|-----|---------|--------|-----------------------|-----|---|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
| 649784 | 4077541 | 1.00842 | 222.37 | 260 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 13 | P13 | |
| 649883.99 | 4077542 | 0.86552 | 233.6 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 14 | P14 |] |
| 649983.97 | 4077543 | 0.50118 | 249.54 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 15 | P15 | |
| 650083.94 | 4077546 | 0.2184 | 258.89 | 258.89 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 16 | P16 |] |
| 650183.91 | 4077548 | 0.16503 | 259.56 | 259.56 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 17 | P17 | |
| 650283.87 | 4077550 | 0.17365 | 256.77 | 266 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 18 | P18 |] |
| 650383.84 | 4077552 | 0.27258 | 242.37 | 290 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 19 | P19 | |
| 650483.81 | 4077554 | 0.2295 | 242.23 | 296 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 20 | P20 | |
| 650583.78 | 4077557 | 0.10312 | 259.71 | 290 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 21 | P21 | |
| 650683.75 | 4077559 | 0.10227 | 257.58 | 296 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 22 | P22 |] |
| 650776.81 | 4077554 | 0.05661 | 267.9 | 296 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 23 | P23 | |
| 650778.91 | 4077454 | 0.05071 | 275.91 | 275.91 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 24 | P24 | |
| 650781 | 4077354 | 0.09692 | 265.73 | 281 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 25 | P25 | |
| 650783.1 | 4077254 | 0.22264 | 251.08 | 282 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 26 | P26 | |
| 650785.19 | 4077154 | 0.26881 | 252.83 | 281 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 27 | P27 | |
| 650787.29 | 4077054 | 0.39601 | 246.1 | 269 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 28 | P28 | |
| 650789.38 | 4076954 | 0.52768 | 241.37 | 269 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 29 | P29 | |
| 650791.48 | 4076854 | 0.5755 | 246.79 | 251 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 30 | P30 | |
| 650793.57 | 4076754 | 0.75024 | 228.75 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 31 | P31 | 4 |
| 650754.39 | 4076683 | 0.81467 | 217.76 | 271 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 32 | P32 | |
| 650660.22 | 4076650 | 1.12941 | 221.2 | 273 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 33 | P33 | 4 |
| 650561.43 | 4076650 | 1.63823 | 220.83 | 273 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 34 | P34 | |
| 650462.72 | 4076666 | 2.78942 | 223.42 | 273 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 35 | P35 | 4 |
| 650364.01 | 4076682 | 4.33679 | 222.46 | 263 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 36 | P36 | |
| 650264.24 | 4076683 | 4.68082 | 223.19 | 263 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 37 | P37 | P |
| 650164.71 | 4076674 | 4.5266 | 222.1 | 249 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 38 | P38 | |
| 650065.8 | 4076660 | 4.1352 | 217.03 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 39 | P39 | 4 |
| 649980.44 | 4076627 | 4.04345 | 214.82 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 40 | P40 | |
| 649920.26 | 4076547 | 3.28384 | 214.91 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 41 | P41 | 4 |
| 649852.19 | 4076474 | 2.61558 | 214.09 | 266 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 42 | P42 | |
| 649770.68 | 4076417 | 1.99619 | 211.53 | 266 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 43 | P43 | 4 |
| 649680.48 | 4076375 | 1.81045 | 210.17 | 266 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 44 | P44 | |
| 649580.91 | 4076368 | 1.6538 | 208.52 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 45 | P45 | 4 |
| 649482.48 | 4076384 | 1.413 | 207.5 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 46 | P46 | |
| 649391.59 | 4076425 | 1.48934 | 205.17 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 47 | P47 | |
| 649303.5 | 4076472 | 1.52459 | 202.16 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 48 | P48 | |
| 649226.19 | 4076535 | 1.46041 | 196.38 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 49 | P49 | 4 |
| 649156.2 | 4076605 | 1.60381 | 195.87 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 50 | P50 | |
| 649068.25 | 4076653 | 1.38737 | 196.32 | 264 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 51 | P51 | 4 |
| 648986.7 | 4076711 | 1.24667 | 192.42 | 263 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 52 | P52 | |
| | | | | | | | | | | | | |

PMI

08/31/21

* AERMET (21112): 2020

15:54:04

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

| X | Y | ,3(1X,F13.5),3(1X,F8.2 AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|---------|--|--------|--------|-------|--------|-----|---------|--------|-----------------------|-------|
| 648936.53 | 4076759 | 1.24702 | 192.46 | 250 | 1.5 | ANNUAL | ALL | 1 | NETID | Boundary Perimeter 53 | P53 |
| 648868.58 | 4076833 | 1.29111 | 191.63 | 250 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 54 | P54 |
| 648797.23 | 4076902 | 1.3605 | 186.32 | 250 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 55 | P55 |
| 648710.56 | 4076952 | 1.14762 | 179.81 | 250 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 56 | P56 |
| 648620.79 | 4076996 | 0.69545 | 176.23 | 250 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 57 | P57 |
| 648607.19 | 4077051 | 0.88007 | 175.02 | 250 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 58 | P58 |
| 648680.07 | 4077119 | 1.14317 | 180.62 | 250 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 59 | P59 |
| 649084.12 | 4077532 | 0.71741 | 216.54 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 6 | P6 |
| 648759.24 | 4077180 | 0.69545 | 183.47 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 60 | P60 |
| 648791.44 | 4077262 | 0.57344 | 202.88 | 245 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 61 | P61 |
| 648788.45 | 4077362 | 0.48379 | 178.21 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 62 | P62 |
| 648691.25 | 4077361 | 0.47985 | 176.25 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 63 | P63 |
| 648591.35 | 4077357 | 0.48567 | 176 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 64 | P64 |
| 648525.69 | 4077371 | 0.46581 | 175.24 | 245 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 65 | P65 |
| 648586.93 | 4077430 | 0.43251 | 175.13 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 66 | P66 |
| 649184.09 | 4077534 | 0.94369 | 230.71 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 7 | P7 |
| 649284.08 | 4077535 | 1.01334 | 248.08 | 259 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 8 | P8 |
| 649384.06 | 4077536 | 0.86015 | 258.43 | 258.43 | 1.5 | ANNUAL | ALL | 1 | | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.04341 | 127.38 | 127.38 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646030 | 4077983 | 0.04572 | 131.21 | 131.21 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646130 | 4077983 | 0.04825 | 135.89 | 135.89 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646230 | 4077983 | 0.051 | 139.18 | 139.18 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646330 | 4077983 | 0.05401 | 140.76 | 140.76 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646430 | 4077983 | 0.05739 | 143.89 | 143.89 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 |
| 646530 | 4077983 | 0.06111 | 145.22 | 145.22 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646630 | 4077983 | 0.06529 | 147.21 | 147.21 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646730 | 4077983 | 0.06991 | 148.3 | 160 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 645930 | 4078083 | 0.04441 | 127.58 | 127.58 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646030 | 4078083 | 0.04679 | 130.56 | 130.56 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646130 | 4078083 | 0.04943 | 134.35 | 134.35 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646230 | 4078083 | 0.05238 | 139.22 | 139.22 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646330 | 4078083 | 0.0557 | 144.65 | 144.65 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646430 | 4078083 | 0.05916 | 142.28 | 142.28 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646530 | 4078083 | 0.06319 | 146.76 | 146.76 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646630 | 4078083 | 0.06763 | 150.64 | 150.64 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646730 | 4078083 | 0.07261 | 155.4 | 157 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 645930 | 4078183 | 0.04547 | 127.22 | 127.22 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646030 | 4078183 | 0.04801 | 130.56 | 130.56 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646130 | 4078183 | 0.05082 | 133.89 | 133.89 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |
| 646230 | 4078183 | 0.05398 | 140.45 | 140.45 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 |

08/31/21

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* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| POKI | AAI.(A,IA) | ,3(11,113.3),3(11,116. | 2),2A,A0,2A | ,,A0,2A,10.0 | ,2A,A0) | | | | | | | |
|-----------|------------|------------------------|-------------|--------------|---------|--------|-----|---------|--------|-----------------|--------|----|
| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID | |
| 646330 | 4078183 | 0.05749 | 146.94 | 146.94 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646430 | 4078183 | 0.0609 | 140.23 | 140.23 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646530 | 4078183 | 0.06504 | 147.25 | 147.25 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646630 | 4078183 | 0.06954 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646730 | 4078183 | 0.07475 | 157.78 | 166 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 645930 | 4078283 | 0.04664 | 126.06 | 126.06 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646030 | 4078283 | 0.0493 | 129.56 | 129.56 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646130 | 4078283 | 0.05219 | 132.89 | 132.89 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP_G1 | |
| 646230 | 4078283 | 0.05537 | 139.24 | 139.24 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646330 | 4078283 | 0.05876 | 142.68 | 142.68 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646430 | 4078283 | 0.06227 | 140.02 | 140.02 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646530 | 4078283 | 0.06647 | 147.22 | 147.22 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646630 | 4078283 | 0.07118 | 151.56 | 151.56 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 646730 | 4078283 | 0.07672 | 156.78 | 166 | 1.5 | ANNUAL | ALL | 1 | | New Development | RP G1 | |
| 648659.32 | 4077241 | 0.65992 | 205.79 | 205.79 | 1.5 | ANNUAL | ALL | 1 | | House 1 | RP H1 | ME |
| 648071.24 | 4076116 | 0.09225 | 169.6 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 10 | RP H10 | |
| 648247.37 | 4076278 | 0.11999 | 184.55 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 11 | RP H11 | |
| 648027.19 | 4076255 | 0.09356 | 169.38 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 12 | RP H12 | |
| 648065.77 | 4076359 | 0.09895 | 173.83 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 13 | RP H13 | |
| 648138.68 | 4076400 | 0.10811 | 178.22 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 14 | RP_H14 | |
| 648254.71 | 4076411 | 0.12644 | 191.28 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 15 | RP H15 | |
| 647877.81 | 4076365 | 0.08187 | 165.39 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 16 | RP H16 | |
| 647520 | 4076206 | 0.06001 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | | House 17 | RP H17 | |
| 647921 | 4076247 | 0.08474 | 164 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 18 | RP H18 | |
| 647708.78 | 4076352 | 0.0702 | 163.52 | 163.52 | 1.5 | ANNUAL | ALL | 1 | | House 19 | RP_H19 | |
| 648371.71 | 4075470 | 0.08055 | 173.69 | 227 | 1.5 | ANNUAL | ALL | 1 | | House 2 | RP_H2 | |
| 647703.58 | 4076251 | 0.06983 | 162.17 | 162.17 | 1.5 | ANNUAL | ALL | 1 | | House 20 | RP H20 | |
| 647718.77 | 4076104 | 0.07035 | 159.35 | 159.35 | 1.5 | ANNUAL | ALL | 1 | | House 21 | RP H21 | |
| 647843.32 | 4076125 | 0.07729 | 163 | 234 | 1.5 | ANNUAL | ALL | 1 | | House 22 | RP_H22 | |
| 647842.26 | 4076500 | 0.08569 | 167.93 | 167.93 | 1.5 | ANNUAL | ALL | 1 | | House 23 | RP_H23 | |
| 647727.75 | 4076644 | 0.08699 | 164.15 | 164.15 | 1.5 | ANNUAL | ALL | 1 | | House 24 | RP_H24 | |
| 647823.91 | 4076644 | 0.09504 | 168.29 | 168.29 | 1.5 | ANNUAL | ALL | 1 | | House 25 | RP_H25 | |
| 647530 | 4076497 | 0.06815 | 159.56 | 159.56 | 1.5 | ANNUAL | ALL | 1 | | House 26 | RP H26 | |
| 647810.11 | 4076854 | 0.09839 | 162.9 | 162.9 | 1.5 | ANNUAL | ALL | 1 | | House 27 | RP H27 | |
| 647697.48 | 4076989 | 0.10023 | 161.42 | 162 | 1.5 | ANNUAL | ALL | 1 | | House 28 | RP_H28 | |
| 648225.5 | 4076182 | 0.11161 | 183.22 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 29 | RP_H29 | |
| 647678.23 | 4075969 | 0.06453 | 159.5 | 159.5 | 1.5 | ANNUAL | ALL | 1 | | House 3 | RP_H3 | |
| 645876.32 | 4077487 | 0.03623 | 127.13 | 142 | 1.5 | ANNUAL | ALL | 1 | | House 30 | RP_H30 | |
| 650902 | 4076062 | 0.58739 | 215.24 | 287 | 1.5 | ANNUAL | ALL | 1 | | House 31 | RP_H31 | |
| 651490 | 4076597 | 0.23817 | 205.5 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 32 | RP_H32 | |
| * | | | | | | | | | | | - ' | |

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08/31/21

* AERMET (21112): 2020

15:54:04

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 284 RECEPTORS.

| X | Y | AVERAGE CONC | | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|---------|--------------|--------|--------|-------|--------|-----|---------|--------|-------------|--------|
| 651565 | 4077067 | 0.16903 | 213.93 | 813 | 1.5 | ANNUAL | ALL | 1 | NET IV | House 33 | RP H33 |
| 648672.77 | 4075307 | 0.09966 | 225.91 | 227 | 1.5 | ANNUAL | ALL | 1 | | House 34 | RP H34 |
| 648383.6 | 4075469 | 0.08113 | 174.44 | 227 | 1.5 | ANNUAL | ALL | 1 | | House 35 | RP H35 |
| 646379.37 | 4077233 | 0.04395 | 146 | 146 | 1.5 | ANNUAL | ALL | 1 | | House 36 | RP H36 |
| 651849.72 | 4075865 | 0.19558 | 201.97 | 333 | 1.5 | ANNUAL | ALL | 1 | | House 37 | RP H37 |
| 652045.49 | 4076210 | 0.15184 | 196.88 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 38 | RP H38 |
| 652255.69 | 4076391 | 0.12396 | 197.06 | 813 | 1.5 | ANNUAL | ALL | 1 | | House 39 | RP H39 |
| 647815.25 | 4075985 | 0.07089 | 162.04 | 162.04 | 1.5 | ANNUAL | ALL | 1 | | House 4 | RP H4 |
| 646853.73 | 4077373 | 0.06005 | 145.99 | 145.99 | 1.5 | ANNUAL | ALL | 1 | | House 40 | RP H40 |
| 647050.21 | 4077360 | 0.06837 | 145 | 145 | 1.5 | ANNUAL | ALL | 1 | | House 41 | RP H41 |
| 647286.42 | 4077474 | 0.08886 | 149.68 | 153 | 1.5 | ANNUAL | ALL | 1 | | House 42 | RP_H42 |
| 647359.05 | 4077340 | 0.08677 | 154.45 | 159 | 1.5 | ANNUAL | ALL | 1 | | House 43 | RP_H43 |
| 647490.41 | 4077329 | 0.09757 | 162.28 | 162.28 | 1.5 | ANNUAL | ALL | 1 | | House 44 | RP_H44 |
| 647522.17 | 4077252 | 0.0961 | 164.3 | 164.3 | 1.5 | ANNUAL | ALL | 1 | | House 45 | RP_H45 |
| 647517.82 | 4077139 | 0.09263 | 164.01 | 164.01 | 1.5 | ANNUAL | ALL | 1 | | House 46 | RP_H46 |
| 646819.01 | 4077258 | 0.05678 | 151.53 | 152 | 1.5 | ANNUAL | ALL | 1 | | House 47 | RP_H47 |
| 646778.72 | 4077128 | 0.05409 | 158.51 | 158.51 | 1.5 | ANNUAL | ALL | 1 | | House 48 | RP_H48 |
| 646987.26 | 4077213 | 0.0625 | 146.44 | 146.44 | 1.5 | ANNUAL | ALL | 1 | | House 49 | RP_H49 |
| 647898.2 | 4076033 | 0.07695 | 163.83 | 237 | 1.5 | ANNUAL | ALL | 1 | | House 5 | RP_H5 |
| 647241.77 | 4077227 | 0.07515 | 154.85 | 154.85 | 1.5 | ANNUAL | ALL | 1 | | House 50 | RP_H50 |
| 646773.05 | 4077063 | 0.0528 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | | House 51 | RP_H51 |
| 647104.37 | 4077118 | 0.06636 | 148.99 | 148.99 | 1.5 | ANNUAL | ALL | 1 | | House 52 | RP_H52 |
| 647291.9 | 4077123 | 0.07651 | 158.62 | 158.62 | 1.5 | ANNUAL | ALL | 1 | | House 53 | RP_H53 |
| 646765.24 | 4076978 | 0.05043 | 158.67 | 158.67 | 1.5 | ANNUAL | ALL | 1 | | House 54 | RP_H54 |
| 646995.65 | 4076984 | 0.05802 | 152.34 | 152.34 | 1.5 | ANNUAL | ALL | 1 | | House 55 | RP_H55 |
| 647317.21 | 4077031 | 0.07505 | 160.22 | 160.22 | 1.5 | ANNUAL | ALL | 1 | | House 56 | RP_H56 |
| 647398.39 | 4077013 | 0.07905 | 161.26 | 161.26 | 1.5 | ANNUAL | ALL | 1 | | House 57 | RP_H57 |
| 646978.93 | 4076904 | 0.05444 | 156.81 | 156.81 | 1.5 | ANNUAL | ALL | 1 | | House 58 | RP_H58 |
| 647015.19 | 4076807 | 0.05213 | 156.21 | 156.21 | 1.5 | ANNUAL | ALL | 1 | | House 59 | RP_H59 |
| 648045.44 | 4076018 | 0.08552 | 168.26 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 6 | RP_H6 |
| 647163.96 | 4076802 | 0.05692 | 154.38 | 154.38 | 1.5 | ANNUAL | ALL | 1 | | House 60 | RP_H60 |
| 647310.58 | 4076940 | 0.07001 | 162.49 | 162.49 | 1.5 | ANNUAL | ALL | 1 | | House 61 | RP_H61 |
| 647298.09 | 4076805 | 0.0624 | 158 | 158 | 1.5 | ANNUAL | ALL | 1 | | House 62 | RP_H62 |
| 647446.56 | 4076900 | 0.07463 | 159.45 | 159.45 | 1.5 | ANNUAL | ALL | l | | House 63 | RP_H63 |
| 647464.49 | 4076781 | 0.06967 | 159.32 | 159.32 | 1.5 | ANNUAL | ALL | 1 | | House 64 | RP_H64 |
| 647512 | 4076536 | 0.06936 | 159 | 159 | 1.5 | ANNUAL | ALL | l | | House 65 | RP_H65 |
| 651131 | 4078767 | 0.04383 | 179.58 | 830 | 1.5 | ANNUAL | ALL | 1 | | House 66 | RP_H66 |
| 647131 | 4077336 | 0.07177 | 146.77 | 146.77 | 1.5 | ANNUAL | ALL | 1 | | House 67 | RP_H67 |
| 646798 | 4076740 | 0.04473 | 156.07 | 156.07 | 1.5 | ANNUAL | ALL | 1 | | House 68 | RP_H68 |
| 646900 | 4076802 | 0.04872 | 159 | 159 | 1.5 | ANNUAL | ALL | 1 | | House 69 | RP_H69 |

08/31/21

* AERMET (21112): 2020

15:54:04

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 284 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID | Description | ID |
|-----------|---------|--------------|--------|-------|-------|--------|-----|---------|--------|-------------|--------|
| 648126.33 | 4075955 | 0.08778 | 171.51 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 7 | RP_H7 |
| 647317 | 4076662 | 0.06146 | 159.9 | 159.9 | 1.5 | ANNUAL | ALL | 1 | | House 70 | RP_H70 |
| 648249.26 | 4075970 | 0.09879 | 183.42 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 8 | RP_H8 |
| 648218.58 | 4076109 | 0.10587 | 182.28 | 240 | 1.5 | ANNUAL | ALL | 1 | | House 9 | RP_H9 |

Data obtained from AERMOD, and formatted for data entry.

Concentration values shown are in µg/m³.

10/01/21

* AERMET (21112): Closure Area TAC Gnd 2018

11:09:36

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 299 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | ID | Description | |
|----------|---------|--------------|--------|-------|--------|-----|----------|------------------------------------|----------|
| 645996 | 4078698 | 324,650.35 | 123.85 | 0 | ANNUAL | ALL | AQ_ST_1 | AQ Monitoring Station | |
| 643903.7 | 4077719 | 123,422.24 | 105.68 | 0 | ANNUAL | ALL | CR_HP_1 | Hazel Hawkins Memorial Hospital | |
| 642056.8 | 4079416 | 110,504.13 | 85.12 | 0 | ANNUAL | ALL | CR_PK_1 | Dunne Park | |
| 642179.1 | 4079950 | 118,045.33 | 117.99 | 0 | ANNUAL | ALL | CR_PK_2 | Vista Park Hill Park | |
| 644733.1 | 4078753 | 220,277.38 | 106.44 | 0 | ANNUAL | ALL | CR_PK_3 | Las Brisas Park | |
| 645608.8 | 4078854 | 279,358.32 | 112.86 | 0 | ANNUAL | ALL | CR_PK_4 | Frank Klauer Memorial Park | |
| 644238.1 | 4078807 | 190,612.86 | 95.25 | 0 | ANNUAL | ALL | CR_PK_5 | Veterans Memorial Park | |
| 645311.5 | 4076559 | 169,875.06 | 134.61 | 0 | ANNUAL | ALL | CR_PK_6 | Park 6 | |
| 649581.7 | 4073424 | 214,443.21 | 159.96 | 0 | ANNUAL | ALL | CR_PK_7 | Park 7 | |
| 645145.1 | 4077181 | 178,352.08 | 133 | 0 | ANNUAL | ALL | CR_SC_1 | Cerra Vista Elem School | |
| 642904.7 | 4079955 | 130,108.92 | 86 | 0 | ANNUAL | ALL | CR_SC_10 | San Andreas Continuation | |
| 645850.7 | 4074015 | 71,810.83 | 123 | 0 | ANNUAL | ALL | CR_SC_11 | SouthSide School | |
| 642105.7 | 4078176 | 80,084.61 | 91 | 0 | ANNUAL | ALL | CR_SC_12 | School 12 | |
| 646058.9 | 4078443 | 350,638.67 | 128.52 | 0 | ANNUAL | ALL | CR_SC_13 | Rancho Santana School | School 1 |
| 647269 | 4075575 | 198,589.20 | 158 | 0 | ANNUAL | ALL | CR_SC_14 | Future School | School 2 |
| 648466 | 4074106 | 145,704.08 | 159 | 0 | ANNUAL | ALL | CR_SC_15 | Tres Pinos Union Elementary School | |
| 644109.6 | 4078389 | 184,278.78 | 98.2 | 0 | ANNUAL | ALL | CR_SC_2 | Sunnyslope Elem School | |
| 643920.1 | 4077304 | 125,334.62 | 101.23 | 0 | ANNUAL | ALL | CR_SC_3 | Hollister Montessori School | |
| 642961.1 | 4078621 | 138,594.16 | 92 | 0 | ANNUAL | ALL | CR_SC_4 | Rancho San Justo Middle School | |
| 643980 | 4079743 | 160,649.44 | 88 | 0 | ANNUAL | ALL | CR_SC_5 | Marguerite Maze Middle School | |
| 641630.2 | 4079153 | 107,747.12 | 85 | 0 | ANNUAL | ALL | CR_SC_6 | Hollister Prep Schoo | |
| 643350 | 4077181 | 106,865.28 | 98.22 | 0 | ANNUAL | ALL | CR_SC_7 | Ladd Lane Elementary School | |
| 644003 | 4080079 | 147,770.98 | 87 | 0 | ANNUAL | ALL | CR_SC_8 | Gabilan Hills Elementary School | |
| 642244.9 | 4078413 | 98,876.48 | 90.17 | 0 | ANNUAL | ALL | CR_SC_9 | San Benito High School | |
| 642083.4 | 4079794 | 112,693.48 | 87.58 | 0 | ANNUAL | ALL | CR_SR_1 | Jovenes De Antano | |
| 646402 | 4076879 | 286,676.67 | 146.33 | 0 | ANNUAL | ALL | CR_WP_1 | Workplace | |
| 648949 | 4077938 | 2,029,203.56 | 189.45 | 0 | ANNUAL | ALL | CR_WP_2 | Nearest Workplace | MEIW |
| 647744 | 4079173 | 581,323.74 | 155.2 | 0 | ANNUAL | ALL | G1 | Grid Receptor 1 | |
| 647744 | 4075573 | 237,263.78 | 160 | 0 | ANNUAL | ALL | G10 | Grid Receptor 10 | |
| 651344 | 4075573 | 1,020,850.50 | 252.9 | 0 | ANNUAL | ALL | G100 | Grid Receptor 100 | |
| 648144 | 4079173 | 628,181.20 | 165.9 | 0 | ANNUAL | ALL | G11 | Grid Receptor 11 | |
| 648144 | 4078773 | 789,669.48 | 159.6 | 0 | ANNUAL | ALL | G12 | Grid Receptor 12 | |

* AERMOD (19191): Appendix B Attachment

10/01/21

* AERMET (21112): Closure Area TAC Gnd 2018

11:09:36

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 299 RECEPTORS.

| | | A,5(1A,115.5),5(1A,18.2 | | | | | | |
|--------|---------|-------------------------|-------|-------|--------|-----|-----|------------------|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | ID | Description |
| 648144 | 4078373 | 968,216.04 | 146.2 | 0 | ANNUAL | ALL | G13 | Grid Receptor 13 |
| 648144 | 4077973 | 1,165,163.12 | 158.3 | 0 | ANNUAL | ALL | G14 | Grid Receptor 14 |
| 648144 | 4077573 | 1,297,938.89 | 166.6 | 0 | ANNUAL | ALL | G15 | Grid Receptor 15 |
| 648144 | 4077173 | 1,168,896.33 | 175.4 | 0 | ANNUAL | ALL | G16 | Grid Receptor 16 |
| 648144 | 4076773 | 814,279.61 | 177.1 | 0 | ANNUAL | ALL | G17 | Grid Receptor 17 |
| 648144 | 4076373 | 519,470.04 | 178 | 0 | ANNUAL | ALL | G18 | Grid Receptor 18 |
| 648144 | 4075973 | 361,873.66 | 173 | 0 | ANNUAL | ALL | G19 | Grid Receptor 19 |
| 647744 | 4078773 | 666,701.41 | 145.4 | 0 | ANNUAL | ALL | G2 | Grid Receptor 2 |
| 648144 | 4075573 | 263,899.43 | 168.8 | 0 | ANNUAL | ALL | G20 | Grid Receptor 20 |
| 648544 | 4079173 | 612,394.55 | 173.5 | 0 | ANNUAL | ALL | G21 | Grid Receptor 21 |
| 648544 | 4078773 | 833,899.34 | 166.2 | 0 | ANNUAL | ALL | G22 | Grid Receptor 22 |
| 648544 | 4078373 | 1,140,939.13 | 145.4 | 0 | ANNUAL | ALL | G23 | Grid Receptor 23 |
| 648544 | 4077973 | 1,614,766.29 | 173.9 | 0 | ANNUAL | ALL | G24 | Grid Receptor 24 |
| 648544 | 4077573 | 2,033,284.95 | 179.6 | 0 | ANNUAL | ALL | G25 | Grid Receptor 25 |
| 648544 | 4077173 | 1,996,290.12 | 191 | 0 | ANNUAL | ALL | G26 | Grid Receptor 26 |
| 648544 | 4076773 | 1,536,734.78 | 209.2 | 0 | ANNUAL | ALL | G27 | Grid Receptor 27 |
| 648544 | 4076373 | 840,280.03 | 233.7 | 0 | ANNUAL | ALL | G28 | Grid Receptor 28 |
| 648544 | 4075973 | 507,060.58 | 199.9 | 0 | ANNUAL | ALL | G29 | Grid Receptor 29 |
| 647744 | 4078373 | 756,956.44 | 144.4 | 0 | ANNUAL | ALL | G3 | Grid Receptor 3 |
| 648544 | 4075573 | 334,170.88 | 195.5 | 0 | ANNUAL | ALL | G30 | Grid Receptor 30 |
| 648944 | 4079173 | 561,815.31 | 190.4 | 0 | ANNUAL | ALL | G31 | Grid Receptor 31 |
| 648944 | 4078773 | 790,796.14 | 165.4 | 0 | ANNUAL | ALL | G32 | Grid Receptor 32 |
| 648944 | 4078373 | 1,197,735.35 | 159.6 | 0 | ANNUAL | ALL | G33 | Grid Receptor 33 |
| 648944 | 4077973 | 1,910,059.33 | 183.5 | 0 | ANNUAL | ALL | G34 | Grid Receptor 34 |
| 648944 | 4076773 | 2,787,042.77 | 193 | 0 | ANNUAL | ALL | G37 | Grid Receptor 37 |
| 648944 | 4076373 | 1,172,101.27 | 205 | 0 | ANNUAL | ALL | G38 | Grid Receptor 38 |
| 648944 | 4075973 | 724,821.38 | 208.8 | 0 | ANNUAL | ALL | G39 | Grid Receptor 39 |
| 647744 | 4077973 | 867,512.66 | 134.6 | 0 | ANNUAL | ALL | G4 | Grid Receptor 4 |
| 648944 | 4075573 | 428,633.48 | 185.6 | 0 | ANNUAL | ALL | G40 | Grid Receptor 40 |
| 649344 | 4079173 | 438,637.65 | 187.4 | 0 | ANNUAL | ALL | G41 | Grid Receptor 41 |
| 649344 | 4078773 | 648,931.36 | 160.9 | 0 | ANNUAL | ALL | G42 | Grid Receptor 42 |
| 649344 | 4078373 | 1,269,402.92 | 200.5 | 0 | ANNUAL | ALL | G43 | Grid Receptor 43 |
| | | | | | | | | |

10/01/21

* AERMET (21112): Closure Area TAC Gnd 2018

11:09:36

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 299 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A

| | | ,-(,),-(, | - / , , , , | ,,- | | | | | |
|--------|---------|---------------|-------------|-------|--------|-----|-----|------------------|---|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | ID | Description | |
| 649344 | 4077973 | 2,608,451.19 | 229 | 0 | ANNUAL | ALL | G44 | Grid Receptor 44 | |
| 649344 | 4075973 | 1,401,055.20 | 227.2 | 0 | ANNUAL | ALL | G49 | Grid Receptor 49 | |
| 647744 | 4077573 | 910,109.27 | 163.8 | 0 | ANNUAL | ALL | G5 | Grid Receptor 5 | |
| 649344 | 4075573 | 787,171.28 | 205.5 | 0 | ANNUAL | ALL | G50 | Grid Receptor 50 | |
| 649744 | 4079173 | 340,915.37 | 176.1 | 0 | ANNUAL | ALL | G51 | Grid Receptor 51 | |
| 649744 | 4078773 | 539,765.01 | 195 | 0 | ANNUAL | ALL | G52 | Grid Receptor 52 | |
| 649744 | 4078373 | 917,598.42 | 196.1 | 0 | ANNUAL | ALL | G53 | Grid Receptor 53 | |
| 649744 | 4077973 | 2,394,021.40 | 215.3 | 0 | ANNUAL | ALL | G54 | Grid Receptor 54 | |
| 649744 | 4075973 | 2,028,811.27 | 237.7 | 0 | ANNUAL | ALL | G59 | Grid Receptor 59 | |
| 647744 | 4077173 | 773,930.65 | 158.4 | 0 | ANNUAL | ALL | G6 | Grid Receptor 6 | |
| 649744 | 4075573 | 1,249,723.10 | 204.2 | 0 | ANNUAL | ALL | G60 | Grid Receptor 60 | |
| 650144 | 4079173 | 298,798.07 | 173 | 0 | ANNUAL | ALL | G61 | Grid Receptor 61 | |
| 650144 | 4078773 | 411,563.63 | 171 | 0 | ANNUAL | ALL | G62 | Grid Receptor 62 | |
| 650144 | 4078373 | 729,070.48 | 204.6 | 0 | ANNUAL | ALL | G63 | Grid Receptor 63 | |
| 650144 | 4077973 | 1,560,968.17 | 216.5 | 0 | ANNUAL | ALL | G64 | Grid Receptor 64 | |
| 650144 | 4076773 | 16,709,271.55 | 223.3 | 0 | ANNUAL | ALL | G67 | Grid Receptor 67 | M |
| 650144 | 4076373 | 5,808,936.38 | 231.4 | 0 | ANNUAL | ALL | G68 | Grid Receptor 68 | |
| 650144 | 4075973 | 1,694,086.41 | 249.4 | 0 | ANNUAL | ALL | G69 | Grid Receptor 69 | |
| 647744 | 4076773 | 593,886.95 | 164.7 | 0 | ANNUAL | ALL | G7 | Grid Receptor 7 | |
| 650144 | 4075573 | 1,742,973.21 | 216.4 | 0 | ANNUAL | ALL | G70 | Grid Receptor 70 | |
| 650544 | 4079173 | 261,647.76 | 177 | 0 | ANNUAL | ALL | G71 | Grid Receptor 71 | |
| 650544 | 4078773 | 347,394.90 | 180.9 | 0 | ANNUAL | ALL | G72 | Grid Receptor 72 | |
| 650544 | 4078373 | 533,967.43 | 196.6 | 0 | ANNUAL | ALL | G73 | Grid Receptor 73 | |
| 650544 | 4077973 | 925,339.98 | 236.9 | 0 | ANNUAL | ALL | G74 | Grid Receptor 74 | |
| 650544 | 4076773 | 11,928,658.42 | 234.2 | 0 | ANNUAL | ALL | G77 | Grid Receptor 77 | |
| 650544 | 4076373 | 1,821,074.55 | 260.9 | 0 | ANNUAL | ALL | G78 | Grid Receptor 78 | |
| 650544 | 4075973 | 3,020,088.79 | 226.7 | 0 | ANNUAL | ALL | G79 | Grid Receptor 79 | |
| 647744 | 4076373 | 395,007.35 | 164 | 0 | ANNUAL | ALL | G8 | Grid Receptor 8 | |
| 650544 | 4075573 | 701,897.81 | 268.2 | 0 | ANNUAL | ALL | G80 | Grid Receptor 80 | |
| 650944 | 4079173 | 225,042.64 | 181.3 | 0 | ANNUAL | ALL | G81 | Grid Receptor 81 | |
| 650944 | 4078773 | 285,722.10 | 178.4 | 0 | ANNUAL | ALL | G82 | Grid Receptor 82 | |
| 650944 | 4078373 | 532,684.12 | 214.8 | 0 | ANNUAL | ALL | G83 | Grid Receptor 83 | |

PMI

10/01/21

* AERMET (21112): Closure Area TAC Gnd 2018

11:09:36

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 299 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----|-----------------------|
| 650944 | 4077973 | 464,318.26 | 249.9 | 0 | ANNUAL | ALL | G84 | Grid Receptor 84 |
| 650944 | 4077573 | 382,817.86 | 276.5 | 0 | ANNUAL | ALL | G85 | Grid Receptor 85 |
| 650944 | 4077173 | 3,708,932.35 | 225.6 | 0 | ANNUAL | ALL | G86 | Grid Receptor 86 |
| 650944 | 4076773 | 5,357,487.84 | 219.8 | 0 | ANNUAL | ALL | G87 | Grid Receptor 87 |
| 650944 | 4076373 | 3,524,897.46 | 209.2 | 0 | ANNUAL | ALL | G88 | Grid Receptor 88 |
| 650944 | 4075973 | 2,527,210.82 | 216.6 | 0 | ANNUAL | ALL | G89 | Grid Receptor 89 |
| 647744 | 4075973 | 279,201.73 | 160.7 | 0 | ANNUAL | ALL | G9 | Grid Receptor 9 |
| 650944 | 4075573 | 1,488,359.82 | 243.2 | 0 | ANNUAL | ALL | G90 | Grid Receptor 90 |
| 651344 | 4079173 | 205,267.64 | 191 | 0 | ANNUAL | ALL | G91 | Grid Receptor 91 |
| 651344 | 4078773 | 264,070.48 | 181 | 0 | ANNUAL | ALL | G92 | Grid Receptor 92 |
| 651344 | 4078373 | 477,667.15 | 214.3 | 0 | ANNUAL | ALL | G93 | Grid Receptor 93 |
| 651344 | 4077973 | 451,144.55 | 248.4 | 0 | ANNUAL | ALL | G94 | Grid Receptor 94 |
| 651344 | 4077573 | 1,097,219.31 | 213.2 | 0 | ANNUAL | ALL | G95 | Grid Receptor 95 |
| 651344 | 4077173 | 1,802,598.24 | 213.6 | 0 | ANNUAL | ALL | G96 | Grid Receptor 96 |
| 651344 | 4076773 | 2,134,538.20 | 203.5 | 0 | ANNUAL | ALL | G97 | Grid Receptor 97 |
| 651344 | 4076373 | 2,169,043.87 | 205.6 | 0 | ANNUAL | ALL | G98 | Grid Receptor 98 |
| 651344 | 4075973 | 1,861,356.83 | 205.8 | 0 | ANNUAL | ALL | G99 | Grid Receptor 99 |
| 648584.2 | 4077523 | 2,188,172.82 | 183.61 | 0 | ANNUAL | ALL | P1 | Boundary Perimeter 1 |
| 649484.1 | 4077537 | 1,858,202.15 | 254.01 | 0 | ANNUAL | ALL | P10 | Boundary Perimeter 10 |
| 649584 | 4077539 | 4,985,200.84 | 235.3 | 0 | ANNUAL | ALL | P11 | Boundary Perimeter 11 |
| 649684 | 4077540 | 7,745,265.06 | 221.29 | 0 | ANNUAL | ALL | P12 | Boundary Perimeter 12 |
| 649784 | 4077541 | 8,490,538.32 | 222.37 | 0 | ANNUAL | ALL | P13 | Boundary Perimeter 13 |
| 649884 | 4077542 | 6,116,638.23 | 233.6 | 0 | ANNUAL | ALL | P14 | Boundary Perimeter 14 |
| 649984 | 4077543 | 2,491,755.39 | 249.54 | 0 | ANNUAL | ALL | P15 | Boundary Perimeter 15 |
| 650083.9 | 4077546 | 1,614,823.64 | 258.89 | 0 | ANNUAL | ALL | P16 | Boundary Perimeter 16 |
| 650183.9 | 4077548 | 1,340,004.79 | 259.56 | 0 | ANNUAL | ALL | P17 | Boundary Perimeter 17 |
| 650283.9 | 4077550 | 1,124,493.53 | 256.77 | 0 | ANNUAL | ALL | P18 | Boundary Perimeter 18 |
| 650383.8 | 4077552 | 1,852,252.38 | 242.37 | 0 | ANNUAL | ALL | P19 | Boundary Perimeter 19 |
| 648684.2 | 4077525 | 2,608,638.38 | 197.16 | 0 | ANNUAL | ALL | P2 | Boundary Perimeter 2 |
| 650483.8 | 4077554 | 1,632,936.75 | 242.23 | 0 | ANNUAL | ALL | P20 | Boundary Perimeter 20 |
| 650583.8 | 4077557 | 700,494.25 | 259.71 | 0 | ANNUAL | ALL | P21 | Boundary Perimeter 21 |
| 650683.8 | 4077559 | 715,952.92 | 257.58 | 0 | ANNUAL | ALL | P22 | Boundary Perimeter 22 |

10/01/21

* AERMET (21112): Closure Area TAC Gnd 2018

11:09:36

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 299 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | ID | Description |
|----------|---------|---------------|--------|-------|--------|-----|-----|-----------------------|
| 650776.8 | 4077554 | 517,550.02 | 267.9 | 0 | ANNUAL | ALL | P23 | Boundary Perimeter 23 |
| 650778.9 | 4077454 | 595,056.83 | 275.91 | 0 | ANNUAL | ALL | P24 | Boundary Perimeter 24 |
| 650781 | 4077354 | 976,913.49 | 265.73 | 0 | ANNUAL | ALL | P25 | Boundary Perimeter 25 |
| 650783.1 | 4077254 | 1,920,061.57 | 251.08 | 0 | ANNUAL | ALL | P26 | Boundary Perimeter 26 |
| 650785.2 | 4077154 | 2,449,061.78 | 252.83 | 0 | ANNUAL | ALL | P27 | Boundary Perimeter 27 |
| 650787.3 | 4077054 | 3,799,271.15 | 246.1 | 0 | ANNUAL | ALL | P28 | Boundary Perimeter 28 |
| 650789.4 | 4076954 | 5,097,333.37 | 241.37 | 0 | ANNUAL | ALL | P29 | Boundary Perimeter 29 |
| 648784.2 | 4077527 | 3,355,773.53 | 209.74 | 0 | ANNUAL | ALL | Р3 | Boundary Perimeter 3 |
| 650791.5 | 4076854 | 4,408,405.11 | 246.79 | 0 | ANNUAL | ALL | P30 | Boundary Perimeter 30 |
| 650793.6 | 4076754 | 7,716,462.41 | 228.75 | 0 | ANNUAL | ALL | P31 | Boundary Perimeter 31 |
| 650754.4 | 4076683 | 7,739,304.03 | 217.76 | 0 | ANNUAL | ALL | P32 | Boundary Perimeter 32 |
| 650660.2 | 4076650 | 8,588,640.02 | 221.2 | 0 | ANNUAL | ALL | P33 | Boundary Perimeter 33 |
| 650561.4 | 4076650 | 9,440,015.72 | 220.83 | 0 | ANNUAL | ALL | P34 | Boundary Perimeter 34 |
| 650462.7 | 4076666 | 10,368,214.23 | 223.42 | 0 | ANNUAL | ALL | P35 | Boundary Perimeter 35 |
| 650364 | 4076682 | 11,102,883.02 | 222.46 | 0 | ANNUAL | ALL | P36 | Boundary Perimeter 36 |
| 650264.2 | 4076683 | 11,121,590.54 | 223.19 | 0 | ANNUAL | ALL | P37 | Boundary Perimeter 37 |
| 650164.7 | 4076674 | 11,456,490.84 | 222.1 | 0 | ANNUAL | ALL | P38 | Boundary Perimeter 38 |
| 650065.8 | 4076660 | 11,893,541.83 | 217.03 | 0 | ANNUAL | ALL | P39 | Boundary Perimeter 39 |
| 648884.2 | 4077529 | 4,043,638.71 | 214.25 | 0 | ANNUAL | ALL | P4 | Boundary Perimeter 4 |
| 649980.4 | 4076627 | 12,408,169.50 | 214.82 | 0 | ANNUAL | ALL | P40 | Boundary Perimeter 40 |
| 649920.3 | 4076547 | 12,126,829.19 | 214.91 | 0 | ANNUAL | ALL | P41 | Boundary Perimeter 41 |
| 649852.2 | 4076474 | 10,804,121.69 | 214.09 | 0 | ANNUAL | ALL | P42 | Boundary Perimeter 42 |
| 649770.7 | 4076417 | 8,918,023.39 | 211.53 | 0 | ANNUAL | ALL | P43 | Boundary Perimeter 43 |
| 649680.5 | 4076375 | 7,197,205.02 | 210.17 | 0 | ANNUAL | ALL | P44 | Boundary Perimeter 44 |
| 649580.9 | 4076368 | 5,708,180.88 | 208.52 | 0 | ANNUAL | ALL | P45 | Boundary Perimeter 45 |
| 649482.5 | 4076384 | 4,595,498.20 | 207.5 | 0 | ANNUAL | ALL | P46 | Boundary Perimeter 46 |
| 649391.6 | 4076425 | 4,111,663.39 | 205.17 | 0 | ANNUAL | ALL | P47 | Boundary Perimeter 47 |
| 649303.5 | 4076472 | 3,519,573.57 | 202.16 | 0 | ANNUAL | ALL | P48 | Boundary Perimeter 48 |
| 649226.2 | 4076535 | 3,335,527.53 | 196.38 | 0 | ANNUAL | ALL | P49 | Boundary Perimeter 49 |
| 648984.1 | 4077530 | 4,783,263.22 | 221.41 | 0 | ANNUAL | ALL | P5 | Boundary Perimeter 5 |
| 649156.2 | 4076605 | 3,415,700.97 | 195.87 | 0 | ANNUAL | ALL | P50 | Boundary Perimeter 50 |
| 649068.3 | 4076653 | 2,948,229.56 | 196.32 | 0 | ANNUAL | ALL | P51 | Boundary Perimeter 51 |

* AERMET (21112): Closure Area TAC Gnd 2018

11:09:36

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 299 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|--------|-----------------------|
| 648986.7 | 4076711 | 2,718,952.94 | 192.42 | 0 | ANNUAL | ALL | P52 | Boundary Perimeter 52 |
| 648936.5 | 4076759 | 2,660,861.05 | 192.46 | 0 | ANNUAL | ALL | P53 | Boundary Perimeter 53 |
| 648868.6 | 4076833 | 2,578,129.94 | 191.63 | 0 | ANNUAL | ALL | P54 | Boundary Perimeter 54 |
| 648797.2 | 4076902 | 2,423,000.98 | 186.32 | 0 | ANNUAL | ALL | P55 | Boundary Perimeter 55 |
| 648710.6 | 4076952 | 2,160,905.53 | 179.81 | 0 | ANNUAL | ALL | P56 | Boundary Perimeter 56 |
| 648620.8 | 4076996 | 1,949,701.61 | 176.23 | 0 | ANNUAL | ALL | P57 | Boundary Perimeter 57 |
| 648607.2 | 4077051 | 2,008,147.12 | 175.02 | 0 | ANNUAL | ALL | P58 | Boundary Perimeter 58 |
| 648680.1 | 4077119 | 2,381,302.56 | 180.62 | 0 | ANNUAL | ALL | P59 | Boundary Perimeter 59 |
| 649084.1 | 4077532 | 4,954,856.20 | 216.54 | 0 | ANNUAL | ALL | P6 | Boundary Perimeter 6 |
| 648759.2 | 4077180 | 2,870,646.08 | 183.47 | 0 | ANNUAL | ALL | P60 | Boundary Perimeter 60 |
| 648791.4 | 4077262 | 3,386,047.50 | 202.88 | 0 | ANNUAL | ALL | P61 | Boundary Perimeter 61 |
| 648788.5 | 4077362 | 3,129,277.64 | 178.21 | 0 | ANNUAL | ALL | P62 | Boundary Perimeter 62 |
| 648691.3 | 4077361 | 2,637,846.24 | 176.25 | 0 | ANNUAL | ALL | P63 | Boundary Perimeter 63 |
| 648591.4 | 4077357 | 2,239,178.79 | 176 | 0 | ANNUAL | ALL | P64 | Boundary Perimeter 64 |
| 648525.7 | 4077371 | 2,031,944.88 | 175.24 | 0 | ANNUAL | ALL | P65 | Boundary Perimeter 65 |
| 648586.9 | 4077430 | 2,226,486.84 | 175.13 | 0 | ANNUAL | ALL | P66 | Boundary Perimeter 66 |
| 649184.1 | 4077534 | 4,959,347.23 | 230.71 | 0 | ANNUAL | ALL | P7 | Boundary Perimeter 7 |
| 649284.1 | 4077535 | 2,299,759.33 | 248.08 | 0 | ANNUAL | ALL | P8 | Boundary Perimeter 8 |
| 649384.1 | 4077536 | 1,519,592.24 | 258.43 | 0 | ANNUAL | ALL | P9 | Boundary Perimeter 9 |
| 645930 | 4077983 | 333,713.63 | 127.38 | 0 | ANNUAL | ALL | RP_G1 | New Development |
| 645930 | 4078083 | 341,249.76 | 127.58 | 0 | ANNUAL | ALL | RP_G10 | New Development |
| 646030 | 4078083 | 356,746.02 | 130.56 | 0 | ANNUAL | ALL | RP_G11 | New Development |
| 646130 | 4078083 | 373,379.28 | 134.35 | 0 | ANNUAL | ALL | RP_G12 | New Development |
| 646230 | 4078083 | 391,379.95 | 139.22 | 0 | ANNUAL | ALL | RP_G13 | New Development |
| 646330 | 4078083 | 410,861.81 | 144.65 | 0 | ANNUAL | ALL | RP_G14 | New Development |
| 646430 | 4078083 | 429,096.12 | 142.28 | 0 | ANNUAL | ALL | RP_G15 | New Development |
| 646530 | 4078083 | 450,437.79 | 146.76 | 0 | ANNUAL | ALL | RP_G16 | New Development |
| 646630 | 4078083 | 472,939.07 | 150.64 | 0 | ANNUAL | ALL | RP_G17 | New Development |
| 646730 | 4078083 | 497,432.66 | 155.4 | 0 | ANNUAL | ALL | RP_G18 | New Development |
| 645930 | 4078183 | 344,472.42 | 127.22 | 0 | ANNUAL | ALL | RP_G19 | New Development |
| 646030 | 4077983 | 350,207.06 | 131.21 | 0 | ANNUAL | ALL | RP_G2 | New Development |
| 646030 | 4078183 | 359,522.64 | 130.56 | 0 | ANNUAL | ALL | RP_G20 | New Development |

2806308

* AERMOD (19191): Appendix B Attachment

10/01/21

* AERMET (21112): Closure Area TAC Gnd 2018

11:09:36

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 299 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|--------|-----------------|
| 646130 | 4078183 | 375,389.62 | 133.89 | 0 | ANNUAL | ALL | RP_G21 | New Development |
| 646230 | 4078183 | 392,806.50 | 140.45 | 0 | ANNUAL | ALL | RP_G22 | New Development |
| 646330 | 4078183 | 411,468.37 | 146.94 | 0 | ANNUAL | ALL | RP_G23 | New Development |
| 646430 | 4078183 | 426,533.12 | 140.23 | 0 | ANNUAL | ALL | RP_G24 | New Development |
| 646530 | 4078183 | 446,636.49 | 147.25 | 0 | ANNUAL | ALL | RP_G25 | New Development |
| 646630 | 4078183 | 467,168.91 | 151.56 | 0 | ANNUAL | ALL | RP_G26 | New Development |
| 646730 | 4078183 | 490,453.68 | 157.78 | 0 | ANNUAL | ALL | RP_G27 | New Development |
| 645930 | 4078283 | 344,309.72 | 126.06 | 0 | ANNUAL | ALL | RP_G28 | New Development |
| 646030 | 4078283 | 358,201.74 | 129.56 | 0 | ANNUAL | ALL | RP_G29 | New Development |
| 646130 | 4077983 | 367,762.20 | 135.89 | 0 | ANNUAL | ALL | RP_G3 | New Development |
| 646130 | 4078283 | 372,537.85 | 132.89 | 0 | ANNUAL | ALL | RP_G30 | New Development |
| 646230 | 4078283 | 388,099.80 | 139.24 | 0 | ANNUAL | ALL | RP_G31 | New Development |
| 646330 | 4078283 | 403,737.91 | 142.68 | 0 | ANNUAL | ALL | RP_G32 | New Development |
| 646430 | 4078283 | 418,266.83 | 140.02 | 0 | ANNUAL | ALL | RP_G33 | New Development |
| 646530 | 4078283 | 436,570.54 | 147.22 | 0 | ANNUAL | ALL | RP_G34 | New Development |
| 646630 | 4078283 | 455,378.68 | 151.56 | 0 | ANNUAL | ALL | RP_G35 | New Development |
| 646730 | 4078283 | 476,497.75 | 156.78 | 0 | ANNUAL | ALL | RP_G36 | New Development |
| 646230 | 4077983 | 386,145.16 | 139.18 | 0 | ANNUAL | ALL | RP_G4 | New Development |
| 646330 | 4077983 | 405,281.78 | 140.76 | 0 | ANNUAL | ALL | RP_G5 | New Development |
| 646430 | 4077983 | 426,029.26 | 143.89 | 0 | ANNUAL | ALL | RP_G6 | New Development |
| 646530 | 4077983 | 447,571.93 | 145.22 | 0 | ANNUAL | ALL | RP_G7 | New Development |
| 646630 | 4077983 | 470,664.51 | 147.21 | 0 | ANNUAL | ALL | RP_G8 | New Development |
| 646730 | 4077983 | 494,902.89 | 148.3 | 0 | ANNUAL | ALL | RP_G9 | New Development |
| 648659.3 | 4077241 | 2,731,545.43 | 205.79 | 0 | ANNUAL | ALL | RP_H1 | House 1 |
| 648071.2 | 4076116 | 374,474.56 | 169.6 | 0 | ANNUAL | ALL | RP_H10 | House 10 |
| 648247.4 | 4076278 | 502,248.99 | 184.55 | 0 | ANNUAL | ALL | RP_H11 | House 11 |
| 648027.2 | 4076255 | 415,633.32 | 169.38 | 0 | ANNUAL | ALL | RP_H12 | House 12 |
| 648065.8 | 4076359 | 481,488.43 | 173.83 | 0 | ANNUAL | ALL | RP_H13 | House 13 |
| 648138.7 | 4076400 | 534,343.97 | 178.22 | 0 | ANNUAL | ALL | RP_H14 | House 14 |
| 648254.7 | 4076411 | 610,917.59 | 191.28 | 0 | ANNUAL | ALL | RP_H15 | House 15 |
| 647877.8 | 4076365 | 425,522.97 | 165.39 | 0 | ANNUAL | ALL | RP_H16 | House 16 |
| 647520 | 4076206 | 292,951.36 | 159 | 0 | ANNUAL | ALL | RP_H17 | House 17 |

10/01/21

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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | ID | Description | |
|----------|---------|--------------|--------|-------|--------|-----|--------|-------------|------|
| 647921 | 4076247 | 384,152.83 | 164 | 0 | ANNUAL | ALL | RP_H18 | House 18 | |
| 647708.8 | 4076352 | 378,200.66 | 163.52 | 0 | ANNUAL | ALL | RP_H19 | House 19 | |
| 648371.7 | 4075470 | 259,680.76 | 173.69 | 0 | ANNUAL | ALL | RP_H2 | House 2 | |
| 647703.6 | 4076251 | 338,358.67 | 162.17 | 0 | ANNUAL | ALL | RP_H20 | House 20 | |
| 647718.8 | 4076104 | 297,973.98 | 159.35 | 0 | ANNUAL | ALL | RP_H21 | House 21 | |
| 647843.3 | 4076125 | 326,666.13 | 163 | 0 | ANNUAL | ALL | RP_H22 | House 22 | |
| 647842.3 | 4076500 | 479,629.95 | 167.93 | 0 | ANNUAL | ALL | RP_H23 | House 23 | |
| 647727.8 | 4076644 | 521,567.59 | 164.15 | 0 | ANNUAL | ALL | RP_H24 | House 24 | |
| 647823.9 | 4076644 | 554,246.92 | 168.29 | 0 | ANNUAL | ALL | RP_H25 | House 25 | |
| 647530 | 4076497 | 395,160.80 | 159.56 | 0 | ANNUAL | ALL | RP_H26 | House 26 | |
| 647810.1 | 4076854 | 668,543.02 | 162.9 | 0 | ANNUAL | ALL | RP_H27 | House 27 | |
| 647697.5 | 4076989 | 674,577.21 | 161.42 | 0 | ANNUAL | ALL | RP_H28 | House 28 | |
| 648225.5 | 4076182 | 444,733.06 | 183.22 | 0 | ANNUAL | ALL | RP_H29 | House 29 | |
| 647678.2 | 4075969 | 267,476.34 | 159.5 | 0 | ANNUAL | ALL | RP_H3 | House 3 | |
| 645876.3 | 4077487 | 260,468.20 | 127.13 | 0 | ANNUAL | ALL | RP_H30 | House 30 | |
| 650902 | 4076062 | 2,806,307.99 | 215.24 | 0 | ANNUAL | ALL | RP_H31 | House 31 | MEIR |
| 651490 | 4076597 | 1,842,317.35 | 205.5 | 0 | ANNUAL | ALL | RP_H32 | House 32 | |
| 651565 | 4077067 | 1,526,380.49 | 213.93 | 0 | ANNUAL | ALL | RP_H33 | House 33 | |
| 648672.8 | 4075307 | 365,364.56 | 225.91 | 0 | ANNUAL | ALL | RP_H34 | House 34 | |
| 648383.6 | 4075469 | 261,107.85 | 174.44 | 0 | ANNUAL | ALL | RP_H35 | House 35 | |
| 646379.4 | 4077233 | 309,382.17 | 146 | 0 | ANNUAL | ALL | RP_H36 | House 36 | |
| 651849.7 | 4075865 | 1,172,913.11 | 201.97 | 0 | ANNUAL | ALL | RP_H37 | House 37 | |
| 652045.5 | 4076210 | 1,035,484.89 | 196.88 | 0 | ANNUAL | ALL | RP_H38 | House 38 | |
| 652255.7 | 4076391 | 864,301.73 | 197.06 | 0 | ANNUAL | ALL | RP_H39 | House 39 | |
| 647815.3 | 4075985 | 293,658.42 | 162.04 | 0 | ANNUAL | ALL | RP_H4 | House 4 | |
| 646853.7 | 4077373 | 428,785.38 | 145.99 | 0 | ANNUAL | ALL | RP_H40 | House 40 | |
| 647050.2 | 4077360 | 484,519.49 | 145 | 0 | ANNUAL | ALL | RP_H41 | House 41 | |
| 647286.4 | 4077474 | 607,102.94 | 149.68 | 0 | ANNUAL | ALL | RP_H42 | House 42 | |
| 647359.1 | 4077340 | 602,620.60 | 154.45 | 0 | ANNUAL | ALL | RP_H43 | House 43 | |
| 647490.4 | 4077329 | 668,395.79 | 162.28 | 0 | ANNUAL | ALL | RP_H44 | House 44 | |
| 647522.2 | 4077252 | 664,728.19 | 164.3 | 0 | ANNUAL | ALL | RP_H45 | House 45 | |
| 647517.8 | 4077139 | 631,262.91 | 164.01 | 0 | ANNUAL | ALL | RP_H46 | House 46 | |

10/01/21

* AERMET (21112): Closure Area TAC Gnd 2018

11:09:36

- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 299 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|--------|-------------|
| 646819 | 4077258 | 404,188.55 | 151.53 | 0 | ANNUAL | ALL | RP_H47 | House 47 |
| 646778.7 | 4077128 | 375,220.43 | 158.51 | 0 | ANNUAL | ALL | RP_H48 | House 48 |
| 646987.3 | 4077213 | 440,027.93 | 146.44 | 0 | ANNUAL | ALL | RP_H49 | House 49 |
| 647898.2 | 4076033 | 316,789.86 | 163.83 | 0 | ANNUAL | ALL | RP_H5 | House 5 |
| 647241.8 | 4077227 | 527,970.00 | 154.85 | 0 | ANNUAL | ALL | RP_H50 | House 50 |
| 646773.1 | 4077063 | 365,219.90 | 159 | 0 | ANNUAL | ALL | RP_H51 | House 51 |
| 647104.4 | 4077118 | 457,978.33 | 148.99 | 0 | ANNUAL | ALL | RP_H52 | House 52 |
| 647291.9 | 4077123 | 526,264.60 | 158.62 | 0 | ANNUAL | ALL | RP_H53 | House 53 |
| 646765.2 | 4076978 | 354,436.66 | 158.67 | 0 | ANNUAL | ALL | RP_H54 | House 54 |
| 646995.7 | 4076984 | 402,862.71 | 152.34 | 0 | ANNUAL | ALL | RP_H55 | House 55 |
| 647317.2 | 4077031 | 513,891.47 | 160.22 | 0 | ANNUAL | ALL | RP_H56 | House 56 |
| 647398.4 | 4077013 | 540,185.02 | 161.26 | 0 | ANNUAL | ALL | RP_H57 | House 57 |
| 646978.9 | 4076904 | 387,193.71 | 156.81 | 0 | ANNUAL | ALL | RP_H58 | House 58 |
| 647015.2 | 4076807 | 381,473.75 | 156.21 | 0 | ANNUAL | ALL | RP_H59 | House 59 |
| 648045.4 | 4076018 | 346,253.58 | 168.26 | 0 | ANNUAL | ALL | RP_H6 | House 6 |
| 647164 | 4076802 | 414,138.29 | 154.38 | 0 | ANNUAL | ALL | RP_H60 | House 60 |
| 647310.6 | 4076940 | 485,223.25 | 162.49 | 0 | ANNUAL | ALL | RP_H61 | House 61 |
| 647298.1 | 4076805 | 450,348.30 | 158 | 0 | ANNUAL | ALL | RP_H62 | House 62 |
| 647446.6 | 4076900 | 519,666.35 | 159.45 | 0 | ANNUAL | ALL | RP_H63 | House 63 |
| 647464.5 | 4076781 | 495,464.93 | 159.32 | 0 | ANNUAL | ALL | RP_H64 | House 64 |
| 647512 | 4076536 | 409,139.14 | 159 | 0 | ANNUAL | ALL | RP_H65 | House 65 |
| 651131 | 4078767 | 273,311.00 | 179.58 | 0 | ANNUAL | ALL | RP_H66 | House 66 |
| 647131 | 4077336 | 507,809.33 | 146.77 | 0 | ANNUAL | ALL | RP_H67 | House 67 |
| 646798 | 4076740 | 332,889.18 | 156.07 | 0 | ANNUAL | ALL | RP_H68 | House 68 |
| 646900 | 4076802 | 358,764.64 | 159 | 0 | ANNUAL | ALL | RP_H69 | House 69 |
| 648126.3 | 4075955 | 354,450.81 | 171.51 | 0 | ANNUAL | ALL | RP_H7 | House 7 |
| 647317 | 4076662 | 423,859.18 | 159.9 | 0 | ANNUAL | ALL | RP_H70 | House 70 |
| 648249.3 | 4075970 | 392,369.97 | 183.42 | 0 | ANNUAL | ALL | RP_H8 | House 8 |
| 648218.6 | 4076109 | 415,859.48 | 182.28 | 0 | ANNUAL | ALL | RP_H9 | House 9 |

10/01/21

* AERMET (19191): Closure Area TAC Gnd 2019

11:05:30

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL FOR A TOTAL OF 299 RECEPTORS.

FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|----------|------------------------------------|
| 645996 | 4078698 | 200267.9656 | 123.85 | 0 | ANNUAL | AQ ST 1 | AQ Monitoring Station |
| 643903.7 | 4077719 | 42259.6726 | 105.68 | 0 | ANNUAL | CR HP 1 | Hazel Hawkins Memorial Hospital |
| 642056.8 | 4079416 | 48819.6521 | 85.12 | 0 | ANNUAL | CR PK 1 | Dunne Park |
| 642179.1 | 4079950 | 58682.3486 | 117.99 | 0 | ANNUAL | CR PK 2 | Vista Park Hill Park |
| 644733.1 | 4078753 | 103938.6278 | 106.44 | 0 | ANNUAL | CR_PK_3 | Las Brisas Park |
| 645608.8 | 4078854 | 169346.6349 | 112.86 | 0 | ANNUAL | CR_PK_4 | Frank Klauer Memorial Park |
| 644238.1 | 4078807 | 85835.1517 | 95.25 | 0 | ANNUAL | CR_PK_5 | Veterans Memorial Park |
| 645311.5 | 4076559 | 61583.5034 | 134.61 | 0 | ANNUAL | CR_PK_6 | Park 6 |
| 649581.7 | 4073424 | 215515.826 | 159.96 | 0 | ANNUAL | CR_PK_7 | Park 7 |
| 645145.1 | 4077181 | 54163.7409 | 133 | 0 | ANNUAL | CR_SC_1 | Cerra Vista Elem School |
| 642904.7 | 4079955 | 74495.3688 | 86 | 0 | ANNUAL | CR_SC_10 | San Andreas Continuation |
| 645850.7 | 4074015 | 53307.1562 | 123 | 0 | ANNUAL | CR_SC_11 | SouthSide School |
| 642105.7 | 4078176 | 24370.8574 | 91 | 0 | ANNUAL | CR_SC_12 | School 12 |
| 646058.9 | 4078443 | 188442.3075 | 128.52 | 0 | ANNUAL | CR_SC_13 | Rancho Santana School |
| 647269 | 4075575 | 125121.4878 | 158 | 0 | ANNUAL | CR_SC_14 | Future School |
| 648466 | 4074106 | 142953.2564 | 159 | 0 | ANNUAL | CR_SC_15 | Tres Pinos Union Elementary School |
| 644109.6 | 4078389 | 70540.2963 | 98.2 | 0 | ANNUAL | CR_SC_2 | Sunnyslope Elem School |
| 643920.1 | 4077304 | 37324.2953 | 101.23 | 0 | ANNUAL | CR_SC_3 | Hollister Montessori School |
| 642961.1 | 4078621 | 52687.7525 | 92 | 0 | ANNUAL | CR_SC_4 | Rancho San Justo Middle School |
| 643980 | 4079743 | 104908.4938 | 88 | 0 | ANNUAL | CR_SC_5 | Marguerite Maze Middle School |
| 641630.2 | 4079153 | 43981.0178 | 85 | 0 | ANNUAL | CR_SC_6 | Hollister Prep Schoo |
| 643350 | 4077181 | 29942.6206 | 98.22 | 0 | ANNUAL | CR_SC_7 | Ladd Lane Elementary School |
| 644003 | 4080079 | 114237.0542 | 87 | 0 | ANNUAL | CR_SC_8 | Gabilan Hills Elementary School |
| 642244.9 | 4078413 | 31383.5451 | 90.17 | 0 | ANNUAL | CR_SC_9 | San Benito High School |
| 642083.4 | 4079794 | 52113.8086 | 87.58 | 0 | ANNUAL | CR_SR_1 | Jovenes De Antano |
| 646402 | 4076879 | 94680.4974 | 146.33 | 0 | ANNUAL | CR_WP_1 | Workplace |
| 648949 | 4077938 | 2274519.12 | 189.45 | 0 | ANNUAL | CR_WP_2 | Nearest Workplace |
| 647744 | 4079173 | 674122.3312 | 155.2 | 0 | ANNUAL | G1 | Grid Receptor 1 |
| 647744 | 4075573 | 156791.4974 | 160 | 0 | ANNUAL | G10 | Grid Receptor 10 |
| 651344 | 4075573 | 980945.6261 | 252.9 | 0 | ANNUAL | G100 | Grid Receptor 100 |
| 648144 | 4079173 | 781339.0524 | 165.9 | 0 | ANNUAL | G11 | Grid Receptor 11 |
| 648144 | 4078773 | 911328.4715 | 159.6 | 0 | ANNUAL | G12 | Grid Receptor 12 |

MEIW

School 1 School 2

10/01/21

* AERMET (19191): Closure Area TAC Gnd 2019

11:05:30

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL FOR A TOTAL OF 299 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|--------------|-------|-------|--------|-----|------------------|
| 648144 | 4078373 | 1000854.154 | 146.2 | 0 | ANNUAL | G13 | Grid Receptor 13 |
| 648144 | 4077973 | 968062.3503 | 158.3 | 0 | ANNUAL | G14 | Grid Receptor 14 |
| 648144 | 4077573 | 730131.5461 | 166.6 | 0 | ANNUAL | G15 | Grid Receptor 15 |
| 648144 | 4077173 | 451324.6432 | 175.4 | 0 | ANNUAL | G16 | Grid Receptor 16 |
| 648144 | 4076773 | 353073.6465 | 177.1 | 0 | ANNUAL | G17 | Grid Receptor 17 |
| 648144 | 4076373 | 325810.5243 | 178 | 0 | ANNUAL | G18 | Grid Receptor 18 |
| 648144 | 4075973 | 256552.9029 | 173 | 0 | ANNUAL | G19 | Grid Receptor 19 |
| 647744 | 4078773 | 708993.917 | 145.4 | 0 | ANNUAL | G2 | Grid Receptor 2 |
| 648144 | 4075573 | 218020.348 | 168.8 | 0 | ANNUAL | G20 | Grid Receptor 20 |
| 648544 | 4079173 | 786134.0088 | 173.5 | 0 | ANNUAL | G21 | Grid Receptor 21 |
| 648544 | 4078773 | 1048536.143 | 166.2 | 0 | ANNUAL | G22 | Grid Receptor 22 |
| 648544 | 4078373 | 1306763.312 | 145.4 | 0 | ANNUAL | G23 | Grid Receptor 23 |
| 648544 | 4077973 | 1587948.223 | 173.9 | 0 | ANNUAL | G24 | Grid Receptor 24 |
| 648544 | 4077573 | 1477236.925 | 179.6 | 0 | ANNUAL | G25 | Grid Receptor 25 |
| 648544 | 4077173 | 925942.9473 | 191 | 0 | ANNUAL | G26 | Grid Receptor 26 |
| 648544 | 4076773 | 709965.007 | 209.2 | 0 | ANNUAL | G27 | Grid Receptor 27 |
| 648544 | 4076373 | 574737.1134 | 233.7 | 0 | ANNUAL | G28 | Grid Receptor 28 |
| 648544 | 4075973 | 396918.2315 | 199.9 | 0 | ANNUAL | G29 | Grid Receptor 29 |
| 647744 | 4078373 | 697986.5166 | 144.4 | 0 | ANNUAL | G3 | Grid Receptor 3 |
| 648544 | 4075573 | 317040.1197 | 195.5 | 0 | ANNUAL | G30 | Grid Receptor 30 |
| 648944 | 4079173 | 728906.3743 | 190.4 | 0 | ANNUAL | G31 | Grid Receptor 31 |
| 648944 | 4078773 | 991743.4283 | 165.4 | 0 | ANNUAL | G32 | Grid Receptor 32 |
| 648944 | 4078373 | 1466254.468 | 159.6 | 0 | ANNUAL | G33 | Grid Receptor 33 |
| 648944 | 4077973 | 2157752.076 | 183.5 | 0 | ANNUAL | G34 | Grid Receptor 34 |
| 648944 | 4076773 | 1409372.575 | 193 | 0 | ANNUAL | G37 | Grid Receptor 37 |
| 648944 | 4076373 | 913568.5037 | 205 | 0 | ANNUAL | G38 | Grid Receptor 38 |
| 648944 | 4075973 | 660814.1198 | 208.8 | 0 | ANNUAL | G39 | Grid Receptor 39 |
| 647744 | 4077973 | 587682.2184 | 134.6 | 0 | ANNUAL | G4 | Grid Receptor 4 |
| 648944 | 4075573 | 409365.6782 | 185.6 | 0 | ANNUAL | G40 | Grid Receptor 40 |
| 649344 | 4079173 | 541762.0144 | 187.4 | 0 | ANNUAL | G41 | Grid Receptor 41 |
| 649344 | 4078773 | 801863.8526 | 160.9 | 0 | ANNUAL | G42 | Grid Receptor 42 |
| 649344 | 4078373 | 1556233.065 | 200.5 | 0 | ANNUAL | G43 | Grid Receptor 43 |

10/01/21

* AERMET (19191): Closure Area TAC Gnd 2019

11:05:30

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL FOR A TOTAL OF 299 RECEPTORS.

FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | $(\Lambda,1\Lambda,)(1\Lambda)$ | (1X,173.2),3(1X,178.2),2X,1 | | | | | |
|--------|---------------------------------|-----------------------------|-------|-------|-------------|-----|------------------|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
| 649344 | 4077973 | 2995934.32 | 229 | 0 | ANNUAL | G44 | Grid Receptor 44 |
| 649344 | 4075973 | 1362965.857 | 227.2 | 0 | ANNUAL | G49 | Grid Receptor 49 |
| 647744 | 4077573 | 431601.4454 | 163.8 | 0 | ANNUAL | G5 | Grid Receptor 5 |
| 649344 | 4075573 | 784682.964 | 205.5 | 0 | ANNUAL | G50 | Grid Receptor 50 |
| 649744 | 4079173 | 354471.2393 | 176.1 | 0 | ANNUAL | G51 | Grid Receptor 51 |
| 649744 | 4078773 | 599073.3613 | 195 | 0 | ANNUAL | G52 | Grid Receptor 52 |
| 649744 | 4078373 | 1066877.399 | 196.1 | 0 | ANNUAL | G53 | Grid Receptor 53 |
| 649744 | 4077973 | 2752104.007 | 215.3 | 0 | ANNUAL | G54 | Grid Receptor 54 |
| 649744 | 4075973 | 2009141.44 | 237.7 | 0 | ANNUAL | G59 | Grid Receptor 59 |
| 647744 | 4077173 | 272985.3004 | 158.4 | 0 | ANNUAL | G6 | Grid Receptor 6 |
| 649744 | 4075573 | 1215698.067 | 204.2 | 0 | ANNUAL | G60 | Grid Receptor 60 |
| 650144 | 4079173 | 255174.983 | 173 | 0 | ANNUAL | G61 | Grid Receptor 61 |
| 650144 | 4078773 | 365708.3427 | 171 | 0 | ANNUAL | G62 | Grid Receptor 62 |
| 650144 | 4078373 | 672987.5432 | 204.6 | 0 | ANNUAL | G63 | Grid Receptor 63 |
| 650144 | 4077973 | 1519082.385 | 216.5 | 0 | ANNUAL | G64 | Grid Receptor 64 |
| 650144 | 4076773 | 14214194.53 | 223.3 | 0 | ANNUAL | G67 | Grid Receptor 67 |
| 650144 | 4076373 | 5349451.607 | 231.4 | 0 | ANNUAL | G68 | Grid Receptor 68 |
| 650144 | 4075973 | 1718092.995 | 249.4 | 0 | ANNUAL | G69 | Grid Receptor 69 |
| 647744 | 4076773 | 241596.525 | 164.7 | 0 | ANNUAL | G7 | Grid Receptor 7 |
| 650144 | 4075573 | 1660857.574 | 216.4 | 0 | ANNUAL | G70 | Grid Receptor 70 |
| 650544 | 4079173 | 223396.9903 | 177 | 0 | ANNUAL | G71 | Grid Receptor 71 |
| 650544 | 4078773 | 292884.1781 | 180.9 | 0 | ANNUAL | G72 | Grid Receptor 72 |
| 650544 | 4078373 | 422608.3277 | 196.6 | 0 | ANNUAL | G73 | Grid Receptor 73 |
| 650544 | 4077973 | 636061.6361 | 236.9 | 0 | ANNUAL | G74 | Grid Receptor 74 |
| 650544 | 4076773 | 11092503.57 | 234.2 | 0 | ANNUAL | G77 | Grid Receptor 77 |
| 650544 | 4076373 | 1886614.994 | 260.9 | 0 | ANNUAL | G78 | Grid Receptor 78 |
| 650544 | 4075973 | 2754888.602 | 226.7 | 0 | ANNUAL | G79 | Grid Receptor 79 |
| 647744 | 4076373 | 244296.6033 | 164 | 0 | ANNUAL | G8 | Grid Receptor 8 |
| 650544 | 4075573 | 727812.0864 | 268.2 | 0 | ANNUAL | G80 | Grid Receptor 80 |
| 650944 | 4079173 | 181450.7262 | 181.3 | 0 | ANNUAL | G81 | Grid Receptor 81 |
| 650944 | 4078773 | 206273.3515 | 178.4 | 0 | ANNUAL | G82 | Grid Receptor 82 |
| 650944 | 4078373 | 328276.4801 | 214.8 | 0 | ANNUAL | G83 | Grid Receptor 83 |
| - | | | | | | | - |

PMI

10/01/21

* AERMET (19191): Closure Area TAC Gnd 2019

11:05:30

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL FOR A TOTAL OF 299 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| 650944 | 4077973 | 260068.4968 | 249.9 | 0 | ANNUAL | G84 | Grid Receptor 84 |
| 650944 | 4077573 | 212556.8908 | 276.5 | 0 | ANNUAL | G85 | Grid Receptor 85 |
| 650944 | 4077173 | 2399265.836 | 225.6 | 0 | ANNUAL | G86 | Grid Receptor 86 |
| 650944 | 4076773 | 4359791.95 | 219.8 | 0 | ANNUAL | G87 | Grid Receptor 87 |
| 650944 | 4076373 | 3109593.912 | 209.2 | 0 | ANNUAL | G88 | Grid Receptor 88 |
| 650944 | 4075973 | 2243658.693 | 216.6 | 0 | ANNUAL | G89 | Grid Receptor 89 |
| 647744 | 4075973 | 192598.873 | 160.7 | 0 | ANNUAL | G9 | Grid Receptor 9 |
| 650944 | 4075573 | 1366688.733 | 243.2 | 0 | ANNUAL | G90 | Grid Receptor 90 |
| 651344 | 4079173 | 143007.3028 | 191 | 0 | ANNUAL | G91 | Grid Receptor 91 |
| 651344 | 4078773 | 159001.6346 | 181 | 0 | ANNUAL | G92 | Grid Receptor 92 |
| 651344 | 4078373 | 240082.8748 | 214.3 | 0 | ANNUAL | G93 | Grid Receptor 93 |
| 651344 | 4077973 | 237585.1877 | 248.4 | 0 | ANNUAL | G94 | Grid Receptor 94 |
| 651344 | 4077573 | 612823.1773 | 213.2 | 0 | ANNUAL | G95 | Grid Receptor 95 |
| 651344 | 4077173 | 1159610.913 | 213.6 | 0 | ANNUAL | G96 | Grid Receptor 96 |
| 651344 | 4076773 | 1664033.8 | 203.5 | 0 | ANNUAL | G97 | Grid Receptor 97 |
| 651344 | 4076373 | 1848913.844 | 205.6 | 0 | ANNUAL | G98 | Grid Receptor 98 |
| 651344 | 4075973 | 1617959.792 | 205.8 | 0 | ANNUAL | G99 | Grid Receptor 99 |
| 648584.2 | 4077523 | 1548882.538 | 183.61 | 0 | ANNUAL | P1 | Boundary Perimeter 1 |
| 649484.1 | 4077537 | 2058304.206 | 254.01 | 0 | ANNUAL | P10 | Boundary Perimeter 10 |
| 649584 | 4077539 | 4927600.081 | 235.3 | 0 | ANNUAL | P11 | Boundary Perimeter 11 |
| 649684 | 4077540 | 7363049.687 | 221.29 | 0 | ANNUAL | P12 | Boundary Perimeter 12 |
| 649784 | 4077541 | 8244478.858 | 222.37 | 0 | ANNUAL | P13 | Boundary Perimeter 13 |
| 649884 | 4077542 | 6323848.728 | 233.6 | 0 | ANNUAL | P14 | Boundary Perimeter 14 |
| 649984 | 4077543 | 2998661.122 | 249.54 | 0 | ANNUAL | P15 | Boundary Perimeter 15 |
| 650083.9 | 4077546 | 2170728.05 | 258.89 | 0 | ANNUAL | P16 | Boundary Perimeter 16 |
| 650183.9 | 4077548 | 1812177.985 | 259.56 | 0 | ANNUAL | P17 | Boundary Perimeter 17 |
| 650283.9 | 4077550 | 1207152.165 | 256.77 | 0 | ANNUAL | P18 | Boundary Perimeter 18 |
| 650383.8 | 4077552 | 1498068.85 | 242.37 | 0 | ANNUAL | P19 | Boundary Perimeter 19 |
| 648684.2 | 4077525 | 2002470.344 | 197.16 | 0 | ANNUAL | P2 | Boundary Perimeter 2 |
| 650483.8 | 4077554 | 1121973.238 | 242.23 | 0 | ANNUAL | P20 | Boundary Perimeter 20 |
| 650583.8 | 4077557 | 435735.8343 | 259.71 | 0 | ANNUAL | P21 | Boundary Perimeter 21 |
| 650683.8 | 4077559 | 424732.7593 | 257.58 | 0 | ANNUAL | P22 | Boundary Perimeter 22 |

10/01/21

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* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL FOR A TOTAL OF 299 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| 650776.8 | 4077554 | 296631.7115 | 267.9 | 0 | ANNUAL | P23 | Boundary Perimeter 23 |
| 650778.9 | 4077454 | 345598.5378 | 275.91 | 0 | ANNUAL | P24 | Boundary Perimeter 24 |
| 650781 | 4077354 | 611673.2979 | 265.73 | 0 | ANNUAL | P25 | Boundary Perimeter 25 |
| 650783.1 | 4077254 | 1294743.233 | 251.08 | 0 | ANNUAL | P26 | Boundary Perimeter 26 |
| 650785.2 | 4077154 | 1816950.748 | 252.83 | 0 | ANNUAL | P27 | Boundary Perimeter 27 |
| 650787.3 | 4077054 | 3065431.505 | 246.1 | 0 | ANNUAL | P28 | Boundary Perimeter 28 |
| 650789.4 | 4076954 | 4208668.685 | 241.37 | 0 | ANNUAL | P29 | Boundary Perimeter 29 |
| 648784.2 | 4077527 | 2772923.148 | 209.74 | 0 | ANNUAL | Р3 | Boundary Perimeter 3 |
| 650791.5 | 4076854 | 3922447.961 | 246.79 | 0 | ANNUAL | P30 | Boundary Perimeter 30 |
| 650793.6 | 4076754 | 6605984.743 | 228.75 | 0 | ANNUAL | P31 | Boundary Perimeter 31 |
| 650754.4 | 4076683 | 6730951.502 | 217.76 | 0 | ANNUAL | P32 | Boundary Perimeter 32 |
| 650660.2 | 4076650 | 7558754.626 | 221.2 | 0 | ANNUAL | P33 | Boundary Perimeter 33 |
| 650561.4 | 4076650 | 8409699.855 | 220.83 | 0 | ANNUAL | P34 | Boundary Perimeter 34 |
| 650462.7 | 4076666 | 9266328.243 | 223.42 | 0 | ANNUAL | P35 | Boundary Perimeter 35 |
| 650364 | 4076682 | 9852854.713 | 222.46 | 0 | ANNUAL | P36 | Boundary Perimeter 36 |
| 650264.2 | 4076683 | 9769831.422 | 223.19 | 0 | ANNUAL | P37 | Boundary Perimeter 37 |
| 650164.7 | 4076674 | 9974595.383 | 222.1 | 0 | ANNUAL | P38 | Boundary Perimeter 38 |
| 650065.8 | 4076660 | 10382614.35 | 217.03 | 0 | ANNUAL | P39 | Boundary Perimeter 39 |
| 648884.2 | 4077529 | 3556930.405 | 214.25 | 0 | ANNUAL | P4 | Boundary Perimeter 4 |
| 649980.4 | 4076627 | 10870574.22 | 214.82 | 0 | ANNUAL | P40 | Boundary Perimeter 40 |
| 649920.3 | 4076547 | 10814264.58 | 214.91 | 0 | ANNUAL | P41 | Boundary Perimeter 41 |
| 649852.2 | 4076474 | 9928357.557 | 214.09 | 0 | ANNUAL | P42 | Boundary Perimeter 42 |
| 649770.7 | 4076417 | 8380784.058 | 211.53 | 0 | ANNUAL | P43 | Boundary Perimeter 43 |
| 649680.5 | 4076375 | 6852174.973 | 210.17 | 0 | ANNUAL | P44 | Boundary Perimeter 44 |
| 649580.9 | 4076368 | 5458451.002 | 208.52 | 0 | ANNUAL | P45 | Boundary Perimeter 45 |
| 649482.5 | 4076384 | 4323630.937 | 207.5 | 0 | ANNUAL | P46 | Boundary Perimeter 46 |
| 649391.6 | 4076425 | 3733690.394 | 205.17 | 0 | ANNUAL | P47 | Boundary Perimeter 47 |
| 649303.5 | 4076472 | 2993960.13 | 202.16 | 0 | ANNUAL | P48 | Boundary Perimeter 48 |
| 649226.2 | 4076535 | 2425134.375 | 196.38 | 0 | ANNUAL | P49 | Boundary Perimeter 49 |
| 648984.1 | 4077530 | 4421911.059 | 221.41 | 0 | ANNUAL | P5 | Boundary Perimeter 5 |
| 649156.2 | 4076605 | 2106640.692 | 195.87 | 0 | ANNUAL | P50 | Boundary Perimeter 50 |
| 649068.3 | 4076653 | 1673938.112 | 196.32 | 0 | ANNUAL | P51 | Boundary Perimeter 51 |

10/01/21

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* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL FOR A TOTAL OF 299 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-----------------------|
| 648986.7 | 4076711 | 1425408.591 | 192.42 | 0 | ANNUAL | P52 | Boundary Perimeter 52 |
| 648936.5 | 4076759 | 1341144.546 | 192.46 | 0 | ANNUAL | P53 | Boundary Perimeter 53 |
| 648868.6 | 4076833 | 1258665.148 | 191.63 | 0 | ANNUAL | P54 | Boundary Perimeter 54 |
| 648797.2 | 4076902 | 1163387.375 | 186.32 | 0 | ANNUAL | P55 | Boundary Perimeter 55 |
| 648710.6 | 4076952 | 1007956.081 | 179.81 | 0 | ANNUAL | P56 | Boundary Perimeter 56 |
| 648620.8 | 4076996 | 871266.1044 | 176.23 | 0 | ANNUAL | P57 | Boundary Perimeter 57 |
| 648607.2 | 4077051 | 903017.8204 | 175.02 | 0 | ANNUAL | P58 | Boundary Perimeter 58 |
| 648680.1 | 4077119 | 1160008.111 | 180.62 | 0 | ANNUAL | P59 | Boundary Perimeter 59 |
| 649084.1 | 4077532 | 4770854.875 | 216.54 | 0 | ANNUAL | P6 | Boundary Perimeter 6 |
| 648759.2 | 4077180 | 1558212.542 | 183.47 | 0 | ANNUAL | P60 | Boundary Perimeter 60 |
| 648791.4 | 4077262 | 2061886.888 | 202.88 | 0 | ANNUAL | P61 | Boundary Perimeter 61 |
| 648788.5 | 4077362 | 2107079.006 | 178.21 | 0 | ANNUAL | P62 | Boundary Perimeter 62 |
| 648691.3 | 4077361 | 1655026.322 | 176.25 | 0 | ANNUAL | P63 | Boundary Perimeter 63 |
| 648591.4 | 4077357 | 1304027.86 | 176 | 0 | ANNUAL | P64 | Boundary Perimeter 64 |
| 648525.7 | 4077371 | 1149438.314 | 175.24 | 0 | ANNUAL | P65 | Boundary Perimeter 65 |
| 648586.9 | 4077430 | 1412288.292 | 175.13 | 0 | ANNUAL | P66 | Boundary Perimeter 66 |
| 649184.1 | 4077534 | 4791751.262 | 230.71 | 0 | ANNUAL | P7 | Boundary Perimeter 7 |
| 649284.1 | 4077535 | 2456695.425 | 248.08 | 0 | ANNUAL | P8 | Boundary Perimeter 8 |
| 649384.1 | 4077536 | 1725678.64 | 258.43 | 0 | ANNUAL | P9 | Boundary Perimeter 9 |
| 645930 | 4077983 | 132779.4821 | 127.38 | 0 | ANNUAL | RP_G1 | New Development |
| 645930 | 4078083 | 143830.6724 | 127.58 | 0 | ANNUAL | RP_G10 | New Development |
| 646030 | 4078083 | 153092.6869 | 130.56 | 0 | ANNUAL | RP_G11 | New Development |
| 646130 | 4078083 | 163370.1049 | 134.35 | 0 | ANNUAL | RP_G12 | New Development |
| 646230 | 4078083 | 174928.1775 | 139.22 | 0 | ANNUAL | RP_G13 | New Development |
| 646330 | 4078083 | 187972.6286 | 144.65 | 0 | ANNUAL | RP_G14 | New Development |
| 646430 | 4078083 | 200951.4617 | 142.28 | 0 | ANNUAL | RP_G15 | New Development |
| 646530 | 4078083 | 216555.7636 | 146.76 | 0 | ANNUAL | RP_G16 | New Development |
| 646630 | 4078083 | 233730.5494 | 150.64 | 0 | ANNUAL | RP_G17 | New Development |
| 646730 | 4078083 | 253226.9954 | 155.4 | 0 | ANNUAL | RP_G18 | New Development |
| 645930 | 4078183 | 153387.4179 | 127.22 | 0 | ANNUAL | RP_G19 | New Development |
| 646030 | 4077983 | 141753.0427 | 131.21 | 0 | ANNUAL | RP_G2 | New Development |
| 646030 | 4078183 | 163260.007 | 130.56 | 0 | ANNUAL | RP_G20 | New Development |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-----------------|
| 646130 | 4078183 | 174200.4774 | 133.89 | 0 | ANNUAL | RP_G21 | New Development |
| 646230 | 4078183 | 186759.6779 | 140.45 | 0 | ANNUAL | RP_G22 | New Development |
| 646330 | 4078183 | 200842.8458 | 146.94 | 0 | ANNUAL | RP_G23 | New Development |
| 646430 | 4078183 | 213379.62 | 140.23 | 0 | ANNUAL | RP_G24 | New Development |
| 646530 | 4078183 | 230029.4141 | 147.25 | 0 | ANNUAL | RP_G25 | New Development |
| 646630 | 4078183 | 248054.5612 | 151.56 | 0 | ANNUAL | RP_G26 | New Development |
| 646730 | 4078183 | 269254.9195 | 157.78 | 0 | ANNUAL | RP_G27 | New Development |
| 645930 | 4078283 | 161904.5398 | 126.06 | 0 | ANNUAL | RP_G28 | New Development |
| 646030 | 4078283 | 172424.0009 | 129.56 | 0 | ANNUAL | RP_G29 | New Development |
| 646130 | 4077983 | 151595.2917 | 135.89 | 0 | ANNUAL | RP_G3 | New Development |
| 646130 | 4078283 | 183891.5843 | 132.89 | 0 | ANNUAL | RP_G30 | New Development |
| 646230 | 4078283 | 196818.7001 | 139.24 | 0 | ANNUAL | RP_G31 | New Development |
| 646330 | 4078283 | 210513.417 | 142.68 | 0 | ANNUAL | RP_G32 | New Development |
| 646430 | 4078283 | 224240.1527 | 140.02 | 0 | ANNUAL | RP_G33 | New Development |
| 646530 | 4078283 | 241581.8607 | 147.22 | 0 | ANNUAL | RP_G34 | New Development |
| 646630 | 4078283 | 260379.455 | 151.56 | 0 | ANNUAL | RP_G35 | New Development |
| 646730 | 4078283 | 281845.234 | 156.78 | 0 | ANNUAL | RP_G36 | New Development |
| 646230 | 4077983 | 162269.621 | 139.18 | 0 | ANNUAL | RP_G4 | New Development |
| 646330 | 4077983 | 173832.499 | 140.76 | 0 | ANNUAL | RP_G5 | New Development |
| 646430 | 4077983 | 186882.2967 | 143.89 | 0 | ANNUAL | RP_G6 | New Development |
| 646530 | 4077983 | 201068.2685 | 145.22 | 0 | ANNUAL | RP_G7 | New Development |
| 646630 | 4077983 | 216899.6707 | 147.21 | 0 | ANNUAL | RP_G8 | New Development |
| 646730 | 4077983 | 234191.3964 | 148.3 | 0 | ANNUAL | RP_G9 | New Development |
| 648659.3 | 4077241 | 1482133.209 | 205.79 | 0 | ANNUAL | RP_H1 | House 1 |
| 648071.2 | 4076116 | 260589.8342 | 169.6 | 0 | ANNUAL | RP_H10 | House 10 |
| 648247.4 | 4076278 | 340879.978 | 184.55 | 0 | ANNUAL | RP_H11 | House 11 |
| 648027.2 | 4076255 | 277372.7144 | 169.38 | 0 | ANNUAL | RP_H12 | House 12 |
| 648065.8 | 4076359 | 302914.1745 | 173.83 | 0 | ANNUAL | RP_H13 | House 13 |
| 648138.7 | 4076400 | 328544.9172 | 178.22 | 0 | ANNUAL | RP_H14 | House 14 |
| 648254.7 | 4076411 | 379556.1642 | 191.28 | 0 | ANNUAL | RP_H15 | House 15 |
| 647877.8 | 4076365 | 265040.8925 | 165.39 | 0 | ANNUAL | RP_H16 | House 16 |
| 647520 | 4076206 | 201695.2039 | 159 | 0 | ANNUAL | RP_H17 | House 17 |

10/01/21

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* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL FOR A TOTAL OF 299 RECEPTORS.

FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-------------|
| 647921 | 4076247 | 256455.8962 | 164 | 0 | ANNUAL | RP_H18 | House 18 |
| 647708.8 | 4076352 | 237221.5232 | 163.52 | 0 | ANNUAL | RP_H19 | House 19 |
| 648371.7 | 4075470 | 244735.0973 | 173.69 | 0 | ANNUAL | RP_H2 | House 2 |
| 647703.6 | 4076251 | 226585.3746 | 162.17 | 0 | ANNUAL | RP_H20 | House 20 |
| 647718.8 | 4076104 | 206998.9958 | 159.35 | 0 | ANNUAL | RP_H21 | House 21 |
| 647843.3 | 4076125 | 225013.7591 | 163 | 0 | ANNUAL | RP_H22 | House 22 |
| 647842.3 | 4076500 | 267852.5001 | 167.93 | 0 | ANNUAL | RP_H23 | House 23 |
| 647727.8 | 4076644 | 236871.4053 | 164.15 | 0 | ANNUAL | RP_H24 | House 24 |
| 647823.9 | 4076644 | 258181.0368 | 168.29 | 0 | ANNUAL | RP_H25 | House 25 |
| 647530 | 4076497 | 206859.3847 | 159.56 | 0 | ANNUAL | RP_H26 | House 26 |
| 647810.1 | 4076854 | 252698.1952 | 162.9 | 0 | ANNUAL | RP_H27 | House 27 |
| 647697.5 | 4076989 | 230302.6951 | 161.42 | 0 | ANNUAL | RP_H28 | House 28 |
| 648225.5 | 4076182 | 313694.878 | 183.22 | 0 | ANNUAL | RP_H29 | House 29 |
| 647678.2 | 4075969 | 185101.7405 | 159.5 | 0 | ANNUAL | RP_H3 | House 3 |
| 645876.3 | 4077487 | 88150.7492 | 127.13 | 0 | ANNUAL | RP_H30 | House 30 |
| 650902 | 4076062 | 2484311.428 | 215.24 | 0 | ANNUAL | RP_H31 | House 31 |
| 651490 | 4076597 | 1487515.332 | 205.5 | 0 | ANNUAL | RP_H32 | House 32 |
| 651565 | 4077067 | 1016230.449 | 213.93 | 0 | ANNUAL | RP_H33 | House 33 |
| 648672.8 | 4075307 | 343694.627 | 225.91 | 0 | ANNUAL | RP_H34 | House 34 |
| 648383.6 | 4075469 | 246620.8272 | 174.44 | 0 | ANNUAL | RP_H35 | House 35 |
| 646379.4 | 4077233 | 98286.3442 | 146 | 0 | ANNUAL | RP_H36 | House 36 |
| 651849.7 | 4075865 | 1014935.514 | 201.97 | 0 | ANNUAL | RP_H37 | House 37 |
| 652045.5 | 4076210 | 845695.4111 | 196.88 | 0 | ANNUAL | RP_H38 | House 38 |
| 652255.7 | 4076391 | 683996.857 | 197.06 | 0 | ANNUAL | RP_H39 | House 39 |
| 647815.3 | 4075985 | 202420.6966 | 162.04 | 0 | ANNUAL | RP_H4 | House 4 |
| 646853.7 | 4077373 | 147330.4545 | 145.99 | 0 | ANNUAL | RP_H40 | House 40 |
| 647050.2 | 4077360 | 168431.1678 | 145 | 0 | ANNUAL | RP_H41 | House 41 |
| 647286.4 | 4077474 | 230414.0614 | 149.68 | 0 | ANNUAL | RP_H42 | House 42 |
| 647359.1 | 4077340 | 215621.6292 | 154.45 | 0 | ANNUAL | RP_H43 | House 43 |
| 647490.4 | 4077329 | 242850.5497 | 162.28 | 0 | ANNUAL | RP_H44 | House 44 |
| 647522.2 | 4077252 | 233620.5131 | 164.3 | 0 | ANNUAL | RP_H45 | House 45 |
| 647517.8 | 4077139 | 215750.6322 | 164.01 | 0 | ANNUAL | RP_H46 | House 46 |

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10/01/21

* AERMET (19191): Closure Area TAC Gnd 2019

11:05:30

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL FOR A TOTAL OF 299 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-------------|
| 646819 | 4077258 | 133470.5388 | 151.53 | 0 | ANNUAL | RP_H47 | House 47 |
| 646778.7 | 4077128 | 121492.1948 | 158.51 | 0 | ANNUAL | RP_H48 | House 48 |
| 646987.3 | 4077213 | 145595.1176 | 146.44 | 0 | ANNUAL | RP_H49 | House 49 |
| 647898.2 | 4076033 | 219059.4494 | 163.83 | 0 | ANNUAL | RP_H5 | House 5 |
| 647241.8 | 4077227 | 178783.4147 | 154.85 | 0 | ANNUAL | RP_H50 | House 50 |
| 646773.1 | 4077063 | 118177.2823 | 159 | 0 | ANNUAL | RP_H51 | House 51 |
| 647104.4 | 4077118 | 150865.9693 | 148.99 | 0 | ANNUAL | RP_H52 | House 52 |
| 647291.9 | 4077123 | 176082.9344 | 158.62 | 0 | ANNUAL | RP_H53 | House 53 |
| 646765.2 | 4076978 | 114876.411 | 158.67 | 0 | ANNUAL | RP_H54 | House 54 |
| 646995.7 | 4076984 | 130877.6688 | 152.34 | 0 | ANNUAL | RP_H55 | House 55 |
| 647317.2 | 4077031 | 169556.1742 | 160.22 | 0 | ANNUAL | RP_H56 | House 56 |
| 647398.4 | 4077013 | 178964.7724 | 161.26 | 0 | ANNUAL | RP_H57 | House 57 |
| 646978.9 | 4076904 | 128547.5096 | 156.81 | 0 | ANNUAL | RP_H58 | House 58 |
| 647015.2 | 4076807 | 135395.2633 | 156.21 | 0 | ANNUAL | RP_H59 | House 59 |
| 648045.4 | 4076018 | 241795.3402 | 168.26 | 0 | ANNUAL | RP_H6 | House 6 |
| 647164 | 4076802 | 150294.1751 | 154.38 | 0 | ANNUAL | RP_H60 | House 60 |
| 647310.6 | 4076940 | 161267.2599 | 162.49 | 0 | ANNUAL | RP_H61 | House 61 |
| 647298.1 | 4076805 | 166121.7519 | 158 | 0 | ANNUAL | RP_H62 | House 62 |
| 647446.6 | 4076900 | 178195.1392 | 159.45 | 0 | ANNUAL | RP_H63 | House 63 |
| 647464.5 | 4076781 | 192741.4037 | 159.32 | 0 | ANNUAL | RP_H64 | House 64 |
| 647512 | 4076536 | 200815.0798 | 159 | 0 | ANNUAL | RP_H65 | House 65 |
| 651131 | 4078767 | 180379.8381 | 179.58 | 0 | ANNUAL | RP_H66 | House 66 |
| 647131 | 4077336 | 176363.7857 | 146.77 | 0 | ANNUAL | RP_H67 | House 67 |
| 646798 | 4076740 | 121656.6509 | 156.07 | 0 | ANNUAL | RP_H68 | House 68 |
| 646900 | 4076802 | 126500.6866 | 159 | 0 | ANNUAL | RP_H69 | House 69 |
| 648126.3 | 4075955 | 250346.6712 | 171.51 | 0 | ANNUAL | RP_H7 | House 7 |
| 647317 | 4076662 | 178432.9208 | 159.9 | 0 | ANNUAL | RP_H70 | House 70 |
| 648249.3 | 4075970 | 283417.9564 | 183.42 | 0 | ANNUAL | RP_H8 | House 8 |
| 648218.6 | 4076109 | 298123.7515 | 182.28 | 0 | ANNUAL | RP_H9 | House 9 |

10/01/21

* AERMET (21112): Clousre Area Grnd 2020

11:01:12

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 299 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| conitoring Station cins Memorial Hospital Dunne Park a Park Hill Park as Brisas Park auer Memorial Park ns Memorial Park Park 6 Park 7 Vista Elem School |
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| dreas Continuation |
| thSide School |
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| o Santana School School 1 |
| uture School School 2 |
| nion Elementary School |
| lope Elem School |
| Montessori School |
| n Justo Middle School |
| Maze Middle School |
| ster Prep Schoo |
| e Elementary School |
| lls Elementary School |
| enito High School |
| enes De Antano |
| Workplace |
| rest Workplace MEIW |
| id Receptor 1 |
| d Receptor 10 |
| d Receptor 100 |
| d Receptor 11 |
| d Receptor 12 |
| |

10/01/21

* AERMET (21112): Clousre Area Grnd 2020

11:01:12

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 299 RECEPTORS.

| X | Y | Average Conc | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|--------------|-------|-------|--------|-----|------------------|
| 648144 | 4078373 | 1,207,906.53 | 146.2 | 0 | ANNUAL | G13 | Grid Receptor 13 |
| 648144 | 4077973 | 1,210,278.52 | 158.3 | 0 | ANNUAL | G14 | Grid Receptor 14 |
| 648144 | 4077573 | 989,999.46 | 166.6 | 0 | ANNUAL | G15 | Grid Receptor 15 |
| 648144 | 4077173 | 731,275.20 | 175.4 | 0 | ANNUAL | G16 | Grid Receptor 16 |
| 648144 | 4076773 | 542,311.84 | 177.1 | 0 | ANNUAL | G17 | Grid Receptor 17 |
| 648144 | 4076373 | 438,012.70 | 178 | 0 | ANNUAL | G18 | Grid Receptor 18 |
| 648144 | 4075973 | 359,467.90 | 173 | 0 | ANNUAL | G19 | Grid Receptor 19 |
| 647744 | 4078773 | 859,330.76 | 145.4 | 0 | ANNUAL | G2 | Grid Receptor 2 |
| 648144 | 4075573 | 291,833.35 | 168.8 | 0 | ANNUAL | G20 | Grid Receptor 20 |
| 648544 | 4079173 | 863,835.79 | 173.5 | 0 | ANNUAL | G21 | Grid Receptor 21 |
| 648544 | 4078773 | 1,193,249.72 | 166.2 | 0 | ANNUAL | G22 | Grid Receptor 22 |
| 648544 | 4078373 | 1,535,079.29 | 145.4 | 0 | ANNUAL | G23 | Grid Receptor 23 |
| 648544 | 4077973 | 1,890,498.26 | 173.9 | 0 | ANNUAL | G24 | Grid Receptor 24 |
| 648544 | 4077573 | 1,884,903.13 | 179.6 | 0 | ANNUAL | G25 | Grid Receptor 25 |
| 648544 | 4077173 | 1,368,522.18 | 191 | 0 | ANNUAL | G26 | Grid Receptor 26 |
| 648544 | 4076773 | 1,052,677.13 | 209.2 | 0 | ANNUAL | G27 | Grid Receptor 27 |
| 648544 | 4076373 | 785,015.33 | 233.7 | 0 | ANNUAL | G28 | Grid Receptor 28 |
| 648544 | 4075973 | 540,402.48 | 199.9 | 0 | ANNUAL | G29 | Grid Receptor 29 |
| 647744 | 4078373 | 867,979.84 | 144.4 | 0 | ANNUAL | G3 | Grid Receptor 3 |
| 648544 | 4075573 | 421,319.38 | 195.5 | 0 | ANNUAL | G30 | Grid Receptor 30 |
| 648944 | 4079173 | 830,432.92 | 190.4 | 0 | ANNUAL | G31 | Grid Receptor 31 |
| 648944 | 4078773 | 1,132,433.23 | 165.4 | 0 | ANNUAL | G32 | Grid Receptor 32 |
| 648944 | 4078373 | 1,718,531.94 | 159.6 | 0 | ANNUAL | G33 | Grid Receptor 33 |
| 648944 | 4077973 | 2,496,067.74 | 183.5 | 0 | ANNUAL | G34 | Grid Receptor 34 |
| 648944 | 4076773 | 2,028,439.87 | 193 | 0 | ANNUAL | G37 | Grid Receptor 37 |
| 648944 | 4076373 | 1,239,878.61 | 205 | 0 | ANNUAL | G38 | Grid Receptor 38 |
| 648944 | 4075973 | 886,292.46 | 208.8 | 0 | ANNUAL | G39 | Grid Receptor 39 |
| 647744 | 4077973 | 749,476.94 | 134.6 | 0 | ANNUAL | G4 | Grid Receptor 4 |
| 648944 | 4075573 | 542,110.37 | 185.6 | 0 | ANNUAL | G40 | Grid Receptor 40 |
| 649344 | 4079173 | 626,347.81 | 187.4 | 0 | ANNUAL | G41 | Grid Receptor 41 |
| 649344 | 4078773 | 927,392.86 | 160.9 | 0 | ANNUAL | G42 | Grid Receptor 42 |
| 649344 | 4078373 | 1,763,524.83 | 200.5 | 0 | ANNUAL | G43 | Grid Receptor 43 |

10/01/21

* AERMET (21112): Clousre Area Grnd 2020

11:01:12

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 299 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | Average Conc | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|---------------|-------|-------|--------|-----|------------------|
| 649344 | 4077973 | 3,566,624.81 | 229 | 0 | ANNUAL | G44 | Grid Receptor 44 |
| 649344 | 4075973 | 1,709,728.32 | 227.2 | 0 | ANNUAL | G49 | Grid Receptor 49 |
| 647744 | 4077573 | 613,669.78 | 163.8 | 0 | ANNUAL | G5 | Grid Receptor 5 |
| 649344 | 4075573 | 941,486.91 | 205.5 | 0 | ANNUAL | G50 | Grid Receptor 50 |
| 649744 | 4079173 | 447,170.30 | 176.1 | 0 | ANNUAL | G51 | Grid Receptor 51 |
| 649744 | 4078773 | 718,337.39 | 195 | 0 | ANNUAL | G52 | Grid Receptor 52 |
| 649744 | 4078373 | 1,216,248.85 | 196.1 | 0 | ANNUAL | G53 | Grid Receptor 53 |
| 649744 | 4077973 | 3,141,135.93 | 215.3 | 0 | ANNUAL | G54 | Grid Receptor 54 |
| 649744 | 4075973 | 2,468,261.92 | 237.7 | 0 | ANNUAL | G59 | Grid Receptor 59 |
| 647744 | 4077173 | 474,915.41 | 158.4 | 0 | ANNUAL | G6 | Grid Receptor 6 |
| 649744 | 4075573 | 1,462,955.68 | 204.2 | 0 | ANNUAL | G60 | Grid Receptor 60 |
| 650144 | 4079173 | 308,924.97 | 173 | 0 | ANNUAL | G61 | Grid Receptor 61 |
| 650144 | 4078773 | 430,362.84 | 171 | 0 | ANNUAL | G62 | Grid Receptor 62 |
| 650144 | 4078373 | 776,475.10 | 204.6 | 0 | ANNUAL | G63 | Grid Receptor 63 |
| 650144 | 4077973 | 1,747,916.83 | 216.5 | 0 | ANNUAL | G64 | Grid Receptor 64 |
| 650144 | 4076773 | 17,192,230.60 | 223.3 | 0 | ANNUAL | G67 | Grid Receptor 67 |
| 650144 | 4076373 | 6,450,903.59 | 231.4 | 0 | ANNUAL | G68 | Grid Receptor 68 |
| 650144 | 4075973 | 2,100,522.43 | 249.4 | 0 | ANNUAL | G69 | Grid Receptor 69 |
| 647744 | 4076773 | 360,271.89 | 164.7 | 0 | ANNUAL | G7 | Grid Receptor 7 |
| 650144 | 4075573 | 2,110,845.45 | 216.4 | 0 | ANNUAL | G70 | Grid Receptor 70 |
| 650544 | 4079173 | 223,397.49 | 177 | 0 | ANNUAL | G71 | Grid Receptor 71 |
| 650544 | 4078773 | 298,390.01 | 180.9 | 0 | ANNUAL | G72 | Grid Receptor 72 |
| 650544 | 4078373 | 458,549.40 | 196.6 | 0 | ANNUAL | G73 | Grid Receptor 73 |
| 650544 | 4077973 | 690,895.16 | 236.9 | 0 | ANNUAL | G74 | Grid Receptor 74 |
| 650544 | 4076773 | 12,834,231.20 | 234.2 | 0 | ANNUAL | G77 | Grid Receptor 77 |
| 650544 | 4076373 | 2,153,998.96 | 260.9 | 0 | ANNUAL | G78 | Grid Receptor 78 |
| 650544 | 4075973 | 3,444,477.52 | 226.7 | 0 | ANNUAL | G79 | Grid Receptor 79 |
| 647744 | 4076373 | 314,386.11 | 164 | 0 | ANNUAL | G8 | Grid Receptor 8 |
| 650544 | 4075573 | 911,413.58 | 268.2 | 0 | ANNUAL | G80 | Grid Receptor 80 |
| 650944 | 4079173 | 177,530.92 | 181.3 | 0 | ANNUAL | G81 | Grid Receptor 81 |
| 650944 | 4078773 | 227,171.90 | 178.4 | 0 | ANNUAL | G82 | Grid Receptor 82 |
| 650944 | 4078373 | 376,296.11 | 214.8 | 0 | ANNUAL | G83 | Grid Receptor 83 |

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10/01/21

* AERMET (21112): Clousre Area Grnd 2020

11:01:12

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 299 RECEPTORS.

| X | Y | Average Conc | ZELEV | ZFLAG | AVE | ID | Description |
|-----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| 650944 | 4077973 | 219,666.07 | 249.9 | 0 | ANNUAL | G84 | Grid Receptor 84 |
| 650944 | 4077573 | 175,033.93 | 276.5 | 0 | ANNUAL | G85 | Grid Receptor 85 |
| 650944 | 4077173 | 2,701,719.53 | 225.6 | 0 | ANNUAL | G86 | Grid Receptor 86 |
| 650944 | 4076773 | 4,985,347.67 | 219.8 | 0 | ANNUAL | G87 | Grid Receptor 87 |
| 650944 | 4076373 | 3,747,800.46 | 209.2 | 0 | ANNUAL | G88 | Grid Receptor 88 |
| 650944 | 4075973 | 2,826,672.66 | 216.6 | 0 | ANNUAL | G89 | Grid Receptor 89 |
| 647744 | 4075973 | 278,811.35 | 160.7 | 0 | ANNUAL | G9 | Grid Receptor 9 |
| 650944 | 4075573 | 1,721,102.08 | 243.2 | 0 | ANNUAL | G90 | Grid Receptor 90 |
| 651344 | 4079173 | 165,696.99 | 191 | 0 | ANNUAL | G91 | Grid Receptor 91 |
| 651344 | 4078773 | 189,985.68 | 181 | 0 | ANNUAL | G92 | Grid Receptor 92 |
| 651344 | 4078373 | 256,276.75 | 214.3 | 0 | ANNUAL | G93 | Grid Receptor 93 |
| 651344 | 4077973 | 202,964.05 | 248.4 | 0 | ANNUAL | G94 | Grid Receptor 94 |
| 651344 | 4077573 | 645,381.77 | 213.2 | 0 | ANNUAL | G95 | Grid Receptor 95 |
| 651344 | 4077173 | 1,359,154.22 | 213.6 | 0 | ANNUAL | G96 | Grid Receptor 96 |
| 651344 | 4076773 | 1,849,057.84 | 203.5 | 0 | ANNUAL | G97 | Grid Receptor 97 |
| 651344 | 4076373 | 2,099,665.66 | 205.6 | 0 | ANNUAL | G98 | Grid Receptor 98 |
| 651344 | 4075973 | 1,946,337.19 | 205.8 | 0 | ANNUAL | G99 | Grid Receptor 99 |
| 648584.24 | 4077523 | 1,987,525.21 | 183.61 | 0 | ANNUAL | P1 | Boundary Perimeter 1 |
| 649484.05 | 4077537 | 1,989,423.27 | 254.01 | 0 | ANNUAL | P10 | Boundary Perimeter 10 |
| 649584.03 | 4077539 | 5,527,270.98 | 235.3 | 0 | ANNUAL | P11 | Boundary Perimeter 11 |
| 649684.02 | 4077540 | 8,744,221.32 | 221.29 | 0 | ANNUAL | P12 | Boundary Perimeter 12 |
| 649784 | 4077541 | 9,698,859.56 | 222.37 | 0 | ANNUAL | P13 | Boundary Perimeter 13 |
| 649883.99 | 4077542 | 6,911,949.18 | 233.6 | 0 | ANNUAL | P14 | Boundary Perimeter 14 |
| 649983.97 | 4077543 | 2,783,253.95 | 249.54 | 0 | ANNUAL | P15 | Boundary Perimeter 15 |
| 650083.94 | 4077546 | 1,820,155.97 | 258.89 | 0 | ANNUAL | P16 | Boundary Perimeter 16 |
| 650183.91 | 4077548 | 1,486,971.10 | 259.56 | 0 | ANNUAL | P17 | Boundary Perimeter 17 |
| 650283.87 | 4077550 | 1,008,146.07 | 256.77 | 0 | ANNUAL | P18 | Boundary Perimeter 18 |
| 650383.84 | 4077552 | 1,455,878.22 | 242.37 | 0 | ANNUAL | P19 | Boundary Perimeter 19 |
| 648684.22 | 4077525 | 2,498,380.83 | 197.16 | 0 | ANNUAL | P2 | Boundary Perimeter 2 |
| 650483.81 | 4077554 | 1,105,736.71 | 242.23 | 0 | ANNUAL | P20 | Boundary Perimeter 20 |
| 650583.78 | 4077557 | 364,545.30 | 259.71 | 0 | ANNUAL | P21 | Boundary Perimeter 21 |
| 650683.75 | 4077559 | 360,244.09 | 257.58 | 0 | ANNUAL | P22 | Boundary Perimeter 22 |

10/01/21

* AERMET (21112): Clousre Area Grnd 2020

11:01:12

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 299 RECEPTORS.

| X | Y | Average Conc | ZELEV | ZFLAG | AVE | ID | Description |
|-----------|---------|---------------|--------|-------|--------|-----|-----------------------|
| 650776.81 | 4077554 | 242,612.12 | 267.9 | 0 | ANNUAL | P23 | Boundary Perimeter 23 |
| 650778.91 | 4077454 | 286,895.27 | 275.91 | 0 | ANNUAL | P24 | Boundary Perimeter 24 |
| 650781 | 4077354 | 531,519.18 | 265.73 | 0 | ANNUAL | P25 | Boundary Perimeter 25 |
| 650783.1 | 4077254 | 1,228,588.91 | 251.08 | 0 | ANNUAL | P26 | Boundary Perimeter 26 |
| 650785.19 | 4077154 | 1,743,168.62 | 252.83 | 0 | ANNUAL | P27 | Boundary Perimeter 27 |
| 650787.29 | 4077054 | 3,096,128.02 | 246.1 | 0 | ANNUAL | P28 | Boundary Perimeter 28 |
| 650789.38 | 4076954 | 4,464,631.85 | 241.37 | 0 | ANNUAL | P29 | Boundary Perimeter 29 |
| 648784.19 | 4077527 | 3,411,275.25 | 209.74 | 0 | ANNUAL | Р3 | Boundary Perimeter 3 |
| 650791.48 | 4076854 | 4,161,244.47 | 246.79 | 0 | ANNUAL | P30 | Boundary Perimeter 30 |
| 650793.57 | 4076754 | 7,694,512.76 | 228.75 | 0 | ANNUAL | P31 | Boundary Perimeter 31 |
| 650754.39 | 4076683 | 8,060,798.21 | 217.76 | 0 | ANNUAL | P32 | Boundary Perimeter 32 |
| 650660.22 | 4076650 | 9,190,421.79 | 221.2 | 0 | ANNUAL | P33 | Boundary Perimeter 33 |
| 650561.43 | 4076650 | 10,199,555.62 | 220.83 | 0 | ANNUAL | P34 | Boundary Perimeter 34 |
| 650462.72 | 4076666 | 11,275,274.61 | 223.42 | 0 | ANNUAL | P35 | Boundary Perimeter 35 |
| 650364.01 | 4076682 | 12,026,272.82 | 222.46 | 0 | ANNUAL | P36 | Boundary Perimeter 36 |
| 650264.24 | 4076683 | 11,902,236.07 | 223.19 | 0 | ANNUAL | P37 | Boundary Perimeter 37 |
| 650164.71 | 4076674 | 12,095,427.00 | 222.1 | 0 | ANNUAL | P38 | Boundary Perimeter 38 |
| 650065.8 | 4076660 | 12,454,643.43 | 217.03 | 0 | ANNUAL | P39 | Boundary Perimeter 39 |
| 648884.17 | 4077529 | 4,320,173.53 | 214.25 | 0 | ANNUAL | P4 | Boundary Perimeter 4 |
| 649980.44 | 4076627 | 12,924,632.15 | 214.82 | 0 | ANNUAL | P40 | Boundary Perimeter 40 |
| 649920.26 | 4076547 | 12,877,651.74 | 214.91 | 0 | ANNUAL | P41 | Boundary Perimeter 41 |
| 649852.19 | 4076474 | 11,921,386.45 | 214.09 | 0 | ANNUAL | P42 | Boundary Perimeter 42 |
| 649770.68 | 4076417 | 10,165,198.26 | 211.53 | 0 | ANNUAL | P43 | Boundary Perimeter 43 |
| 649680.48 | 4076375 | 8,504,673.59 | 210.17 | 0 | ANNUAL | P44 | Boundary Perimeter 44 |
| 649580.91 | 4076368 | 6,847,829.02 | 208.52 | 0 | ANNUAL | P45 | Boundary Perimeter 45 |
| 649482.48 | 4076384 | 5,462,054.46 | 207.5 | 0 | ANNUAL | P46 | Boundary Perimeter 46 |
| 649391.59 | 4076425 | 4,726,608.52 | 205.17 | 0 | ANNUAL | P47 | Boundary Perimeter 47 |
| 649303.5 | 4076472 | 3,831,007.29 | 202.16 | 0 | ANNUAL | P48 | Boundary Perimeter 48 |
| 649226.19 | 4076535 | 3,244,954.55 | 196.38 | 0 | ANNUAL | P49 | Boundary Perimeter 49 |
| 648984.14 | 4077530 | 5,327,919.24 | 221.41 | 0 | ANNUAL | P5 | Boundary Perimeter 5 |
| 649156.2 | 4076605 | 2,940,993.41 | 195.87 | 0 | ANNUAL | P50 | Boundary Perimeter 50 |
| 649068.25 | 4076653 | 2,371,667.49 | 196.32 | 0 | ANNUAL | P51 | Boundary Perimeter 51 |

10/01/21

* AERMET (21112): Clousre Area Grnd 2020

11:01:12

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 299 RECEPTORS.

| X | Y | Average Conc | ZELEV | ZFLAG | AVE | ID | Description |
|-----------|---------|--------------|--------|-------|--------|--------|-----------------------|
| 648986.7 | 4076711 | 2,056,419.95 | 192.42 | 0 | ANNUAL | P52 | Boundary Perimeter 52 |
| 648936.53 | 4076759 | 1,937,429.40 | 192.46 | 0 | ANNUAL | P53 | Boundary Perimeter 53 |
| 648868.58 | 4076833 | 1,817,245.61 | 191.63 | 0 | ANNUAL | P54 | Boundary Perimeter 54 |
| 648797.23 | 4076902 | 1,682,975.07 | 186.32 | 0 | ANNUAL | P55 | Boundary Perimeter 55 |
| 648710.56 | 4076952 | 1,471,608.55 | 179.81 | 0 | ANNUAL | P56 | Boundary Perimeter 56 |
| 648620.79 | 4076996 | 1,280,745.56 | 176.23 | 0 | ANNUAL | P57 | Boundary Perimeter 57 |
| 648607.19 | 4077051 | 1,313,753.29 | 175.02 | 0 | ANNUAL | P58 | Boundary Perimeter 58 |
| 648680.07 | 4077119 | 1,667,535.57 | 180.62 | 0 | ANNUAL | P59 | Boundary Perimeter 59 |
| 649084.12 | 4077532 | 5,671,639.61 | 216.54 | 0 | ANNUAL | P6 | Boundary Perimeter 6 |
| 648759.24 | 4077180 | 2,205,057.48 | 183.47 | 0 | ANNUAL | P60 | Boundary Perimeter 60 |
| 648791.44 | 4077262 | 2,774,868.83 | 202.88 | 0 | ANNUAL | P61 | Boundary Perimeter 61 |
| 648788.45 | 4077362 | 2,761,394.04 | 178.21 | 0 | ANNUAL | P62 | Boundary Perimeter 62 |
| 648691.25 | 4077361 | 2,223,196.25 | 176.25 | 0 | ANNUAL | P63 | Boundary Perimeter 63 |
| 648591.35 | 4077357 | 1,800,416.89 | 176 | 0 | ANNUAL | P64 | Boundary Perimeter 64 |
| 648525.69 | 4077371 | 1,597,125.10 | 175.24 | 0 | ANNUAL | P65 | Boundary Perimeter 65 |
| 648586.93 | 4077430 | 1,886,392.57 | 175.13 | 0 | ANNUAL | P66 | Boundary Perimeter 66 |
| 649184.09 | 4077534 | 5,681,239.69 | 230.71 | 0 | ANNUAL | P7 | Boundary Perimeter 7 |
| 649284.08 | 4077535 | 2,525,425.98 | 248.08 | 0 | ANNUAL | P8 | Boundary Perimeter 8 |
| 649384.06 | 4077536 | 1,613,987.64 | 258.43 | 0 | ANNUAL | P9 | Boundary Perimeter 9 |
| 645930 | 4077983 | 196,807.77 | 127.38 | 0 | ANNUAL | RP_G1 | New Development |
| 645930 | 4078083 | 205,239.23 | 127.58 | 0 | ANNUAL | RP_G10 | New Development |
| 646030 | 4078083 | 216,526.81 | 130.56 | 0 | ANNUAL | RP_G11 | New Development |
| 646130 | 4078083 | 228,787.33 | 134.35 | 0 | ANNUAL | RP_G12 | New Development |
| 646230 | 4078083 | 242,345.77 | 139.22 | 0 | ANNUAL | RP_G13 | New Development |
| 646330 | 4078083 | 257,527.72 | 144.65 | 0 | ANNUAL | RP_G14 | New Development |
| 646430 | 4078083 | 273,055.12 | 142.28 | 0 | ANNUAL | RP_G15 | New Development |
| 646530 | 4078083 | 291,337.52 | 146.76 | 0 | ANNUAL | RP_G16 | New Development |
| 646630 | 4078083 | 311,316.79 | 150.64 | 0 | ANNUAL | RP_G17 | New Development |
| 646730 | 4078083 | 333,496.04 | 155.4 | 0 | ANNUAL | RP_G18 | New Development |
| 645930 | 4078183 | 212,387.46 | 127.22 | 0 | ANNUAL | RP_G19 | New Development |
| 646030 | 4077983 | 207,928.22 | 131.21 | 0 | ANNUAL | RP_G2 | New Development |
| 646030 | 4078183 | 223,833.38 | 130.56 | 0 | ANNUAL | RP G20 | New Development |

10/01/21

* AERMET (21112): Clousre Area Grnd 2020

11:01:12

- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 299 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | Average Conc | ZELEV | ZFLAG | AVE | ID | Description |
|-----------|---------|--------------|--------|-------|--------|--------|-----------------|
| 646130 | 4078183 | 236,460.76 | 133.89 | 0 | ANNUAL | RP_G21 | New Development |
| 646230 | 4078183 | 250,883.63 | 140.45 | 0 | ANNUAL | RP_G22 | New Development |
| 646330 | 4078183 | 267,100.86 | 146.94 | 0 | ANNUAL | RP_G23 | New Development |
| 646430 | 4078183 | 282,318.94 | 140.23 | 0 | ANNUAL | RP_G24 | New Development |
| 646530 | 4078183 | 301,309.22 | 147.25 | 0 | ANNUAL | RP_G25 | New Development |
| 646630 | 4078183 | 321,638.73 | 151.56 | 0 | ANNUAL | RP_G26 | New Development |
| 646730 | 4078183 | 345,077.90 | 157.78 | 0 | ANNUAL | RP_G27 | New Development |
| 645930 | 4078283 | 218,299.90 | 126.06 | 0 | ANNUAL | RP_G28 | New Development |
| 646030 | 4078283 | 230,371.23 | 129.56 | 0 | ANNUAL | RP_G29 | New Development |
| 646130 | 4077983 | 220,071.55 | 135.89 | 0 | ANNUAL | RP_G3 | New Development |
| 646130 | 4078283 | 243,708.94 | 132.89 | 0 | ANNUAL | RP_G30 | New Development |
| 646230 | 4078283 | 258,685.40 | 139.24 | 0 | ANNUAL | RP_G31 | New Development |
| 646330 | 4078283 | 274,569.19 | 142.68 | 0 | ANNUAL | RP_G32 | New Development |
| 646430 | 4078283 | 290,610.91 | 140.02 | 0 | ANNUAL | RP_G33 | New Development |
| 646530 | 4078283 | 309,834.77 | 147.22 | 0 | ANNUAL | RP_G34 | New Development |
| 646630 | 4078283 | 330,761.27 | 151.56 | 0 | ANNUAL | RP_G35 | New Development |
| 646730 | 4078283 | 354,873.35 | 156.78 | 0 | ANNUAL | RP_G36 | New Development |
| 646230 | 4077983 | 233,140.73 | 139.18 | 0 | ANNUAL | RP_G4 | New Development |
| 646330 | 4077983 | 247,189.74 | 140.76 | 0 | ANNUAL | RP_G5 | New Development |
| 646430 | 4077983 | 262,855.13 | 143.89 | 0 | ANNUAL | RP_G6 | New Development |
| 646530 | 4077983 | 279,949.18 | 145.22 | 0 | ANNUAL | RP_G7 | New Development |
| 646630 | 4077983 | 299,021.98 | 147.21 | 0 | ANNUAL | RP_G8 | New Development |
| 646730 | 4077983 | 319,849.96 | 148.3 | 0 | ANNUAL | RP_G9 | New Development |
| 648659.32 | 4077241 | 2,082,634.70 | 205.79 | 0 | ANNUAL | RP_H1 | House 1 |
| 648071.24 | 4076116 | 374,743.75 | 169.6 | 0 | ANNUAL | RP_H10 | House 10 |
| 648247.37 | 4076278 | 471,648.59 | 184.55 | 0 | ANNUAL | RP_H11 | House 11 |
| 648027.19 | 4076255 | 378,701.82 | 169.38 | 0 | ANNUAL | RP_H12 | House 12 |
| 648065.77 | 4076359 | 405,422.39 | 173.83 | 0 | ANNUAL | RP_H13 | House 13 |
| 648138.68 | 4076400 | 440,909.50 | 178.22 | 0 | ANNUAL | RP_H14 | House 14 |
| 648254.71 | 4076411 | 510,756.78 | 191.28 | 0 | ANNUAL | RP_H15 | House 15 |
| 647877.81 | 4076365 | 347,362.75 | 165.39 | 0 | ANNUAL | RP_H16 | House 16 |
| 647520 | 4076206 | 259,910.99 | 159 | 0 | ANNUAL | RP_H17 | House 17 |

10/01/21

* AERMET (21112): Clousre Area Grnd 2020

11:01:12

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 299 RECEPTORS.

| | (,,- (- | , /,- (,/, | ,, | ,, | , | | | |
|-----------|---------|--------------|--------|-------|--------|--------|-------------|------|
| X | Y | Average Conc | ZELEV | ZFLAG | AVE | ID | Description | |
| 647921 | 4076247 | 346,703.25 | 164 | 0 | ANNUAL | RP_H18 | House 18 | |
| 647708.78 | 4076352 | 304,539.94 | 163.52 | 0 | ANNUAL | RP_H19 | House 19 | |
| 648371.71 | 4075470 | 322,875.53 | 173.69 | 0 | ANNUAL | RP_H2 | House 2 | |
| 647703.58 | 4076251 | 296,300.49 | 162.17 | 0 | ANNUAL | RP_H20 | House 20 | |
| 647718.77 | 4076104 | 291,652.71 | 159.35 | 0 | ANNUAL | RP_H21 | House 21 | |
| 647843.32 | 4076125 | 318,636.79 | 163 | 0 | ANNUAL | RP_H22 | House 22 | |
| 647842.26 | 4076500 | 353,034.75 | 167.93 | 0 | ANNUAL | RP_H23 | House 23 | |
| 647727.75 | 4076644 | 346,198.03 | 164.15 | 0 | ANNUAL | RP_H24 | House 24 | |
| 647823.91 | 4076644 | 375,487.84 | 168.29 | 0 | ANNUAL | RP_H25 | House 25 | |
| 647530 | 4076497 | 279,763.60 | 159.56 | 0 | ANNUAL | RP_H26 | House 26 | |
| 647810.11 | 4076854 | 390,525.44 | 162.9 | 0 | ANNUAL | RP_H27 | House 27 | |
| 647697.48 | 4076989 | 400,523.49 | 161.42 | 0 | ANNUAL | RP_H28 | House 28 | |
| 648225.5 | 4076182 | 443,744.33 | 183.22 | 0 | ANNUAL | RP_H29 | House 29 | |
| 647678.23 | 4075969 | 268,410.56 | 159.5 | 0 | ANNUAL | RP_H3 | House 3 | |
| 645876.32 | 4077487 | 165,942.13 | 127.13 | 0 | ANNUAL | RP_H30 | House 30 | |
| 650902 | 4076062 | 3,116,867.85 | 215.24 | 0 | ANNUAL | RP_H31 | | MEIR |
| 651490 | 4076597 | 1,652,866.74 | 205.5 | 0 | ANNUAL | RP_H32 | House 32 | |
| 651565 | 4077067 | 1,189,837.91 | 213.93 | 0 | ANNUAL | RP_H33 | House 33 | |
| 648672.77 | 4075307 | 475,952.27 | 225.91 | 0 | ANNUAL | RP_H34 | House 34 | |
| 648383.6 | 4075469 | 325,604.86 | 174.44 | 0 | ANNUAL | RP_H35 | House 35 | |
| 646379.37 | 4077233 | 187,816.18 | 146 | 0 | ANNUAL | RP_H36 | House 36 | |
| 651849.72 | 4075865 | 1,171,402.74 | 201.97 | 0 | ANNUAL | RP_H37 | House 37 | |
| 652045.49 | 4076210 | 941,031.59 | 196.88 | 0 | ANNUAL | RP_H38 | House 38 | |
| 652255.69 | 4076391 | 749,384.23 | 197.06 | 0 | ANNUAL | RP_H39 | House 39 | |
| 647815.25 | 4075985 | 292,813.92 | 162.04 | 0 | ANNUAL | RP_H4 | House 4 | |
| 646853.73 | 4077373 | 269,753.81 | 145.99 | 0 | ANNUAL | RP_H40 | House 40 | |
| 647050.21 | 4077360 | 304,075.40 | 145 | 0 | ANNUAL | RP_H41 | House 41 | |
| 647286.42 | 4077474 | 377,509.16 | 149.68 | 0 | ANNUAL | RP_H42 | House 42 | |
| 647359.05 | 4077340 | 375,871.11 | 154.45 | 0 | ANNUAL | RP_H43 | House 43 | |
| 647490.41 | 4077329 | 415,942.87 | 162.28 | 0 | ANNUAL | RP_H44 | House 44 | |
| 647522.17 | 4077252 | 410,055.27 | 164.3 | 0 | ANNUAL | RP_H45 | House 45 | |
| 647517.82 | 4077139 | 384,609.41 | 164.01 | 0 | ANNUAL | RP_H46 | House 46 | |

10/01/21

* AERMET (21112): Clousre Area Grnd 2020

11:01:12

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 299 RECEPTORS.

| X | Y | Average Conc | ZELEV | ZFLAG | AVE | ID | Description |
|-----------|---------|--------------|--------|-------|--------|--------|-------------|
| 646819.01 | 4077258 | 246,810.25 | 151.53 | 0 | ANNUAL | RP_H47 | House 47 |
| 646778.72 | 4077128 | 226,581.99 | 158.51 | 0 | ANNUAL | RP_H48 | House 48 |
| 646987.26 | 4077213 | 267,508.02 | 146.44 | 0 | ANNUAL | RP_H49 | House 49 |
| 647898.2 | 4076033 | 317,224.80 | 163.83 | 0 | ANNUAL | RP_H5 | House 5 |
| 647241.77 | 4077227 | 323,987.04 | 154.85 | 0 | ANNUAL | RP_H50 | House 50 |
| 646773.05 | 4077063 | 222,123.73 | 159 | 0 | ANNUAL | RP_H51 | House 51 |
| 647104.37 | 4077118 | 276,300.31 | 148.99 | 0 | ANNUAL | RP_H52 | House 52 |
| 647291.9 | 4077123 | 318,296.75 | 158.62 | 0 | ANNUAL | RP_H53 | House 53 |
| 646765.24 | 4076978 | 216,104.56 | 158.67 | 0 | ANNUAL | RP_H54 | House 54 |
| 646995.65 | 4076984 | 245,286.31 | 152.34 | 0 | ANNUAL | RP_H55 | House 55 |
| 647317.21 | 4077031 | 309,258.08 | 160.22 | 0 | ANNUAL | RP_H56 | House 56 |
| 647398.39 | 4077013 | 324,274.36 | 161.26 | 0 | ANNUAL | RP_H57 | House 57 |
| 646978.93 | 4076904 | 233,441.20 | 156.81 | 0 | ANNUAL | RP_H58 | House 58 |
| 647015.19 | 4076807 | 222,377.33 | 156.21 | 0 | ANNUAL | RP_H59 | House 59 |
| 648045.44 | 4076018 | 346,171.54 | 168.26 | 0 | ANNUAL | RP_H6 | House 6 |
| 647163.96 | 4076802 | 239,871.90 | 154.38 | 0 | ANNUAL | RP_H60 | House 60 |
| 647310.58 | 4076940 | 291,075.89 | 162.49 | 0 | ANNUAL | RP_H61 | House 61 |
| 647298.09 | 4076805 | 260,291.97 | 158 | 0 | ANNUAL | RP_H62 | House 62 |
| 647446.56 | 4076900 | 307,133.56 | 159.45 | 0 | ANNUAL | RP_H63 | House 63 |
| 647464.49 | 4076781 | 286,139.67 | 159.32 | 0 | ANNUAL | RP_H64 | House 64 |
| 647512 | 4076536 | 280,579.00 | 159 | 0 | ANNUAL | RP_H65 | House 65 |
| 651131 | 4078767 | 209,125.25 | 179.58 | 0 | ANNUAL | RP_H66 | House 66 |
| 647131 | 4077336 | 317,581.14 | 146.77 | 0 | ANNUAL | RP_H67 | House 67 |
| 646798 | 4076740 | 190,413.49 | 156.07 | 0 | ANNUAL | RP_H68 | House 68 |
| 646900 | 4076802 | 209,385.71 | 159 | 0 | ANNUAL | RP_H69 | House 69 |
| 648126.33 | 4075955 | 350,521.99 | 171.51 | 0 | ANNUAL | RP_H7 | House 7 |
| 647317 | 4076662 | 248,097.28 | 159.9 | 0 | ANNUAL | RP_H70 | House 70 |
| 648249.26 | 4075970 | 394,034.69 | 183.42 | 0 | ANNUAL | RP_H8 | House 8 |
| 648218.58 | 4076109 | 422,493.59 | 182.28 | 0 | ANNUAL | RP_H9 | House 9 |

10/01/21

* AERMET (21112): 2018

12:16:51

- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 294 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description | |
|----------|---------|--------------|--------|-------|--------|----------|---------------------------------|----------|
| 645996 | 4078698 | 0.00083 | 123.85 | 0 | ANNUAL | AQ_ST_1 | AQ Monitoring Station | |
| 643903.7 | 4077719 | 0.00061 | 105.68 | 0 | ANNUAL | CR_HP_1 | Hazel Hawkins Memorial Hospital | |
| 642056.8 | 4079416 | 0.00064 | 85.12 | 0 | ANNUAL | CR_PK_1 | Dunne Park | |
| 642179.1 | 4079950 | 0.00062 | 117.99 | 0 | ANNUAL | CR_PK_2 | Vista Park Hill Park | |
| 644733.1 | 4078753 | 0.00078 | 106.44 | 0 | ANNUAL | CR_PK_3 | Las Brisas Park | |
| 645608.8 | 4078854 | 0.00078 | 112.86 | 0 | ANNUAL | CR_PK_4 | Frank Klauer Memorial Park | |
| 644238.1 | 4078807 | 0.00076 | 95.25 | 0 | ANNUAL | CR_PK_5 | Veterans Memorial Park | |
| 645311.5 | 4076559 | 0.00039 | 134.61 | 0 | ANNUAL | CR_PK_6 | Park 6 | |
| 649581.7 | 4073424 | 0.00047 | 159.96 | 0 | ANNUAL | CR_PK_7 | Park 7 | |
| 645145.1 | 4077181 | 0.00056 | 133 | 0 | ANNUAL | CR_SC_1 | Cerra Vista Elem School | |
| 642904.7 | 4079955 | 0.0006 | 86 | 0 | ANNUAL | CR_SC_10 | San Andreas Continuation | |
| 645850.7 | 4074015 | 0.0001 | 123 | 0 | ANNUAL | CR_SC_11 | SouthSide School | |
| 642105.7 | 4078176 | 0.00055 | 91 | 0 | ANNUAL | CR_SC_12 | School 12 | |
| 646058.9 | 4078443 | 0.00086 | 128.52 | 0 | ANNUAL | CR_SC_13 | Rancho Santana School | School 1 |
| 647269 | 4075575 | 0.00016 | 158 | 0 | ANNUAL | CR_SC_14 | Future School | School 2 |
| 644109.6 | 4078389 | 0.00077 | 98.2 | 0 | ANNUAL | CR_SC_2 | Sunnyslope Elem School | |
| 643920.1 | 4077304 | 0.00048 | 101.23 | 0 | ANNUAL | CR_SC_3 | Hollister Montessori School | |
| 642961.1 | 4078621 | 0.00068 | 92 | 0 | ANNUAL | CR_SC_4 | Rancho San Justo Middle School | |
| 643980 | 4079743 | 0.00063 | 88 | 0 | ANNUAL | CR_SC_5 | Marguerite Maze Middle School | |
| 641630.2 | 4079153 | 0.00061 | 85 | 0 | ANNUAL | CR_SC_6 | Hollister Prep Schoo | |
| 643350 | 4077181 | 0.00042 | 98.22 | 0 | ANNUAL | CR_SC_7 | Ladd Lane Elementary School | |
| 644003 | 4080079 | 0.00063 | 87 | 0 | ANNUAL | CR_SC_8 | Gabilan Hills Elementary School | |
| 642244.9 | 4078413 | 0.0006 | 90.17 | 0 | ANNUAL | CR_SC_9 | San Benito High School | |
| 642083.4 | 4079794 | 0.00063 | 87.58 | 0 | ANNUAL | CR_SR_1 | Jovenes De Antano | |
| 646402 | 4076879 | 0.00061 | 146.33 | 0 | ANNUAL | CR_WP_1 | Workplace | MEIW |
| 648949 | 4077938 | 0.00042 | 189.45 | 0 | ANNUAL | CR_WP_2 | Nearest Workplace | |
| 647744 | 4079173 | 0.00063 | 155.2 | 0 | ANNUAL | G1 | Grid Receptor 1 | |
| 647744 | 4075573 | 0.00016 | 160 | 0 | ANNUAL | G10 | Grid Receptor 10 | |
| 651344 | 4075573 | 0.00431 | 252.9 | 0 | ANNUAL | G100 | Grid Receptor 100 | |
| 648144 | 4079173 | 0.00042 | 165.9 | 0 | ANNUAL | G11 | Grid Receptor 11 | |
| 648144 | 4078773 | 0.00058 | 159.6 | 0 | ANNUAL | G12 | Grid Receptor 12 | |
| 648144 | 4078373 | 0.00084 | 146.2 | 0 | ANNUAL | G13 | Grid Receptor 13 | |

10/01/21

* AERMET (21112): 2018

12:16:51

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 294 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|--------------|-------|-------|--------|-----|------------------|
| 648144 | 4077973 | 0.00123 | 158.3 | 0 | ANNUAL | G14 | Grid Receptor 14 |
| 648144 | 4077573 | 0.00153 | 166.6 | 0 | ANNUAL | G15 | Grid Receptor 15 |
| 648144 | 4077173 | 0.00199 | 175.4 | 0 | ANNUAL | G16 | Grid Receptor 16 |
| 648144 | 4076773 | 0.00163 | 177.1 | 0 | ANNUAL | G17 | Grid Receptor 17 |
| 648144 | 4076373 | 0.00054 | 178 | 0 | ANNUAL | G18 | Grid Receptor 18 |
| 648144 | 4075973 | 0.00026 | 173 | 0 | ANNUAL | G19 | Grid Receptor 19 |
| 647744 | 4078773 | 0.00082 | 145.4 | 0 | ANNUAL | G2 | Grid Receptor 2 |
| 648144 | 4075573 | 0.00019 | 168.8 | 0 | ANNUAL | G20 | Grid Receptor 20 |
| 648544 | 4079173 | 0.00027 | 173.5 | 0 | ANNUAL | G21 | Grid Receptor 21 |
| 648544 | 4078773 | 0.00034 | 166.2 | 0 | ANNUAL | G22 | Grid Receptor 22 |
| 648544 | 4078373 | 0.00048 | 145.4 | 0 | ANNUAL | G23 | Grid Receptor 23 |
| 648544 | 4077973 | 0.00086 | 173.9 | 0 | ANNUAL | G24 | Grid Receptor 24 |
| 648544 | 4077573 | 0.00161 | 179.6 | 0 | ANNUAL | G25 | Grid Receptor 25 |
| 648544 | 4077173 | 0.00242 | 191 | 0 | ANNUAL | G26 | Grid Receptor 26 |
| 648544 | 4076773 | 0.00357 | 209.2 | 0 | ANNUAL | G27 | Grid Receptor 27 |
| 648544 | 4076373 | 0.001 | 233.7 | 0 | ANNUAL | G28 | Grid Receptor 28 |
| 648544 | 4075973 | 0.00033 | 199.9 | 0 | ANNUAL | G29 | Grid Receptor 29 |
| 647744 | 4078373 | 0.00105 | 144.4 | 0 | ANNUAL | G3 | Grid Receptor 3 |
| 648544 | 4075573 | 0.00025 | 195.5 | 0 | ANNUAL | G30 | Grid Receptor 30 |
| 648944 | 4079173 | 0.00021 | 190.4 | 0 | ANNUAL | G31 | Grid Receptor 31 |
| 648944 | 4078773 | 0.00023 | 165.4 | 0 | ANNUAL | G32 | Grid Receptor 32 |
| 648944 | 4078373 | 0.00027 | 159.6 | 0 | ANNUAL | G33 | Grid Receptor 33 |
| 648944 | 4077973 | 0.0004 | 183.5 | 0 | ANNUAL | G34 | Grid Receptor 34 |
| 648944 | 4077573 | 0.00082 | 224 | 0 | ANNUAL | G35 | Grid Receptor 35 |
| 648944 | 4077173 | 0.00224 | 194.7 | 0 | ANNUAL | G36 | Grid Receptor 36 |
| 648944 | 4076773 | 0.00527 | 193 | 0 | ANNUAL | G37 | Grid Receptor 37 |
| 648944 | 4076373 | 0.00105 | 205 | 0 | ANNUAL | G38 | Grid Receptor 38 |
| 648944 | 4075973 | 0.00049 | 208.8 | 0 | ANNUAL | G39 | Grid Receptor 39 |
| 647744 | 4077973 | 0.00118 | 134.6 | 0 | ANNUAL | G4 | Grid Receptor 4 |
| 648944 | 4075573 | 0.00028 | 185.6 | 0 | ANNUAL | G40 | Grid Receptor 40 |
| 649344 | 4079173 | 0.00019 | 187.4 | 0 | ANNUAL | G41 | Grid Receptor 41 |
| 649344 | 4078773 | 0.0002 | 160.9 | 0 | ANNUAL | G42 | Grid Receptor 42 |

10/01/21

* AERMET (21112): 2018

12:16:51

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 294 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|--------------|-------|-------|--------|-----|------------------|
| 649344 | 4078373 | 0.00025 | 200.5 | 0 | ANNUAL | G43 | Grid Receptor 43 |
| 649344 | 4077973 | 0.00036 | 229 | 0 | ANNUAL | G44 | Grid Receptor 44 |
| 649344 | 4077573 | 0.00193 | 253.3 | 0 | ANNUAL | G45 | Grid Receptor 45 |
| 649344 | 4077173 | 0.00078 | 213.4 | 0 | ANNUAL | G46 | Grid Receptor 46 |
| 649344 | 4076773 | 0.00203 | 211.3 | 0 | ANNUAL | G47 | Grid Receptor 47 |
| 649344 | 4076373 | 0.00714 | 220.2 | 0 | ANNUAL | G48 | Grid Receptor 48 |
| 649344 | 4075973 | 0.0015 | 227.2 | 0 | ANNUAL | G49 | Grid Receptor 49 |
| 647744 | 4077573 | 0.0014 | 163.8 | 0 | ANNUAL | G5 | Grid Receptor 5 |
| 649344 | 4075573 | 0.00072 | 205.5 | 0 | ANNUAL | G50 | Grid Receptor 50 |
| 649744 | 4079173 | 0.00019 | 176.1 | 0 | ANNUAL | G51 | Grid Receptor 51 |
| 649744 | 4078773 | 0.00022 | 195 | 0 | ANNUAL | G52 | Grid Receptor 52 |
| 649744 | 4078373 | 0.00025 | 196.1 | 0 | ANNUAL | G53 | Grid Receptor 53 |
| 649744 | 4077973 | 0.00031 | 215.3 | 0 | ANNUAL | G54 | Grid Receptor 54 |
| 649744 | 4077573 | 0.0004 | 221.6 | 0 | ANNUAL | G55 | Grid Receptor 55 |
| 649744 | 4077173 | 0.00111 | 240.4 | 0 | ANNUAL | G56 | Grid Receptor 56 |
| 649744 | 4076773 | 0.00511 | 242.7 | 0 | ANNUAL | G57 | Grid Receptor 57 |
| 649744 | 4076373 | 0.01351 | 211.7 | 0 | ANNUAL | G58 | Grid Receptor 58 |
| 649744 | 4075973 | 0.01022 | 237.7 | 0 | ANNUAL | G59 | Grid Receptor 59 |
| 647744 | 4077173 | 0.00156 | 158.4 | 0 | ANNUAL | G6 | Grid Receptor 6 |
| 649744 | 4075573 | 0.00213 | 204.2 | 0 | ANNUAL | G60 | Grid Receptor 60 |
| 650144 | 4079173 | 0.00019 | 173 | 0 | ANNUAL | G61 | Grid Receptor 61 |
| 650144 | 4078773 | 0.0002 | 171 | 0 | ANNUAL | G62 | Grid Receptor 62 |
| 650144 | 4078373 | 0.00024 | 204.6 | 0 | ANNUAL | G63 | Grid Receptor 63 |
| 650144 | 4077973 | 0.0003 | 216.5 | 0 | ANNUAL | G64 | Grid Receptor 64 |
| 650144 | 4077573 | 0.00169 | 257.7 | 0 | ANNUAL | G65 | Grid Receptor 65 |
| 650144 | 4077173 | 0.00191 | 245.8 | 0 | ANNUAL | G66 | Grid Receptor 66 |
| 650144 | 4076773 | 0.00355 | 223.3 | 0 | ANNUAL | G67 | Grid Receptor 67 |
| 650144 | 4076373 | 0.00593 | 231.4 | 0 | ANNUAL | G68 | Grid Receptor 68 |
| 650144 | 4075973 | 0.01049 | 249.4 | 0 | ANNUAL | G69 | Grid Receptor 69 |
| 647744 | 4076773 | 0.00106 | 164.7 | 0 | ANNUAL | G7 | Grid Receptor 7 |
| 650144 | 4075573 | 0.00471 | 216.4 | 0 | ANNUAL | G70 | Grid Receptor 70 |
| 650544 | 4079173 | 0.00019 | 177 | 0 | ANNUAL | G71 | Grid Receptor 71 |

10/01/21

* AERMET (21112): 2018

12:16:51

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 294 RECEPTORS.

| | | A,5(1A,F15.5),5(1A,F8.2 | | | | | D 4-4 |
|----------|---------|-------------------------|--------|-------|--------|-----|-----------------------|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
| 650544 | 4078773 | 0.00021 | 180.9 | 0 | ANNUAL | G72 | Grid Receptor 72 |
| 650544 | 4078373 | 0.00026 | 196.6 | 0 | ANNUAL | G73 | Grid Receptor 73 |
| 650544 | 4077973 | 0.00052 | 236.9 | 0 | ANNUAL | G74 | Grid Receptor 74 |
| 650544 | 4077573 | 0.00249 | 261.3 | 0 | ANNUAL | G75 | Grid Receptor 75 |
| 650544 | 4077173 | 0.00314 | 259.2 | 0 | ANNUAL | G76 | Grid Receptor 76 |
| 650544 | 4076773 | 0.0033 | 234.2 | 0 | ANNUAL | G77 | Grid Receptor 77 |
| 650544 | 4076373 | 0.00824 | 260.9 | 0 | ANNUAL | G78 | Grid Receptor 78 |
| 650544 | 4075973 | 0.00381 | 226.7 | 0 | ANNUAL | G79 | Grid Receptor 79 |
| 647744 | 4076373 | 0.00048 | 164 | 0 | ANNUAL | G8 | Grid Receptor 8 |
| 650544 | 4075573 | 0.00974 | 268.2 | 0 | ANNUAL | G80 | Grid Receptor 80 |
| 650944 | 4079173 | 0.00021 | 181.3 | 0 | ANNUAL | G81 | Grid Receptor 81 |
| 650944 | 4078773 | 0.00023 | 178.4 | 0 | ANNUAL | G82 | Grid Receptor 82 |
| 650944 | 4078373 | 0.00034 | 214.8 | 0 | ANNUAL | G83 | Grid Receptor 83 |
| 650944 | 4077973 | 0.00122 | 249.9 | 0 | ANNUAL | G84 | Grid Receptor 84 |
| 650944 | 4077573 | 0.00241 | 276.5 | 0 | ANNUAL | G85 | Grid Receptor 85 |
| 650944 | 4077173 | 0.00122 | 225.6 | 0 | ANNUAL | G86 | Grid Receptor 86 |
| 650944 | 4076773 | 0.00238 | 219.8 | 0 | ANNUAL | G87 | Grid Receptor 87 |
| 650944 | 4076373 | 0.00261 | 209.2 | 0 | ANNUAL | G88 | Grid Receptor 88 |
| 650944 | 4075973 | 0.00257 | 216.6 | 0 | ANNUAL | G89 | Grid Receptor 89 |
| 647744 | 4075973 | 0.00025 | 160.7 | 0 | ANNUAL | G9 | Grid Receptor 9 |
| 650944 | 4075573 | 0.0041 | 243.2 | 0 | ANNUAL | G90 | Grid Receptor 90 |
| 651344 | 4079173 | 0.00023 | 191 | 0 | ANNUAL | G91 | Grid Receptor 91 |
| 651344 | 4078773 | 0.00027 | 181 | 0 | ANNUAL | G92 | Grid Receptor 92 |
| 651344 | 4078373 | 0.00043 | 214.3 | 0 | ANNUAL | G93 | Grid Receptor 93 |
| 651344 | 4077973 | 0.00107 | 248.4 | 0 | ANNUAL | G94 | Grid Receptor 94 |
| 651344 | 4077573 | 0.00072 | 213.2 | 0 | ANNUAL | G95 | Grid Receptor 95 |
| 651344 | 4077173 | 0.0013 | 213.6 | 0 | ANNUAL | G96 | Grid Receptor 96 |
| 651344 | 4076773 | 0.00192 | 203.5 | 0 | ANNUAL | G97 | Grid Receptor 97 |
| 651344 | 4076373 | 0.00206 | 205.6 | 0 | ANNUAL | G98 | Grid Receptor 98 |
| 651344 | 4075973 | 0.00205 | 205.8 | 0 | ANNUAL | G99 | Grid Receptor 99 |
| 648584.2 | 4077523 | 0.0017 | 183.61 | 0 | ANNUAL | P1 | Boundary Perimeter 1 |
| 649484.1 | 4077537 | 0.00186 | 254.01 | 0 | ANNUAL | P10 | Boundary Perimeter 10 |
| | | | | | | | |

10/01/21

* AERMET (21112): 2018

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* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 294 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| 649584 | 4077539 | 0.00058 | 235.3 | 0 | ANNUAL | P11 | Boundary Perimeter 11 |
| 649684 | 4077540 | 0.00042 | 221.29 | 0 | ANNUAL | P12 | Boundary Perimeter 12 |
| 649784 | 4077541 | 0.00041 | 222.37 | 0 | ANNUAL | P13 | Boundary Perimeter 13 |
| 649884 | 4077542 | 0.00052 | 233.6 | 0 | ANNUAL | P14 | Boundary Perimeter 14 |
| 649984 | 4077543 | 0.00118 | 249.54 | 0 | ANNUAL | P15 | Boundary Perimeter 15 |
| 650083.9 | 4077546 | 0.00179 | 258.89 | 0 | ANNUAL | P16 | Boundary Perimeter 16 |
| 650183.9 | 4077548 | 0.00201 | 259.56 | 0 | ANNUAL | P17 | Boundary Perimeter 17 |
| 650283.9 | 4077550 | 0.00198 | 256.77 | 0 | ANNUAL | P18 | Boundary Perimeter 18 |
| 650383.8 | 4077552 | 0.00102 | 242.37 | 0 | ANNUAL | P19 | Boundary Perimeter 19 |
| 648684.2 | 4077525 | 0.00161 | 197.16 | 0 | ANNUAL | P2 | Boundary Perimeter 2 |
| 650483.8 | 4077554 | 0.00106 | 242.23 | 0 | ANNUAL | P20 | Boundary Perimeter 20 |
| 650583.8 | 4077557 | 0.00237 | 259.71 | 0 | ANNUAL | P21 | Boundary Perimeter 21 |
| 650683.8 | 4077559 | 0.00213 | 257.58 | 0 | ANNUAL | P22 | Boundary Perimeter 22 |
| 650776.8 | 4077554 | 0.00265 | 267.9 | 0 | ANNUAL | P23 | Boundary Perimeter 23 |
| 650778.9 | 4077454 | 0.00267 | 275.91 | 0 | ANNUAL | P24 | Boundary Perimeter 24 |
| 650781 | 4077354 | 0.00288 | 265.73 | 0 | ANNUAL | P25 | Boundary Perimeter 25 |
| 650783.1 | 4077254 | 0.002 | 251.08 | 0 | ANNUAL | P26 | Boundary Perimeter 26 |
| 650785.2 | 4077154 | 0.00232 | 252.83 | 0 | ANNUAL | P27 | Boundary Perimeter 27 |
| 650787.3 | 4077054 | 0.00224 | 246.1 | 0 | ANNUAL | P28 | Boundary Perimeter 28 |
| 650789.4 | 4076954 | 0.0025 | 241.37 | 0 | ANNUAL | P29 | Boundary Perimeter 29 |
| 648784.2 | 4077527 | 0.00143 | 209.74 | 0 | ANNUAL | P3 | Boundary Perimeter 3 |
| 650791.5 | 4076854 | 0.00356 | 246.79 | 0 | ANNUAL | P30 | Boundary Perimeter 30 |
| 650793.6 | 4076754 | 0.00274 | 228.75 | 0 | ANNUAL | P31 | Boundary Perimeter 31 |
| 650754.4 | 4076683 | 0.00279 | 217.76 | 0 | ANNUAL | P32 | Boundary Perimeter 32 |
| 650660.2 | 4076650 | 0.00303 | 221.2 | 0 | ANNUAL | P33 | Boundary Perimeter 33 |
| 650561.4 | 4076650 | 0.00326 | 220.83 | 0 | ANNUAL | P34 | Boundary Perimeter 34 |
| 650462.7 | 4076666 | 0.00352 | 223.42 | 0 | ANNUAL | P35 | Boundary Perimeter 35 |
| 650364 | 4076682 | 0.00376 | 222.46 | 0 | ANNUAL | P36 | Boundary Perimeter 36 |
| 650264.2 | 4076683 | 0.00411 | 223.19 | 0 | ANNUAL | P37 | Boundary Perimeter 37 |
| 650164.7 | 4076674 | 0.00457 | 222.1 | 0 | ANNUAL | P38 | Boundary Perimeter 38 |
| 650065.8 | 4076660 | 0.00519 | 217.03 | 0 | ANNUAL | P39 | Boundary Perimeter 39 |
| 648884.2 | 4077529 | 0.00107 | 214.25 | 0 | ANNUAL | P4 | Boundary Perimeter 4 |

10/01/21

* AERMET (21112): 2018

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* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 294 RECEPTORS.

| | () | | 1, , -, , | -, ,, | , -, | | | |
|----------|---------|--------------|-----------|-------|--------|-----|-----------------------|-----|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description | |
| 649980.4 | 4076627 | 0.00622 | 214.82 | 0 | ANNUAL | P40 | Boundary Perimeter 40 | |
| 649920.3 | 4076547 | 0.00775 | 214.91 | 0 | ANNUAL | P41 | Boundary Perimeter 41 | |
| 649852.2 | 4076474 | 0.00937 | 214.09 | 0 | ANNUAL | P42 | Boundary Perimeter 42 | |
| 649770.7 | 4076417 | 0.01184 | 211.53 | 0 | ANNUAL | P43 | Boundary Perimeter 43 | |
| 649680.5 | 4076375 | 0.01676 | 210.17 | 0 | ANNUAL | P44 | Boundary Perimeter 44 | |
| 649580.9 | 4076368 | 0.02472 | 208.52 | 0 | ANNUAL | P45 | Boundary Perimeter 45 | |
| 649482.5 | 4076384 | 0.03106 | 207.5 | 0 | ANNUAL | P46 | Boundary Perimeter 46 | PMI |
| 649391.6 | 4076425 | 0.02128 | 205.17 | 0 | ANNUAL | P47 | Boundary Perimeter 47 | |
| 649303.5 | 4076472 | 0.00229 | 202.16 | 0 | ANNUAL | P48 | Boundary Perimeter 48 | |
| 649226.2 | 4076535 | 0.00111 | 196.38 | 0 | ANNUAL | P49 | Boundary Perimeter 49 | |
| 648984.1 | 4077530 | 0.00078 | 221.41 | 0 | ANNUAL | P5 | Boundary Perimeter 5 | |
| 649156.2 | 4076605 | 0.00539 | 195.87 | 0 | ANNUAL | P50 | Boundary Perimeter 50 | |
| 649068.3 | 4076653 | 0.00707 | 196.32 | 0 | ANNUAL | P51 | Boundary Perimeter 51 | |
| 648986.7 | 4076711 | 0.00625 | 192.42 | 0 | ANNUAL | P52 | Boundary Perimeter 52 | |
| 648936.5 | 4076759 | 0.00543 | 192.46 | 0 | ANNUAL | P53 | Boundary Perimeter 53 | |
| 648868.6 | 4076833 | 0.00447 | 191.63 | 0 | ANNUAL | P54 | Boundary Perimeter 54 | |
| 648797.2 | 4076902 | 0.00372 | 186.32 | 0 | ANNUAL | P55 | Boundary Perimeter 55 | |
| 648710.6 | 4076952 | 0.00325 | 179.81 | 0 | ANNUAL | P56 | Boundary Perimeter 56 | |
| 648620.8 | 4076996 | 0.00291 | 176.23 | 0 | ANNUAL | P57 | Boundary Perimeter 57 | |
| 648607.2 | 4077051 | 0.00269 | 175.02 | 0 | ANNUAL | P58 | Boundary Perimeter 58 | |
| 648680.1 | 4077119 | 0.00263 | 180.62 | 0 | ANNUAL | P59 | Boundary Perimeter 59 | |
| 649084.1 | 4077532 | 0.0006 | 216.54 | 0 | ANNUAL | P6 | Boundary Perimeter 6 | |
| 648759.2 | 4077180 | 0.0026 | 183.47 | 0 | ANNUAL | P60 | Boundary Perimeter 60 | |
| 648791.4 | 4077262 | 0.00246 | 202.88 | 0 | ANNUAL | P61 | Boundary Perimeter 61 | |
| 648788.5 | 4077362 | 0.00178 | 178.21 | 0 | ANNUAL | P62 | Boundary Perimeter 62 | |
| 648691.3 | 4077361 | 0.00199 | 176.25 | 0 | ANNUAL | P63 | Boundary Perimeter 63 | |
| 648591.4 | 4077357 | 0.00204 | 176 | 0 | ANNUAL | P64 | Boundary Perimeter 64 | |
| 648525.7 | 4077371 | 0.00198 | 175.24 | 0 | ANNUAL | P65 | Boundary Perimeter 65 | |
| 648586.9 | 4077430 | 0.00188 | 175.13 | 0 | ANNUAL | P66 | Boundary Perimeter 66 | |
| 649184.1 | 4077534 | 0.00058 | 230.71 | 0 | ANNUAL | P7 | Boundary Perimeter 7 | |
| 649284.1 | 4077535 | 0.00143 | 248.08 | 0 | ANNUAL | P8 | Boundary Perimeter 8 | |
| 649384.1 | 4077536 | 0.0026 | 258.43 | 0 | ANNUAL | Р9 | Boundary Perimeter 9 | |

10/01/21

* AERMET (21112): 2018

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- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 294 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|--------------|--------|-------|--------|--------|-----------------|
| 645930 | 4077983 | 0.00095 | 127.38 | 0 | ANNUAL | RP_G1 | New Development |
| 645930 | 4078083 | 0.00094 | 127.58 | 0 | ANNUAL | RP_G10 | New Development |
| 646030 | 4078083 | 0.00094 | 130.56 | 0 | ANNUAL | RP_G11 | New Development |
| 646130 | 4078083 | 0.00095 | 134.35 | 0 | ANNUAL | RP_G12 | New Development |
| 646230 | 4078083 | 0.00096 | 139.22 | 0 | ANNUAL | RP_G13 | New Development |
| 646330 | 4078083 | 0.00097 | 144.65 | 0 | ANNUAL | RP_G14 | New Development |
| 646430 | 4078083 | 0.00097 | 142.28 | 0 | ANNUAL | RP_G15 | New Development |
| 646530 | 4078083 | 0.00098 | 146.76 | 0 | ANNUAL | RP_G16 | New Development |
| 646630 | 4078083 | 0.00099 | 150.64 | 0 | ANNUAL | RP_G17 | New Development |
| 646730 | 4078083 | 0.00101 | 155.4 | 0 | ANNUAL | RP_G18 | New Development |
| 645930 | 4078183 | 0.00092 | 127.22 | 0 | ANNUAL | RP_G19 | New Development |
| 646030 | 4077983 | 0.00096 | 131.21 | 0 | ANNUAL | RP_G2 | New Development |
| 646030 | 4078183 | 0.00092 | 130.56 | 0 | ANNUAL | RP_G20 | New Development |
| 646130 | 4078183 | 0.00093 | 133.89 | 0 | ANNUAL | RP_G21 | New Development |
| 646230 | 4078183 | 0.00093 | 140.45 | 0 | ANNUAL | RP_G22 | New Development |
| 646330 | 4078183 | 0.00094 | 146.94 | 0 | ANNUAL | RP_G23 | New Development |
| 646430 | 4078183 | 0.00095 | 140.23 | 0 | ANNUAL | RP_G24 | New Development |
| 646530 | 4078183 | 0.00096 | 147.25 | 0 | ANNUAL | RP_G25 | New Development |
| 646630 | 4078183 | 0.00097 | 151.56 | 0 | ANNUAL | RP_G26 | New Development |
| 646730 | 4078183 | 0.00099 | 157.78 | 0 | ANNUAL | RP_G27 | New Development |
| 645930 | 4078283 | 0.00089 | 126.06 | 0 | ANNUAL | RP_G28 | New Development |
| 646030 | 4078283 | 0.0009 | 129.56 | 0 | ANNUAL | RP_G29 | New Development |
| 646130 | 4077983 | 0.00097 | 135.89 | 0 | ANNUAL | RP_G3 | New Development |
| 646130 | 4078283 | 0.0009 | 132.89 | 0 | ANNUAL | RP_G30 | New Development |
| 646230 | 4078283 | 0.00091 | 139.24 | 0 | ANNUAL | RP_G31 | New Development |
| 646330 | 4078283 | 0.00092 | 142.68 | 0 | ANNUAL | RP_G32 | New Development |
| 646430 | 4078283 | 0.00093 | 140.02 | 0 | ANNUAL | RP_G33 | New Development |
| 646530 | 4078283 | 0.00094 | 147.22 | 0 | ANNUAL | RP_G34 | New Development |
| 646630 | 4078283 | 0.00096 | 151.56 | 0 | ANNUAL | RP_G35 | New Development |
| 646730 | 4078283 | 0.00097 | 156.78 | 0 | ANNUAL | RP_G36 | New Development |
| 646230 | 4077983 | 0.00098 | 139.18 | 0 | ANNUAL | RP_G4 | New Development |
| 646330 | 4077983 | 0.00099 | 140.76 | 0 | ANNUAL | RP_G5 | New Development |

10/01/21

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* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 294 RECEPTORS.

| 101 | (11) | A,5(174,1 15.5),5(174,1 0.2 | 2),211,110,211, | ,110,211,10.0,1 | 221,710) | | | |
|----------|---------|-----------------------------|-----------------|-----------------|----------|--------|-----------------|------|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description | |
| 646430 | 4077983 | 0.001 | 143.89 | 0 | ANNUAL | RP_G6 | New Development | |
| 646530 | 4077983 | 0.00101 | 145.22 | 0 | ANNUAL | RP_G7 | New Development | |
| 646630 | 4077983 | 0.00102 | 147.21 | 0 | ANNUAL | RP_G8 | New Development | |
| 646730 | 4077983 | 0.00103 | 148.3 | 0 | ANNUAL | RP_G9 | New Development | |
| 648659.3 | 4077241 | 0.00265 | 205.79 | 0 | ANNUAL | RP_H1 | House 1 | MIER |
| 648071.2 | 4076116 | 0.00032 | 169.6 | 0 | ANNUAL | RP_H10 | House 10 | |
| 648247.4 | 4076278 | 0.00045 | 184.55 | 0 | ANNUAL | RP_H11 | House 11 | |
| 648027.2 | 4076255 | 0.0004 | 169.38 | 0 | ANNUAL | RP_H12 | House 12 | |
| 648065.8 | 4076359 | 0.00051 | 173.83 | 0 | ANNUAL | RP_H13 | House 13 | |
| 648138.7 | 4076400 | 0.00058 | 178.22 | 0 | ANNUAL | RP_H14 | House 14 | |
| 648254.7 | 4076411 | 0.00064 | 191.28 | 0 | ANNUAL | RP_H15 | House 15 | |
| 647877.8 | 4076365 | 0.00049 | 165.39 | 0 | ANNUAL | RP_H16 | House 16 | |
| 647866.6 | 4076240 | 0.00038 | 163.13 | 0 | ANNUAL | RP_H17 | House 17 | |
| 647921 | 4076247 | 0.00039 | 164 | 0 | ANNUAL | RP_H18 | House 18 | |
| 647708.8 | 4076352 | 0.00046 | 163.52 | 0 | ANNUAL | RP_H19 | House 19 | |
| 648371.7 | 4075470 | 0.00021 | 173.69 | 0 | ANNUAL | RP_H2 | House 2 | |
| 647703.6 | 4076251 | 0.00038 | 162.17 | 0 | ANNUAL | RP_H20 | House 20 | |
| 647718.8 | 4076104 | 0.00031 | 159.35 | 0 | ANNUAL | RP_H21 | House 21 | |
| 647843.3 | 4076125 | 0.00032 | 163 | 0 | ANNUAL | RP_H22 | House 22 | |
| 647842.3 | 4076500 | 0.00064 | 167.93 | 0 | ANNUAL | RP_H23 | House 23 | |
| 647727.8 | 4076644 | 0.00081 | 164.15 | 0 | ANNUAL | RP_H24 | House 24 | |
| 647823.9 | 4076644 | 0.00086 | 168.29 | 0 | ANNUAL | RP_H25 | House 25 | |
| 647886.5 | 4076593 | 0.00081 | 169.05 | 0 | ANNUAL | RP_H26 | House 26 | |
| 647810.1 | 4076854 | 0.00129 | 162.9 | 0 | ANNUAL | RP_H27 | House 27 | |
| 647697.5 | 4076989 | 0.00139 | 161.42 | 0 | ANNUAL | RP_H28 | House 28 | |
| 648225.5 | 4076182 | 0.00038 | 183.22 | 0 | ANNUAL | RP_H29 | House 29 | |
| 647678.2 | 4075969 | 0.00025 | 159.5 | 0 | ANNUAL | RP_H3 | House 3 | |
| 645876.3 | 4077487 | 0.00085 | 127.13 | 0 | ANNUAL | RP_H30 | House 30 | |
| 650902 | 4076062 | 0.00262 | 215.24 | 0 | ANNUAL | RP_H31 | House 31 | |
| 651490 | 4076597 | 0.0019 | 205.5 | 0 | ANNUAL | RP_H32 | House 32 | |
| 651565 | 4077067 | 0.00152 | 213.93 | 0 | ANNUAL | RP_H33 | House 33 | |
| 648672.8 | 4075307 | 0.00023 | 225.91 | 0 | ANNUAL | RP_H34 | House 34 | |
| | | | | | | _ | | |

10/01/21

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- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 294 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description | |
|----------|---------|--------------|--------|-------|--------|--------|-------------|-----|
| 648383.6 | 4075469 | 0.00021 | 174.44 | 0 | ANNUAL | RP_H35 | House 35 | |
| 646379.4 | 4077233 | 0.00085 | 146 | 0 | ANNUAL | RP_H36 | House 36 | |
| 651849.7 | 4075865 | 0.0017 | 201.97 | 0 | ANNUAL | RP_H37 | House 37 | |
| 652045.5 | 4076210 | 0.00156 | 196.88 | 0 | ANNUAL | RP_H38 | House 38 | |
| 652255.7 | 4076391 | 0.00144 | 197.06 | 0 | ANNUAL | RP_H39 | House 39 | |
| 647815.3 | 4075985 | 0.00026 | 162.04 | 0 | ANNUAL | RP_H4 | House 4 | |
| 646853.7 | 4077373 | 0.0011 | 145.99 | 0 | ANNUAL | RP_H40 | House 40 | |
| 647050.2 | 4077360 | 0.00117 | 145 | 0 | ANNUAL | RP_H41 | House 41 | |
| 647286.4 | 4077474 | 0.00127 | 149.68 | 0 | ANNUAL | RP_H42 | House 42 | |
| 647359.1 | 4077340 | 0.00132 | 154.45 | 0 | ANNUAL | RP_H43 | House 43 | |
| 647490.4 | 4077329 | 0.0014 | 162.28 | 0 | ANNUAL | RP_H44 | House 44 | |
| 647522.2 | 4077252 | 0.00142 | 164.3 | 0 | ANNUAL | RP_H45 | House 45 | |
| 647517.8 | 4077139 | 0.00137 | 164.01 | 0 | ANNUAL | RP_H46 | House 46 | |
| 646819 | 4077258 | 0.00104 | 151.53 | 0 | ANNUAL | RP_H47 | House 47 | |
| 646778.7 | 4077128 | 0.00092 | 158.51 | 0 | ANNUAL | RP_H48 | House 48 | |
| 646987.3 | 4077213 | 0.00107 | 146.44 | 0 | ANNUAL | RP_H49 | House 49 | |
| 647898.2 | 4076033 | 0.00028 | 163.83 | 0 | ANNUAL | RP_H5 | House 5 | |
| 647241.8 | 4077227 | 0.00122 | 154.85 | 0 | ANNUAL | RP_H50 | House 50 | PMI |
| 646773.1 | 4077063 | 0.00086 | 159 | 0 | ANNUAL | RP_H51 | House 51 | |
| 647104.4 | 4077118 | 0.00106 | 148.99 | 0 | ANNUAL | RP_H52 | House 52 | |
| 647291.9 | 4077123 | 0.00119 | 158.62 | 0 | ANNUAL | RP_H53 | House 53 | |
| 646765.2 | 4076978 | 0.00078 | 158.67 | 0 | ANNUAL | RP_H54 | House 54 | |
| 646995.7 | 4076984 | 0.00087 | 152.34 | 0 | ANNUAL | RP_H55 | House 55 | |
| 647317.2 | 4077031 | 0.00112 | 160.22 | 0 | ANNUAL | RP_H56 | House 56 | |
| 647398.4 | 4077013 | 0.00116 | 161.26 | 0 | ANNUAL | RP_H57 | House 57 | |
| 646978.9 | 4076904 | 0.00079 | 156.81 | 0 | ANNUAL | RP_H58 | House 58 | |
| 647015.2 | 4076807 | 0.00071 | 156.21 | 0 | ANNUAL | RP_H59 | House 59 | |
| 648045.4 | 4076018 | 0.00027 | 168.26 | 0 | ANNUAL | RP_H6 | House 6 | |
| 647164 | 4076802 | 0.00076 | 154.38 | 0 | ANNUAL | RP_H60 | House 60 | |
| 647310.6 | 4076940 | 0.001 | 162.49 | 0 | ANNUAL | RP_H61 | House 61 | |
| 647298.1 | 4076805 | 0.00082 | 158 | 0 | ANNUAL | RP_H62 | House 62 | |
| 647446.6 | 4076900 | 0.00103 | 159.45 | 0 | ANNUAL | RP_H63 | House 63 | |

10/01/21

* AERMET (21112): 2018

12:16:51

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 294 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-------------|
| 647464.5 | 4076781 | 0.00087 | 159.32 | 0 | ANNUAL | RP_H64 | House 64 |
| 647512 | 4076536 | 0.0006 | 159 | 0 | ANNUAL | RP_H65 | House 65 |
| 651131 | 4078767 | 0.00025 | 179.58 | 0 | ANNUAL | RP_H66 | House 66 |
| 648126.3 | 4075955 | 0.00025 | 171.51 | 0 | ANNUAL | RP_H7 | House 7 |
| 648249.3 | 4075970 | 0.00027 | 183.42 | 0 | ANNUAL | RP_H8 | House 8 |
| 648218.6 | 4076109 | 0.00033 | 182.28 | 0 | ANNUAL | RP H9 | House 9 |

10/01/21

* AERMET (19191): 2019

12:17:45

- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 294 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description | |
|----------|---------|--------------|--------|-------|--------|----------|---------------------------------|----------|
| 645996 | 4078698 | 0.00097 | 123.85 | 0 | ANNUAL | AQ_ST_1 | AQ Monitoring Station | |
| 643903.7 | 4077719 | 0.00018 | 105.68 | 0 | ANNUAL | CR_HP_1 | Hazel Hawkins Memorial Hospital | |
| 642056.8 | 4079416 | 0.0003 | 85.12 | 0 | ANNUAL | CR_PK_1 | Dunne Park | |
| 642179.1 | 4079950 | 0.00041 | 117.99 | 0 | ANNUAL | CR_PK_2 | Vista Park Hill Park | |
| 644733.1 | 4078753 | 0.00052 | 106.44 | 0 | ANNUAL | CR_PK_3 | Las Brisas Park | |
| 645608.8 | 4078854 | 0.00086 | 112.86 | 0 | ANNUAL | CR_PK_4 | Frank Klauer Memorial Park | |
| 644238.1 | 4078807 | 0.00044 | 95.25 | 0 | ANNUAL | CR_PK_5 | Veterans Memorial Park | |
| 645311.5 | 4076559 | 0.00011 | 134.61 | 0 | ANNUAL | CR_PK_6 | Park 6 | |
| 649581.7 | 4073424 | 0.00056 | 159.96 | 0 | ANNUAL | CR_PK_7 | Park 7 | |
| 645145.1 | 4077181 | 0.00015 | 133 | 0 | ANNUAL | CR_SC_1 | Cerra Vista Elem School | |
| 642904.7 | 4079955 | 0.00051 | 86 | 0 | ANNUAL | CR_SC_10 | San Andreas Continuation | |
| 645850.7 | 4074015 | 0.00009 | 123 | 0 | ANNUAL | CR_SC_11 | SouthSide School | |
| 642105.7 | 4078176 | 0.00017 | 91 | 0 | ANNUAL | CR_SC_12 | School 12 | |
| 646058.9 | 4078443 | 0.00083 | 128.52 | 0 | ANNUAL | CR_SC_13 | Rancho Santana School | School 1 |
| 647269 | 4075575 | 0.00015 | 158 | 0 | ANNUAL | CR_SC_14 | Future School | School 2 |
| 644109.6 | 4078389 | 0.0003 | 98.2 | 0 | ANNUAL | CR_SC_2 | Sunnyslope Elem School | |
| 643920.1 | 4077304 | 0.00013 | 101.23 | 0 | ANNUAL | CR_SC_3 | Hollister Montessori School | |
| 642961.1 | 4078621 | 0.00025 | 92 | 0 | ANNUAL | CR_SC_4 | Rancho San Justo Middle School | |
| 643980 | 4079743 | 0.00065 | 88 | 0 | ANNUAL | CR_SC_5 | Marguerite Maze Middle School | |
| 641630.2 | 4079153 | 0.00024 | 85 | 0 | ANNUAL | CR_SC_6 | Hollister Prep Schoo | |
| 643350 | 4077181 | 0.00012 | 98.22 | 0 | ANNUAL | CR_SC_7 | Ladd Lane Elementary School | |
| 644003 | 4080079 | 0.00075 | 87 | 0 | ANNUAL | CR_SC_8 | Gabilan Hills Elementary School | |
| 642244.9 | 4078413 | 0.0002 | 90.17 | 0 | ANNUAL | CR_SC_9 | San Benito High School | |
| 642083.4 | 4079794 | 0.00037 | 87.58 | 0 | ANNUAL | CR_SR_1 | Jovenes De Antano | |
| 646402 | 4076879 | 0.00015 | 146.33 | 0 | ANNUAL | CR_WP_1 | Workplace | |
| 648949 | 4077938 | 0.00109 | 189.45 | 0 | ANNUAL | CR_WP_2 | Nearest Workplace | MEIW |
| 647744 | 4079173 | 0.00176 | 155.2 | 0 | ANNUAL | G1 | Grid Receptor 1 | |
| 647744 | 4075573 | 0.00016 | 160 | 0 | ANNUAL | G10 | Grid Receptor 10 | |
| 651344 | 4075573 | 0.0042 | 252.9 | 0 | ANNUAL | G100 | Grid Receptor 100 | |
| 648144 | 4079173 | 0.0013 | 165.9 | 0 | ANNUAL | G11 | Grid Receptor 11 | |
| 648144 | 4078773 | 0.00183 | 159.6 | 0 | ANNUAL | G12 | Grid Receptor 12 | |
| 648144 | 4078373 | 0.00246 | 146.2 | 0 | ANNUAL | G13 | Grid Receptor 13 | |

10/01/21

* AERMET (19191): 2019

12:17:45

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 294 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|--------------|-------|-------|--------|-----|------------------|
| 648144 | 4077973 | 0.00305 | 158.3 | 0 | ANNUAL | G14 | Grid Receptor 14 |
| 648144 | 4077573 | 0.0028 | 166.6 | 0 | ANNUAL | G15 | Grid Receptor 15 |
| 648144 | 4077173 | 0.00123 | 175.4 | 0 | ANNUAL | G16 | Grid Receptor 16 |
| 648144 | 4076773 | 0.00035 | 177.1 | 0 | ANNUAL | G17 | Grid Receptor 17 |
| 648144 | 4076373 | 0.00026 | 178 | 0 | ANNUAL | G18 | Grid Receptor 18 |
| 648144 | 4075973 | 0.00023 | 173 | 0 | ANNUAL | G19 | Grid Receptor 19 |
| 647744 | 4078773 | 0.00214 | 145.4 | 0 | ANNUAL | G2 | Grid Receptor 2 |
| 648144 | 4075573 | 0.00018 | 168.8 | 0 | ANNUAL | G20 | Grid Receptor 20 |
| 648544 | 4079173 | 0.00071 | 173.5 | 0 | ANNUAL | G21 | Grid Receptor 21 |
| 648544 | 4078773 | 0.00102 | 166.2 | 0 | ANNUAL | G22 | Grid Receptor 22 |
| 648544 | 4078373 | 0.00163 | 145.4 | 0 | ANNUAL | G23 | Grid Receptor 23 |
| 648544 | 4077973 | 0.00297 | 173.9 | 0 | ANNUAL | G24 | Grid Receptor 24 |
| 648544 | 4077573 | 0.00454 | 179.6 | 0 | ANNUAL | G25 | Grid Receptor 25 |
| 648544 | 4077173 | 0.00395 | 191 | 0 | ANNUAL | G26 | Grid Receptor 26 |
| 648544 | 4076773 | 0.00082 | 209.2 | 0 | ANNUAL | G27 | Grid Receptor 27 |
| 648544 | 4076373 | 0.00056 | 233.7 | 0 | ANNUAL | G28 | Grid Receptor 28 |
| 648544 | 4075973 | 0.00031 | 199.9 | 0 | ANNUAL | G29 | Grid Receptor 29 |
| 647744 | 4078373 | 0.00241 | 144.4 | 0 | ANNUAL | G3 | Grid Receptor 3 |
| 648544 | 4075573 | 0.00022 | 195.5 | 0 | ANNUAL | G30 | Grid Receptor 30 |
| 648944 | 4079173 | 0.00039 | 190.4 | 0 | ANNUAL | G31 | Grid Receptor 31 |
| 648944 | 4078773 | 0.00045 | 165.4 | 0 | ANNUAL | G32 | Grid Receptor 32 |
| 648944 | 4078373 | 0.00059 | 159.6 | 0 | ANNUAL | G33 | Grid Receptor 33 |
| 648944 | 4077973 | 0.00103 | 183.5 | 0 | ANNUAL | G34 | Grid Receptor 34 |
| 648944 | 4077573 | 0.00271 | 224 | 0 | ANNUAL | G35 | Grid Receptor 35 |
| 648944 | 4077173 | 0.0079 | 194.7 | 0 | ANNUAL | G36 | Grid Receptor 36 |
| 648944 | 4076773 | 0.00473 | 193 | 0 | ANNUAL | G37 | Grid Receptor 37 |
| 648944 | 4076373 | 0.00085 | 205 | 0 | ANNUAL | G38 | Grid Receptor 38 |
| 648944 | 4075973 | 0.0005 | 208.8 | 0 | ANNUAL | G39 | Grid Receptor 39 |
| 647744 | 4077973 | 0.00225 | 134.6 | 0 | ANNUAL | G4 | Grid Receptor 4 |
| 648944 | 4075573 | 0.00033 | 185.6 | 0 | ANNUAL | G40 | Grid Receptor 40 |
| 649344 | 4079173 | 0.00026 | 187.4 | 0 | ANNUAL | G41 | Grid Receptor 41 |
| 649344 | 4078773 | 0.00027 | 160.9 | 0 | ANNUAL | G42 | Grid Receptor 42 |

10/01/21

* AERMET (19191): 2019

12:17:45

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 294 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|--------------|-------|-------|--------|-----|------------------|
| 649344 | 4078373 | 0.00033 | 200.5 | 0 | ANNUAL | G43 | Grid Receptor 43 |
| 649344 | 4077973 | 0.00045 | 229 | 0 | ANNUAL | G44 | Grid Receptor 44 |
| 649344 | 4077573 | 0.00189 | 253.3 | 0 | ANNUAL | G45 | Grid Receptor 45 |
| 649344 | 4077173 | 0.00091 | 213.4 | 0 | ANNUAL | G46 | Grid Receptor 46 |
| 649344 | 4076773 | 0.00201 | 211.3 | 0 | ANNUAL | G47 | Grid Receptor 47 |
| 649344 | 4076373 | 0.00877 | 220.2 | 0 | ANNUAL | G48 | Grid Receptor 48 |
| 649344 | 4075973 | 0.0016 | 227.2 | 0 | ANNUAL | G49 | Grid Receptor 49 |
| 647744 | 4077573 | 0.00149 | 163.8 | 0 | ANNUAL | G5 | Grid Receptor 5 |
| 649344 | 4075573 | 0.00072 | 205.5 | 0 | ANNUAL | G50 | Grid Receptor 50 |
| 649744 | 4079173 | 0.00019 | 176.1 | 0 | ANNUAL | G51 | Grid Receptor 51 |
| 649744 | 4078773 | 0.00021 | 195 | 0 | ANNUAL | G52 | Grid Receptor 52 |
| 649744 | 4078373 | 0.00024 | 196.1 | 0 | ANNUAL | G53 | Grid Receptor 53 |
| 649744 | 4077973 | 0.00029 | 215.3 | 0 | ANNUAL | G54 | Grid Receptor 54 |
| 649744 | 4077573 | 0.00036 | 221.6 | 0 | ANNUAL | G55 | Grid Receptor 55 |
| 649744 | 4077173 | 0.00067 | 240.4 | 0 | ANNUAL | G56 | Grid Receptor 56 |
| 649744 | 4076773 | 0.00249 | 242.7 | 0 | ANNUAL | G57 | Grid Receptor 57 |
| 649744 | 4076373 | 0.01694 | 211.7 | 0 | ANNUAL | G58 | Grid Receptor 58 |
| 649744 | 4075973 | 0.01065 | 237.7 | 0 | ANNUAL | G59 | Grid Receptor 59 |
| 647744 | 4077173 | 0.00059 | 158.4 | 0 | ANNUAL | G6 | Grid Receptor 6 |
| 649744 | 4075573 | 0.00262 | 204.2 | 0 | ANNUAL | G60 | Grid Receptor 60 |
| 650144 | 4079173 | 0.00018 | 173 | 0 | ANNUAL | G61 | Grid Receptor 61 |
| 650144 | 4078773 | 0.00019 | 171 | 0 | ANNUAL | G62 | Grid Receptor 62 |
| 650144 | 4078373 | 0.00021 | 204.6 | 0 | ANNUAL | G63 | Grid Receptor 63 |
| 650144 | 4077973 | 0.00022 | 216.5 | 0 | ANNUAL | G64 | Grid Receptor 64 |
| 650144 | 4077573 | 0.00094 | 257.7 | 0 | ANNUAL | G65 | Grid Receptor 65 |
| 650144 | 4077173 | 0.00091 | 245.8 | 0 | ANNUAL | G66 | Grid Receptor 66 |
| 650144 | 4076773 | 0.00144 | 223.3 | 0 | ANNUAL | G67 | Grid Receptor 67 |
| 650144 | 4076373 | 0.00568 | 231.4 | 0 | ANNUAL | G68 | Grid Receptor 68 |
| 650144 | 4075973 | 0.01145 | 249.4 | 0 | ANNUAL | G69 | Grid Receptor 69 |
| 647744 | 4076773 | 0.00024 | 164.7 | 0 | ANNUAL | G7 | Grid Receptor 7 |
| 650144 | 4075573 | 0.00492 | 216.4 | 0 | ANNUAL | G70 | Grid Receptor 70 |
| 650544 | 4079173 | 0.00017 | 177 | 0 | ANNUAL | G71 | Grid Receptor 71 |

10/01/21

* AERMET (19191): 2019

12:17:45

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 294 RECEPTORS.

| X | Y | AVED ACE CONC | ZELEV | | AVE | ID | Description |
|----------|---------|---------------|--------|-------|--------|-----|-----------------------|
| | | AVERAGE CONC | | ZFLAG | | | Description |
| 650544 | 4078773 | 0.00016 | 180.9 | 0 | ANNUAL | G72 | Grid Receptor 72 |
| 650544 | 4078373 | 0.00017 | 196.6 | 0 | ANNUAL | G73 | Grid Receptor 73 |
| 650544 | 4077973 | 0.00028 | 236.9 | 0 | ANNUAL | G74 | Grid Receptor 74 |
| 650544 | 4077573 | 0.00112 | 261.3 | 0 | ANNUAL | G75 | Grid Receptor 75 |
| 650544 | 4077173 | 0.00172 | 259.2 | 0 | ANNUAL | G76 | Grid Receptor 76 |
| 650544 | 4076773 | 0.00159 | 234.2 | 0 | ANNUAL | G77 | Grid Receptor 77 |
| 650544 | 4076373 | 0.00653 | 260.9 | 0 | ANNUAL | G78 | Grid Receptor 78 |
| 650544 | 4075973 | 0.00499 | 226.7 | 0 | ANNUAL | G79 | Grid Receptor 79 |
| 647744 | 4076373 | 0.00019 | 164 | 0 | ANNUAL | G8 | Grid Receptor 8 |
| 650544 | 4075573 | 0.00957 | 268.2 | 0 | ANNUAL | G80 | Grid Receptor 80 |
| 650944 | 4079173 | 0.00014 | 181.3 | 0 | ANNUAL | G81 | Grid Receptor 81 |
| 650944 | 4078773 | 0.00014 | 178.4 | 0 | ANNUAL | G82 | Grid Receptor 82 |
| 650944 | 4078373 | 0.00018 | 214.8 | 0 | ANNUAL | G83 | Grid Receptor 83 |
| 650944 | 4077973 | 0.00056 | 249.9 | 0 | ANNUAL | G84 | Grid Receptor 84 |
| 650944 | 4077573 | 0.00126 | 276.5 | 0 | ANNUAL | G85 | Grid Receptor 85 |
| 650944 | 4077173 | 0.00071 | 225.6 | 0 | ANNUAL | G86 | Grid Receptor 86 |
| 650944 | 4076773 | 0.00125 | 219.8 | 0 | ANNUAL | G87 | Grid Receptor 87 |
| 650944 | 4076373 | 0.00213 | 209.2 | 0 | ANNUAL | G88 | Grid Receptor 88 |
| 650944 | 4075973 | 0.00326 | 216.6 | 0 | ANNUAL | G89 | Grid Receptor 89 |
| 647744 | 4075973 | 0.0002 | 160.7 | 0 | ANNUAL | G9 | Grid Receptor 9 |
| 650944 | 4075573 | 0.00461 | 243.2 | 0 | ANNUAL | G90 | Grid Receptor 90 |
| 651344 | 4079173 | 0.00013 | 191 | 0 | ANNUAL | G91 | Grid Receptor 91 |
| 651344 | 4078773 | 0.00014 | 181 | 0 | ANNUAL | G92 | Grid Receptor 92 |
| 651344 | 4078373 | 0.0002 | 214.3 | 0 | ANNUAL | G93 | Grid Receptor 93 |
| 651344 | 4077973 | 0.0005 | 248.4 | 0 | ANNUAL | G94 | Grid Receptor 94 |
| 651344 | 4077573 | 0.00045 | 213.2 | 0 | ANNUAL | G95 | Grid Receptor 95 |
| 651344 | 4077173 | 0.00076 | 213.6 | 0 | ANNUAL | G96 | Grid Receptor 96 |
| 651344 | 4076773 | 0.0011 | 203.5 | 0 | ANNUAL | G97 | Grid Receptor 97 |
| 651344 | 4076373 | 0.00166 | 205.6 | 0 | ANNUAL | G98 | Grid Receptor 98 |
| 651344 | 4075973 | 0.00236 | 205.8 | 0 | ANNUAL | G99 | Grid Receptor 99 |
| 648584.2 | 4077523 | 0.00485 | 183.61 | 0 | ANNUAL | P1 | Boundary Perimeter 1 |
| 649484.1 | 4077537 | 0.00156 | 254.01 | 0 | ANNUAL | P10 | Boundary Perimeter 10 |
| | | | | | | | |

10/01/21

* AERMET (19191): 2019

12:17:45

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 294 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| 649584 | 4077539 | 0.00055 | 235.3 | 0 | ANNUAL | P11 | Boundary Perimeter 11 |
| 649684 | 4077540 | 0.00039 | 221.29 | 0 | ANNUAL | P12 | Boundary Perimeter 12 |
| 649784 | 4077541 | 0.00035 | 222.37 | 0 | ANNUAL | P13 | Boundary Perimeter 13 |
| 649884 | 4077542 | 0.00037 | 233.6 | 0 | ANNUAL | P14 | Boundary Perimeter 14 |
| 649984 | 4077543 | 0.00066 | 249.54 | 0 | ANNUAL | P15 | Boundary Perimeter 15 |
| 650083.9 | 4077546 | 0.00098 | 258.89 | 0 | ANNUAL | P16 | Boundary Perimeter 16 |
| 650183.9 | 4077548 | 0.00111 | 259.56 | 0 | ANNUAL | P17 | Boundary Perimeter 17 |
| 650283.9 | 4077550 | 0.00102 | 256.77 | 0 | ANNUAL | P18 | Boundary Perimeter 18 |
| 650383.8 | 4077552 | 0.00051 | 242.37 | 0 | ANNUAL | P19 | Boundary Perimeter 19 |
| 648684.2 | 4077525 | 0.00529 | 197.16 | 0 | ANNUAL | P2 | Boundary Perimeter 2 |
| 650483.8 | 4077554 | 0.0005 | 242.23 | 0 | ANNUAL | P20 | Boundary Perimeter 20 |
| 650583.8 | 4077557 | 0.00105 | 259.71 | 0 | ANNUAL | P21 | Boundary Perimeter 21 |
| 650683.8 | 4077559 | 0.00095 | 257.58 | 0 | ANNUAL | P22 | Boundary Perimeter 22 |
| 650776.8 | 4077554 | 0.00123 | 267.9 | 0 | ANNUAL | P23 | Boundary Perimeter 23 |
| 650778.9 | 4077454 | 0.00142 | 275.91 | 0 | ANNUAL | P24 | Boundary Perimeter 24 |
| 650781 | 4077354 | 0.00157 | 265.73 | 0 | ANNUAL | P25 | Boundary Perimeter 25 |
| 650783.1 | 4077254 | 0.00113 | 251.08 | 0 | ANNUAL | P26 | Boundary Perimeter 26 |
| 650785.2 | 4077154 | 0.00138 | 252.83 | 0 | ANNUAL | P27 | Boundary Perimeter 27 |
| 650787.3 | 4077054 | 0.00128 | 246.1 | 0 | ANNUAL | P28 | Boundary Perimeter 28 |
| 650789.4 | 4076954 | 0.00132 | 241.37 | 0 | ANNUAL | P29 | Boundary Perimeter 29 |
| 648784.2 | 4077527 | 0.00537 | 209.74 | 0 | ANNUAL | Р3 | Boundary Perimeter 3 |
| 650791.5 | 4076854 | 0.00182 | 246.79 | 0 | ANNUAL | P30 | Boundary Perimeter 30 |
| 650793.6 | 4076754 | 0.00141 | 228.75 | 0 | ANNUAL | P31 | Boundary Perimeter 31 |
| 650754.4 | 4076683 | 0.00147 | 217.76 | 0 | ANNUAL | P32 | Boundary Perimeter 32 |
| 650660.2 | 4076650 | 0.00161 | 221.2 | 0 | ANNUAL | P33 | Boundary Perimeter 33 |
| 650561.4 | 4076650 | 0.00168 | 220.83 | 0 | ANNUAL | P34 | Boundary Perimeter 34 |
| 650462.7 | 4076666 | 0.00172 | 223.42 | 0 | ANNUAL | P35 | Boundary Perimeter 35 |
| 650364 | 4076682 | 0.00172 | 222.46 | 0 | ANNUAL | P36 | Boundary Perimeter 36 |
| 650264.2 | 4076683 | 0.0018 | 223.19 | 0 | ANNUAL | P37 | Boundary Perimeter 37 |
| 650164.7 | 4076674 | 0.00193 | 222.1 | 0 | ANNUAL | P38 | Boundary Perimeter 38 |
| 650065.8 | 4076660 | 0.00211 | 217.03 | 0 | ANNUAL | P39 | Boundary Perimeter 39 |
| 648884.2 | 4077529 | 0.00411 | 214.25 | 0 | ANNUAL | P4 | Boundary Perimeter 4 |

10/01/21

* AERMET (19191): 2019

12:17:45

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 294 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| 649980.4 | 4076627 | 0.00259 | 214.82 | 0 | ANNUAL | P40 | Boundary Perimeter 40 |
| 649920.3 | 4076547 | 0.0041 | 214.91 | 0 | ANNUAL | P41 | Boundary Perimeter 41 |
| 649852.2 | 4076474 | 0.00712 | 214.09 | 0 | ANNUAL | P42 | Boundary Perimeter 42 |
| 649770.7 | 4076417 | 0.01285 | 211.53 | 0 | ANNUAL | P43 | Boundary Perimeter 43 |
| 649680.5 | 4076375 | 0.02131 | 210.17 | 0 | ANNUAL | P44 | Boundary Perimeter 44 |
| 649580.9 | 4076368 | 0.02996 | 208.52 | 0 | ANNUAL | P45 | Boundary Perimeter 45 |
| 649482.5 | 4076384 | 0.03425 | 207.5 | 0 | ANNUAL | P46 | Boundary Perimeter 46 |
| 649391.6 | 4076425 | 0.02254 | 205.17 | 0 | ANNUAL | P47 | Boundary Perimeter 47 |
| 649303.5 | 4076472 | 0.00232 | 202.16 | 0 | ANNUAL | P48 | Boundary Perimeter 48 |
| 649226.2 | 4076535 | 0.00082 | 196.38 | 0 | ANNUAL | P49 | Boundary Perimeter 49 |
| 648984.1 | 4077530 | 0.00246 | 221.41 | 0 | ANNUAL | P5 | Boundary Perimeter 5 |
| 649156.2 | 4076605 | 0.00285 | 195.87 | 0 | ANNUAL | P50 | Boundary Perimeter 50 |
| 649068.3 | 4076653 | 0.00355 | 196.32 | 0 | ANNUAL | P51 | Boundary Perimeter 51 |
| 648986.7 | 4076711 | 0.00364 | 192.42 | 0 | ANNUAL | P52 | Boundary Perimeter 52 |
| 648936.5 | 4076759 | 0.00395 | 192.46 | 0 | ANNUAL | P53 | Boundary Perimeter 53 |
| 648868.6 | 4076833 | 0.00436 | 191.63 | 0 | ANNUAL | P54 | Boundary Perimeter 54 |
| 648797.2 | 4076902 | 0.00425 | 186.32 | 0 | ANNUAL | P55 | Boundary Perimeter 55 |
| 648710.6 | 4076952 | 0.00343 | 179.81 | 0 | ANNUAL | P56 | Boundary Perimeter 56 |
| 648620.8 | 4076996 | 0.00279 | 176.23 | 0 | ANNUAL | P57 | Boundary Perimeter 57 |
| 648607.2 | 4077051 | 0.00329 | 175.02 | 0 | ANNUAL | P58 | Boundary Perimeter 58 |
| 648680.1 | 4077119 | 0.00514 | 180.62 | 0 | ANNUAL | P59 | Boundary Perimeter 59 |
| 649084.1 | 4077532 | 0.00138 | 216.54 | 0 | ANNUAL | P6 | Boundary Perimeter 6 |
| 648759.2 | 4077180 | 0.00667 | 183.47 | 0 | ANNUAL | P60 | Boundary Perimeter 60 |
| 648791.4 | 4077262 | 0.00758 | 202.88 | 0 | ANNUAL | P61 | Boundary Perimeter 61 |
| 648788.5 | 4077362 | 0.00586 | 178.21 | 0 | ANNUAL | P62 | Boundary Perimeter 62 |
| 648691.3 | 4077361 | 0.00564 | 176.25 | 0 | ANNUAL | P63 | Boundary Perimeter 63 |
| 648591.4 | 4077357 | 0.005 | 176 | 0 | ANNUAL | P64 | Boundary Perimeter 64 |
| 648525.7 | 4077371 | 0.00452 | 175.24 | 0 | ANNUAL | P65 | Boundary Perimeter 65 |
| 648586.9 | 4077430 | 0.00493 | 175.13 | 0 | ANNUAL | P66 | Boundary Perimeter 66 |
| 649184.1 | 4077534 | 0.00092 | 230.71 | 0 | ANNUAL | P7 | Boundary Perimeter 7 |
| 649284.1 | 4077535 | 0.0016 | 248.08 | 0 | ANNUAL | P8 | Boundary Perimeter 8 |
| 649384.1 | 4077536 | 0.00227 | 258.43 | 0 | ANNUAL | P9 | Boundary Perimeter 9 |

PMI

10/01/21

* AERMET (19191): 2019

12:17:45

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 294 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|--------------|--------|-------|--------|--------|-----------------|
| 645930 | 4077983 | 0.00048 | 127.38 | 0 | ANNUAL | RP G1 | New Development |
| 645930 | 4078083 | 0.00054 | 127.58 | 0 | ANNUAL | RP G10 | New Development |
| 646030 | 4078083 | 0.00057 | 130.56 | 0 | ANNUAL | RP G11 | New Development |
| 646130 | 4078083 | 0.00062 | 134.35 | 0 | ANNUAL | RP G12 | New Development |
| 646230 | 4078083 | 0.00066 | 139.22 | 0 | ANNUAL | RP G13 | New Development |
| 646330 | 4078083 | 0.00071 | 144.65 | 0 | ANNUAL | RP G14 | New Development |
| 646430 | 4078083 | 0.00076 | 142.28 | 0 | ANNUAL | RP G15 | New Development |
| 646530 | 4078083 | 0.00082 | 146.76 | 0 | ANNUAL | RP G16 | New Development |
| 646630 | 4078083 | 0.00089 | 150.64 | 0 | ANNUAL | RP G17 | New Development |
| 646730 | 4078083 | 0.00097 | 155.4 | 0 | ANNUAL | RP G18 | New Development |
| 645930 | 4078183 | 0.0006 | 127.22 | 0 | ANNUAL | RP G19 | New Development |
| 646030 | 4077983 | 0.00051 | 131.21 | 0 | ANNUAL | RP_G2 | New Development |
| 646030 | 4078183 | 0.00064 | 130.56 | 0 | ANNUAL | RP_G20 | New Development |
| 646130 | 4078183 | 0.00068 | 133.89 | 0 | ANNUAL | RP_G21 | New Development |
| 646230 | 4078183 | 0.00073 | 140.45 | 0 | ANNUAL | RP_G22 | New Development |
| 646330 | 4078183 | 0.00079 | 146.94 | 0 | ANNUAL | RP_G23 | New Development |
| 646430 | 4078183 | 0.00084 | 140.23 | 0 | ANNUAL | RP_G24 | New Development |
| 646530 | 4078183 | 0.00091 | 147.25 | 0 | ANNUAL | RP_G25 | New Development |
| 646630 | 4078183 | 0.00099 | 151.56 | 0 | ANNUAL | RP_G26 | New Development |
| 646730 | 4078183 | 0.00108 | 157.78 | 0 | ANNUAL | RP_G27 | New Development |
| 645930 | 4078283 | 0.00066 | 126.06 | 0 | ANNUAL | RP_G28 | New Development |
| 646030 | 4078283 | 0.00071 | 129.56 | 0 | ANNUAL | RP_G29 | New Development |
| 646130 | 4077983 | 0.00055 | 135.89 | 0 | ANNUAL | RP_G3 | New Development |
| 646130 | 4078283 | 0.00075 | 132.89 | 0 | ANNUAL | RP_G30 | New Development |
| 646230 | 4078283 | 0.00081 | 139.24 | 0 | ANNUAL | RP_G31 | New Development |
| 646330 | 4078283 | 0.00087 | 142.68 | 0 | ANNUAL | RP_G32 | New Development |
| 646430 | 4078283 | 0.00093 | 140.02 | 0 | ANNUAL | RP_G33 | New Development |
| 646530 | 4078283 | 0.00101 | 147.22 | 0 | ANNUAL | RP_G34 | New Development |
| 646630 | 4078283 | 0.00109 | 151.56 | 0 | ANNUAL | RP_G35 | New Development |
| 646730 | 4078283 | 0.00119 | 156.78 | 0 | ANNUAL | RP_G36 | New Development |
| 646230 | 4077983 | 0.00059 | 139.18 | 0 | ANNUAL | RP_G4 | New Development |
| 646330 | 4077983 | 0.00063 | 140.76 | 0 | ANNUAL | RP_G5 | New Development |

10/01/21

* AERMET (19191): 2019

12:17:45

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 294 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | | - / , , , , | ,,- | | | | |
|----------|---------|--------------|-------------|-------|--------|--------|-----------------|------|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description | |
| 646430 | 4077983 | 0.00068 | 143.89 | 0 | ANNUAL | RP_G6 | New Development | |
| 646530 | 4077983 | 0.00073 | 145.22 | 0 | ANNUAL | RP_G7 | New Development | |
| 646630 | 4077983 | 0.00079 | 147.21 | 0 | ANNUAL | RP_G8 | New Development | |
| 646730 | 4077983 | 0.00086 | 148.3 | 0 | ANNUAL | RP_G9 | New Development | |
| 648659.3 | 4077241 | 0.00639 | 205.79 | 0 | ANNUAL | RP_H1 | House 1 | MEIR |
| 648071.2 | 4076116 | 0.00024 | 169.6 | 0 | ANNUAL | RP_H10 | House 10 | |
| 648247.4 | 4076278 | 0.00029 | 184.55 | 0 | ANNUAL | RP_H11 | House 11 | |
| 648027.2 | 4076255 | 0.00024 | 169.38 | 0 | ANNUAL | RP_H12 | House 12 | |
| 648065.8 | 4076359 | 0.00025 | 173.83 | 0 | ANNUAL | RP_H13 | House 13 | |
| 648138.7 | 4076400 | 0.00026 | 178.22 | 0 | ANNUAL | RP_H14 | House 14 | |
| 648254.7 | 4076411 | 0.0003 | 191.28 | 0 | ANNUAL | RP_H15 | House 15 | |
| 647877.8 | 4076365 | 0.00021 | 165.39 | 0 | ANNUAL | RP_H16 | House 16 | |
| 647866.6 | 4076240 | 0.00021 | 163.13 | 0 | ANNUAL | RP_H17 | House 17 | |
| 647921 | 4076247 | 0.00022 | 164 | 0 | ANNUAL | RP_H18 | House 18 | |
| 647708.8 | 4076352 | 0.00019 | 163.52 | 0 | ANNUAL | RP_H19 | House 19 | |
| 648371.7 | 4075470 | 0.00018 | 173.69 | 0 | ANNUAL | RP_H2 | House 2 | |
| 647703.6 | 4076251 | 0.00019 | 162.17 | 0 | ANNUAL | RP_H20 | House 20 | |
| 647718.8 | 4076104 | 0.0002 | 159.35 | 0 | ANNUAL | RP_H21 | House 21 | |
| 647843.3 | 4076125 | 0.00021 | 163 | 0 | ANNUAL | RP_H22 | House 22 | |
| 647842.3 | 4076500 | 0.00021 | 167.93 | 0 | ANNUAL | RP_H23 | House 23 | |
| 647727.8 | 4076644 | 0.00021 | 164.15 | 0 | ANNUAL | RP_H24 | House 24 | |
| 647823.9 | 4076644 | 0.00022 | 168.29 | 0 | ANNUAL | RP_H25 | House 25 | |
| 647886.5 | 4076593 | 0.00022 | 169.05 | 0 | ANNUAL | RP_H26 | House 26 | |
| 647810.1 | 4076854 | 0.00029 | 162.9 | 0 | ANNUAL | RP_H27 | House 27 | |
| 647697.5 | 4076989 | 0.00035 | 161.42 | 0 | ANNUAL | RP_H28 | House 28 | |
| 648225.5 | 4076182 | 0.00028 | 183.22 | 0 | ANNUAL | RP_H29 | House 29 | |
| 647678.2 | 4075969 | 0.00019 | 159.5 | 0 | ANNUAL | RP_H3 | House 3 | |
| 645876.3 | 4077487 | 0.00025 | 127.13 | 0 | ANNUAL | RP_H30 | House 30 | |
| 650902 | 4076062 | 0.00315 | 215.24 | 0 | ANNUAL | RP_H31 | House 31 | |
| 651490 | 4076597 | 0.00127 | 205.5 | 0 | ANNUAL | RP_H32 | House 32 | |
| 651565 | 4077067 | 0.00087 | 213.93 | 0 | ANNUAL | RP_H33 | House 33 | |
| 648672.8 | 4075307 | 0.00029 | 225.91 | 0 | ANNUAL | RP_H34 | House 34 | |

10/01/21

* AERMET (19191): 2019

12:17:45

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 294 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-------------|
| 648383.6 | 4075469 | 0.00019 | 174.44 | 0 | ANNUAL | RP_H35 | House 35 |
| 646379.4 | 4077233 | 0.00023 | 146 | 0 | ANNUAL | RP_H36 | House 36 |
| 651849.7 | 4075865 | 0.0019 | 201.97 | 0 | ANNUAL | RP_H37 | House 37 |
| 652045.5 | 4076210 | 0.00139 | 196.88 | 0 | ANNUAL | RP_H38 | House 38 |
| 652255.7 | 4076391 | 0.00116 | 197.06 | 0 | ANNUAL | RP_H39 | House 39 |
| 647815.3 | 4075985 | 0.0002 | 162.04 | 0 | ANNUAL | RP_H4 | House 4 |
| 646853.7 | 4077373 | 0.00037 | 145.99 | 0 | ANNUAL | RP_H40 | House 40 |
| 647050.2 | 4077360 | 0.00042 | 145 | 0 | ANNUAL | RP_H41 | House 41 |
| 647286.4 | 4077474 | 0.00067 | 149.68 | 0 | ANNUAL | RP_H42 | House 42 |
| 647359.1 | 4077340 | 0.00054 | 154.45 | 0 | ANNUAL | RP_H43 | House 43 |
| 647490.4 | 4077329 | 0.00062 | 162.28 | 0 | ANNUAL | RP_H44 | House 44 |
| 647522.2 | 4077252 | 0.00054 | 164.3 | 0 | ANNUAL | RP_H45 | House 45 |
| 647517.8 | 4077139 | 0.00041 | 164.01 | 0 | ANNUAL | RP_H46 | House 46 |
| 646819 | 4077258 | 0.0003 | 151.53 | 0 | ANNUAL | RP_H47 | House 47 |
| 646778.7 | 4077128 | 0.00024 | 158.51 | 0 | ANNUAL | RP_H48 | House 48 |
| 646987.3 | 4077213 | 0.00031 | 146.44 | 0 | ANNUAL | RP_H49 | House 49 |
| 647898.2 | 4076033 | 0.00021 | 163.83 | 0 | ANNUAL | RP_H5 | House 5 |
| 647241.8 | 4077227 | 0.00038 | 154.85 | 0 | ANNUAL | RP_H50 | House 50 |
| 646773.1 | 4077063 | 0.00022 | 159 | 0 | ANNUAL | RP_H51 | House 51 |
| 647104.4 | 4077118 | 0.00028 | 148.99 | 0 | ANNUAL | RP_H52 | House 52 |
| 647291.9 | 4077123 | 0.00032 | 158.62 | 0 | ANNUAL | RP_H53 | House 53 |
| 646765.2 | 4076978 | 0.0002 | 158.67 | 0 | ANNUAL | RP_H54 | House 54 |
| 646995.7 | 4076984 | 0.00022 | 152.34 | 0 | ANNUAL | RP_H55 | House 55 |
| 647317.2 | 4077031 | 0.00028 | 160.22 | 0 | ANNUAL | RP_H56 | House 56 |
| 647398.4 | 4077013 | 0.00029 | 161.26 | 0 | ANNUAL | RP_H57 | House 57 |
| 646978.9 | 4076904 | 0.00019 | 156.81 | 0 | ANNUAL | RP_H58 | House 58 |
| 647015.2 | 4076807 | 0.00017 | 156.21 | 0 | ANNUAL | RP_H59 | House 59 |
| 648045.4 | 4076018 | 0.00023 | 168.26 | 0 | ANNUAL | RP_H6 | House 6 |
| 647164 | 4076802 | 0.00018 | 154.38 | 0 | ANNUAL | RP_H60 | House 60 |
| 647310.6 | 4076940 | 0.00024 | 162.49 | 0 | ANNUAL | RP_H61 | House 61 |
| 647298.1 | 4076805 | 0.0002 | 158 | 0 | ANNUAL | RP_H62 | House 62 |
| 647446.6 | 4076900 | 0.00024 | 159.45 | 0 | ANNUAL | RP_H63 | House 63 |

10/01/21

* AERMET (19191): 2019

12:17:45

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 294 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-------------|
| 647464.5 | 4076781 | 0.00021 | 159.32 | 0 | ANNUAL | RP_H64 | House 64 |
| 647512 | 4076536 | 0.00017 | 159 | 0 | ANNUAL | RP_H65 | House 65 |
| 651131 | 4078767 | 0.00014 | 179.58 | 0 | ANNUAL | RP_H66 | House 66 |
| 648126.3 | 4075955 | 0.00023 | 171.51 | 0 | ANNUAL | RP_H7 | House 7 |
| 648249.3 | 4075970 | 0.00025 | 183.42 | 0 | ANNUAL | RP_H8 | House 8 |
| 648218.6 | 4076109 | 0.00027 | 182.28 | 0 | ANNUAL | RP_H9 | House 9 |

0.27

10/01/21

* AERMET (21112): 2020

12:18:37

- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 294 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description | |
|----------|---------|--------------|--------|-------|--------|----------|---------------------------------|----------|
| 645996 | 4078698 | 0.00072 | 123.85 | 1.5 | ANNUAL | AQ_ST_1 | AQ Monitoring Station | |
| 643903.7 | 4077719 | 0.0002 | 105.68 | 1.5 | ANNUAL | CR_HP_1 | Hazel Hawkins Memorial Hospital | |
| 642056.8 | 4079416 | 0.00027 | 85.12 | 1.5 | ANNUAL | CR_PK_1 | Dunne Park | |
| 642179.1 | 4079950 | 0.00035 | 117.99 | 1.5 | ANNUAL | CR_PK_2 | Vista Park Hill Park | 1 |
| 644733.1 | 4078753 | 0.00042 | 106.44 | 1.5 | ANNUAL | CR_PK_3 | Las Brisas Park | |
| 645608.8 | 4078854 | 0.00066 | 112.86 | 1.5 | ANNUAL | CR_PK_4 | Frank Klauer Memorial Park | |
| 644238.1 | 4078807 | 0.00035 | 95.25 | 1.5 | ANNUAL | CR_PK_5 | Veterans Memorial Park | |
| 645311.5 | 4076559 | 0.00016 | 134.61 | 1.5 | ANNUAL | CR_PK_6 | Park 6 | |
| 649581.7 | 4073424 | 0.00074 | 159.96 | 1.5 | ANNUAL | CR_PK_7 | Park 7 | |
| 645145.1 | 4077181 | 0.0002 | 133 | 1.5 | ANNUAL | CR_SC_1 | Cerra Vista Elem School | |
| 642904.7 | 4079955 | 0.00043 | 86 | 1.5 | ANNUAL | CR_SC_10 | San Andreas Continuation | |
| 645850.7 | 4074015 | 0.00013 | 123 | 1.5 | ANNUAL | CR_SC_11 | SouthSide School | |
| 642105.7 | 4078176 | 0.00018 | 91 | 1.5 | ANNUAL | CR_SC_12 | School 12 | |
| 646058.9 | 4078443 | 0.00064 | 128.52 | 1.5 | ANNUAL | CR_SC_13 | Rancho Santana School | School |
| 647269 | 4075575 | 0.00017 | 158 | 1.5 | ANNUAL | CR_SC_14 | Future School | School 2 |
| 644109.6 | 4078389 | 0.00027 | 98.2 | 1.5 | ANNUAL | CR_SC_2 | Sunnyslope Elem School | |
| 643920.1 | 4077304 | 0.00018 | 101.23 | 1.5 | ANNUAL | CR_SC_3 | Hollister Montessori School | |
| 642961.1 | 4078621 | 0.00024 | 92 | 1.5 | ANNUAL | CR_SC_4 | Rancho San Justo Middle School | |
| 643980 | 4079743 | 0.00055 | 88 | 1.5 | ANNUAL | CR_SC_5 | Marguerite Maze Middle School | |
| 641630.2 | 4079153 | 0.00023 | 85 | 1.5 | ANNUAL | CR_SC_6 | Hollister Prep Schoo | |
| 643350 | 4077181 | 0.00018 | 98.22 | 1.5 | ANNUAL | CR_SC_7 | Ladd Lane Elementary School | |
| 644003 | 4080079 | 0.00063 | 87 | 1.5 | ANNUAL | CR_SC_8 | Gabilan Hills Elementary School | |
| 642244.9 | 4078413 | 0.00019 | 90.17 | 1.5 | ANNUAL | CR_SC_9 | San Benito High School | |
| 642083.4 | 4079794 | 0.00031 | 87.58 | 1.5 | ANNUAL | CR_SR_1 | Jovenes De Antano | |
| 646402 | 4076879 | 0.00021 | 146.33 | 1.5 | ANNUAL | CR_WP_1 | Workplace | |
| 648949 | 4077938 | 0.0007 | 189.45 | 1.5 | ANNUAL | CR_WP_2 | Nearest Workplace | MEIW |
| 647744 | 4079173 | 0.00108 | 155.2 | 1.5 | ANNUAL | G1 | Grid Receptor 1 | |
| 647744 | 4075573 | 0.00021 | 160 | 1.5 | ANNUAL | G10 | Grid Receptor 10 | |
| 651344 | 4075573 | 0.00415 | 252.9 | 1.5 | ANNUAL | G100 | Grid Receptor 100 | |
| 648144 | 4079173 | 0.0007 | 165.9 | 1.5 | ANNUAL | G11 | Grid Receptor 11 | |
| 648144 | 4078773 | 0.00097 | 159.6 | 1.5 | ANNUAL | G12 | Grid Receptor 12 | |
| 648144 | 4078373 | 0.00139 | 146.2 | 1.5 | ANNUAL | G13 | Grid Receptor 13 | |

12:18:37

10/01/21

* AERMET (21112): 2020

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 294 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|--------------|-------|-------|--------|-----|------------------|
| 648144 | 4077973 | 0.00184 | 158.3 | 1.5 | ANNUAL | G14 | Grid Receptor 14 |
| 648144 | 4077573 | 0.00177 | 166.6 | 1.5 | ANNUAL | G15 | Grid Receptor 15 |
| 648144 | 4077173 | 0.00102 | 175.4 | 1.5 | ANNUAL | G16 | Grid Receptor 16 |
| 648144 | 4076773 | 0.00049 | 177.1 | 1.5 | ANNUAL | G17 | Grid Receptor 17 |
| 648144 | 4076373 | 0.00034 | 178 | 1.5 | ANNUAL | G18 | Grid Receptor 18 |
| 648144 | 4075973 | 0.00029 | 173 | 1.5 | ANNUAL | G19 | Grid Receptor 19 |
| 647744 | 4078773 | 0.00137 | 145.4 | 1.5 | ANNUAL | G2 | Grid Receptor 2 |
| 648144 | 4075573 | 0.00027 | 168.8 | 1.5 | ANNUAL | G20 | Grid Receptor 20 |
| 648544 | 4079173 | 0.00045 | 173.5 | 1.5 | ANNUAL | G21 | Grid Receptor 21 |
| 648544 | 4078773 | 0.00057 | 166.2 | 1.5 | ANNUAL | G22 | Grid Receptor 22 |
| 648544 | 4078373 | 0.00078 | 145.4 | 1.5 | ANNUAL | G23 | Grid Receptor 23 |
| 648544 | 4077973 | 0.00136 | 173.9 | 1.5 | ANNUAL | G24 | Grid Receptor 24 |
| 648544 | 4077573 | 0.00244 | 179.6 | 1.5 | ANNUAL | G25 | Grid Receptor 25 |
| 648544 | 4077173 | 0.00261 | 191 | 1.5 | ANNUAL | G26 | Grid Receptor 26 |
| 648544 | 4076773 | 0.00109 | 209.2 | 1.5 | ANNUAL | G27 | Grid Receptor 27 |
| 648544 | 4076373 | 0.00077 | 233.7 | 1.5 | ANNUAL | G28 | Grid Receptor 28 |
| 648544 | 4075973 | 0.00046 | 199.9 | 1.5 | ANNUAL | G29 | Grid Receptor 29 |
| 647744 | 4078373 | 0.00158 | 144.4 | 1.5 | ANNUAL | G3 | Grid Receptor 3 |
| 648544 | 4075573 | 0.00036 | 195.5 | 1.5 | ANNUAL | G30 | Grid Receptor 30 |
| 648944 | 4079173 | 0.0003 | 190.4 | 1.5 | ANNUAL | G31 | Grid Receptor 31 |
| 648944 | 4078773 | 0.00034 | 165.4 | 1.5 | ANNUAL | G32 | Grid Receptor 32 |
| 648944 | 4078373 | 0.00044 | 159.6 | 1.5 | ANNUAL | G33 | Grid Receptor 33 |
| 648944 | 4077973 | 0.00067 | 183.5 | 1.5 | ANNUAL | G34 | Grid Receptor 34 |
| 648944 | 4077573 | 0.00135 | 224 | 1.5 | ANNUAL | G35 | Grid Receptor 35 |
| 648944 | 4077173 | 0.0036 | 194.7 | 1.5 | ANNUAL | G36 | Grid Receptor 36 |
| 648944 | 4076773 | 0.0046 | 193 | 1.5 | ANNUAL | G37 | Grid Receptor 37 |
| 648944 | 4076373 | 0.00139 | 205 | 1.5 | ANNUAL | G38 | Grid Receptor 38 |
| 648944 | 4075973 | 0.00082 | 208.8 | 1.5 | ANNUAL | G39 | Grid Receptor 39 |
| 647744 | 4077973 | 0.00146 | 134.6 | 1.5 | ANNUAL | G4 | Grid Receptor 4 |
| 648944 | 4075573 | 0.00048 | 185.6 | 1.5 | ANNUAL | G40 | Grid Receptor 40 |
| 649344 | 4079173 | 0.00022 | 187.4 | 1.5 | ANNUAL | G41 | Grid Receptor 41 |
| 649344 | 4078773 | 0.00024 | 160.9 | 1.5 | ANNUAL | G42 | Grid Receptor 42 |

10/01/21

* AERMET (21112): 2020

12:18:37

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 294 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|--------------|-------|-------|--------|-----|------------------|
| 649344 | 4078373 | 0.0003 | 200.5 | 1.5 | ANNUAL | G43 | Grid Receptor 43 |
| 649344 | 4077973 | 0.00045 | 229 | 1.5 | ANNUAL | G44 | Grid Receptor 44 |
| 649344 | 4077573 | 0.00259 | 253.3 | 1.5 | ANNUAL | G45 | Grid Receptor 45 |
| 649344 | 4077173 | 0.00102 | 213.4 | 1.5 | ANNUAL | G46 | Grid Receptor 46 |
| 649344 | 4076773 | 0.00294 | 211.3 | 1.5 | ANNUAL | G47 | Grid Receptor 47 |
| 649344 | 4076373 | 0.01325 | 220.2 | 1.5 | ANNUAL | G48 | Grid Receptor 48 |
| 649344 | 4075973 | 0.00247 | 227.2 | 1.5 | ANNUAL | G49 | Grid Receptor 49 |
| 647744 | 4077573 | 0.00101 | 163.8 | 1.5 | ANNUAL | G5 | Grid Receptor 5 |
| 649344 | 4075573 | 0.0011 | 205.5 | 1.5 | ANNUAL | G50 | Grid Receptor 50 |
| 649744 | 4079173 | 0.0002 | 176.1 | 1.5 | ANNUAL | G51 | Grid Receptor 51 |
| 649744 | 4078773 | 0.00023 | 195 | 1.5 | ANNUAL | G52 | Grid Receptor 52 |
| 649744 | 4078373 | 0.00025 | 196.1 | 1.5 | ANNUAL | G53 | Grid Receptor 53 |
| 649744 | 4077973 | 0.0003 | 215.3 | 1.5 | ANNUAL | G54 | Grid Receptor 54 |
| 649744 | 4077573 | 0.00039 | 221.6 | 1.5 | ANNUAL | G55 | Grid Receptor 55 |
| 649744 | 4077173 | 0.00102 | 240.4 | 1.5 | ANNUAL | G56 | Grid Receptor 56 |
| 649744 | 4076773 | 0.00262 | 242.7 | 1.5 | ANNUAL | G57 | Grid Receptor 57 |
| 649744 | 4076373 | 0.01567 | 211.7 | 1.5 | ANNUAL | G58 | Grid Receptor 58 |
| 649744 | 4075973 | 0.01342 | 237.7 | 1.5 | ANNUAL | G59 | Grid Receptor 59 |
| 647744 | 4077173 | 0.00057 | 158.4 | 1.5 | ANNUAL | G6 | Grid Receptor 6 |
| 649744 | 4075573 | 0.00313 | 204.2 | 1.5 | ANNUAL | G60 | Grid Receptor 60 |
| 650144 | 4079173 | 0.00018 | 173 | 1.5 | ANNUAL | G61 | Grid Receptor 61 |
| 650144 | 4078773 | 0.00019 | 171 | 1.5 | ANNUAL | G62 | Grid Receptor 62 |
| 650144 | 4078373 | 0.00021 | 204.6 | 1.5 | ANNUAL | G63 | Grid Receptor 63 |
| 650144 | 4077973 | 0.00024 | 216.5 | 1.5 | ANNUAL | G64 | Grid Receptor 64 |
| 650144 | 4077573 | 0.00137 | 257.7 | 1.5 | ANNUAL | G65 | Grid Receptor 65 |
| 650144 | 4077173 | 0.00081 | 245.8 | 1.5 | ANNUAL | G66 | Grid Receptor 66 |
| 650144 | 4076773 | 0.00134 | 223.3 | 1.5 | ANNUAL | G67 | Grid Receptor 67 |
| 650144 | 4076373 | 0.0053 | 231.4 | 1.5 | ANNUAL | G68 | Grid Receptor 68 |
| 650144 | 4075973 | 0.01201 | 249.4 | 1.5 | ANNUAL | G69 | Grid Receptor 69 |
| 647744 | 4076773 | 0.00034 | 164.7 | 1.5 | ANNUAL | G7 | Grid Receptor 7 |
| 650144 | 4075573 | 0.00549 | 216.4 | 1.5 | ANNUAL | G70 | Grid Receptor 70 |
| 650544 | 4079173 | 0.00016 | 177 | 1.5 | ANNUAL | G71 | Grid Receptor 71 |

12:18:37

10/01/21

* AERMET (21112): 2020

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 294 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| 650544 | 4078773 | 0.00016 | 180.9 | 1.5 | ANNUAL | G72 | Grid Receptor 72 |
| 650544 | 4078373 | 0.00017 | 196.6 | 1.5 | ANNUAL | G73 | Grid Receptor 73 |
| 650544 | 4077973 | 0.00031 | 236.9 | 1.5 | ANNUAL | G74 | Grid Receptor 74 |
| 650544 | 4077573 | 0.00105 | 261.3 | 1.5 | ANNUAL | G75 | Grid Receptor 75 |
| 650544 | 4077173 | 0.00167 | 259.2 | 1.5 | ANNUAL | G76 | Grid Receptor 76 |
| 650544 | 4076773 | 0.00151 | 234.2 | 1.5 | ANNUAL | G77 | Grid Receptor 77 |
| 650544 | 4076373 | 0.00711 | 260.9 | 1.5 | ANNUAL | G78 | Grid Receptor 78 |
| 650544 | 4075973 | 0.00423 | 226.7 | 1.5 | ANNUAL | G79 | Grid Receptor 79 |
| 647744 | 4076373 | 0.00025 | 164 | 1.5 | ANNUAL | G8 | Grid Receptor 8 |
| 650544 | 4075573 | 0.01054 | 268.2 | 1.5 | ANNUAL | G80 | Grid Receptor 80 |
| 650944 | 4079173 | 0.00013 | 181.3 | 1.5 | ANNUAL | G81 | Grid Receptor 81 |
| 650944 | 4078773 | 0.00014 | 178.4 | 1.5 | ANNUAL | G82 | Grid Receptor 82 |
| 650944 | 4078373 | 0.00017 | 214.8 | 1.5 | ANNUAL | G83 | Grid Receptor 83 |
| 650944 | 4077973 | 0.00062 | 249.9 | 1.5 | ANNUAL | G84 | Grid Receptor 84 |
| 650944 | 4077573 | 0.00095 | 276.5 | 1.5 | ANNUAL | G85 | Grid Receptor 85 |
| 650944 | 4077173 | 0.0006 | 225.6 | 1.5 | ANNUAL | G86 | Grid Receptor 86 |
| 650944 | 4076773 | 0.0011 | 219.8 | 1.5 | ANNUAL | G87 | Grid Receptor 87 |
| 650944 | 4076373 | 0.00198 | 209.2 | 1.5 | ANNUAL | G88 | Grid Receptor 88 |
| 650944 | 4075973 | 0.00267 | 216.6 | 1.5 | ANNUAL | G89 | Grid Receptor 89 |
| 647744 | 4075973 | 0.00021 | 160.7 | 1.5 | ANNUAL | G9 | Grid Receptor 9 |
| 650944 | 4075573 | 0.00455 | 243.2 | 1.5 | ANNUAL | G90 | Grid Receptor 90 |
| 651344 | 4079173 | 0.00012 | 191 | 1.5 | ANNUAL | G91 | Grid Receptor 91 |
| 651344 | 4078773 | 0.00014 | 181 | 1.5 | ANNUAL | G92 | Grid Receptor 92 |
| 651344 | 4078373 | 0.0002 | 214.3 | 1.5 | ANNUAL | G93 | Grid Receptor 93 |
| 651344 | 4077973 | 0.00041 | 248.4 | 1.5 | ANNUAL | G94 | Grid Receptor 94 |
| 651344 | 4077573 | 0.00038 | 213.2 | 1.5 | ANNUAL | G95 | Grid Receptor 95 |
| 651344 | 4077173 | 0.00061 | 213.6 | 1.5 | ANNUAL | G96 | Grid Receptor 96 |
| 651344 | 4076773 | 0.00098 | 203.5 | 1.5 | ANNUAL | G97 | Grid Receptor 97 |
| 651344 | 4076373 | 0.00156 | 205.6 | 1.5 | ANNUAL | G98 | Grid Receptor 98 |
| 651344 | 4075973 | 0.002 | 205.8 | 1.5 | ANNUAL | G99 | Grid Receptor 99 |
| 648584.2 | 4077523 | 0.00258 | 183.61 | 1.5 | ANNUAL | P1 | Boundary Perimeter 1 |
| 649484.1 | 4077537 | 0.00194 | 254.01 | 1.5 | ANNUAL | P10 | Boundary Perimeter 10 |

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12:18:37

10/01/21

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PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 294 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| 649584 | 4077539 | 0.00057 | 235.3 | 1.5 | ANNUAL | P11 | Boundary Perimeter 11 |
| 649684 | 4077540 | 0.00042 | 221.29 | 1.5 | ANNUAL | P12 | Boundary Perimeter 12 |
| 649784 | 4077541 | 0.00039 | 222.37 | 1.5 | ANNUAL | P13 | Boundary Perimeter 13 |
| 649884 | 4077542 | 0.00046 | 233.6 | 1.5 | ANNUAL | P14 | Boundary Perimeter 14 |
| 649984 | 4077543 | 0.00117 | 249.54 | 1.5 | ANNUAL | P15 | Boundary Perimeter 15 |
| 650083.9 | 4077546 | 0.00164 | 258.89 | 1.5 | ANNUAL | P16 | Boundary Perimeter 16 |
| 650183.9 | 4077548 | 0.00136 | 259.56 | 1.5 | ANNUAL | P17 | Boundary Perimeter 17 |
| 650283.9 | 4077550 | 0.0012 | 256.77 | 1.5 | ANNUAL | P18 | Boundary Perimeter 18 |
| 650383.8 | 4077552 | 0.00056 | 242.37 | 1.5 | ANNUAL | P19 | Boundary Perimeter 19 |
| 648684.2 | 4077525 | 0.00247 | 197.16 | 1.5 | ANNUAL | P2 | Boundary Perimeter 2 |
| 650483.8 | 4077554 | 0.00053 | 242.23 | 1.5 | ANNUAL | P20 | Boundary Perimeter 20 |
| 650583.8 | 4077557 | 0.0009 | 259.71 | 1.5 | ANNUAL | P21 | Boundary Perimeter 21 |
| 650683.8 | 4077559 | 0.00074 | 257.58 | 1.5 | ANNUAL | P22 | Boundary Perimeter 22 |
| 650776.8 | 4077554 | 0.00091 | 267.9 | 1.5 | ANNUAL | P23 | Boundary Perimeter 23 |
| 650778.9 | 4077454 | 0.00106 | 275.91 | 1.5 | ANNUAL | P24 | Boundary Perimeter 24 |
| 650781 | 4077354 | 0.00137 | 265.73 | 1.5 | ANNUAL | P25 | Boundary Perimeter 25 |
| 650783.1 | 4077254 | 0.00113 | 251.08 | 1.5 | ANNUAL | P26 | Boundary Perimeter 26 |
| 650785.2 | 4077154 | 0.00143 | 252.83 | 1.5 | ANNUAL | P27 | Boundary Perimeter 27 |
| 650787.3 | 4077054 | 0.00131 | 246.1 | 1.5 | ANNUAL | P28 | Boundary Perimeter 28 |
| 650789.4 | 4076954 | 0.00133 | 241.37 | 1.5 | ANNUAL | P29 | Boundary Perimeter 29 |
| 648784.2 | 4077527 | 0.00218 | 209.74 | 1.5 | ANNUAL | Р3 | Boundary Perimeter 3 |
| 650791.5 | 4076854 | 0.00198 | 246.79 | 1.5 | ANNUAL | P30 | Boundary Perimeter 30 |
| 650793.6 | 4076754 | 0.00129 | 228.75 | 1.5 | ANNUAL | P31 | Boundary Perimeter 31 |
| 650754.4 | 4076683 | 0.00136 | 217.76 | 1.5 | ANNUAL | P32 | Boundary Perimeter 32 |
| 650660.2 | 4076650 | 0.00154 | 221.2 | 1.5 | ANNUAL | P33 | Boundary Perimeter 33 |
| 650561.4 | 4076650 | 0.00161 | 220.83 | 1.5 | ANNUAL | P34 | Boundary Perimeter 34 |
| 650462.7 | 4076666 | 0.00165 | 223.42 | 1.5 | ANNUAL | P35 | Boundary Perimeter 35 |
| 650364 | 4076682 | 0.00163 | 222.46 | 1.5 | ANNUAL | P36 | Boundary Perimeter 36 |
| 650264.2 | 4076683 | 0.00172 | 223.19 | 1.5 | ANNUAL | P37 | Boundary Perimeter 37 |
| 650164.7 | 4076674 | 0.00186 | 222.1 | 1.5 | ANNUAL | P38 | Boundary Perimeter 38 |
| 650065.8 | 4076660 | 0.00206 | 217.03 | 1.5 | ANNUAL | P39 | Boundary Perimeter 39 |
| 648884.2 | 4077529 | 0.00165 | 214.25 | 1.5 | ANNUAL | P4 | Boundary Perimeter 4 |

10/01/21

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12:18:37

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 294 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| 649980.4 | 4076627 | 0.00258 | 214.82 | 1.5 | ANNUAL | P40 | Boundary Perimeter 40 |
| 649920.3 | 4076547 | 0.00423 | 214.91 | 1.5 | ANNUAL | P41 | Boundary Perimeter 41 |
| 649852.2 | 4076474 | 0.00704 | 214.09 | 1.5 | ANNUAL | P42 | Boundary Perimeter 42 |
| 649770.7 | 4076417 | 0.01201 | 211.53 | 1.5 | ANNUAL | P43 | Boundary Perimeter 43 |
| 649680.5 | 4076375 | 0.02031 | 210.17 | 1.5 | ANNUAL | P44 | Boundary Perimeter 44 |
| 649580.9 | 4076368 | 0.0303 | 208.52 | 1.5 | ANNUAL | P45 | Boundary Perimeter 45 |
| 649482.5 | 4076384 | 0.03811 | 207.5 | 1.5 | ANNUAL | P46 | Boundary Perimeter 46 |
| 649391.6 | 4076425 | 0.02996 | 205.17 | 1.5 | ANNUAL | P47 | Boundary Perimeter 47 |
| 649303.5 | 4076472 | 0.00434 | 202.16 | 1.5 | ANNUAL | P48 | Boundary Perimeter 48 |
| 649226.2 | 4076535 | 0.00196 | 196.38 | 1.5 | ANNUAL | P49 | Boundary Perimeter 49 |
| 648984.1 | 4077530 | 0.0013 | 221.41 | 1.5 | ANNUAL | P5 | Boundary Perimeter 5 |
| 649156.2 | 4076605 | 0.00449 | 195.87 | 1.5 | ANNUAL | P50 | Boundary Perimeter 50 |
| 649068.3 | 4076653 | 0.00462 | 196.32 | 1.5 | ANNUAL | P51 | Boundary Perimeter 51 |
| 648986.7 | 4076711 | 0.00415 | 192.42 | 1.5 | ANNUAL | P52 | Boundary Perimeter 52 |
| 648936.5 | 4076759 | 0.00407 | 192.46 | 1.5 | ANNUAL | P53 | Boundary Perimeter 53 |
| 648868.6 | 4076833 | 0.00391 | 191.63 | 1.5 | ANNUAL | P54 | Boundary Perimeter 54 |
| 648797.2 | 4076902 | 0.00346 | 186.32 | 1.5 | ANNUAL | P55 | Boundary Perimeter 55 |
| 648710.6 | 4076952 | 0.00271 | 179.81 | 1.5 | ANNUAL | P56 | Boundary Perimeter 56 |
| 648620.8 | 4076996 | 0.00218 | 176.23 | 1.5 | ANNUAL | P57 | Boundary Perimeter 57 |
| 648607.2 | 4077051 | 0.00238 | 175.02 | 1.5 | ANNUAL | P58 | Boundary Perimeter 58 |
| 648680.1 | 4077119 | 0.00337 | 180.62 | 1.5 | ANNUAL | P59 | Boundary Perimeter 59 |
| 649084.1 | 4077532 | 0.00099 | 216.54 | 1.5 | ANNUAL | P6 | Boundary Perimeter 6 |
| 648759.2 | 4077180 | 0.0039 | 183.47 | 1.5 | ANNUAL | P60 | Boundary Perimeter 60 |
| 648791.4 | 4077262 | 0.00379 | 202.88 | 1.5 | ANNUAL | P61 | Boundary Perimeter 61 |
| 648788.5 | 4077362 | 0.00277 | 178.21 | 1.5 | ANNUAL | P62 | Boundary Perimeter 62 |
| 648691.3 | 4077361 | 0.00301 | 176.25 | 1.5 | ANNUAL | P63 | Boundary Perimeter 63 |
| 648591.4 | 4077357 | 0.00293 | 176 | 1.5 | ANNUAL | P64 | Boundary Perimeter 64 |
| 648525.7 | 4077371 | 0.00273 | 175.24 | 1.5 | ANNUAL | P65 | Boundary Perimeter 65 |
| 648586.9 | 4077430 | 0.00278 | 175.13 | 1.5 | ANNUAL | P66 | Boundary Perimeter 66 |
| 649184.1 | 4077534 | 0.00091 | 230.71 | 1.5 | ANNUAL | P7 | Boundary Perimeter 7 |
| 649284.1 | 4077535 | 0.00195 | 248.08 | 1.5 | ANNUAL | P8 | Boundary Perimeter 8 |
| 649384.1 | 4077536 | 0.00336 | 258.43 | 1.5 | ANNUAL | P9 | Boundary Perimeter 9 |

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10/01/21

* AERMET (21112): 2020

12:18:37

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* FOR A TOTAL OF 294 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|--------------|--------|-------|--------|--------|-----------------|
| 645930 | 4077983 | 0.00039 | 127.38 | 1.5 | ANNUAL | RP_G1 | New Development |
| 645930 | 4078083 | 0.00043 | 127.58 | 1.5 | ANNUAL | RP_G10 | New Development |
| 646030 | 4078083 | 0.00046 | 130.56 | 1.5 | ANNUAL | RP_G11 | New Development |
| 646130 | 4078083 | 0.00049 | 134.35 | 1.5 | ANNUAL | RP_G12 | New Development |
| 646230 | 4078083 | 0.00052 | 139.22 | 1.5 | ANNUAL | RP_G13 | New Development |
| 646330 | 4078083 | 0.00056 | 144.65 | 1.5 | ANNUAL | RP_G14 | New Development |
| 646430 | 4078083 | 0.00059 | 142.28 | 1.5 | ANNUAL | RP_G15 | New Development |
| 646530 | 4078083 | 0.00063 | 146.76 | 1.5 | ANNUAL | RP_G16 | New Development |
| 646630 | 4078083 | 0.00067 | 150.64 | 1.5 | ANNUAL | RP_G17 | New Development |
| 646730 | 4078083 | 0.00072 | 155.4 | 1.5 | ANNUAL | RP_G18 | New Development |
| 645930 | 4078183 | 0.00048 | 127.22 | 1.5 | ANNUAL | RP_G19 | New Development |
| 646030 | 4077983 | 0.00042 | 131.21 | 1.5 | ANNUAL | RP_G2 | New Development |
| 646030 | 4078183 | 0.00051 | 130.56 | 1.5 | ANNUAL | RP_G20 | New Development |
| 646130 | 4078183 | 0.00054 | 133.89 | 1.5 | ANNUAL | RP_G21 | New Development |
| 646230 | 4078183 | 0.00058 | 140.45 | 1.5 | ANNUAL | RP_G22 | New Development |
| 646330 | 4078183 | 0.00061 | 146.94 | 1.5 | ANNUAL | RP_G23 | New Development |
| 646430 | 4078183 | 0.00064 | 140.23 | 1.5 | ANNUAL | RP_G24 | New Development |
| 646530 | 4078183 | 0.00068 | 147.25 | 1.5 | ANNUAL | RP_G25 | New Development |
| 646630 | 4078183 | 0.00073 | 151.56 | 1.5 | ANNUAL | RP_G26 | New Development |
| 646730 | 4078183 | 0.00077 | 157.78 | 1.5 | ANNUAL | RP_G27 | New Development |
| 645930 | 4078283 | 0.00053 | 126.06 | 1.5 | ANNUAL | RP_G28 | New Development |
| 646030 | 4078283 | 0.00056 | 129.56 | 1.5 | ANNUAL | RP_G29 | New Development |
| 646130 | 4077983 | 0.00044 | 135.89 | 1.5 | ANNUAL | RP_G3 | New Development |
| 646130 | 4078283 | 0.00059 | 132.89 | 1.5 | ANNUAL | RP_G30 | New Development |
| 646230 | 4078283 | 0.00062 | 139.24 | 1.5 | ANNUAL | RP_G31 | New Development |
| 646330 | 4078283 | 0.00066 | 142.68 | 1.5 | ANNUAL | RP_G32 | New Development |
| 646430 | 4078283 | 0.00069 | 140.02 | 1.5 | ANNUAL | RP_G33 | New Development |
| 646530 | 4078283 | 0.00073 | 147.22 | 1.5 | ANNUAL | RP_G34 | New Development |
| 646630 | 4078283 | 0.00078 | 151.56 | 1.5 | ANNUAL | RP_G35 | New Development |
| 646730 | 4078283 | 0.00083 | 156.78 | 1.5 | ANNUAL | RP_G36 | New Development |
| 646230 | 4077983 | 0.00047 | 139.18 | 1.5 | ANNUAL | RP_G4 | New Development |
| 646330 | 4077983 | 0.0005 | 140.76 | 1.5 | ANNUAL | RP_G5 | New Development |

10/01/21

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12:18:37

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- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-----------------|
| 646430 | 4077983 | 0.00054 | 143.89 | 1.5 | ANNUAL | RP_G6 | New Development |
| 646530 | 4077983 | 0.00058 | 145.22 | 1.5 | ANNUAL | RP_G7 | New Development |
| 646630 | 4077983 | 0.00061 | 147.21 | 1.5 | ANNUAL | RP_G8 | New Development |
| 646730 | 4077983 | 0.00066 | 148.3 | 1.5 | ANNUAL | RP_G9 | New Development |
| 648659.3 | 4077241 | 0.00374 | 205.79 | 1.5 | ANNUAL | RP_H1 | House 1 |
| 648071.2 | 4076116 | 0.00028 | 169.6 | 1.5 | ANNUAL | RP_H10 | House 10 |
| 648247.4 | 4076278 | 0.00036 | 184.55 | 1.5 | ANNUAL | RP_H11 | House 11 |
| 648027.2 | 4076255 | 0.00028 | 169.38 | 1.5 | ANNUAL | RP_H12 | House 12 |
| 648065.8 | 4076359 | 0.00031 | 173.83 | 1.5 | ANNUAL | RP_H13 | House 13 |
| 648138.7 | 4076400 | 0.00034 | 178.22 | 1.5 | ANNUAL | RP_H14 | House 14 |
| 648254.7 | 4076411 | 0.0004 | 191.28 | 1.5 | ANNUAL | RP_H15 | House 15 |
| 647877.8 | 4076365 | 0.00027 | 165.39 | 1.5 | ANNUAL | RP_H16 | House 16 |
| 647866.6 | 4076240 | 0.00025 | 163.13 | 1.5 | ANNUAL | RP_H17 | House 17 |
| 647921 | 4076247 | 0.00026 | 164 | 1.5 | ANNUAL | RP_H18 | House 18 |
| 647708.8 | 4076352 | 0.00024 | 163.52 | 1.5 | ANNUAL | RP_H19 | House 19 |
| 648371.7 | 4075470 | 0.00029 | 173.69 | 1.5 | ANNUAL | RP_H2 | House 2 |
| 647703.6 | 4076251 | 0.00023 | 162.17 | 1.5 | ANNUAL | RP_H20 | House 20 |
| 647718.8 | 4076104 | 0.00021 | 159.35 | 1.5 | ANNUAL | RP_H21 | House 21 |
| 647843.3 | 4076125 | 0.00023 | 163 | 1.5 | ANNUAL | RP_H22 | House 22 |
| 647842.3 | 4076500 | 0.00029 | 167.93 | 1.5 | ANNUAL | RP_H23 | House 23 |
| 647727.8 | 4076644 | 0.0003 | 164.15 | 1.5 | ANNUAL | RP_H24 | House 24 |
| 647823.9 | 4076644 | 0.00032 | 168.29 | 1.5 | ANNUAL | RP_H25 | House 25 |
| 647886.5 | 4076593 | 0.00032 | 169.05 | 1.5 | ANNUAL | RP_H26 | House 26 |
| 647810.1 | 4076854 | 0.00039 | 162.9 | 1.5 | ANNUAL | RP_H27 | House 27 |
| 647697.5 | 4076989 | 0.00042 | 161.42 | 1.5 | ANNUAL | RP_H28 | House 28 |
| 648225.5 | 4076182 | 0.00033 | 183.22 | 1.5 | ANNUAL | RP_H29 | House 29 |
| 647678.2 | 4075969 | 0.0002 | 159.5 | 1.5 | ANNUAL | RP_H3 | House 3 |
| 645876.3 | 4077487 | 0.00026 | 127.13 | 1.5 | ANNUAL | RP_H30 | House 30 |
| 650902 | 4076062 | 0.00261 | 215.24 | 1.5 | ANNUAL | RP_H31 | House 31 |
| 651490 | 4076597 | 0.00122 | 205.5 | 1.5 | ANNUAL | RP_H32 | House 32 |
| 651565 | 4077067 | 0.0007 | 213.93 | 1.5 | ANNUAL | RP_H33 | House 33 |
| 648672.8 | 4075307 | 0.0004 | 225.91 | 1.5 | ANNUAL | RP_H34 | House 34 |

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12:18:37

10/01/21

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FOR A TOTAL OF 294 RECEPTORS.

FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-------------|
| 648383.6 | 4075469 | 0.00029 | 174.44 | 1.5 | ANNUAL | RP_H35 | House 35 |
| 646379.4 | 4077233 | 0.00026 | 146 | 1.5 | ANNUAL | RP_H36 | House 36 |
| 651849.7 | 4075865 | 0.00163 | 201.97 | 1.5 | ANNUAL | RP_H37 | House 37 |
| 652045.5 | 4076210 | 0.00126 | 196.88 | 1.5 | ANNUAL | RP_H38 | House 38 |
| 652255.7 | 4076391 | 0.0011 | 197.06 | 1.5 | ANNUAL | RP_H39 | House 39 |
| 647815.3 | 4075985 | 0.00022 | 162.04 | 1.5 | ANNUAL | RP_H4 | House 4 |
| 646853.7 | 4077373 | 0.00036 | 145.99 | 1.5 | ANNUAL | RP_H40 | House 40 |
| 647050.2 | 4077360 | 0.0004 | 145 | 1.5 | ANNUAL | RP_H41 | House 41 |
| 647286.4 | 4077474 | 0.00056 | 149.68 | 1.5 | ANNUAL | RP_H42 | House 42 |
| 647359.1 | 4077340 | 0.0005 | 154.45 | 1.5 | ANNUAL | RP_H43 | House 43 |
| 647490.4 | 4077329 | 0.00056 | 162.28 | 1.5 | ANNUAL | RP_H44 | House 44 |
| 647522.2 | 4077252 | 0.00051 | 164.3 | 1.5 | ANNUAL | RP_H45 | House 45 |
| 647517.8 | 4077139 | 0.00044 | 164.01 | 1.5 | ANNUAL | RP_H46 | House 46 |
| 646819 | 4077258 | 0.00032 | 151.53 | 1.5 | ANNUAL | RP_H47 | House 47 |
| 646778.7 | 4077128 | 0.00028 | 158.51 | 1.5 | ANNUAL | RP_H48 | House 48 |
| 646987.3 | 4077213 | 0.00033 | 146.44 | 1.5 | ANNUAL | RP_H49 | House 49 |
| 647898.2 | 4076033 | 0.00024 | 163.83 | 1.5 | ANNUAL | RP_H5 | House 5 |
| 647241.8 | 4077227 | 0.00039 | 154.85 | 1.5 | ANNUAL | RP_H50 | House 50 |
| 646773.1 | 4077063 | 0.00027 | 159 | 1.5 | ANNUAL | RP_H51 | House 51 |
| 647104.4 | 4077118 | 0.00032 | 148.99 | 1.5 | ANNUAL | RP_H52 | House 52 |
| 647291.9 | 4077123 | 0.00036 | 158.62 | 1.5 | ANNUAL | RP_H53 | House 53 |
| 646765.2 | 4076978 | 0.00025 | 158.67 | 1.5 | ANNUAL | RP_H54 | House 54 |
| 646995.7 | 4076984 | 0.00027 | 152.34 | 1.5 | ANNUAL | RP_H55 | House 55 |
| 647317.2 | 4077031 | 0.00033 | 160.22 | 1.5 | ANNUAL | RP_H56 | House 56 |
| 647398.4 | 4077013 | 0.00034 | 161.26 | 1.5 | ANNUAL | RP_H57 | House 57 |
| 646978.9 | 4076904 | 0.00026 | 156.81 | 1.5 | ANNUAL | RP_H58 | House 58 |
| 647015.2 | 4076807 | 0.00024 | 156.21 | 1.5 | ANNUAL | RP_H59 | House 59 |
| 648045.4 | 4076018 | 0.00026 | 168.26 | 1.5 | ANNUAL | RP_H6 | House 6 |
| 647164 | 4076802 | 0.00025 | 154.38 | 1.5 | ANNUAL | RP_H60 | House 60 |
| 647310.6 | 4076940 | 0.00031 | 162.49 | 1.5 | ANNUAL | RP_H61 | House 61 |
| 647298.1 | 4076805 | 0.00027 | 158 | 1.5 | ANNUAL | RP_H62 | House 62 |
| 647446.6 | 4076900 | 0.00032 | 159.45 | 1.5 | ANNUAL | RP_H63 | House 63 |

12:18:37

* AERMET (21112): 2020

10/01/21

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

FOR A TOTAL OF 294 RECEPTORS.

FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-------------|
| 647464.5 | 4076781 | 0.00029 | 159.32 | 1.5 | ANNUAL | RP_H64 | House 64 |
| 647512 | 4076536 | 0.00025 | 159 | 1.5 | ANNUAL | RP_H65 | House 65 |
| 651131 | 4078767 | 0.00013 | 179.58 | 1.5 | ANNUAL | RP_H66 | House 66 |
| 648126.3 | 4075955 | 0.00028 | 171.51 | 1.5 | ANNUAL | RP_H7 | House 7 |
| 648249.3 | 4075970 | 0.00032 | 183.42 | 1.5 | ANNUAL | RP_H8 | House 8 |
| 648218.6 | 4076109 | 0.00032 | 182.28 | 1.5 | ANNUAL | RP_H9 | House 9 |

* AERMOD (19191): Appendix B Attachment

10/05/21

* AERMET (21112): John Smith Road DPM Grnd 2018

15:31:43

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description | |
|----------|---------|--------------|--------|-------|--------|----------|------------------------------------|----------|
| 645996 | 4078698 | 0.10417 | 123.85 | 0 | ANNUAL | AQ_ST_1 | AQ Monitoring Station | |
| 643903.7 | 4077719 | 0.03515 | 105.68 | 0 | ANNUAL | CR_HP_1 | Hazel Hawkins Memorial Hospital | |
| 642056.8 | 4079416 | 0.02005 | 85.12 | 0 | ANNUAL | CR_PK_1 | Dunne Park | |
| 642179.1 | 4079950 | 0.02048 | 117.99 | 0 | ANNUAL | CR_PK_2 | Vista Park Hill Park | |
| 644733.1 | 4078753 | 0.06192 | 106.44 | 0 | ANNUAL | CR_PK_3 | Las Brisas Park | |
| 645608.8 | 4078854 | 0.08217 | 112.86 | 0 | ANNUAL | CR_PK_4 | Frank Klauer Memorial Park | |
| 644238.1 | 4078807 | 0.04588 | 95.25 | 0 | ANNUAL | CR_PK_5 | Veterans Memorial Park | |
| 645311.5 | 4076559 | 0.04680 | 134.61 | 0 | ANNUAL | CR_PK_6 | Park 6 | |
| 649581.7 | 4073424 | 0.03264 | 159.96 | 0 | ANNUAL | CR_PK_7 | Park 7 | |
| 645145.1 | 4077181 | 0.07226 | 133 | 0 | ANNUAL | CR_SC_1 | Cerra Vista Elem School | |
| 642904.7 | 4079955 | 0.02149 | 86 | 0 | ANNUAL | CR_SC_10 | San Andreas Continuation | |
| 645850.7 | 4074015 | 0.01606 | 123 | 0 | ANNUAL | CR_SC_11 | SouthSide School | |
| 642105.7 | 4078176 | 0.01730 | 91 | 0 | ANNUAL | CR_SC_12 | School 12 | |
| 646058.9 | 4078443 | 0.13956 | 128.52 | 0 | ANNUAL | CR_SC_13 | Rancho Santana School | School 1 |
| 647269 | 4075575 | 0.07199 | 158 | 0 | ANNUAL | CR_SC_14 | Future School | School 2 |
| 648466 | 4074106 | 0.04207 | 159 | 0 | ANNUAL | CR_SC_15 | Tres Pinos Union Elementary School | |
| 644109.6 | 4078389 | 0.04932 | 98.2 | 0 | ANNUAL | CR_SC_2 | Sunnyslope Elem School | |
| 643920.1 | 4077304 | 0.03058 | 101.23 | 0 | ANNUAL | CR_SC_3 | Hollister Montessori School | |
| 642961.1 | 4078621 | 0.02888 | 92 | 0 | ANNUAL | CR_SC_4 | Rancho San Justo Middle School | |
| 643980 | 4079743 | 0.03253 | 88 | 0 | ANNUAL | CR_SC_5 | Marguerite Maze Middle School | |
| 641630.2 | 4079153 | 0.01817 | 85 | 0 | ANNUAL | CR_SC_6 | Hollister Prep Schoo | |
| 643350 | 4077181 | 0.02265 | 98.22 | 0 | ANNUAL | CR_SC_7 | Ladd Lane Elementary School | |
| 644003 | 4080079 | 0.03063 | 87 | 0 | ANNUAL | CR_SC_8 | Gabilan Hills Elementary School | |
| 642244.9 | 4078413 | 0.02139 | 90.17 | 0 | ANNUAL | CR_SC_9 | San Benito High School | |
| 642083.4 | 4079794 | 0.01861 | 87.58 | 0 | ANNUAL | CR_SR_1 | Jovenes De Antano | |
| 646402 | 4076879 | 0.19749 | 146.33 | 0 | ANNUAL | CR_WP_1 | Workplace | MEIW |
| 648949 | 4077938 | 0.04164 | 189.45 | 0 | ANNUAL | CR_WP_2 | Nearest Workplace | |
| 647744 | 4079173 | 0.04108 | 155.2 | 0 | ANNUAL | G1 | Grid Receptor 1 | |
| 647744 | 4075573 | 0.09070 | 160 | 0 | ANNUAL | G10 | Grid Receptor 10 | |
| 651344 | 4075573 | 0.01029 | 252.9 | 0 | ANNUAL | G100 | Grid Receptor 100 | |
| 648144 | 4079173 | 0.03314 | 165.9 | 0 | ANNUAL | G11 | Grid Receptor 11 | |
| 648144 | 4078773 | 0.04949 | 159.6 | 0 | ANNUAL | G12 | Grid Receptor 12 | |

15:31:43

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|--------------|-------|-------|--------|-----|------------------|
| 648144 | 4078373 | 0.07519 | 146.2 | 0 | ANNUAL | G13 | Grid Receptor 13 |
| 648144 | 4077973 | 0.12854 | 158.3 | 0 | ANNUAL | G14 | Grid Receptor 14 |
| 648144 | 4077573 | 0.28232 | 166.6 | 0 | ANNUAL | G15 | Grid Receptor 15 |
| 648144 | 4077173 | 0.73398 | 175.4 | 0 | ANNUAL | G16 | Grid Receptor 16 |
| 648144 | 4076773 | 0.52533 | 177.1 | 0 | ANNUAL | G17 | Grid Receptor 17 |
| 648144 | 4076373 | 0.19492 | 178 | 0 | ANNUAL | G18 | Grid Receptor 18 |
| 648144 | 4075973 | 0.13789 | 173 | 0 | ANNUAL | G19 | Grid Receptor 19 |
| 647744 | 4078773 | 0.06025 | 145.4 | 0 | ANNUAL | G2 | Grid Receptor 2 |
| 648144 | 4075573 | 0.10067 | 168.8 | 0 | ANNUAL | G20 | Grid Receptor 20 |
| 648544 | 4079173 | 0.02624 | 173.5 | 0 | ANNUAL | G21 | Grid Receptor 21 |
| 648544 | 4078773 | 0.04026 | 166.2 | 0 | ANNUAL | G22 | Grid Receptor 22 |
| 648544 | 4078373 | 0.06010 | 145.4 | 0 | ANNUAL | G23 | Grid Receptor 23 |
| 648544 | 4077973 | 0.07788 | 173.9 | 0 | ANNUAL | G24 | Grid Receptor 24 |
| 648544 | 4077573 | 0.12531 | 179.6 | 0 | ANNUAL | G25 | Grid Receptor 25 |
| 648544 | 4077173 | 0.24906 | 191 | 0 | ANNUAL | G26 | Grid Receptor 26 |
| 648544 | 4076773 | 0.17285 | 209.2 | 0 | ANNUAL | G27 | Grid Receptor 27 |
| 648544 | 4076373 | 0.06348 | 233.7 | 0 | ANNUAL | G28 | Grid Receptor 28 |
| 648544 | 4075973 | 0.06970 | 199.9 | 0 | ANNUAL | G29 | Grid Receptor 29 |
| 647744 | 4078373 | 0.09569 | 144.4 | 0 | ANNUAL | G3 | Grid Receptor 3 |
| 648544 | 4075573 | 0.05749 | 195.5 | 0 | ANNUAL | G30 | Grid Receptor 30 |
| 648944 | 4079173 | 0.01523 | 190.4 | 0 | ANNUAL | G31 | Grid Receptor 31 |
| 648944 | 4078773 | 0.03560 | 165.4 | 0 | ANNUAL | G32 | Grid Receptor 32 |
| 648944 | 4078373 | 0.04884 | 159.6 | 0 | ANNUAL | G33 | Grid Receptor 33 |
| 648944 | 4077973 | 0.04927 | 183.5 | 0 | ANNUAL | G34 | Grid Receptor 34 |
| 648944 | 4077573 | 0.02574 | 224 | 0 | ANNUAL | G35 | Grid Receptor 35 |
| 648944 | 4076373 | 0.09341 | 205 | 0 | ANNUAL | G38 | Grid Receptor 38 |
| 648944 | 4075973 | 0.06168 | 208.8 | 0 | ANNUAL | G39 | Grid Receptor 39 |
| 647744 | 4077973 | 0.16795 | 134.6 | 0 | ANNUAL | G4 | Grid Receptor 4 |
| 648944 | 4075573 | 0.08598 | 185.6 | 0 | ANNUAL | G40 | Grid Receptor 40 |
| 649344 | 4079173 | 0.01586 | 187.4 | 0 | ANNUAL | G41 | Grid Receptor 41 |
| 649344 | 4078773 | 0.03146 | 160.9 | 0 | ANNUAL | G42 | Grid Receptor 42 |
| 649344 | 4078373 | 0.01604 | 200.5 | 0 | ANNUAL | G43 | Grid Receptor 43 |

* AERMET (21112): John Smith Road DPM Grnd 2018

15:31:43

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description | |
|--------|---------|--------------|-------|-------|--------|-----|------------------|-----|
| 649344 | 4077973 | 0.01313 | 229 | 0 | ANNUAL | G44 | Grid Receptor 44 | |
| 649344 | 4077573 | 0.01554 | 253.3 | 0 | ANNUAL | G45 | Grid Receptor 45 | |
| 649344 | 4076373 | 0.05119 | 220.2 | 0 | ANNUAL | G48 | Grid Receptor 48 | |
| 649344 | 4075973 | 0.03918 | 227.2 | 0 | ANNUAL | G49 | Grid Receptor 49 | |
| 647744 | 4077573 | 0.44717 | 163.8 | 0 | ANNUAL | G5 | Grid Receptor 5 | |
| 649344 | 4075573 | 0.04797 | 205.5 | 0 | ANNUAL | G50 | Grid Receptor 50 | |
| 649744 | 4079173 | 0.01900 | 176.1 | 0 | ANNUAL | G51 | Grid Receptor 51 | |
| 649744 | 4078773 | 0.01409 | 195 | 0 | ANNUAL | G52 | Grid Receptor 52 | |
| 649744 | 4078373 | 0.01829 | 196.1 | 0 | ANNUAL | G53 | Grid Receptor 53 | |
| 649744 | 4077973 | 0.01577 | 215.3 | 0 | ANNUAL | G54 | Grid Receptor 54 | |
| 649744 | 4077573 | 0.01830 | 221.6 | 0 | ANNUAL | G55 | Grid Receptor 55 | |
| 649744 | 4076373 | 0.04225 | 211.7 | 0 | ANNUAL | G58 | Grid Receptor 58 | |
| 649744 | 4075973 | 0.02627 | 237.7 | 0 | ANNUAL | G59 | Grid Receptor 59 | |
| 647744 | 4077173 | 3.44889 | 158.4 | 0 | ANNUAL | G6 | Grid Receptor 6 | PMI |
| 649744 | 4075573 | 0.04456 | 204.2 | 0 | ANNUAL | G60 | Grid Receptor 60 | |
| 650144 | 4079173 | 0.01824 | 173 | 0 | ANNUAL | G61 | Grid Receptor 61 | |
| 650144 | 4078773 | 0.02235 | 171 | 0 | ANNUAL | G62 | Grid Receptor 62 | |
| 650144 | 4078373 | 0.01381 | 204.6 | 0 | ANNUAL | G63 | Grid Receptor 63 | |
| 650144 | 4077973 | 0.01408 | 216.5 | 0 | ANNUAL | G64 | Grid Receptor 64 | |
| 650144 | 4077573 | 0.01052 | 257.7 | 0 | ANNUAL | G65 | Grid Receptor 65 | |
| 650144 | 4076373 | 0.02214 | 231.4 | 0 | ANNUAL | G68 | Grid Receptor 68 | |
| 650144 | 4075973 | 0.01794 | 249.4 | 0 | ANNUAL | G69 | Grid Receptor 69 | |
| 647744 | 4076773 | 0.44237 | 164.7 | 0 | ANNUAL | G7 | Grid Receptor 7 | |
| 650144 | 4075573 | 0.02773 | 216.4 | 0 | ANNUAL | G70 | Grid Receptor 70 | |
| 650544 | 4079173 | 0.01605 | 177 | 0 | ANNUAL | G71 | Grid Receptor 71 | |
| 650544 | 4078773 | 0.01785 | 180.9 | 0 | ANNUAL | G72 | Grid Receptor 72 | |
| 650544 | 4078373 | 0.01630 | 196.6 | 0 | ANNUAL | G73 | Grid Receptor 73 | |
| 650544 | 4077973 | 0.00905 | 236.9 | 0 | ANNUAL | G74 | Grid Receptor 74 | |
| 650544 | 4077573 | 0.00880 | 261.3 | 0 | ANNUAL | G75 | Grid Receptor 75 | |
| 650544 | 4076373 | 0.01290 | 260.9 | 0 | ANNUAL | G78 | Grid Receptor 78 | |
| 650544 | 4075973 | 0.01983 | 226.7 | 0 | ANNUAL | G79 | Grid Receptor 79 | |
| 647744 | 4076373 | 0.20409 | 164 | 0 | ANNUAL | G8 | Grid Receptor 8 | |

15:31:43

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| 650544 | 4075573 | 0.01189 | 268.2 | 0 | ANNUAL | G80 | Grid Receptor 80 |
| 650944 | 4079173 | 0.01384 | 181.3 | 0 | ANNUAL | G81 | Grid Receptor 81 |
| 650944 | 4078773 | 0.01646 | 178.4 | 0 | ANNUAL | G82 | Grid Receptor 82 |
| 650944 | 4078373 | 0.00958 | 214.8 | 0 | ANNUAL | G83 | Grid Receptor 83 |
| 650944 | 4077973 | 0.00712 | 249.9 | 0 | ANNUAL | G84 | Grid Receptor 84 |
| 650944 | 4077573 | 0.00692 | 276.5 | 0 | ANNUAL | G85 | Grid Receptor 85 |
| 650944 | 4077173 | 0.01369 | 225.6 | 0 | ANNUAL | G86 | Grid Receptor 86 |
| 650944 | 4076773 | 0.01612 | 219.8 | 0 | ANNUAL | G87 | Grid Receptor 87 |
| 650944 | 4076373 | 0.02195 | 209.2 | 0 | ANNUAL | G88 | Grid Receptor 88 |
| 650944 | 4075973 | 0.02023 | 216.6 | 0 | ANNUAL | G89 | Grid Receptor 89 |
| 647744 | 4075973 | 0.13044 | 160.7 | 0 | ANNUAL | G9 | Grid Receptor 9 |
| 650944 | 4075573 | 0.01297 | 243.2 | 0 | ANNUAL | G90 | Grid Receptor 90 |
| 651344 | 4079173 | 0.01052 | 191 | 0 | ANNUAL | G91 | Grid Receptor 91 |
| 651344 | 4078773 | 0.01462 | 181 | 0 | ANNUAL | G92 | Grid Receptor 92 |
| 651344 | 4078373 | 0.00908 | 214.3 | 0 | ANNUAL | G93 | Grid Receptor 93 |
| 651344 | 4077973 | 0.00667 | 248.4 | 0 | ANNUAL | G94 | Grid Receptor 94 |
| 651344 | 4077573 | 0.01385 | 213.2 | 0 | ANNUAL | G95 | Grid Receptor 95 |
| 651344 | 4077173 | 0.01476 | 213.6 | 0 | ANNUAL | G96 | Grid Receptor 96 |
| 651344 | 4076773 | 0.01979 | 203.5 | 0 | ANNUAL | G97 | Grid Receptor 97 |
| 651344 | 4076373 | 0.02033 | 205.6 | 0 | ANNUAL | G98 | Grid Receptor 98 |
| 651344 | 4075973 | 0.02129 | 205.8 | 0 | ANNUAL | G99 | Grid Receptor 99 |
| 648584.2 | 4077523 | 0.11136 | 183.61 | 0 | ANNUAL | P1 | Boundary Perimeter 1 |
| 649484.1 | 4077537 | 0.01462 | 254.01 | 0 | ANNUAL | P10 | Boundary Perimeter 10 |
| 649584 | 4077539 | 0.01656 | 235.3 | 0 | ANNUAL | P11 | Boundary Perimeter 11 |
| 649684 | 4077540 | 0.01925 | 221.29 | 0 | ANNUAL | P12 | Boundary Perimeter 12 |
| 649784 | 4077541 | 0.01811 | 222.37 | 0 | ANNUAL | P13 | Boundary Perimeter 13 |
| 649884 | 4077542 | 0.01476 | 233.6 | 0 | ANNUAL | P14 | Boundary Perimeter 14 |
| 649984 | 4077543 | 0.01196 | 249.54 | 0 | ANNUAL | P15 | Boundary Perimeter 15 |
| 650083.9 | 4077546 | 0.01086 | 258.89 | 0 | ANNUAL | P16 | Boundary Perimeter 16 |
| 650183.9 | 4077548 | 0.01041 | 259.56 | 0 | ANNUAL | P17 | Boundary Perimeter 17 |
| 650283.9 | 4077550 | 0.01008 | 256.77 | 0 | ANNUAL | P18 | Boundary Perimeter 18 |
| 650383.8 | 4077552 | 0.01117 | 242.37 | 0 | ANNUAL | P19 | Boundary Perimeter 19 |

15:31:43

- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| 648684.2 | 4077525 | 0.05621 | 197.16 | 0 | ANNUAL | P2 | Boundary Perimeter 2 |
| 650483.8 | 4077554 | 0.01084 | 242.23 | 0 | ANNUAL | P20 | Boundary Perimeter 20 |
| 650583.8 | 4077557 | 0.00886 | 259.71 | 0 | ANNUAL | P21 | Boundary Perimeter 21 |
| 650683.8 | 4077559 | 0.00872 | 257.58 | 0 | ANNUAL | P22 | Boundary Perimeter 22 |
| 650776.8 | 4077554 | 0.00782 | 267.9 | 0 | ANNUAL | P23 | Boundary Perimeter 23 |
| 650778.9 | 4077454 | 0.00801 | 275.91 | 0 | ANNUAL | P24 | Boundary Perimeter 24 |
| 650781 | 4077354 | 0.00918 | 265.73 | 0 | ANNUAL | P25 | Boundary Perimeter 25 |
| 650783.1 | 4077254 | 0.01081 | 251.08 | 0 | ANNUAL | P26 | Boundary Perimeter 26 |
| 650785.2 | 4077154 | 0.01050 | 252.83 | 0 | ANNUAL | P27 | Boundary Perimeter 27 |
| 650787.3 | 4077054 | 0.01096 | 246.1 | 0 | ANNUAL | P28 | Boundary Perimeter 28 |
| 650789.4 | 4076954 | 0.01192 | 241.37 | 0 | ANNUAL | P29 | Boundary Perimeter 29 |
| 648784.2 | 4077527 | 0.03844 | 209.74 | 0 | ANNUAL | Р3 | Boundary Perimeter 3 |
| 650791.5 | 4076854 | 0.01171 | 246.79 | 0 | ANNUAL | P30 | Boundary Perimeter 30 |
| 650793.6 | 4076754 | 0.01478 | 228.75 | 0 | ANNUAL | P31 | Boundary Perimeter 31 |
| 650754.4 | 4076683 | 0.01871 | 217.76 | 0 | ANNUAL | P32 | Boundary Perimeter 32 |
| 650660.2 | 4076650 | 0.01860 | 221.2 | 0 | ANNUAL | P33 | Boundary Perimeter 33 |
| 650561.4 | 4076650 | 0.01966 | 220.83 | 0 | ANNUAL | P34 | Boundary Perimeter 34 |
| 650462.7 | 4076666 | 0.01967 | 223.42 | 0 | ANNUAL | P35 | Boundary Perimeter 35 |
| 650364 | 4076682 | 0.02102 | 222.46 | 0 | ANNUAL | P36 | Boundary Perimeter 36 |
| 650264.2 | 4076683 | 0.02197 | 223.19 | 0 | ANNUAL | P37 | Boundary Perimeter 37 |
| 650164.7 | 4076674 | 0.02381 | 222.1 | 0 | ANNUAL | P38 | Boundary Perimeter 38 |
| 650065.8 | 4076660 | 0.02792 | 217.03 | 0 | ANNUAL | P39 | Boundary Perimeter 39 |
| 648884.2 | 4077529 | 0.03192 | 214.25 | 0 | ANNUAL | P4 | Boundary Perimeter 4 |
| 649980.4 | 4076627 | 0.03121 | 214.82 | 0 | ANNUAL | P40 | Boundary Perimeter 40 |
| 649920.3 | 4076547 | 0.03298 | 214.91 | 0 | ANNUAL | P41 | Boundary Perimeter 41 |
| 649852.2 | 4076474 | 0.03652 | 214.09 | 0 | ANNUAL | P42 | Boundary Perimeter 42 |
| 649770.7 | 4076417 | 0.04179 | 211.53 | 0 | ANNUAL | P43 | Boundary Perimeter 43 |
| 649680.5 | 4076375 | 0.04591 | 210.17 | 0 | ANNUAL | P44 | Boundary Perimeter 44 |
| 649580.9 | 4076368 | 0.05181 | 208.52 | 0 | ANNUAL | P45 | Boundary Perimeter 45 |
| 649482.5 | 4076384 | 0.05774 | 207.5 | 0 | ANNUAL | P46 | Boundary Perimeter 46 |
| 649391.6 | 4076425 | 0.06708 | 205.17 | 0 | ANNUAL | P47 | Boundary Perimeter 47 |
| 649303.5 | 4076472 | 0.08068 | 202.16 | 0 | ANNUAL | P48 | Boundary Perimeter 48 |

15:31:43

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| \mathbf{X} | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------------|---------|--------------|--------|-------|--------|--------|-----------------------|
| 649226.2 | 4076535 | 0.10764 | 196.38 | 0 | ANNUAL | P49 | Boundary Perimeter 49 |
| 648984.1 | 4077530 | 0.02803 | 221.41 | 0 | ANNUAL | P5 | Boundary Perimeter 5 |
| 649156.2 | 4076605 | 0.12291 | 195.87 | 0 | ANNUAL | P50 | Boundary Perimeter 50 |
| 649068.3 | 4076653 | 0.14163 | 196.32 | 0 | ANNUAL | P51 | Boundary Perimeter 51 |
| 648986.7 | 4076711 | 0.19856 | 192.42 | 0 | ANNUAL | P52 | Boundary Perimeter 52 |
| 648936.5 | 4076759 | 0.23126 | 192.46 | 0 | ANNUAL | P53 | Boundary Perimeter 53 |
| 648868.6 | 4076833 | 0.31866 | 191.63 | 0 | ANNUAL | P54 | Boundary Perimeter 54 |
| 648797.2 | 4076902 | 0.70054 | 186.32 | 0 | ANNUAL | P55 | Boundary Perimeter 55 |
| 648710.6 | 4076952 | 2.42980 | 179.81 | 0 | ANNUAL | P56 | Boundary Perimeter 56 |
| 648620.8 | 4076996 | 3.10148 | 176.23 | 0 | ANNUAL | P57 | Boundary Perimeter 57 |
| 648607.2 | 4077051 | 1.57499 | 175.02 | 0 | ANNUAL | P58 | Boundary Perimeter 58 |
| 648680.1 | 4077119 | 0.44488 | 180.62 | 0 | ANNUAL | P59 | Boundary Perimeter 59 |
| 649084.1 | 4077532 | 0.02782 | 216.54 | 0 | ANNUAL | P6 | Boundary Perimeter 6 |
| 648759.2 | 4077180 | 0.22850 | 183.47 | 0 | ANNUAL | P60 | Boundary Perimeter 60 |
| 648791.4 | 4077262 | 0.07277 | 202.88 | 0 | ANNUAL | P61 | Boundary Perimeter 61 |
| 648788.5 | 4077362 | 0.15759 | 178.21 | 0 | ANNUAL | P62 | Boundary Perimeter 62 |
| 648691.3 | 4077361 | 0.18941 | 176.25 | 0 | ANNUAL | P63 | Boundary Perimeter 63 |
| 648591.4 | 4077357 | 0.21960 | 176 | 0 | ANNUAL | P64 | Boundary Perimeter 64 |
| 648525.7 | 4077371 | 0.23538 | 175.24 | 0 | ANNUAL | P65 | Boundary Perimeter 65 |
| 648586.9 | 4077430 | 0.18562 | 175.13 | 0 | ANNUAL | P66 | Boundary Perimeter 66 |
| 649184.1 | 4077534 | 0.02160 | 230.71 | 0 | ANNUAL | P7 | Boundary Perimeter 7 |
| 649284.1 | 4077535 | 0.01720 | 248.08 | 0 | ANNUAL | P8 | Boundary Perimeter 8 |
| 649384.1 | 4077536 | 0.01528 | 258.43 | 0 | ANNUAL | P9 | Boundary Perimeter 9 |
| 645930 | 4077983 | 0.26419 | 127.38 | 0 | ANNUAL | RP_G1 | New Development |
| 645930 | 4078083 | 0.22142 | 127.58 | 0 | ANNUAL | RP_G10 | New Development |
| 646030 | 4078083 | 0.23183 | 130.56 | 0 | ANNUAL | RP_G11 | New Development |
| 646130 | 4078083 | 0.24229 | 134.35 | 0 | ANNUAL | RP_G12 | New Development |
| 646230 | 4078083 | 0.25132 | 139.22 | 0 | ANNUAL | RP_G13 | New Development |
| 646330 | 4078083 | 0.25630 | 144.65 | 0 | ANNUAL | RP_G14 | New Development |
| 646430 | 4078083 | 0.25992 | 142.28 | 0 | ANNUAL | RP_G15 | New Development |
| 646530 | 4078083 | 0.26367 | 146.76 | 0 | ANNUAL | RP_G16 | New Development |
| 646630 | 4078083 | 0.26162 | 150.64 | 0 | ANNUAL | RP_G17 | New Development |

15:31:43

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-----------------|
| 646730 | 4078083 | 0.25121 | 155.4 | 0 | ANNUAL | RP_G18 | New Development |
| 645930 | 4078183 | 0.18837 | 127.22 | 0 | ANNUAL | RP_G19 | New Development |
| 646030 | 4077983 | 0.28145 | 131.21 | 0 | ANNUAL | RP_G2 | New Development |
| 646030 | 4078183 | 0.19715 | 130.56 | 0 | ANNUAL | RP_G20 | New Development |
| 646130 | 4078183 | 0.20514 | 133.89 | 0 | ANNUAL | RP_G21 | New Development |
| 646230 | 4078183 | 0.21522 | 140.45 | 0 | ANNUAL | RP_G22 | New Development |
| 646330 | 4078183 | 0.21711 | 146.94 | 0 | ANNUAL | RP_G23 | New Development |
| 646430 | 4078183 | 0.21904 | 140.23 | 0 | ANNUAL | RP_G24 | New Development |
| 646530 | 4078183 | 0.22406 | 147.25 | 0 | ANNUAL | RP_G25 | New Development |
| 646630 | 4078183 | 0.22187 | 151.56 | 0 | ANNUAL | RP_G26 | New Development |
| 646730 | 4078183 | 0.20810 | 157.78 | 0 | ANNUAL | RP_G27 | New Development |
| 645930 | 4078283 | 0.16219 | 126.06 | 0 | ANNUAL | RP_G28 | New Development |
| 646030 | 4078283 | 0.16977 | 129.56 | 0 | ANNUAL | RP_G29 | New Development |
| 646130 | 4077983 | 0.29563 | 135.89 | 0 | ANNUAL | RP_G3 | New Development |
| 646130 | 4078283 | 0.17689 | 132.89 | 0 | ANNUAL | RP_G30 | New Development |
| 646230 | 4078283 | 0.18636 | 139.24 | 0 | ANNUAL | RP_G31 | New Development |
| 646330 | 4078283 | 0.19062 | 142.68 | 0 | ANNUAL | RP_G32 | New Development |
| 646430 | 4078283 | 0.18994 | 140.02 | 0 | ANNUAL | RP_G33 | New Development |
| 646530 | 4078283 | 0.19472 | 147.22 | 0 | ANNUAL | RP_G34 | New Development |
| 646630 | 4078283 | 0.19305 | 151.56 | 0 | ANNUAL | RP_G35 | New Development |
| 646730 | 4078283 | 0.18393 | 156.78 | 0 | ANNUAL | RP_G36 | New Development |
| 646230 | 4077983 | 0.30254 | 139.18 | 0 | ANNUAL | RP_G4 | New Development |
| 646330 | 4077983 | 0.30839 | 140.76 | 0 | ANNUAL | RP_G5 | New Development |
| 646430 | 4077983 | 0.31538 | 143.89 | 0 | ANNUAL | RP_G6 | New Development |
| 646530 | 4077983 | 0.32076 | 145.22 | 0 | ANNUAL | RP_G7 | New Development |
| 646630 | 4077983 | 0.32407 | 147.21 | 0 | ANNUAL | RP_G8 | New Development |
| 646730 | 4077983 | 0.32731 | 148.3 | 0 | ANNUAL | RP_G9 | New Development |
| 648659.3 | 4077241 | 0.08775 | 205.79 | 0 | ANNUAL | RP_H1 | House 1 |
| 648071.2 | 4076116 | 0.16814 | 169.6 | 0 | ANNUAL | RP_H10 | House 10 |
| 648247.4 | 4076278 | 0.14157 | 184.55 | 0 | ANNUAL | RP_H11 | House 11 |
| 648027.2 | 4076255 | 0.19776 | 169.38 | 0 | ANNUAL | RP_H12 | House 12 |
| 648065.8 | 4076359 | 0.20936 | 173.83 | 0 | ANNUAL | RP_H13 | House 13 |

* AERMOD (19191): Appendix B Attachment

10/05/21

* AERMET (21112): John Smith Road DPM Grnd 2018

15:31:43

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | X, 3(1X, 113.3), 3(1X, 16.2), 2 | | 271,10.0,271,7 | | | |
|----------|---------|---------------------------------|--------|----------------|--------|--------|-------------|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
| 648138.7 | 4076400 | 0.20056 | 178.22 | 0 | ANNUAL | RP_H14 | House 14 |
| 648254.7 | 4076411 | 0.13253 | 191.28 | 0 | ANNUAL | RP_H15 | House 15 |
| 647877.8 | 4076365 | 0.22324 | 165.39 | 0 | ANNUAL | RP_H16 | House 16 |
| 647520 | 4076206 | 0.14931 | 159 | 0 | ANNUAL | RP_H17 | House 17 |
| 647921 | 4076247 | 0.19730 | 164 | 0 | ANNUAL | RP_H18 | House 18 |
| 647708.8 | 4076352 | 0.19366 | 163.52 | 0 | ANNUAL | RP_H19 | House 19 |
| 648371.7 | 4075470 | 0.09173 | 173.69 | 0 | ANNUAL | RP_H2 | House 2 |
| 647703.6 | 4076251 | 0.17162 | 162.17 | 0 | ANNUAL | RP_H20 | House 20 |
| 647718.8 | 4076104 | 0.14903 | 159.35 | 0 | ANNUAL | RP_H21 | House 21 |
| 647843.3 | 4076125 | 0.16010 | 163 | 0 | ANNUAL | RP_H22 | House 22 |
| 647842.3 | 4076500 | 0.25875 | 167.93 | 0 | ANNUAL | RP_H23 | House 23 |
| 647727.8 | 4076644 | 0.31804 | 164.15 | 0 | ANNUAL | RP_H24 | House 24 |
| 647823.9 | 4076644 | 0.33325 | 168.29 | 0 | ANNUAL | RP_H25 | House 25 |
| 647530 | 4076497 | 0.21568 | 159.56 | 0 | ANNUAL | RP_H26 | House 26 |
| 647810.1 | 4076854 | 0.72615 | 162.9 | 0 | ANNUAL | RP_H27 | House 27 |
| 647697.5 | 4076989 | 0.98369 | 161.42 | 0 | ANNUAL | RP_H28 | House 28 |
| 648225.5 | 4076182 | 0.13080 | 183.22 | 0 | ANNUAL | RP_H29 | House 29 |
| 647678.2 | 4075969 | 0.12646 | 159.5 | 0 | ANNUAL | RP_H3 | House 3 |
| 645876.3 | 4077487 | 0.51589 | 127.13 | 0 | ANNUAL | RP_H30 | House 30 |
| 650902 | 4076062 | 0.02070 | 215.24 | 0 | ANNUAL | RP_H31 | House 31 |
| 651490 | 4076597 | 0.01874 | 205.5 | 0 | ANNUAL | RP_H32 | House 32 |
| 651565 | 4077067 | 0.01326 | 213.93 | 0 | ANNUAL | RP_H33 | House 33 |
| 648672.8 | 4075307 | 0.02412 | 225.91 | 0 | ANNUAL | RP_H34 | House 34 |
| 648383.6 | 4075469 | 0.09070 | 174.44 | 0 | ANNUAL | RP_H35 | House 35 |
| 646379.4 | 4077233 | 0.45725 | 146 | 0 | ANNUAL | RP_H36 | House 36 |
| 651849.7 | 4075865 | 0.01939 | 201.97 | 0 | ANNUAL | RP_H37 | House 37 |
| 652045.5 | 4076210 | 0.01913 | 196.88 | 0 | ANNUAL | RP_H38 | House 38 |
| 652255.7 | 4076391 | 0.01827 | 197.06 | 0 | ANNUAL | RP_H39 | House 39 |
| 647815.3 | 4075985 | 0.13608 | 162.04 | 0 | ANNUAL | RP_H4 | House 4 |
| 646853.7 | 4077373 | 1.24167 | 145.99 | 0 | ANNUAL | RP_H40 | House 40 |
| 647050.2 | 4077360 | 1.18272 | 145 | 0 | ANNUAL | RP_H41 | House 41 |
| 647286.4 | 4077474 | 2.88721 | 149.68 | 0 | ANNUAL | RP_H42 | House 42 |
| | | | | | | | |

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15:31:43

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-------------|
| 647359.1 | 4077340 | 1.25806 | 154.45 | 0 | ANNUAL | RP_H43 | House 43 |
| 647490.4 | 4077329 | 1.27510 | 162.28 | 0 | ANNUAL | RP_H44 | House 44 |
| 647522.2 | 4077252 | 1.05155 | 164.3 | 0 | ANNUAL | RP_H45 | House 45 |
| 647517.8 | 4077139 | 0.81411 | 164.01 | 0 | ANNUAL | RP_H46 | House 46 |
| 646819 | 4077258 | 0.66073 | 151.53 | 0 | ANNUAL | RP_H47 | House 47 |
| 646778.7 | 4077128 | 0.35341 | 158.51 | 0 | ANNUAL | RP_H48 | House 48 |
| 646987.3 | 4077213 | 0.67398 | 146.44 | 0 | ANNUAL | RP_H49 | House 49 |
| 647898.2 | 4076033 | 0.14815 | 163.83 | 0 | ANNUAL | RP_H5 | House 5 |
| 647241.8 | 4077227 | 0.75799 | 154.85 | 0 | ANNUAL | RP_H50 | House 50 |
| 646773.1 | 4077063 | 0.30313 | 159 | 0 | ANNUAL | RP_H51 | House 51 |
| 647104.4 | 4077118 | 0.54422 | 148.99 | 0 | ANNUAL | RP_H52 | House 52 |
| 647291.9 | 4077123 | 0.57795 | 158.62 | 0 | ANNUAL | RP_H53 | House 53 |
| 646765.2 | 4076978 | 0.26093 | 158.67 | 0 | ANNUAL | RP_H54 | House 54 |
| 646995.7 | 4076984 | 0.36879 | 152.34 | 0 | ANNUAL | RP_H55 | House 55 |
| 647317.2 | 4077031 | 0.46365 | 160.22 | 0 | ANNUAL | RP_H56 | House 56 |
| 647398.4 | 4077013 | 0.48510 | 161.26 | 0 | ANNUAL | RP_H57 | House 57 |
| 646978.9 | 4076904 | 0.29033 | 156.81 | 0 | ANNUAL | RP_H58 | House 58 |
| 647015.2 | 4076807 | 0.25627 | 156.21 | 0 | ANNUAL | RP_H59 | House 59 |
| 648045.4 | 4076018 | 0.15103 | 168.26 | 0 | ANNUAL | RP_H6 | House 6 |
| 647164 | 4076802 | 0.28715 | 154.38 | 0 | ANNUAL | RP_H60 | House 60 |
| 647310.6 | 4076940 | 0.36269 | 162.49 | 0 | ANNUAL | RP_H61 | House 61 |
| 647298.1 | 4076805 | 0.30259 | 158 | 0 | ANNUAL | RP_H62 | House 62 |
| 647446.6 | 4076900 | 0.41484 | 159.45 | 0 | ANNUAL | RP_H63 | House 63 |
| 647464.5 | 4076781 | 0.32374 | 159.32 | 0 | ANNUAL | RP_H64 | House 64 |
| 647512 | 4076536 | 0.22665 | 159 | 0 | ANNUAL | RP_H65 | House 65 |
| 651131 | 4078767 | 0.01559 | 179.58 | 0 | ANNUAL | RP_H66 | House 66 |
| 647131 | 4077336 | 1.08432 | 146.77 | 0 | ANNUAL | RP_H67 | House 67 |
| 646798 | 4076740 | 0.19668 | 156.07 | 0 | ANNUAL | RP_H68 | House 68 |
| 646900 | 4076802 | 0.21902 | 159 | 0 | ANNUAL | RP_H69 | House 69 |
| 648126.3 | 4075955 | 0.13840 | 171.51 | 0 | ANNUAL | RP_H7 | House 7 |
| 647317 | 4076662 | 0.23146 | 159.9 | 0 | ANNUAL | RP_H70 | House 70 |
| 648249.3 | 4075970 | 0.10598 | 183.42 | 0 | ANNUAL | RP_H8 | House 8 |

* AERMOD (19191): Appendix B Attachment

10/05/21

* AERMET (21112): John Smith Road DPM Grnd 2018

15:31:43

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-------|-------------|
| 648218.6 | 4076109 | 0.12446 | 182.28 | 0 | ANNUAL | RP_H9 | House 9 |

* AERMET (19191): John Smith Road DPM Grnd 2019

16:06:25

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description | |
|----------|---------|--------------|--------|-------|--------|----------|------------------------------------|----------|
| 645996 | 4078698 | 0.11943 | 123.85 | 0 | ANNUAL | AQ_ST_1 | AQ Monitoring Station | |
| 643903.7 | 4077719 | 0.01353 | 105.68 | 0 | ANNUAL | CR_HP_1 | Hazel Hawkins Memorial Hospital | |
| 642056.8 | 4079416 | 0.01150 | 85.12 | 0 | ANNUAL | CR_PK_1 | Dunne Park | |
| 642179.1 | 4079950 | 0.01571 | 117.99 | 0 | ANNUAL | CR_PK_2 | Vista Park Hill Park | |
| 644733.1 | 4078753 | 0.05625 | 106.44 | 0 | ANNUAL | CR_PK_3 | Las Brisas Park | |
| 645608.8 | 4078854 | 0.09415 | 112.86 | 0 | ANNUAL | CR_PK_4 | Frank Klauer Memorial Park | |
| 644238.1 | 4078807 | 0.03466 | 95.25 | 0 | ANNUAL | CR_PK_5 | Veterans Memorial Park | |
| 645311.5 | 4076559 | 0.03322 | 134.61 | 0 | ANNUAL | CR_PK_6 | Park 6 | |
| 649581.7 | 4073424 | 0.02924 | 159.96 | 0 | ANNUAL | CR_PK_7 | Park 7 | |
| 645145.1 | 4077181 | 0.03969 | 133 | 0 | ANNUAL | CR_SC_1 | Cerra Vista Elem School | |
| 642904.7 | 4079955 | 0.01921 | 86 | 0 | ANNUAL | CR_SC_10 | San Andreas Continuation | |
| 645850.7 | 4074015 | 0.01529 | 123 | 0 | ANNUAL | CR_SC_11 | SouthSide School | |
| 642105.7 | 4078176 | 0.00669 | 91 | 0 | ANNUAL | CR_SC_12 | School 12 | |
| 646058.9 | 4078443 | 0.15251 | 128.52 | 0 | ANNUAL | CR_SC_13 | Rancho Santana School | School 1 |
| 647269 | 4075575 | 0.06824 | 158 | 0 | ANNUAL | CR_SC_14 | Future School | School 2 |
| 648466 | 4074106 | 0.03924 | 159 | 0 | ANNUAL | CR_SC_15 | Tres Pinos Union Elementary School | |
| 644109.6 | 4078389 | 0.02596 | 98.2 | 0 | ANNUAL | CR_SC_2 | Sunnyslope Elem School | |
| 643920.1 | 4077304 | 0.01260 | 101.23 | 0 | ANNUAL | CR_SC_3 | Hollister Montessori School | |
| 642961.1 | 4078621 | 0.01365 | 92 | 0 | ANNUAL | CR_SC_4 | Rancho San Justo Middle School | |
| 643980 | 4079743 | 0.03329 | 88 | 0 | ANNUAL | CR_SC_5 | Marguerite Maze Middle School | |
| 641630.2 | 4079153 | 0.00882 | 85 | 0 | ANNUAL | CR_SC_6 | Hollister Prep Schoo | |
| 643350 | 4077181 | 0.00932 | 98.22 | 0 | ANNUAL | CR_SC_7 | Ladd Lane Elementary School | |
| 644003 | 4080079 | 0.03333 | 87 | 0 | ANNUAL | CR_SC_8 | Gabilan Hills Elementary School | |
| 642244.9 | 4078413 | 0.00868 | 90.17 | 0 | ANNUAL | CR_SC_9 | San Benito High School | |
| 642083.4 | 4079794 | 0.01310 | 87.58 | 0 | ANNUAL | CR_SR_1 | Jovenes De Antano | |
| 646402 | 4076879 | 0.16808 | 146.33 | 0 | ANNUAL | CR_WP_1 | Workplace | MEIW |
| 648949 | 4077938 | 0.02701 | 189.45 | 0 | ANNUAL | CR_WP_2 | Nearest Workplace | |
| 647744 | 4079173 | 0.03693 | 155.2 | 0 | ANNUAL | G1 | Grid Receptor 1 | |
| 647744 | 4075573 | 0.08507 | 160 | 0 | ANNUAL | G10 | Grid Receptor 10 | |
| 651344 | 4075573 | 0.01028 | 252.9 | 0 | ANNUAL | G100 | Grid Receptor 100 | |
| 648144 | 4079173 | 0.02624 | 165.9 | 0 | ANNUAL | G11 | Grid Receptor 11 | |
| 648144 | 4078773 | 0.03789 | 159.6 | 0 | ANNUAL | G12 | Grid Receptor 12 | |

16:06:25

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|--------------|-------|-------|--------|-----|------------------|
| 648144 | 4078373 | 0.05746 | 146.2 | 0 | ANNUAL | G13 | Grid Receptor 13 |
| 648144 | 4077973 | 0.10330 | 158.3 | 0 | ANNUAL | G14 | Grid Receptor 14 |
| 648144 | 4077573 | 0.25421 | 166.6 | 0 | ANNUAL | G15 | Grid Receptor 15 |
| 648144 | 4077173 | 0.62941 | 175.4 | 0 | ANNUAL | G16 | Grid Receptor 16 |
| 648144 | 4076773 | 0.50936 | 177.1 | 0 | ANNUAL | G17 | Grid Receptor 17 |
| 648144 | 4076373 | 0.19281 | 178 | 0 | ANNUAL | G18 | Grid Receptor 18 |
| 648144 | 4075973 | 0.13005 | 173 | 0 | ANNUAL | G19 | Grid Receptor 19 |
| 647744 | 4078773 | 0.05280 | 145.4 | 0 | ANNUAL | G2 | Grid Receptor 2 |
| 648144 | 4075573 | 0.09365 | 168.8 | 0 | ANNUAL | G20 | Grid Receptor 20 |
| 648544 | 4079173 | 0.01949 | 173.5 | 0 | ANNUAL | G21 | Grid Receptor 21 |
| 648544 | 4078773 | 0.02811 | 166.2 | 0 | ANNUAL | G22 | Grid Receptor 22 |
| 648544 | 4078373 | 0.04127 | 145.4 | 0 | ANNUAL | G23 | Grid Receptor 23 |
| 648544 | 4077973 | 0.05559 | 173.9 | 0 | ANNUAL | G24 | Grid Receptor 24 |
| 648544 | 4077573 | 0.09744 | 179.6 | 0 | ANNUAL | G25 | Grid Receptor 25 |
| 648544 | 4077173 | 0.25609 | 191 | 0 | ANNUAL | G26 | Grid Receptor 26 |
| 648544 | 4076773 | 0.18586 | 209.2 | 0 | ANNUAL | G27 | Grid Receptor 27 |
| 648544 | 4076373 | 0.07046 | 233.7 | 0 | ANNUAL | G28 | Grid Receptor 28 |
| 648544 | 4075973 | 0.07394 | 199.9 | 0 | ANNUAL | G29 | Grid Receptor 29 |
| 647744 | 4078373 | 0.08371 | 144.4 | 0 | ANNUAL | G3 | Grid Receptor 3 |
| 648544 | 4075573 | 0.05913 | 195.5 | 0 | ANNUAL | G30 | Grid Receptor 30 |
| 648944 | 4079173 | 0.01072 | 190.4 | 0 | ANNUAL | G31 | Grid Receptor 31 |
| 648944 | 4078773 | 0.02315 | 165.4 | 0 | ANNUAL | G32 | Grid Receptor 32 |
| 648944 | 4078373 | 0.03241 | 159.6 | 0 | ANNUAL | G33 | Grid Receptor 33 |
| 648944 | 4077973 | 0.03201 | 183.5 | 0 | ANNUAL | G34 | Grid Receptor 34 |
| 648944 | 4077573 | 0.01677 | 224 | 0 | ANNUAL | G35 | Grid Receptor 35 |
| 648944 | 4076373 | 0.09695 | 205 | 0 | ANNUAL | G38 | Grid Receptor 38 |
| 648944 | 4075973 | 0.06304 | 208.8 | 0 | ANNUAL | G39 | Grid Receptor 39 |
| 647744 | 4077973 | 0.14448 | 134.6 | 0 | ANNUAL | G4 | Grid Receptor 4 |
| 648944 | 4075573 | 0.08102 | 185.6 | 0 | ANNUAL | G40 | Grid Receptor 40 |
| 649344 | 4079173 | 0.01068 | 187.4 | 0 | ANNUAL | G41 | Grid Receptor 41 |
| 649344 | 4078773 | 0.02005 | 160.9 | 0 | ANNUAL | G42 | Grid Receptor 42 |
| 649344 | 4078373 | 0.01061 | 200.5 | 0 | ANNUAL | G43 | Grid Receptor 43 |

* AERMET (19191): John Smith Road DPM Grnd 2019

16:06:25

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description | |
|------|------------|--------------|-------|-------|--------|-----|------------------|-----|
| 6493 | 44 4077973 | 0.00766 | 229 | 0 | ANNUAL | G44 | Grid Receptor 44 | |
| 6493 | 44 4077573 | 0.01002 | 253.3 | 0 | ANNUAL | G45 | Grid Receptor 45 | |
| 6493 | 44 4076373 | 0.05357 | 220.2 | 0 | ANNUAL | G48 | Grid Receptor 48 | |
| 6493 | 44 4075973 | 0.04191 | 227.2 | 0 | ANNUAL | G49 | Grid Receptor 49 | |
| 6477 | 44 4077573 | 0.37718 | 163.8 | 0 | ANNUAL | G5 | Grid Receptor 5 | |
| 6493 | 44 4075573 | 0.04867 | 205.5 | 0 | ANNUAL | G50 | Grid Receptor 50 | |
| 6497 | 44 4079173 | 0.01126 | 176.1 | 0 | ANNUAL | G51 | Grid Receptor 51 | |
| 6497 | 44 4078773 | 0.00846 | 195 | 0 | ANNUAL | G52 | Grid Receptor 52 | |
| 6497 | 44 4078373 | 0.01079 | 196.1 | 0 | ANNUAL | G53 | Grid Receptor 53 | |
| 6497 | 44 4077973 | 0.00916 | 215.3 | 0 | ANNUAL | G54 | Grid Receptor 54 | |
| 6497 | 44 4077573 | 0.01269 | 221.6 | 0 | ANNUAL | G55 | Grid Receptor 55 | |
| 6497 | 44 4076373 | 0.04106 | 211.7 | 0 | ANNUAL | G58 | Grid Receptor 58 | |
| 6497 | 44 4075973 | 0.02836 | 237.7 | 0 | ANNUAL | G59 | Grid Receptor 59 | |
| 6477 | 44 4077173 | 3.20030 | 158.4 | 0 | ANNUAL | G6 | Grid Receptor 6 | PMI |
| 6497 | 44 4075573 | 0.04412 | 204.2 | 0 | ANNUAL | G60 | Grid Receptor 60 | |
| 6501 | 44 4079173 | 0.01041 | 173 | 0 | ANNUAL | G61 | Grid Receptor 61 | |
| 6501 | 44 4078773 | 0.01323 | 171 | 0 | ANNUAL | G62 | Grid Receptor 62 | |
| 6501 | 44 4078373 | 0.00801 | 204.6 | 0 | ANNUAL | G63 | Grid Receptor 63 | |
| 6501 | | 0.00834 | 216.5 | 0 | ANNUAL | G64 | Grid Receptor 64 | |
| 6501 | 44 4077573 | 0.00749 | 257.7 | 0 | ANNUAL | G65 | Grid Receptor 65 | |
| 6501 | 44 4076373 | 0.02193 | 231.4 | 0 | ANNUAL | G68 | Grid Receptor 68 | |
| 6501 | 44 4075973 | 0.01890 | 249.4 | 0 | ANNUAL | G69 | Grid Receptor 69 | |
| 6477 | 44 4076773 | 0.39886 | 164.7 | 0 | ANNUAL | G7 | Grid Receptor 7 | |
| 6501 | 44 4075573 | 0.02848 | 216.4 | 0 | ANNUAL | G70 | Grid Receptor 70 | |
| 6505 | 44 4079173 | 0.00917 | 177 | 0 | ANNUAL | G71 | Grid Receptor 71 | |
| 6505 | 44 4078773 | 0.01025 | 180.9 | 0 | ANNUAL | G72 | Grid Receptor 72 | |
| 6505 | 44 4078373 | 0.00952 | 196.6 | 0 | ANNUAL | G73 | Grid Receptor 73 | |
| 6505 | 44 4077973 | 0.00565 | 236.9 | 0 | ANNUAL | G74 | Grid Receptor 74 | |
| 6505 | 44 4077573 | 0.00623 | 261.3 | 0 | ANNUAL | G75 | Grid Receptor 75 | |
| 6505 | 44 4076373 | 0.01286 | 260.9 | 0 | ANNUAL | G78 | Grid Receptor 78 | |
| 6505 | | 0.01932 | 226.7 | 0 | ANNUAL | G79 | Grid Receptor 79 | |
| 6477 | 44 4076373 | 0.19143 | 164 | 0 | ANNUAL | G8 | Grid Receptor 8 | |

* AERMET (19191): John Smith Road DPM Grnd 2019

16:06:25

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| | | | | | AVE | | Description |
| 650544 | 4075573 | 0.01299 | 268.2 | 0 | ANNUAL | G80 | Grid Receptor 80 |
| 650944 | 4079173 | 0.00793 | 181.3 | 0 | ANNUAL | G81 | Grid Receptor 81 |
| 650944 | 4078773 | 0.00959 | 178.4 | 0 | ANNUAL | G82 | Grid Receptor 82 |
| 650944 | 4078373 | 0.00589 | 214.8 | 0 | ANNUAL | G83 | Grid Receptor 83 |
| 650944 | 4077973 | 0.00462 | 249.9 | 0 | ANNUAL | G84 | Grid Receptor 84 |
| 650944 | 4077573 | 0.00483 | 276.5 | 0 | ANNUAL | G85 | Grid Receptor 85 |
| 650944 | 4077173 | 0.01087 | 225.6 | 0 | ANNUAL | G86 | Grid Receptor 86 |
| 650944 | 4076773 | 0.01429 | 219.8 | 0 | ANNUAL | G87 | Grid Receptor 87 |
| 650944 | 4076373 | 0.02036 | 209.2 | 0 | ANNUAL | G88 | Grid Receptor 88 |
| 650944 | 4075973 | 0.01836 | 216.6 | 0 | ANNUAL | G89 | Grid Receptor 89 |
| 647744 | 4075973 | 0.12284 | 160.7 | 0 | ANNUAL | G9 | Grid Receptor 9 |
| 650944 | 4075573 | 0.01325 | 243.2 | 0 | ANNUAL | G90 | Grid Receptor 90 |
| 651344 | 4079173 | 0.00613 | 191 | 0 | ANNUAL | G91 | Grid Receptor 91 |
| 651344 | 4078773 | 0.00861 | 181 | 0 | ANNUAL | G92 | Grid Receptor 92 |
| 651344 | 4078373 | 0.00571 | 214.3 | 0 | ANNUAL | G93 | Grid Receptor 93 |
| 651344 | 4077973 | 0.00443 | 248.4 | 0 | ANNUAL | G94 | Grid Receptor 94 |
| 651344 | 4077573 | 0.00932 | 213.2 | 0 | ANNUAL | G95 | Grid Receptor 95 |
| 651344 | 4077173 | 0.01162 | 213.6 | 0 | ANNUAL | G96 | Grid Receptor 96 |
| 651344 | 4076773 | 0.01606 | 203.5 | 0 | ANNUAL | G97 | Grid Receptor 97 |
| 651344 | 4076373 | 0.01847 | 205.6 | 0 | ANNUAL | G98 | Grid Receptor 98 |
| 651344 | 4075973 | 0.01896 | 205.8 | 0 | ANNUAL | G99 | Grid Receptor 99 |
| 648584.2 | 4077523 | 0.08528 | 183.61 | 0 | ANNUAL | P1 | Boundary Perimeter 1 |
| 649484.1 | 4077537 | 0.00983 | 254.01 | 0 | ANNUAL | P10 | Boundary Perimeter 10 |
| 649584 | 4077539 | 0.01136 | 235.3 | 0 | ANNUAL | P11 | Boundary Perimeter 11 |
| 649684 | 4077540 | 0.01343 | 221.29 | 0 | ANNUAL | P12 | Boundary Perimeter 12 |
| 649784 | 4077541 | 0.01277 | 222.37 | 0 | ANNUAL | P13 | Boundary Perimeter 13 |
| 649884 | 4077542 | 0.01051 | 233.6 | 0 | ANNUAL | P14 | Boundary Perimeter 14 |
| 649984 | 4077543 | 0.00854 | 249.54 | 0 | ANNUAL | P15 | Boundary Perimeter 15 |
| 650083.9 | 4077546 | 0.00774 | 258.89 | 0 | ANNUAL | P16 | Boundary Perimeter 16 |
| 650183.9 | 4077548 | 0.00742 | 259.56 | 0 | ANNUAL | P17 | Boundary Perimeter 17 |
| 650283.9 | 4077550 | 0.00719 | 256.77 | 0 | ANNUAL | P18 | Boundary Perimeter 18 |
| 650383.8 | 4077552 | 0.00797 | 242.37 | 0 | ANNUAL | P19 | Boundary Perimeter 19 |
| - | | | | | | | * |

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- * FOR A TOTAL OF 289 RECEPTORS.
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| 648684.2 | 4077525 | 0.04142 | 197.16 | 0 | ANNUAL | P2 | Boundary Perimeter 2 |
| 650483.8 | 4077554 | 0.00771 | 242.23 | 0 | ANNUAL | P20 | Boundary Perimeter 20 |
| 650583.8 | 4077557 | 0.00628 | 259.71 | 0 | ANNUAL | P21 | Boundary Perimeter 21 |
| 650683.8 | 4077559 | 0.00616 | 257.58 | 0 | ANNUAL | P22 | Boundary Perimeter 22 |
| 650776.8 | 4077554 | 0.00549 | 267.9 | 0 | ANNUAL | P23 | Boundary Perimeter 23 |
| 650778.9 | 4077454 | 0.00543 | 275.91 | 0 | ANNUAL | P24 | Boundary Perimeter 24 |
| 650781 | 4077354 | 0.00607 | 265.73 | 0 | ANNUAL | P25 | Boundary Perimeter 25 |
| 650783.1 | 4077254 | 0.00763 | 251.08 | 0 | ANNUAL | P26 | Boundary Perimeter 26 |
| 650785.2 | 4077154 | 0.00821 | 252.83 | 0 | ANNUAL | P27 | Boundary Perimeter 27 |
| 650787.3 | 4077054 | 0.00921 | 246.1 | 0 | ANNUAL | P28 | Boundary Perimeter 28 |
| 650789.4 | 4076954 | 0.00998 | 241.37 | 0 | ANNUAL | P29 | Boundary Perimeter 29 |
| 648784.2 | 4077527 | 0.02664 | 209.74 | 0 | ANNUAL | P3 | Boundary Perimeter 3 |
| 650791.5 | 4076854 | 0.01010 | 246.79 | 0 | ANNUAL | P30 | Boundary Perimeter 30 |
| 650793.6 | 4076754 | 0.01356 | 228.75 | 0 | ANNUAL | P31 | Boundary Perimeter 31 |
| 650754.4 | 4076683 | 0.01722 | 217.76 | 0 | ANNUAL | P32 | Boundary Perimeter 32 |
| 650660.2 | 4076650 | 0.01734 | 221.2 | 0 | ANNUAL | P33 | Boundary Perimeter 33 |
| 650561.4 | 4076650 | 0.01838 | 220.83 | 0 | ANNUAL | P34 | Boundary Perimeter 34 |
| 650462.7 | 4076666 | 0.01849 | 223.42 | 0 | ANNUAL | P35 | Boundary Perimeter 35 |
| 650364 | 4076682 | 0.01976 | 222.46 | 0 | ANNUAL | P36 | Boundary Perimeter 36 |
| 650264.2 | 4076683 | 0.02076 | 223.19 | 0 | ANNUAL | P37 | Boundary Perimeter 37 |
| 650164.7 | 4076674 | 0.02260 | 222.1 | 0 | ANNUAL | P38 | Boundary Perimeter 38 |
| 650065.8 | 4076660 | 0.02654 | 217.03 | 0 | ANNUAL | P39 | Boundary Perimeter 39 |
| 648884.2 | 4077529 | 0.02152 | 214.25 | 0 | ANNUAL | P4 | Boundary Perimeter 4 |
| 649980.4 | 4076627 | 0.02975 | 214.82 | 0 | ANNUAL | P40 | Boundary Perimeter 40 |
| 649920.3 | 4076547 | 0.03177 | 214.91 | 0 | ANNUAL | P41 | Boundary Perimeter 41 |
| 649852.2 | 4076474 | 0.03467 | 214.09 | 0 | ANNUAL | P42 | Boundary Perimeter 42 |
| 649770.7 | 4076417 | 0.03966 | 211.53 | 0 | ANNUAL | P43 | Boundary Perimeter 43 |
| 649680.5 | 4076375 | 0.04481 | 210.17 | 0 | ANNUAL | P44 | Boundary Perimeter 44 |
| 649580.9 | 4076368 | 0.05070 | 208.52 | 0 | ANNUAL | P45 | Boundary Perimeter 45 |
| 649482.5 | 4076384 | 0.05717 | 207.5 | 0 | ANNUAL | P46 | Boundary Perimeter 46 |
| 649391.6 | 4076425 | 0.06660 | 205.17 | 0 | ANNUAL | P47 | Boundary Perimeter 47 |
| 649303.5 | 4076472 | 0.07984 | 202.16 | 0 | ANNUAL | P48 | Boundary Perimeter 48 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-----------------------|
| 649226.2 | 4076535 | 0.10383 | 196.38 | 0 | ANNUAL | P49 | Boundary Perimeter 49 |
| 648984.1 | 4077530 | 0.01828 | 221.41 | 0 | ANNUAL | P5 | Boundary Perimeter 5 |
| 649156.2 | 4076605 | 0.11860 | 195.87 | 0 | ANNUAL | P50 | Boundary Perimeter 50 |
| 649068.3 | 4076653 | 0.13885 | 196.32 | 0 | ANNUAL | P51 | Boundary Perimeter 51 |
| 648986.7 | 4076711 | 0.19190 | 192.42 | 0 | ANNUAL | P52 | Boundary Perimeter 52 |
| 648936.5 | 4076759 | 0.22530 | 192.46 | 0 | ANNUAL | P53 | Boundary Perimeter 53 |
| 648868.6 | 4076833 | 0.31166 | 191.63 | 0 | ANNUAL | P54 | Boundary Perimeter 54 |
| 648797.2 | 4076902 | 0.65303 | 186.32 | 0 | ANNUAL | P55 | Boundary Perimeter 55 |
| 648710.6 | 4076952 | 2.18254 | 179.81 | 0 | ANNUAL | P56 | Boundary Perimeter 56 |
| 648620.8 | 4076996 | 2.84739 | 176.23 | 0 | ANNUAL | P57 | Boundary Perimeter 57 |
| 648607.2 | 4077051 | 1.40198 | 175.02 | 0 | ANNUAL | P58 | Boundary Perimeter 58 |
| 648680.1 | 4077119 | 0.32640 | 180.62 | 0 | ANNUAL | P59 | Boundary Perimeter 59 |
| 649084.1 | 4077532 | 0.01805 | 216.54 | 0 | ANNUAL | P6 | Boundary Perimeter 6 |
| 648759.2 | 4077180 | 0.15985 | 183.47 | 0 | ANNUAL | P60 | Boundary Perimeter 60 |
| 648791.4 | 4077262 | 0.05271 | 202.88 | 0 | ANNUAL | P61 | Boundary Perimeter 61 |
| 648788.5 | 4077362 | 0.10466 | 178.21 | 0 | ANNUAL | P62 | Boundary Perimeter 62 |
| 648691.3 | 4077361 | 0.13078 | 176.25 | 0 | ANNUAL | P63 | Boundary Perimeter 63 |
| 648591.4 | 4077357 | 0.16612 | 176 | 0 | ANNUAL | P64 | Boundary Perimeter 64 |
| 648525.7 | 4077371 | 0.19281 | 175.24 | 0 | ANNUAL | P65 | Boundary Perimeter 65 |
| 648586.9 | 4077430 | 0.13690 | 175.13 | 0 | ANNUAL | P66 | Boundary Perimeter 66 |
| 649184.1 | 4077534 | 0.01398 | 230.71 | 0 | ANNUAL | P7 | Boundary Perimeter 7 |
| 649284.1 | 4077535 | 0.01122 | 248.08 | 0 | ANNUAL | P8 | Boundary Perimeter 8 |
| 649384.1 | 4077536 | 0.01008 | 258.43 | 0 | ANNUAL | Р9 | Boundary Perimeter 9 |
| 645930 | 4077983 | 0.25066 | 127.38 | 0 | ANNUAL | RP_G1 | New Development |
| 645930 | 4078083 | 0.21728 | 127.58 | 0 | ANNUAL | RP_G10 | New Development |
| 646030 | 4078083 | 0.22858 | 130.56 | 0 | ANNUAL | RP_G11 | New Development |
| 646130 | 4078083 | 0.24020 | 134.35 | 0 | ANNUAL | RP_G12 | New Development |
| 646230 | 4078083 | 0.25157 | 139.22 | 0 | ANNUAL | RP_G13 | New Development |
| 646330 | 4078083 | 0.25872 | 144.65 | 0 | ANNUAL | RP_G14 | New Development |
| 646430 | 4078083 | 0.26467 | 142.28 | 0 | ANNUAL | RP_G15 | New Development |
| 646530 | 4078083 | 0.27178 | 146.76 | 0 | ANNUAL | RP_G16 | New Development |
| 646630 | 4078083 | 0.27529 | 150.64 | 0 | ANNUAL | RP_G17 | New Development |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-----------------|
| 646730 | 4078083 | 0.27143 | 155.4 | 0 | ANNUAL | RP_G18 | New Development |
| 645930 | 4078183 | 0.19135 | 127.22 | 0 | ANNUAL | RP_G19 | New Development |
| 646030 | 4077983 | 0.26719 | 131.21 | 0 | ANNUAL | RP_G2 | New Development |
| 646030 | 4078183 | 0.20130 | 130.56 | 0 | ANNUAL | RP_G20 | New Development |
| 646130 | 4078183 | 0.21012 | 133.89 | 0 | ANNUAL | RP_G21 | New Development |
| 646230 | 4078183 | 0.22212 | 140.45 | 0 | ANNUAL | RP_G22 | New Development |
| 646330 | 4078183 | 0.22682 | 146.94 | 0 | ANNUAL | RP_G23 | New Development |
| 646430 | 4078183 | 0.23094 | 140.23 | 0 | ANNUAL | RP_G24 | New Development |
| 646530 | 4078183 | 0.23965 | 147.25 | 0 | ANNUAL | RP_G25 | New Development |
| 646630 | 4078183 | 0.24124 | 151.56 | 0 | ANNUAL | RP_G26 | New Development |
| 646730 | 4078183 | 0.23066 | 157.78 | 0 | ANNUAL | RP_G27 | New Development |
| 645930 | 4078283 | 0.16975 | 126.06 | 0 | ANNUAL | RP_G28 | New Development |
| 646030 | 4078283 | 0.17839 | 129.56 | 0 | ANNUAL | RP_G29 | New Development |
| 646130 | 4077983 | 0.28226 | 135.89 | 0 | ANNUAL | RP_G3 | New Development |
| 646130 | 4078283 | 0.18624 | 132.89 | 0 | ANNUAL | RP_G30 | New Development |
| 646230 | 4078283 | 0.19739 | 139.24 | 0 | ANNUAL | RP_G31 | New Development |
| 646330 | 4078283 | 0.20474 | 142.68 | 0 | ANNUAL | RP_G32 | New Development |
| 646430 | 4078283 | 0.20640 | 140.02 | 0 | ANNUAL | RP_G33 | New Development |
| 646530 | 4078283 | 0.21329 | 147.22 | 0 | ANNUAL | RP_G34 | New Development |
| 646630 | 4078283 | 0.21240 | 151.56 | 0 | ANNUAL | RP_G35 | New Development |
| 646730 | 4078283 | 0.20333 | 156.78 | 0 | ANNUAL | RP_G36 | New Development |
| 646230 | 4077983 | 0.29071 | 139.18 | 0 | ANNUAL | RP_G4 | New Development |
| 646330 | 4077983 | 0.29870 | 140.76 | 0 | ANNUAL | RP_G5 | New Development |
| 646430 | 4077983 | 0.30800 | 143.89 | 0 | ANNUAL | RP_G6 | New Development |
| 646530 | 4077983 | 0.31611 | 145.22 | 0 | ANNUAL | RP_G7 | New Development |
| 646630 | 4077983 | 0.32384 | 147.21 | 0 | ANNUAL | RP_G8 | New Development |
| 646730 | 4077983 | 0.33296 | 148.3 | 0 | ANNUAL | RP_G9 | New Development |
| 648659.3 | 4077241 | 0.06781 | 205.79 | 0 | ANNUAL | RP_H1 | House 1 |
| 648071.2 | 4076116 | 0.15690 | 169.6 | 0 | ANNUAL | RP_H10 | House 10 |
| 648247.4 | 4076278 | 0.14414 | 184.55 | 0 | ANNUAL | RP_H11 | House 11 |
| 648027.2 | 4076255 | 0.18537 | 169.38 | 0 | ANNUAL | RP_H12 | House 12 |
| 648065.8 | 4076359 | 0.20231 | 173.83 | 0 | ANNUAL | RP_H13 | House 13 |

16:06:25

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-------------|
| 648138.7 | 4076400 | 0.19902 | 178.22 | 0 | ANNUAL | RP_H14 | House 14 |
| 648254.7 | 4076411 | 0.13825 | 191.28 | 0 | ANNUAL | RP_H15 | House 15 |
| 647877.8 | 4076365 | 0.20971 | 165.39 | 0 | ANNUAL | RP_H16 | House 16 |
| 647520 | 4076206 | 0.13937 | 159 | 0 | ANNUAL | RP_H17 | House 17 |
| 647921 | 4076247 | 0.18456 | 164 | 0 | ANNUAL | RP_H18 | House 18 |
| 647708.8 | 4076352 | 0.18126 | 163.52 | 0 | ANNUAL | RP_H19 | House 19 |
| 648371.7 | 4075470 | 0.08592 | 173.69 | 0 | ANNUAL | RP_H2 | House 2 |
| 647703.6 | 4076251 | 0.16115 | 162.17 | 0 | ANNUAL | RP_H20 | House 20 |
| 647718.8 | 4076104 | 0.14029 | 159.35 | 0 | ANNUAL | RP_H21 | House 21 |
| 647843.3 | 4076125 | 0.15216 | 163 | 0 | ANNUAL | RP_H22 | House 22 |
| 647842.3 | 4076500 | 0.24335 | 167.93 | 0 | ANNUAL | RP_H23 | House 23 |
| 647727.8 | 4076644 | 0.29428 | 164.15 | 0 | ANNUAL | RP_H24 | House 24 |
| 647823.9 | 4076644 | 0.31203 | 168.29 | 0 | ANNUAL | RP_H25 | House 25 |
| 647530 | 4076497 | 0.19732 | 159.56 | 0 | ANNUAL | RP_H26 | House 26 |
| 647810.1 | 4076854 | 0.64787 | 162.9 | 0 | ANNUAL | RP_H27 | House 27 |
| 647697.5 | 4076989 | 0.73878 | 161.42 | 0 | ANNUAL | RP_H28 | House 28 |
| 648225.5 | 4076182 | 0.13138 | 183.22 | 0 | ANNUAL | RP_H29 | House 29 |
| 647678.2 | 4075969 | 0.11878 | 159.5 | 0 | ANNUAL | RP_H3 | House 3 |
| 645876.3 | 4077487 | 0.27668 | 127.13 | 0 | ANNUAL | RP_H30 | House 30 |
| 650902 | 4076062 | 0.01907 | 215.24 | 0 | ANNUAL | RP_H31 | House 31 |
| 651490 | 4076597 | 0.01622 | 205.5 | 0 | ANNUAL | RP_H32 | House 32 |
| 651565 | 4077067 | 0.01072 | 213.93 | 0 | ANNUAL | RP_H33 | House 33 |
| 648672.8 | 4075307 | 0.02628 | 225.91 | 0 | ANNUAL | RP_H34 | House 34 |
| 648383.6 | 4075469 | 0.08519 | 174.44 | 0 | ANNUAL | RP_H35 | House 35 |
| 646379.4 | 4077233 | 0.39481 | 146 | 0 | ANNUAL | RP_H36 | House 36 |
| 651849.7 | 4075865 | 0.01681 | 201.97 | 0 | ANNUAL | RP_H37 | House 37 |
| 652045.5 | 4076210 | 0.01688 | 196.88 | 0 | ANNUAL | RP_H38 | House 38 |
| 652255.7 | 4076391 | 0.01511 | 197.06 | 0 | ANNUAL | RP_H39 | House 39 |
| 647815.3 | 4075985 | 0.12881 | 162.04 | 0 | ANNUAL | RP_H4 | House 4 |
| 646853.7 | 4077373 | 1.05576 | 145.99 | 0 | ANNUAL | RP_H40 | House 40 |
| 647050.2 | 4077360 | 0.99165 | 145 | 0 | ANNUAL | RP_H41 | House 41 |
| 647286.4 | 4077474 | 2.46734 | 149.68 | 0 | ANNUAL | RP_H42 | House 42 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-------------|
| 647359.1 | 4077340 | 1.02574 | 154.45 | 0 | ANNUAL | RP_H43 | House 43 |
| 647490.4 | 4077329 | 1.09581 | 162.28 | 0 | ANNUAL | RP_H44 | House 44 |
| 647522.2 | 4077252 | 0.84947 | 164.3 | 0 | ANNUAL | RP_H45 | House 45 |
| 647517.8 | 4077139 | 0.56563 | 164.01 | 0 | ANNUAL | RP_H46 | House 46 |
| 646819 | 4077258 | 0.55420 | 151.53 | 0 | ANNUAL | RP_H47 | House 47 |
| 646778.7 | 4077128 | 0.29441 | 158.51 | 0 | ANNUAL | RP_H48 | House 48 |
| 646987.3 | 4077213 | 0.55197 | 146.44 | 0 | ANNUAL | RP_H49 | House 49 |
| 647898.2 | 4076033 | 0.14027 | 163.83 | 0 | ANNUAL | RP_H5 | House 5 |
| 647241.8 | 4077227 | 0.58717 | 154.85 | 0 | ANNUAL | RP_H50 | House 50 |
| 646773.1 | 4077063 | 0.25251 | 159 | 0 | ANNUAL | RP_H51 | House 51 |
| 647104.4 | 4077118 | 0.43524 | 148.99 | 0 | ANNUAL | RP_H52 | House 52 |
| 647291.9 | 4077123 | 0.43221 | 158.62 | 0 | ANNUAL | RP_H53 | House 53 |
| 646765.2 | 4076978 | 0.21815 | 158.67 | 0 | ANNUAL | RP_H54 | House 54 |
| 646995.7 | 4076984 | 0.30429 | 152.34 | 0 | ANNUAL | RP_H55 | House 55 |
| 647317.2 | 4077031 | 0.35186 | 160.22 | 0 | ANNUAL | RP_H56 | House 56 |
| 647398.4 | 4077013 | 0.36315 | 161.26 | 0 | ANNUAL | RP_H57 | House 57 |
| 646978.9 | 4076904 | 0.24152 | 156.81 | 0 | ANNUAL | RP_H58 | House 58 |
| 647015.2 | 4076807 | 0.21806 | 156.21 | 0 | ANNUAL | RP_H59 | House 59 |
| 648045.4 | 4076018 | 0.14072 | 168.26 | 0 | ANNUAL | RP_H6 | House 6 |
| 647164 | 4076802 | 0.24443 | 154.38 | 0 | ANNUAL | RP_H60 | House 60 |
| 647310.6 | 4076940 | 0.28532 | 162.49 | 0 | ANNUAL | RP_H61 | House 61 |
| 647298.1 | 4076805 | 0.25783 | 158 | 0 | ANNUAL | RP_H62 | House 62 |
| 647446.6 | 4076900 | 0.33291 | 159.45 | 0 | ANNUAL | RP_H63 | House 63 |
| 647464.5 | 4076781 | 0.28292 | 159.32 | 0 | ANNUAL | RP_H64 | House 64 |
| 647512 | 4076536 | 0.20515 | 159 | 0 | ANNUAL | RP_H65 | House 65 |
| 651131 | 4078767 | 0.00914 | 179.58 | 0 | ANNUAL | RP_H66 | House 66 |
| 647131 | 4077336 | 0.89698 | 146.77 | 0 | ANNUAL | RP_H67 | House 67 |
| 646798 | 4076740 | 0.16959 | 156.07 | 0 | ANNUAL | RP_H68 | House 68 |
| 646900 | 4076802 | 0.18706 | 159 | 0 | ANNUAL | RP_H69 | House 69 |
| 648126.3 | 4075955 | 0.12979 | 171.51 | 0 | ANNUAL | RP_H7 | House 7 |
| 647317 | 4076662 | 0.20766 | 159.9 | 0 | ANNUAL | RP_H70 | House 70 |
| 648249.3 | 4075970 | 0.10548 | 183.42 | 0 | ANNUAL | RP_H8 | House 8 |

* AERMOD (19191): Appendix B Attachment

10/05/21

* AERMET (19191): John Smith Road DPM Grnd 2019

16:06:25

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-------|-------------|
| 648218.6 | 4076109 | 0.12416 | 182.28 | 0 | ANNUAL | RP_H9 | House 9 |

* AERMOD (19191): Appendix B Attachment

10/05/21

* AERMET (21112): John Smith Road DPM Grnd 2020

15:31:43

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
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- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | Description | ID | AVE | ZFLAG | ZELEV | AVERAGE CONC | Y | X |
|----------|------------------------------------|----------|--------|-------|--------|--------------|---------|----------|
| | AQ Monitoring Station | AQ_ST_1 | ANNUAL | 0 | 123.85 | 0.14153 | 4078698 | 645996 |
| | Hazel Hawkins Memorial Hospital | CR_HP_1 | ANNUAL | 0 | 105.68 | 0.02382 | 4077719 | 643903.7 |
| | Dunne Park | CR_PK_1 | ANNUAL | 0 | 85.12 | 0.01392 | 4079416 | 642056.8 |
| | Vista Park Hill Park | CR_PK_2 | ANNUAL | 0 | 117.99 | 0.01893 | 4079950 | 642179.1 |
| | Las Brisas Park | CR_PK_3 | ANNUAL | 0 | 106.44 | 0.06798 | 4078753 | 644733.1 |
| | Frank Klauer Memorial Park | CR_PK_4 | ANNUAL | 0 | 112.86 | 0.1105 | 4078854 | 645608.8 |
| | Veterans Memorial Park | CR_PK_5 | ANNUAL | 0 | 95.25 | 0.04184 | 4078807 | 644238.1 |
| | Park 6 | CR_PK_6 | ANNUAL | 0 | 134.61 | 0.04406 | 4076559 | 645311.5 |
| | Park 7 | CR_PK_7 | ANNUAL | 0 | 159.96 | 0.03963 | 4073424 | 649581.7 |
| | Cerra Vista Elem School | CR_SC_1 | ANNUAL | 0 | 133 | 0.05382 | 4077181 | 645145.1 |
| | San Andreas Continuation | CR_SC_10 | ANNUAL | 0 | 86 | 0.02332 | 4079955 | 642904.7 |
| | SouthSide School | CR_SC_11 | ANNUAL | 0 | 123 | 0.01849 | 4074015 | 645850.7 |
| | School 12 | CR_SC_12 | ANNUAL | 0 | 91 | 0.01125 | 4078176 | 642105.7 |
| School 1 | Rancho Santana School | CR_SC_13 | ANNUAL | 0 | 128.52 | 0.18093 | 4078443 | 646058.9 |
| School 2 | Future School | CR_SC_14 | ANNUAL | 0 | 158 | 0.08614 | 4075575 | 647269 |
| | Tres Pinos Union Elementary School | CR_SC_15 | ANNUAL | 0 | 159 | 0.05057 | 4074106 | 648466 |
| | Sunnyslope Elem School | CR_SC_2 | ANNUAL | 0 | 98.2 | 0.03316 | 4078389 | 644109.6 |
| | Hollister Montessori School | CR_SC_3 | ANNUAL | 0 | 101.23 | 0.02022 | 4077304 | 643920.1 |
| | Rancho San Justo Middle School | CR_SC_4 | ANNUAL | 0 | 92 | 0.01826 | 4078621 | 642961.1 |
| | Marguerite Maze Middle School | CR_SC_5 | ANNUAL | 0 | 88 | 0.04033 | 4079743 | 643980 |
| | Hollister Prep Schoo | CR_SC_6 | ANNUAL | 0 | 85 | 0.01171 | 4079153 | 641630.2 |
| | Ladd Lane Elementary School | CR_SC_7 | ANNUAL | 0 | 98.22 | 0.01487 | 4077181 | 643350 |
| | Gabilan Hills Elementary School | CR_SC_8 | ANNUAL | 0 | 87 | 0.04011 | 4080079 | 644003 |
| | San Benito High School | CR_SC_9 | ANNUAL | 0 | 90.17 | 0.01233 | 4078413 | 642244.9 |
| | Jovenes De Antano | CR_SR_1 | ANNUAL | 0 | 87.58 | 0.01553 | 4079794 | 642083.4 |
| MEIW | Workplace | CR_WP_1 | ANNUAL | 0 | 146.33 | 0.21616 | 4076879 | 646402 |
| | Nearest Workplace | CR_WP_2 | ANNUAL | 0 | 189.45 | 0.02629 | 4077938 | 648949 |
| | Grid Receptor 1 | G1 | ANNUAL | 0 | 155.2 | 0.04381 | 4079173 | 647744 |
| | Grid Receptor 10 | G10 | ANNUAL | 0 | 160 | 0.10762 | 4075573 | 647744 |
| | Grid Receptor 100 | G100 | ANNUAL | 0 | 252.9 | 0.00899 | 4075573 | 651344 |
| | Grid Receptor 11 | G11 | ANNUAL | 0 | 165.9 | 0.03083 | 4079173 | 648144 |
| | Grid Receptor 12 | G12 | ANNUAL | 0 | 159.6 | 0.04335 | 4078773 | 648144 |

* AERMET (21112): John Smith Road DPM Grnd 2020

15:31:43

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------|---------|--------------|-------|-------|--------|-----|------------------|
| 648144 | 4078373 | 0.06325 | 146.2 | 0 | ANNUAL | G13 | Grid Receptor 13 |
| 648144 | 4077973 | 0.11499 | 158.3 | 0 | ANNUAL | G14 | Grid Receptor 14 |
| 648144 | 4077573 | 0.27926 | 166.6 | 0 | ANNUAL | G15 | Grid Receptor 15 |
| 648144 | 4077173 | 0.67801 | 175.4 | 0 | ANNUAL | G16 | Grid Receptor 16 |
| 648144 | 4076773 | 0.59611 | 177.1 | 0 | ANNUAL | G17 | Grid Receptor 17 |
| 648144 | 4076373 | 0.23956 | 178 | 0 | ANNUAL | G18 | Grid Receptor 18 |
| 648144 | 4075973 | 0.16111 | 173 | 0 | ANNUAL | G19 | Grid Receptor 19 |
| 647744 | 4078773 | 0.06076 | 145.4 | 0 | ANNUAL | G2 | Grid Receptor 2 |
| 648144 | 4075573 | 0.11648 | 168.8 | 0 | ANNUAL | G20 | Grid Receptor 20 |
| 648544 | 4079173 | 0.02128 | 173.5 | 0 | ANNUAL | G21 | Grid Receptor 21 |
| 648544 | 4078773 | 0.03044 | 166.2 | 0 | ANNUAL | G22 | Grid Receptor 22 |
| 648544 | 4078373 | 0.04485 | 145.4 | 0 | ANNUAL | G23 | Grid Receptor 23 |
| 648544 | 4077973 | 0.06092 | 173.9 | 0 | ANNUAL | G24 | Grid Receptor 24 |
| 648544 | 4077573 | 0.10436 | 179.6 | 0 | ANNUAL | G25 | Grid Receptor 25 |
| 648544 | 4077173 | 0.24395 | 191 | 0 | ANNUAL | G26 | Grid Receptor 26 |
| 648544 | 4076773 | 0.19952 | 209.2 | 0 | ANNUAL | G27 | Grid Receptor 27 |
| 648544 | 4076373 | 0.07619 | 233.7 | 0 | ANNUAL | G28 | Grid Receptor 28 |
| 648544 | 4075973 | 0.09012 | 199.9 | 0 | ANNUAL | G29 | Grid Receptor 29 |
| 647744 | 4078373 | 0.0933 | 144.4 | 0 | ANNUAL | G3 | Grid Receptor 3 |
| 648544 | 4075573 | 0.07294 | 195.5 | 0 | ANNUAL | G30 | Grid Receptor 30 |
| 648944 | 4079173 | 0.01029 | 190.4 | 0 | ANNUAL | G31 | Grid Receptor 31 |
| 648944 | 4078773 | 0.02337 | 165.4 | 0 | ANNUAL | G32 | Grid Receptor 32 |
| 648944 | 4078373 | 0.03394 | 159.6 | 0 | ANNUAL | G33 | Grid Receptor 33 |
| 648944 | 4077973 | 0.03283 | 183.5 | 0 | ANNUAL | G34 | Grid Receptor 34 |
| 648944 | 4077573 | 0.01408 | 224 | 0 | ANNUAL | G35 | Grid Receptor 35 |
| 648944 | 4076373 | 0.10982 | 205 | 0 | ANNUAL | G38 | Grid Receptor 38 |
| 648944 | 4075973 | 0.07269 | 208.8 | 0 | ANNUAL | G39 | Grid Receptor 39 |
| 647744 | 4077973 | 0.16246 | 134.6 | 0 | ANNUAL | G4 | Grid Receptor 4 |
| 648944 | 4075573 | 0.10172 | 185.6 | 0 | ANNUAL | G40 | Grid Receptor 40 |
| 649344 | 4079173 | 0.0097 | 187.4 | 0 | ANNUAL | G41 | Grid Receptor 41 |
| 649344 | 4078773 | 0.02043 | 160.9 | 0 | ANNUAL | G42 | Grid Receptor 42 |
| 649344 | 4078373 | 0.00985 | 200.5 | 0 | ANNUAL | G43 | Grid Receptor 43 |

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- FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description | |
|--------|---------|--------------|-------|-------|--------|-----|------------------|-----|
| 649344 | 4077973 | 0.00646 | 229 | 0 | ANNUAL | G44 | Grid Receptor 44 | |
| 649344 | 4077573 | 0.00874 | 253.3 | 0 | ANNUAL | G45 | Grid Receptor 45 | |
| 649344 | 4076373 | 0.05235 | 220.2 | 0 | ANNUAL | G48 | Grid Receptor 48 | |
| 649344 | 4075973 | 0.04552 | 227.2 | 0 | ANNUAL | G49 | Grid Receptor 49 | |
| 647744 | 4077573 | 0.42034 | 163.8 | 0 | ANNUAL | G5 | Grid Receptor 5 | |
| 649344 | 4075573 | 0.05697 | 205.5 | 0 | ANNUAL | G50 | Grid Receptor 50 | |
| 649744 | 4079173 | 0.01203 | 176.1 | 0 | ANNUAL | G51 | Grid Receptor 51 | |
| 649744 | 4078773 | 0.00873 | 195 | 0 | ANNUAL | G52 | Grid Receptor 52 | |
| 649744 | 4078373 | 0.01092 | 196.1 | 0 | ANNUAL | G53 | Grid Receptor 53 | |
| 649744 | 4077973 | 0.00767 | 215.3 | 0 | ANNUAL | G54 | Grid Receptor 54 | |
| 649744 | 4077573 | 0.01124 | 221.6 | 0 | ANNUAL | G55 | Grid Receptor 55 | |
| 649744 | 4076373 | 0.03944 | 211.7 | 0 | ANNUAL | G58 | Grid Receptor 58 | |
| 649744 | 4075973 | 0.02768 | 237.7 | 0 | ANNUAL | G59 | Grid Receptor 59 | |
| 647744 | 4077173 | 3.54848 | 158.4 | 0 | ANNUAL | G6 | Grid Receptor 6 | PMI |
| 649744 | 4075573 | 0.04982 | 204.2 | 0 | ANNUAL | G60 | Grid Receptor 60 | |
| 650144 | 4079173 | 0.01091 | 173 | 0 | ANNUAL | G61 | Grid Receptor 61 | |
| 650144 | 4078773 | 0.01381 | 171 | 0 | ANNUAL | G62 | Grid Receptor 62 | |
| 650144 | 4078373 | 0.00724 | 204.6 | 0 | ANNUAL | G63 | Grid Receptor 63 | |
| 650144 | 4077973 | 0.00707 | 216.5 | 0 | ANNUAL | G64 | Grid Receptor 64 | |
| 650144 | 4077573 | 0.0066 | 257.7 | 0 | ANNUAL | G65 | Grid Receptor 65 | |
| 650144 | 4076373 | 0.02069 | 231.4 | 0 | ANNUAL | G68 | Grid Receptor 68 | |
| 650144 | 4075973 | 0.01715 | 249.4 | 0 | ANNUAL | G69 | Grid Receptor 69 | |
| 647744 | 4076773 | 0.48994 | 164.7 | 0 | ANNUAL | G7 | Grid Receptor 7 | |
| 650144 | 4075573 | 0.02958 | 216.4 | 0 | ANNUAL | G70 | Grid Receptor 70 | |
| 650544 | 4079173 | 0.00909 | 177 | 0 | ANNUAL | G71 | Grid Receptor 71 | |
| 650544 | 4078773 | 0.00981 | 180.9 | 0 | ANNUAL | G72 | Grid Receptor 72 | |
| 650544 | 4078373 | 0.00866 | 196.6 | 0 | ANNUAL | G73 | Grid Receptor 73 | |
| 650544 | 4077973 | 0.00471 | 236.9 | 0 | ANNUAL | G74 | Grid Receptor 74 | |
| 650544 | 4077573 | 0.00551 | 261.3 | 0 | ANNUAL | G75 | Grid Receptor 75 | |
| 650544 | 4076373 | 0.01213 | 260.9 | 0 | ANNUAL | G78 | Grid Receptor 78 | |
| 650544 | 4075973 | 0.01777 | 226.7 | 0 | ANNUAL | G79 | Grid Receptor 79 | |
| 647744 | 4076373 | 0.23768 | 164 | 0 | ANNUAL | G8 | Grid Receptor 8 | |
| | | | | | | | | |

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15:31:43

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| 650544 | 4075573 | 0.01183 | 268.2 | 0 | ANNUAL | G80 | Grid Receptor 80 |
| 650944 | 4079173 | 0.00734 | 181.3 | 0 | ANNUAL | G81 | Grid Receptor 81 |
| 650944 | 4078773 | 0.0095 | 178.4 | 0 | ANNUAL | G82 | Grid Receptor 82 |
| 650944 | 4078373 | 0.00535 | 214.8 | 0 | ANNUAL | G83 | Grid Receptor 83 |
| 650944 | 4077973 | 0.00379 | 249.9 | 0 | ANNUAL | G84 | Grid Receptor 84 |
| 650944 | 4077573 | 0.00421 | 276.5 | 0 | ANNUAL | G85 | Grid Receptor 85 |
| 650944 | 4077173 | 0.01004 | 225.6 | 0 | ANNUAL | G86 | Grid Receptor 86 |
| 650944 | 4076773 | 0.0138 | 219.8 | 0 | ANNUAL | G87 | Grid Receptor 87 |
| 650944 | 4076373 | 0.02027 | 209.2 | 0 | ANNUAL | G88 | Grid Receptor 88 |
| 650944 | 4075973 | 0.01804 | 216.6 | 0 | ANNUAL | G89 | Grid Receptor 89 |
| 647744 | 4075973 | 0.1536 | 160.7 | 0 | ANNUAL | G9 | Grid Receptor 9 |
| 650944 | 4075573 | 0.01232 | 243.2 | 0 | ANNUAL | G90 | Grid Receptor 90 |
| 651344 | 4079173 | 0.00539 | 191 | 0 | ANNUAL | G91 | Grid Receptor 91 |
| 651344 | 4078773 | 0.00884 | 181 | 0 | ANNUAL | G92 | Grid Receptor 92 |
| 651344 | 4078373 | 0.0053 | 214.3 | 0 | ANNUAL | G93 | Grid Receptor 93 |
| 651344 | 4077973 | 0.00361 | 248.4 | 0 | ANNUAL | G94 | Grid Receptor 94 |
| 651344 | 4077573 | 0.00907 | 213.2 | 0 | ANNUAL | G95 | Grid Receptor 95 |
| 651344 | 4077173 | 0.0113 | 213.6 | 0 | ANNUAL | G96 | Grid Receptor 96 |
| 651344 | 4076773 | 0.01707 | 203.5 | 0 | ANNUAL | G97 | Grid Receptor 97 |
| 651344 | 4076373 | 0.01823 | 205.6 | 0 | ANNUAL | G98 | Grid Receptor 98 |
| 651344 | 4075973 | 0.01992 | 205.8 | 0 | ANNUAL | G99 | Grid Receptor 99 |
| 648584.2 | 4077523 | 0.09124 | 183.61 | 0 | ANNUAL | P1 | Boundary Perimeter 1 |
| 649484.1 | 4077537 | 0.00881 | 254.01 | 0 | ANNUAL | P10 | Boundary Perimeter 10 |
| 649584 | 4077539 | 0.01017 | 235.3 | 0 | ANNUAL | P11 | Boundary Perimeter 11 |
| 649684 | 4077540 | 0.01212 | 221.29 | 0 | ANNUAL | P12 | Boundary Perimeter 12 |
| 649784 | 4077541 | 0.0116 | 222.37 | 0 | ANNUAL | P13 | Boundary Perimeter 13 |
| 649884 | 4077542 | 0.00948 | 233.6 | 0 | ANNUAL | P14 | Boundary Perimeter 14 |
| 649984 | 4077543 | 0.00767 | 249.54 | 0 | ANNUAL | P15 | Boundary Perimeter 15 |
| 650083.9 | 4077546 | 0.00694 | 258.89 | 0 | ANNUAL | P16 | Boundary Perimeter 16 |
| 650183.9 | 4077548 | 0.00665 | 259.56 | 0 | ANNUAL | P17 | Boundary Perimeter 17 |
| 650283.9 | 4077550 | 0.00643 | 256.77 | 0 | ANNUAL | P18 | Boundary Perimeter 18 |
| 650383.8 | 4077552 | 0.00723 | 242.37 | 0 | ANNUAL | P19 | Boundary Perimeter 19 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-----|-----------------------|
| 648684.2 | 4077525 | 0.03903 | 197.16 | 0 | ANNUAL | P2 | Boundary Perimeter 2 |
| 650483.8 | 4077554 | 0.00701 | 242.23 | 0 | ANNUAL | P20 | Boundary Perimeter 20 |
| 650583.8 | 4077557 | 0.0056 | 259.71 | 0 | ANNUAL | P21 | Boundary Perimeter 21 |
| 650683.8 | 4077559 | 0.00549 | 257.58 | 0 | ANNUAL | P22 | Boundary Perimeter 22 |
| 650776.8 | 4077554 | 0.00486 | 267.9 | 0 | ANNUAL | P23 | Boundary Perimeter 23 |
| 650778.9 | 4077454 | 0.00503 | 275.91 | 0 | ANNUAL | P24 | Boundary Perimeter 24 |
| 650781 | 4077354 | 0.00575 | 265.73 | 0 | ANNUAL | P25 | Boundary Perimeter 25 |
| 650783.1 | 4077254 | 0.00702 | 251.08 | 0 | ANNUAL | P26 | Boundary Perimeter 26 |
| 650785.2 | 4077154 | 0.00742 | 252.83 | 0 | ANNUAL | P27 | Boundary Perimeter 27 |
| 650787.3 | 4077054 | 0.00858 | 246.1 | 0 | ANNUAL | P28 | Boundary Perimeter 28 |
| 650789.4 | 4076954 | 0.00974 | 241.37 | 0 | ANNUAL | P29 | Boundary Perimeter 29 |
| 648784.2 | 4077527 | 0.0239 | 209.74 | 0 | ANNUAL | Р3 | Boundary Perimeter 3 |
| 650791.5 | 4076854 | 0.00955 | 246.79 | 0 | ANNUAL | P30 | Boundary Perimeter 30 |
| 650793.6 | 4076754 | 0.01262 | 228.75 | 0 | ANNUAL | P31 | Boundary Perimeter 31 |
| 650754.4 | 4076683 | 0.0162 | 217.76 | 0 | ANNUAL | P32 | Boundary Perimeter 32 |
| 650660.2 | 4076650 | 0.01607 | 221.2 | 0 | ANNUAL | P33 | Boundary Perimeter 33 |
| 650561.4 | 4076650 | 0.01707 | 220.83 | 0 | ANNUAL | P34 | Boundary Perimeter 34 |
| 650462.7 | 4076666 | 0.0171 | 223.42 | 0 | ANNUAL | P35 | Boundary Perimeter 35 |
| 650364 | 4076682 | 0.01831 | 222.46 | 0 | ANNUAL | P36 | Boundary Perimeter 36 |
| 650264.2 | 4076683 | 0.01927 | 223.19 | 0 | ANNUAL | P37 | Boundary Perimeter 37 |
| 650164.7 | 4076674 | 0.02119 | 222.1 | 0 | ANNUAL | P38 | Boundary Perimeter 38 |
| 650065.8 | 4076660 | 0.02527 | 217.03 | 0 | ANNUAL | P39 | Boundary Perimeter 39 |
| 648884.2 | 4077529 | 0.01868 | 214.25 | 0 | ANNUAL | P4 | Boundary Perimeter 4 |
| 649980.4 | 4076627 | 0.02867 | 214.82 | 0 | ANNUAL | P40 | Boundary Perimeter 40 |
| 649920.3 | 4076547 | 0.031 | 214.91 | 0 | ANNUAL | P41 | Boundary Perimeter 41 |
| 649852.2 | 4076474 | 0.03348 | 214.09 | 0 | ANNUAL | P42 | Boundary Perimeter 42 |
| 649770.7 | 4076417 | 0.0376 | 211.53 | 0 | ANNUAL | P43 | Boundary Perimeter 43 |
| 649680.5 | 4076375 | 0.0438 | 210.17 | 0 | ANNUAL | P44 | Boundary Perimeter 44 |
| 649580.9 | 4076368 | 0.05018 | 208.52 | 0 | ANNUAL | P45 | Boundary Perimeter 45 |
| 649482.5 | 4076384 | 0.05652 | 207.5 | 0 | ANNUAL | P46 | Boundary Perimeter 46 |
| 649391.6 | 4076425 | 0.0663 | 205.17 | 0 | ANNUAL | P47 | Boundary Perimeter 47 |
| 649303.5 | 4076472 | 0.08036 | 202.16 | 0 | ANNUAL | P48 | Boundary Perimeter 48 |

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- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-----------------------|
| 649226.2 | 4076535 | 0.1068 | 196.38 | 0 | ANNUAL | P49 | Boundary Perimeter 49 |
| 648984.1 | 4077530 | 0.01605 | 221.41 | 0 | ANNUAL | P5 | Boundary Perimeter 5 |
| 649156.2 | 4076605 | 0.12158 | 195.87 | 0 | ANNUAL | P50 | Boundary Perimeter 50 |
| 649068.3 | 4076653 | 0.14175 | 196.32 | 0 | ANNUAL | P51 | Boundary Perimeter 51 |
| 648986.7 | 4076711 | 0.19947 | 192.42 | 0 | ANNUAL | P52 | Boundary Perimeter 52 |
| 648936.5 | 4076759 | 0.23251 | 192.46 | 0 | ANNUAL | P53 | Boundary Perimeter 53 |
| 648868.6 | 4076833 | 0.31679 | 191.63 | 0 | ANNUAL | P54 | Boundary Perimeter 54 |
| 648797.2 | 4076902 | 0.66656 | 186.32 | 0 | ANNUAL | P55 | Boundary Perimeter 55 |
| 648710.6 | 4076952 | 2.26116 | 179.81 | 0 | ANNUAL | P56 | Boundary Perimeter 56 |
| 648620.8 | 4076996 | 2.99002 | 176.23 | 0 | ANNUAL | P57 | Boundary Perimeter 57 |
| 648607.2 | 4077051 | 1.48597 | 175.02 | 0 | ANNUAL | P58 | Boundary Perimeter 58 |
| 648680.1 | 4077119 | 0.35101 | 180.62 | 0 | ANNUAL | P59 | Boundary Perimeter 59 |
| 649084.1 | 4077532 | 0.01602 | 216.54 | 0 | ANNUAL | P6 | Boundary Perimeter 6 |
| 648759.2 | 4077180 | 0.16324 | 183.47 | 0 | ANNUAL | P60 | Boundary Perimeter 60 |
| 648791.4 | 4077262 | 0.04675 | 202.88 | 0 | ANNUAL | P61 | Boundary Perimeter 61 |
| 648788.5 | 4077362 | 0.10923 | 178.21 | 0 | ANNUAL | P62 | Boundary Perimeter 62 |
| 648691.3 | 4077361 | 0.14113 | 176.25 | 0 | ANNUAL | P63 | Boundary Perimeter 63 |
| 648591.4 | 4077357 | 0.18591 | 176 | 0 | ANNUAL | P64 | Boundary Perimeter 64 |
| 648525.7 | 4077371 | 0.21715 | 175.24 | 0 | ANNUAL | P65 | Boundary Perimeter 65 |
| 648586.9 | 4077430 | 0.15663 | 175.13 | 0 | ANNUAL | P66 | Boundary Perimeter 66 |
| 649184.1 | 4077534 | 0.01238 | 230.71 | 0 | ANNUAL | P7 | Boundary Perimeter 7 |
| 649284.1 | 4077535 | 0.01008 | 248.08 | 0 | ANNUAL | P8 | Boundary Perimeter 8 |
| 649384.1 | 4077536 | 0.00909 | 258.43 | 0 | ANNUAL | P9 | Boundary Perimeter 9 |
| 645930 | 4077983 | 0.29466 | 127.38 | 0 | ANNUAL | RP_G1 | New Development |
| 645930 | 4078083 | 0.2548 | 127.58 | 0 | ANNUAL | RP_G10 | New Development |
| 646030 | 4078083 | 0.26865 | 130.56 | 0 | ANNUAL | RP_G11 | New Development |
| 646130 | 4078083 | 0.28094 | 134.35 | 0 | ANNUAL | RP_G12 | New Development |
| 646230 | 4078083 | 0.29436 | 139.22 | 0 | ANNUAL | RP_G13 | New Development |
| 646330 | 4078083 | 0.30528 | 144.65 | 0 | ANNUAL | RP_G14 | New Development |
| 646430 | 4078083 | 0.31235 | 142.28 | 0 | ANNUAL | RP_G15 | New Development |
| 646530 | 4078083 | 0.32297 | 146.76 | 0 | ANNUAL | RP_G16 | New Development |
| 646630 | 4078083 | 0.32716 | 150.64 | 0 | ANNUAL | RP_G17 | New Development |

* AERMET (21112): John Smith Road DPM Grnd 2020

15:31:43

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-----------------|
| 646730 | 4078083 | 0.31983 | 155.4 | 0 | ANNUAL | RP_G18 | New Development |
| 645930 | 4078183 | 0.22426 | 127.22 | 0 | ANNUAL | RP_G19 | New Development |
| 646030 | 4077983 | 0.31445 | 131.21 | 0 | ANNUAL | RP_G2 | New Development |
| 646030 | 4078183 | 0.23702 | 130.56 | 0 | ANNUAL | RP_G20 | New Development |
| 646130 | 4078183 | 0.24735 | 133.89 | 0 | ANNUAL | RP_G21 | New Development |
| 646230 | 4078183 | 0.26186 | 140.45 | 0 | ANNUAL | RP_G22 | New Development |
| 646330 | 4078183 | 0.26893 | 146.94 | 0 | ANNUAL | RP_G23 | New Development |
| 646430 | 4078183 | 0.27287 | 140.23 | 0 | ANNUAL | RP_G24 | New Development |
| 646530 | 4078183 | 0.286 | 147.25 | 0 | ANNUAL | RP_G25 | New Development |
| 646630 | 4078183 | 0.28747 | 151.56 | 0 | ANNUAL | RP_G26 | New Development |
| 646730 | 4078183 | 0.26935 | 157.78 | 0 | ANNUAL | RP_G27 | New Development |
| 645930 | 4078283 | 0.19916 | 126.06 | 0 | ANNUAL | RP_G28 | New Development |
| 646030 | 4078283 | 0.21049 | 129.56 | 0 | ANNUAL | RP_G29 | New Development |
| 646130 | 4077983 | 0.32921 | 135.89 | 0 | ANNUAL | RP_G3 | New Development |
| 646130 | 4078283 | 0.22035 | 132.89 | 0 | ANNUAL | RP_G30 | New Development |
| 646230 | 4078283 | 0.23392 | 139.24 | 0 | ANNUAL | RP_G31 | New Development |
| 646330 | 4078283 | 0.24271 | 142.68 | 0 | ANNUAL | RP_G32 | New Development |
| 646430 | 4078283 | 0.24394 | 140.02 | 0 | ANNUAL | RP_G33 | New Development |
| 646530 | 4078283 | 0.25408 | 147.22 | 0 | ANNUAL | RP_G34 | New Development |
| 646630 | 4078283 | 0.25102 | 151.56 | 0 | ANNUAL | RP_G35 | New Development |
| 646730 | 4078283 | 0.23569 | 156.78 | 0 | ANNUAL | RP_G36 | New Development |
| 646230 | 4077983 | 0.33996 | 139.18 | 0 | ANNUAL | RP_G4 | New Development |
| 646330 | 4077983 | 0.34973 | 140.76 | 0 | ANNUAL | RP_G5 | New Development |
| 646430 | 4077983 | 0.36249 | 143.89 | 0 | ANNUAL | RP_G6 | New Development |
| 646530 | 4077983 | 0.37231 | 145.22 | 0 | ANNUAL | RP_G7 | New Development |
| 646630 | 4077983 | 0.38136 | 147.21 | 0 | ANNUAL | RP_G8 | New Development |
| 646730 | 4077983 | 0.39226 | 148.3 | 0 | ANNUAL | RP_G9 | New Development |
| 648659.3 | 4077241 | 0.06168 | 205.79 | 0 | ANNUAL | RP_H1 | House 1 |
| 648071.2 | 4076116 | 0.19523 | 169.6 | 0 | ANNUAL | RP_H10 | House 10 |
| 648247.4 | 4076278 | 0.17805 | 184.55 | 0 | ANNUAL | RP_H11 | House 11 |
| 648027.2 | 4076255 | 0.22991 | 169.38 | 0 | ANNUAL | RP_H12 | House 12 |
| 648065.8 | 4076359 | 0.25053 | 173.83 | 0 | ANNUAL | RP_H13 | House 13 |

* AERMOD (19191): Appendix B Attachment

10/05/21

* AERMET (21112): John Smith Road DPM Grnd 2020

15:31:43

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|--------|-------------|
| 648138.7 | 4076400 | 0.24698 | 178.22 | 0 | ANNUAL | RP_H14 | House 14 |
| 648254.7 | 4076411 | 0.1692 | 191.28 | 0 | ANNUAL | RP_H15 | House 15 |
| 647877.8 | 4076365 | 0.25943 | 165.39 | 0 | ANNUAL | RP_H16 | House 16 |
| 647520 | 4076206 | 0.17372 | 159 | 0 | ANNUAL | RP_H17 | House 17 |
| 647921 | 4076247 | 0.2284 | 164 | 0 | ANNUAL | RP_H18 | House 18 |
| 647708.8 | 4076352 | 0.22533 | 163.52 | 0 | ANNUAL | RP_H19 | House 19 |
| 648371.7 | 4075470 | 0.10731 | 173.69 | 0 | ANNUAL | RP_H2 | House 2 |
| 647703.6 | 4076251 | 0.20108 | 162.17 | 0 | ANNUAL | RP_H20 | House 20 |
| 647718.8 | 4076104 | 0.1753 | 159.35 | 0 | ANNUAL | RP_H21 | House 21 |
| 647843.3 | 4076125 | 0.18771 | 163 | 0 | ANNUAL | RP_H22 | House 22 |
| 647842.3 | 4076500 | 0.29978 | 167.93 | 0 | ANNUAL | RP_H23 | House 23 |
| 647727.8 | 4076644 | 0.36266 | 164.15 | 0 | ANNUAL | RP_H24 | House 24 |
| 647823.9 | 4076644 | 0.38242 | 168.29 | 0 | ANNUAL | RP_H25 | House 25 |
| 647530 | 4076497 | 0.24561 | 159.56 | 0 | ANNUAL | RP_H26 | House 26 |
| 647810.1 | 4076854 | 0.80807 | 162.9 | 0 | ANNUAL | RP_H27 | House 27 |
| 647697.5 | 4076989 | 0.94174 | 161.42 | 0 | ANNUAL | RP_H28 | House 28 |
| 648225.5 | 4076182 | 0.16235 | 183.22 | 0 | ANNUAL | RP_H29 | House 29 |
| 647678.2 | 4075969 | 0.14892 | 159.5 | 0 | ANNUAL | RP_H3 | House 3 |
| 645876.3 | 4077487 | 0.39078 | 127.13 | 0 | ANNUAL | RP_H30 | House 30 |
| 650902 | 4076062 | 0.01896 | 215.24 | 0 | ANNUAL | RP_H31 | House 31 |
| 651490 | 4076597 | 0.01604 | 205.5 | 0 | ANNUAL | RP_H32 | House 32 |
| 651565 | 4077067 | 0.01087 | 213.93 | 0 | ANNUAL | RP_H33 | House 33 |
| 648672.8 | 4075307 | 0.03222 | 225.91 | 0 | ANNUAL | RP_H34 | House 34 |
| 648383.6 | 4075469 | 0.10638 | 174.44 | 0 | ANNUAL | RP_H35 | House 35 |
| 646379.4 | 4077233 | 0.49049 | 146 | 0 | ANNUAL | RP_H36 | House 36 |
| 651849.7 | 4075865 | 0.01811 | 201.97 | 0 | ANNUAL | RP_H37 | House 37 |
| 652045.5 | 4076210 | 0.01714 | 196.88 | 0 | ANNUAL | RP_H38 | House 38 |
| 652255.7 | 4076391 | 0.01485 | 197.06 | 0 | ANNUAL | RP_H39 | House 39 |
| 647815.3 | 4075985 | 0.15991 | 162.04 | 0 | ANNUAL | RP_H4 | House 4 |
| 646853.7 | 4077373 | 1.26906 | 145.99 | 0 | ANNUAL | RP_H40 | House 40 |
| 647050.2 | 4077360 | 1.19388 | 145 | 0 | ANNUAL | RP_H41 | House 41 |
| 647286.4 | 4077474 | 2.84064 | 149.68 | 0 | ANNUAL | RP_H42 | House 42 |

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* AERMET (21112): John Smith Road DPM Grnd 2020

15:31:43

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- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| \mathbf{X} | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|--------------|---------|--------------|--------|-------|--------|--------|-------------|
| 647359.1 | 4077340 | 1.23817 | 154.45 | 0 | ANNUAL | RP_H43 | House 43 |
| 647490.4 | 4077329 | 1.3073 | 162.28 | 0 | ANNUAL | RP_H44 | House 44 |
| 647522.2 | 4077252 | 1.01958 | 164.3 | 0 | ANNUAL | RP_H45 | House 45 |
| 647517.8 | 4077139 | 0.711 | 164.01 | 0 | ANNUAL | RP_H46 | House 46 |
| 646819 | 4077258 | 0.67806 | 151.53 | 0 | ANNUAL | RP_H47 | House 47 |
| 646778.7 | 4077128 | 0.36597 | 158.51 | 0 | ANNUAL | RP_H48 | House 48 |
| 646987.3 | 4077213 | 0.68577 | 146.44 | 0 | ANNUAL | RP_H49 | House 49 |
| 647898.2 | 4076033 | 0.17304 | 163.83 | 0 | ANNUAL | RP_H5 | House 5 |
| 647241.8 | 4077227 | 0.72403 | 154.85 | 0 | ANNUAL | RP_H50 | House 50 |
| 646773.1 | 4077063 | 0.31643 | 159 | 0 | ANNUAL | RP_H51 | House 51 |
| 647104.4 | 4077118 | 0.54941 | 148.99 | 0 | ANNUAL | RP_H52 | House 52 |
| 647291.9 | 4077123 | 0.54643 | 158.62 | 0 | ANNUAL | RP_H53 | House 53 |
| 646765.2 | 4076978 | 0.27352 | 158.67 | 0 | ANNUAL | RP_H54 | House 54 |
| 646995.7 | 4076984 | 0.38397 | 152.34 | 0 | ANNUAL | RP_H55 | House 55 |
| 647317.2 | 4077031 | 0.44823 | 160.22 | 0 | ANNUAL | RP_H56 | House 56 |
| 647398.4 | 4077013 | 0.46452 | 161.26 | 0 | ANNUAL | RP_H57 | House 57 |
| 646978.9 | 4076904 | 0.30395 | 156.81 | 0 | ANNUAL | RP_H58 | House 58 |
| 647015.2 | 4076807 | 0.27141 | 156.21 | 0 | ANNUAL | RP_H59 | House 59 |
| 648045.4 | 4076018 | 0.17507 | 168.26 | 0 | ANNUAL | RP_H6 | House 6 |
| 647164 | 4076802 | 0.30438 | 154.38 | 0 | ANNUAL | RP_H60 | House 60 |
| 647310.6 | 4076940 | 0.35754 | 162.49 | 0 | ANNUAL | RP_H61 | House 61 |
| 647298.1 | 4076805 | 0.31958 | 158 | 0 | ANNUAL | RP_H62 | House 62 |
| 647446.6 | 4076900 | 0.4152 | 159.45 | 0 | ANNUAL | RP_H63 | House 63 |
| 647464.5 | 4076781 | 0.3516 | 159.32 | 0 | ANNUAL | RP_H64 | House 64 |
| 647512 | 4076536 | 0.25635 | 159 | 0 | ANNUAL | RP_H65 | House 65 |
| 651131 | 4078767 | 0.0092 | 179.58 | 0 | ANNUAL | RP_H66 | House 66 |
| 647131 | 4077336 | 1.08371 | 146.77 | 0 | ANNUAL | RP_H67 | House 67 |
| 646798 | 4076740 | 0.21161 | 156.07 | 0 | ANNUAL | RP_H68 | House 68 |
| 646900 | 4076802 | 0.23296 | 159 | 0 | ANNUAL | RP_H69 | House 69 |
| 648126.3 | 4075955 | 0.16116 | 171.51 | 0 | ANNUAL | RP_H7 | House 7 |
| 647317 | 4076662 | 0.25976 | 159.9 | 0 | ANNUAL | RP_H70 | House 70 |
| 648249.3 | 4075970 | 0.12869 | 183.42 | 0 | ANNUAL | RP_H8 | House 8 |

* AERMOD (19191): Appendix B Attachment

10/05/21

* AERMET (21112): John Smith Road DPM Grnd 2020

15:31:43

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | ID | Description |
|----------|---------|--------------|--------|-------|--------|-------|-------------|
| 648218.6 | 4076109 | 0.15284 | 182.28 | 0 | ANNUAL | RP_H9 | House 9 |

* AERMOD (19191): Appendix B Attachment Flare

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 1-hr 2018

14:01:17

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| | | | ,, | .0,=11,110,011, | ,,,,, | <u> </u> | | |
|----------|----------|------------------------------------|------|-----------------|--------|--------------|---------|--------|
| | ID | Description | AVE | ZFLAG | ZELEV | AVERAGE CONC | Y | X |
| | AQ_ST_1 | AQ Monitoring Station | 1-HR | 1.5 | 123.85 | 0.07278 | 4078698 | 645996 |
| | CR_HP_1 | Hazel Hawkins Memorial Hospital | 1-HR | 1.5 | 105.68 | 0.0425 | 4077719 | 643904 |
| | CR_PK_1 | Dunne Park | 1-HR | 1.5 | 85.12 | 0.04479 | 4079416 | 642057 |
| | CR_PK_2 | Vista Park Hill Park | 1-HR | 1.5 | 117.99 | 0.03488 | 4079950 | 642179 |
| | CR_PK_3 | Las Brisas Park | 1-HR | 1.5 | 106.44 | 0.03967 | 4078753 | 644733 |
| | CR_PK_4 | Frank Klauer Memorial Park | 1-HR | 1.5 | 112.86 | 0.06755 | 4078854 | 645609 |
| | CR_PK_5 | Veterans Memorial Park | 1-HR | 1.5 | 95.25 | 0.04731 | 4078807 | 644238 |
| | CR_PK_6 | Park 6 | 1-HR | 1.5 | 134.61 | 0.10089 | 4076559 | 645311 |
| | CR_PK_7 | Park 7 | 1-HR | 1.5 | 159.96 | 0.04028 | 4073424 | 649582 |
| | CR_SC_1 | Cerra Vista Elem School | 1-HR | 1.5 | 133 | 0.06469 | 4077181 | 645145 |
| | CR_SC_10 | San Andreas Continuation | 1-HR | 1.5 | 86 | 0.03536 | 4079955 | 642905 |
| | CR_SC_11 | SouthSide School | 1-HR | 1.5 | 123 | 0.04215 | 4074015 | 645851 |
| | CR_SC_12 | School 12 | 1-HR | 1.5 | 91 | 0.03394 | 4078176 | 642106 |
| School 1 | CR_SC_13 | Rancho Santana School | 1-HR | 1.5 | 128.52 | 0.07006 | 4078443 | 646059 |
| School 2 | CR_SC_14 | Future School | 1-HR | 1.5 | 158 | 0.08819 | 4075575 | 647269 |
| | CR_SC_15 | Tres Pinos Union Elementary School | 1-HR | 1.5 | 159 | 0.03308 | 4074106 | 648466 |
| | CR_SC_2 | Sunnyslope Elem School | 1-HR | 1.5 | 98.2 | 0.05441 | 4078389 | 644110 |
| | CR_SC_3 | Hollister Montessori School | 1-HR | 1.5 | 101.23 | 0.05154 | 4077304 | 643920 |
| | CR_SC_4 | Rancho San Justo Middle School | 1-HR | 1.5 | 92 | 0.04245 | 4078621 | 642961 |
| | CR_SC_5 | Marguerite Maze Middle School | 1-HR | 1.5 | 88 | 0.05113 | 4079743 | 643980 |
| | CR_SC_6 | Hollister Prep Schoo | 1-HR | 1.5 | 85 | 0.03927 | 4079153 | 641630 |
| | CR_SC_7 | Ladd Lane Elementary School | 1-HR | 1.5 | 98.22 | 0.05699 | 4077181 | 643350 |
| | CR_SC_8 | Gabilan Hills Elementary School | 1-HR | 1.5 | 87 | 0.05258 | 4080079 | 644003 |
| | CR_SC_9 | San Benito High School | 1-HR | 1.5 | 90.17 | 0.03435 | 4078413 | 642245 |
| | CR_SR_1 | Jovenes De Antano | 1-HR | 1.5 | 87.58 | 0.03554 | 4079794 | 642083 |
| MEIW | CR_WP_1 | Workplace | 1-HR | 1.5 | 146.33 | 0.10747 | 4076879 | 646402 |
| | CR_WP_2 | Nearest Workplace | 1-HR | 1.5 | 189.45 | 0.10247 | 4077938 | 648949 |
| | G1 | Grid Receptor 1 | 1-HR | 1.5 | 155.2 | 0.11726 | 4079173 | 647744 |
| | G10 | Grid Receptor 10 | 1-HR | 1.5 | 160 | 0.03797 | 4075573 | 647744 |
| | G100 | Grid Receptor 100 | 1-HR | 1.5 | 252.9 | 0.23982 | 4075573 | 651344 |
| | G11 | Grid Receptor 11 | 1-HR | 1.5 | 165.9 | 0.0689 | 4079173 | 648144 |
| | G12 | Grid Receptor 12 | 1-HR | 1.5 | 159.6 | 0.11053 | 4078773 | 648144 |
| _ | | | | | | | | |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 1-hr 2018

14:01:17

- PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 648144 | 4078373 | 0.12596 | 146.2 | 1.5 | 1-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.10203 | 158.3 | 1.5 | 1-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.11897 | 166.6 | 1.5 | 1-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.10087 | 175.4 | 1.5 | 1-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.13059 | 177.1 | 1.5 | 1-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.13034 | 178 | 1.5 | 1-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.08709 | 173 | 1.5 | 1-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.10396 | 145.4 | 1.5 | 1-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.10216 | 168.8 | 1.5 | 1-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.0737 | 173.5 | 1.5 | 1-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.05736 | 166.2 | 1.5 | 1-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.06418 | 145.4 | 1.5 | 1-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.12535 | 173.9 | 1.5 | 1-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.12451 | 179.6 | 1.5 | 1-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.15364 | 191 | 1.5 | 1-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.22148 | 209.2 | 1.5 | 1-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.13502 | 233.7 | 1.5 | 1-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.07588 | 199.9 | 1.5 | 1-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.08513 | 144.4 | 1.5 | 1-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.06558 | 195.5 | 1.5 | 1-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.10893 | 190.4 | 1.5 | 1-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.10764 | 165.4 | 1.5 | 1-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.10642 | 159.6 | 1.5 | 1-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.10131 | 183.5 | 1.5 | 1-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.11705 | 224 | 1.5 | 1-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.15379 | 205 | 1.5 | 1-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.11004 | 208.8 | 1.5 | 1-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.09223 | 134.6 | 1.5 | 1-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.05372 | 185.6 | 1.5 | 1-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.04992 | 187.4 | 1.5 | 1-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.05008 | 160.9 | 1.5 | 1-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.05972 | 200.5 | 1.5 | 1-HR | Grid Receptor 43 | G43 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 1-hr 2018

14:01:17

- PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 649344 | 4077973 | 0.06672 | 229 | 1.5 | 1-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.46334 | 253.3 | 1.5 | 1-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.41203 | 220.2 | 1.5 | 1-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.15448 | 227.2 | 1.5 | 1-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.09727 | 163.8 | 1.5 | 1-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.14016 | 205.5 | 1.5 | 1-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.05893 | 176.1 | 1.5 | 1-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.08305 | 195 | 1.5 | 1-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.10099 | 196.1 | 1.5 | 1-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.10427 | 215.3 | 1.5 | 1-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.07782 | 221.6 | 1.5 | 1-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.18426 | 211.7 | 1.5 | 1-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.20033 | 237.7 | 1.5 | 1-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.07472 | 158.4 | 1.5 | 1-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.18619 | 204.2 | 1.5 | 1-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.09728 | 173 | 1.5 | 1-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.08401 | 171 | 1.5 | 1-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.061 | 204.6 | 1.5 | 1-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.07146 | 216.5 | 1.5 | 1-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.50713 | 257.7 | 1.5 | 1-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.17749 | 231.4 | 1.5 | 1-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.34616 | 249.4 | 1.5 | 1-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.14239 | 164.7 | 1.5 | 1-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.1168 | 216.4 | 1.5 | 1-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.0423 | 177 | 1.5 | 1-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.03559 | 180.9 | 1.5 | 1-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.0616 | 196.6 | 1.5 | 1-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.07752 | 236.9 | 1.5 | 1-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.52352 | 261.3 | 1.5 | 1-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.6278 | 260.9 | 1.5 | 1-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.11331 | 226.7 | 1.5 | 1-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.13736 | 164 | 1.5 | 1-HR | Grid Receptor 8 | G8 |

09/30/21

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- PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|-----|
| 650544 | 4075573 | 0.62986 | 268.2 | 1.5 | 1-HR | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.03729 | 181.3 | 1.5 | 1-HR | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.05139 | 178.4 | 1.5 | 1-HR | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.06648 | 214.8 | 1.5 | 1-HR | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.25432 | 249.9 | 1.5 | 1-HR | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.66985 | 276.5 | 1.5 | 1-HR | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.08843 | 225.6 | 1.5 | 1-HR | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.12921 | 219.8 | 1.5 | 1-HR | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.09464 | 209.2 | 1.5 | 1-HR | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.08538 | 216.6 | 1.5 | 1-HR | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.13662 | 160.7 | 1.5 | 1-HR | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.12283 | 243.2 | 1.5 | 1-HR | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.04905 | 191 | 1.5 | 1-HR | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.05378 | 181 | 1.5 | 1-HR | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.05511 | 214.3 | 1.5 | 1-HR | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.20607 | 248.4 | 1.5 | 1-HR | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.06407 | 213.2 | 1.5 | 1-HR | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.07044 | 213.6 | 1.5 | 1-HR | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.13646 | 203.5 | 1.5 | 1-HR | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.084 | 205.6 | 1.5 | 1-HR | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.06701 | 205.8 | 1.5 | 1-HR | Grid Receptor 99 | G99 |
| 648584 | 4077523 | 0.12896 | 183.61 | 1.5 | 1-HR | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 0.49956 | 254.01 | 1.5 | 1-HR | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.08405 | 235.3 | 1.5 | 1-HR | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.09163 | 221.29 | 1.5 | 1-HR | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.0594 | 222.37 | 1.5 | 1-HR | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.09143 | 233.6 | 1.5 | 1-HR | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.31402 | 249.54 | 1.5 | 1-HR | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 0.54683 | 258.89 | 1.5 | 1-HR | Boundary Perimeter 16 | P16 |
| 650184 | 4077548 | 0.57621 | 259.56 | 1.5 | 1-HR | Boundary Perimeter 17 | P17 |
| 650284 | 4077550 | 0.46554 | 256.77 | 1.5 | 1-HR | Boundary Perimeter 18 | P18 |
| 650384 | 4077552 | 0.13029 | 242.37 | 1.5 | 1-HR | Boundary Perimeter 19 | P19 |

09/30/21

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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|-----|
| 648684 | 4077525 | 0.13149 | 197.16 | 1.5 | 1-HR | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.13155 | 242.23 | 1.5 | 1-HR | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.52823 | 259.71 | 1.5 | 1-HR | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.48884 | 257.58 | 1.5 | 1-HR | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.71605 | 267.9 | 1.5 | 1-HR | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.60625 | 275.91 | 1.5 | 1-HR | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.58663 | 265.73 | 1.5 | 1-HR | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.26297 | 251.08 | 1.5 | 1-HR | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.31223 | 252.83 | 1.5 | 1-HR | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.15876 | 246.1 | 1.5 | 1-HR | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.10878 | 241.37 | 1.5 | 1-HR | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.15756 | 209.74 | 1.5 | 1-HR | Boundary Perimeter 3 | Р3 |
| 650791 | 4076854 | 0.19651 | 246.79 | 1.5 | 1-HR | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.12443 | 228.75 | 1.5 | 1-HR | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.13452 | 217.76 | 1.5 | 1-HR | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.1301 | 221.2 | 1.5 | 1-HR | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.12831 | 220.83 | 1.5 | 1-HR | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.13886 | 223.42 | 1.5 | 1-HR | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.15721 | 222.46 | 1.5 | 1-HR | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.17231 | 223.19 | 1.5 | 1-HR | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.18854 | 222.1 | 1.5 | 1-HR | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.20614 | 217.03 | 1.5 | 1-HR | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.1549 | 214.25 | 1.5 | 1-HR | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.22013 | 214.82 | 1.5 | 1-HR | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.23212 | 214.91 | 1.5 | 1-HR | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.25754 | 214.09 | 1.5 | 1-HR | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.20797 | 211.53 | 1.5 | 1-HR | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.21485 | 210.17 | 1.5 | 1-HR | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.26115 | 208.52 | 1.5 | 1-HR | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.33279 | 207.5 | 1.5 | 1-HR | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.35535 | 205.17 | 1.5 | 1-HR | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.20009 | 202.16 | 1.5 | 1-HR | Boundary Perimeter 48 | P48 |

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 * AVERAGE CONC. ZELEV. ZELAG. AVE

| \mathbf{X} | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------------|---------|--------------|--------|-------|------|-----------------------|--------|-----|
| 649226 | 4076535 | 0.16189 | 196.38 | 1.5 | 1-HR | Boundary Perimeter 49 | P49 | |
| 648984 | 4077530 | 0.10446 | 221.41 | 1.5 | 1-HR | Boundary Perimeter 5 | P5 | |
| 649156 | 4076605 | 0.23447 | 195.87 | 1.5 | 1-HR | Boundary Perimeter 50 | P50 | |
| 649068 | 4076653 | 0.42518 | 196.32 | 1.5 | 1-HR | Boundary Perimeter 51 | P51 | |
| 648987 | 4076711 | 0.36459 | 192.42 | 1.5 | 1-HR | Boundary Perimeter 52 | P52 | |
| 648937 | 4076759 | 0.28563 | 192.46 | 1.5 | 1-HR | Boundary Perimeter 53 | P53 | |
| 648869 | 4076833 | 0.25477 | 191.63 | 1.5 | 1-HR | Boundary Perimeter 54 | P54 | |
| 648797 | 4076902 | 0.21086 | 186.32 | 1.5 | 1-HR | Boundary Perimeter 55 | P55 | |
| 648711 | 4076952 | 0.18898 | 179.81 | 1.5 | 1-HR | Boundary Perimeter 56 | P56 | |
| 648621 | 4076996 | 0.16603 | 176.23 | 1.5 | 1-HR | Boundary Perimeter 57 | P57 | |
| 648607 | 4077051 | 0.1476 | 175.02 | 1.5 | 1-HR | Boundary Perimeter 58 | P58 | |
| 648680 | 4077119 | 0.16147 | 180.62 | 1.5 | 1-HR | Boundary Perimeter 59 | P59 | |
| 649084 | 4077532 | 0.10666 | 216.54 | 1.5 | 1-HR | Boundary Perimeter 6 | P6 | |
| 648759 | 4077180 | 0.16117 | 183.47 | 1.5 | 1-HR | Boundary Perimeter 60 | P60 | |
| 648791 | 4077262 | 0.17536 | 202.88 | 1.5 | 1-HR | Boundary Perimeter 61 | P61 | |
| 648788 | 4077362 | 0.14147 | 178.21 | 1.5 | 1-HR | Boundary Perimeter 62 | P62 | |
| 648691 | 4077361 | 0.13825 | 176.25 | 1.5 | 1-HR | Boundary Perimeter 63 | P63 | |
| 648591 | 4077357 | 0.14832 | 176 | 1.5 | 1-HR | Boundary Perimeter 64 | P64 | |
| 648526 | 4077371 | 0.1477 | 175.24 | 1.5 | 1-HR | Boundary Perimeter 65 | P65 | |
| 648587 | 4077430 | 0.13932 | 175.13 | 1.5 | 1-HR | Boundary Perimeter 66 | P66 | |
| 649184 | 4077534 | 0.10205 | 230.71 | 1.5 | 1-HR | Boundary Perimeter 7 | P7 | |
| 649284 | 4077535 | 0.33058 | 248.08 | 1.5 | 1-HR | Boundary Perimeter 8 | P8 | |
| 649384 | 4077536 | 0.73471 | 258.43 | 1.5 | 1-HR | Boundary Perimeter 9 | P9 | PMI |
| 645930 | 4077983 | 0.06486 | 127.38 | 1.5 | 1-HR | New Development | RP_G1 | |
| 645930 | 4078083 | 0.05713 | 127.58 | 1.5 | 1-HR | New Development | RP_G10 | |
| 646030 | 4078083 | 0.05353 | 130.56 | 1.5 | 1-HR | New Development | RP_G11 | |
| 646130 | 4078083 | 0.04937 | 134.35 | 1.5 | 1-HR | New Development | RP_G12 | |
| 646230 | 4078083 | 0.0542 | 139.22 | 1.5 | 1-HR | New Development | RP_G13 | |
| 646330 | 4078083 | 0.06058 | 144.65 | 1.5 | 1-HR | New Development | RP_G14 | |
| 646430 | 4078083 | 0.06599 | 142.28 | 1.5 | 1-HR | New Development | RP_G15 | |
| 646530 | 4078083 | 0.07207 | 146.76 | 1.5 | 1-HR | New Development | RP_G16 | |
| 646630 | 4078083 | 0.07765 | 150.64 | 1.5 | 1-HR | New Development | RP_G17 | |
| | | | | | | | | _ |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------|--------|
| 646730 | 4078083 | 0.08264 | 155.4 | 1.5 | 1-HR | New Development | RP_G18 |
| 645930 | 4078183 | 0.04735 | 127.22 | 1.5 | 1-HR | New Development | RP_G19 |
| 646030 | 4077983 | 0.06269 | 131.21 | 1.5 | 1-HR | New Development | RP_G2 |
| 646030 | 4078183 | 0.05126 | 130.56 | 1.5 | 1-HR | New Development | RP_G20 |
| 646130 | 4078183 | 0.05692 | 133.89 | 1.5 | 1-HR | New Development | RP_G21 |
| 646230 | 4078183 | 0.06305 | 140.45 | 1.5 | 1-HR | New Development | RP_G22 |
| 646330 | 4078183 | 0.06918 | 146.94 | 1.5 | 1-HR | New Development | RP_G23 |
| 646430 | 4078183 | 0.07306 | 140.23 | 1.5 | 1-HR | New Development | RP_G24 |
| 646530 | 4078183 | 0.07834 | 147.25 | 1.5 | 1-HR | New Development | RP_G25 |
| 646630 | 4078183 | 0.08239 | 151.56 | 1.5 | 1-HR | New Development | RP_G26 |
| 646730 | 4078183 | 0.08566 | 157.78 | 1.5 | 1-HR | New Development | RP_G27 |
| 645930 | 4078283 | 0.05384 | 126.06 | 1.5 | 1-HR | New Development | RP_G28 |
| 646030 | 4078283 | 0.05921 | 129.56 | 1.5 | 1-HR | New Development | RP_G29 |
| 646130 | 4077983 | 0.05978 | 135.89 | 1.5 | 1-HR | New Development | RP_G3 |
| 646130 | 4078283 | 0.06451 | 132.89 | 1.5 | 1-HR | New Development | RP_G30 |
| 646230 | 4078283 | 0.07 | 139.24 | 1.5 | 1-HR | New Development | RP_G31 |
| 646330 | 4078283 | 0.0747 | 142.68 | 1.5 | 1-HR | New Development | RP_G32 |
| 646430 | 4078283 | 0.07777 | 140.02 | 1.5 | 1-HR | New Development | RP_G33 |
| 646530 | 4078283 | 0.08143 | 147.22 | 1.5 | 1-HR | New Development | RP_G34 |
| 646630 | 4078283 | 0.08348 | 151.56 | 1.5 | 1-HR | New Development | RP_G35 |
| 646730 | 4078283 | 0.0897 | 156.78 | 1.5 | 1-HR | New Development | RP_G36 |
| 646230 | 4077983 | 0.05601 | 139.18 | 1.5 | 1-HR | New Development | RP_G4 |
| 646330 | 4077983 | 0.0517 | 140.76 | 1.5 | 1-HR | New Development | RP_G5 |
| 646430 | 4077983 | 0.05688 | 143.89 | 1.5 | 1-HR | New Development | RP_G6 |
| 646530 | 4077983 | 0.06315 | 145.22 | 1.5 | 1-HR | New Development | RP_G7 |
| 646630 | 4077983 | 0.06943 | 147.21 | 1.5 | 1-HR | New Development | RP_G8 |
| 646730 | 4077983 | 0.07524 | 148.3 | 1.5 | 1-HR | New Development | RP_G9 |
| 648659 | 4077241 | 0.17523 | 205.79 | 1.5 | 1-HR | House 1 | RP_H1 |
| 648071 | 4076116 | 0.13487 | 169.6 | 1.5 | 1-HR | House 10 | RP_H10 |
| 648247 | 4076278 | 0.11494 | 184.55 | 1.5 | 1-HR | House 11 | RP_H11 |
| 648027 | 4076255 | 0.10809 | 169.38 | 1.5 | 1-HR | House 12 | RP_H12 |
| 648066 | 4076359 | 0.1267 | 173.83 | 1.5 | 1-HR | House 13 | RP_H13 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|-------------|--------|------|
| 648139 | 4076400 | 0.14366 | 178.22 | 1.5 | 1-HR | House 14 | RP_H14 | |
| 648255 | 4076411 | 0.14995 | 191.28 | 1.5 | 1-HR | House 15 | RP_H15 | |
| 647878 | 4076365 | 0.13304 | 165.39 | 1.5 | 1-HR | House 16 | RP_H16 | |
| 647520 | 4076206 | 0.08542 | 159 | 1.5 | 1-HR | House 17 | RP_H17 | |
| 647921 | 4076247 | 0.10243 | 164 | 1.5 | 1-HR | House 18 | RP_H18 | |
| 647709 | 4076352 | 0.13034 | 163.52 | 1.5 | 1-HR | House 19 | RP_H19 | |
| 648372 | 4075470 | 0.08569 | 173.69 | 1.5 | 1-HR | House 2 | RP_H2 | |
| 647704 | 4076251 | 0.09475 | 162.17 | 1.5 | 1-HR | House 20 | RP_H20 | |
| 647719 | 4076104 | 0.12982 | 159.35 | 1.5 | 1-HR | House 21 | RP_H21 | |
| 647843 | 4076125 | 0.13293 | 163 | 1.5 | 1-HR | House 22 | RP_H22 | |
| 647842 | 4076500 | 0.17412 | 167.93 | 1.5 | 1-HR | House 23 | RP_H23 | |
| 647728 | 4076644 | 0.17216 | 164.15 | 1.5 | 1-HR | House 24 | RP_H24 | |
| 647824 | 4076644 | 0.17609 | 168.29 | 1.5 | 1-HR | House 25 | RP_H25 | MIER |
| 647530 | 4076497 | 0.16217 | 159.56 | 1.5 | 1-HR | House 26 | RP_H26 | |
| 647810 | 4076854 | 0.1111 | 162.9 | 1.5 | 1-HR | House 27 | RP_H27 | |
| 647697 | 4076989 | 0.09762 | 161.42 | 1.5 | 1-HR | House 28 | RP_H28 | |
| 648226 | 4076182 | 0.13226 | 183.22 | 1.5 | 1-HR | House 29 | RP_H29 | |
| 647678 | 4075969 | 0.13812 | 159.5 | 1.5 | 1-HR | House 3 | RP_H3 | |
| 645876 | 4077487 | 0.05888 | 127.13 | 1.5 | 1-HR | House 30 | RP_H30 | |
| 650902 | 4076062 | 0.08238 | 215.24 | 1.5 | 1-HR | House 31 | RP_H31 | |
| 651490 | 4076597 | 0.12069 | 205.5 | 1.5 | 1-HR | House 32 | RP_H32 | |
| 651565 | 4077067 | 0.07728 | 213.93 | 1.5 | 1-HR | House 33 | RP_H33 | |
| 648673 | 4075307 | 0.03576 | 225.91 | 1.5 | 1-HR | House 34 | RP_H34 | |
| 648384 | 4075469 | 0.08276 | 174.44 | 1.5 | 1-HR | House 35 | RP_H35 | |
| 646379 | 4077233 | 0.07012 | 146 | 1.5 | 1-HR | House 36 | RP_H36 | |
| 651850 | 4075865 | 0.0613 | 201.97 | 1.5 | 1-HR | House 37 | RP_H37 | |
| 652045 | 4076210 | 0.08536 | 196.88 | 1.5 | 1-HR | House 38 | RP_H38 | |
| 652256 | 4076391 | 0.06477 | 197.06 | 1.5 | 1-HR | House 39 | RP_H39 | |
| 647815 | 4075985 | 0.13479 | 162.04 | 1.5 | 1-HR | House 4 | RP_H4 | |
| 646854 | 4077373 | 0.06696 | 145.99 | 1.5 | 1-HR | House 40 | RP_H40 | |
| 647050 | 4077360 | 0.06599 | 145 | 1.5 | 1-HR | House 41 | RP_H41 | |
| 647286 | 4077474 | 0.06307 | 149.68 | 1.5 | 1-HR | House 42 | RP_H42 | |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 1-hr 2018

14:01:17

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 647359 | 4077340 | 0.06378 | 154.45 | 1.5 | 1-HR | House 43 | RP_H43 |
| 647490 | 4077329 | 0.06681 | 162.28 | 1.5 | 1-HR | House 44 | RP_H44 |
| 647522 | 4077252 | 0.07153 | 164.3 | 1.5 | 1-HR | House 45 | RP_H45 |
| 647518 | 4077139 | 0.08561 | 164.01 | 1.5 | 1-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.07495 | 151.53 | 1.5 | 1-HR | House 47 | RP_H47 |
| 646779 | 4077128 | 0.07893 | 158.51 | 1.5 | 1-HR | House 48 | RP_H48 |
| 646987 | 4077213 | 0.07731 | 146.44 | 1.5 | 1-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.13632 | 163.83 | 1.5 | 1-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.07768 | 154.85 | 1.5 | 1-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.07836 | 159 | 1.5 | 1-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.08274 | 148.99 | 1.5 | 1-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.08612 | 158.62 | 1.5 | 1-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.09503 | 158.67 | 1.5 | 1-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.09044 | 152.34 | 1.5 | 1-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.09037 | 160.22 | 1.5 | 1-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.09245 | 161.26 | 1.5 | 1-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.10937 | 156.81 | 1.5 | 1-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.12863 | 156.21 | 1.5 | 1-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.11969 | 168.26 | 1.5 | 1-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.13071 | 154.38 | 1.5 | 1-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.0986 | 162.49 | 1.5 | 1-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.13235 | 158 | 1.5 | 1-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.10647 | 159.45 | 1.5 | 1-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.13938 | 159.32 | 1.5 | 1-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.16549 | 159 | 1.5 | 1-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.05447 | 179.58 | 1.5 | 1-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.06734 | 146.77 | 1.5 | 1-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.13428 | 156.07 | 1.5 | 1-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.12877 | 159 | 1.5 | 1-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.08373 | 171.51 | 1.5 | 1-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.15753 | 159.9 | 1.5 | 1-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.0645 | 183.42 | 1.5 | 1-HR | House 8 | RP_H8 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 1-hr 2018

14:01:17

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|-------|
| 648219 | 4076109 | 0.12268 | 182.28 | 1.5 | 1-HR | House 9 | RP_H9 |

09/30/21

* AERMET (21112): Future Flare SO2 (1.5m) 1-yr 2018

14:01:17

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|--------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.00081 | 123.85 | 1.5 | ANNUAL | AQ Monitoring Station | AQ_ST_1 | |
| 643904 | 4077719 | 0.0006 | 105.68 | 1.5 | ANNUAL | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642057 | 4079416 | 0.00063 | 85.12 | 1.5 | ANNUAL | Dunne Park | CR_PK_1 | |
| 642179 | 4079950 | 0.00061 | 117.99 | 1.5 | ANNUAL | Vista Park Hill Park | CR_PK_2 | |
| 644733 | 4078753 | 0.00077 | 106.44 | 1.5 | ANNUAL | Las Brisas Park | CR_PK_3 | |
| 645609 | 4078854 | 0.00077 | 112.86 | 1.5 | ANNUAL | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238 | 4078807 | 0.00075 | 95.25 | 1.5 | ANNUAL | Veterans Memorial Park | CR_PK_5 | |
| 645311 | 4076559 | 0.00038 | 134.61 | 1.5 | ANNUAL | Park 6 | CR_PK_6 | |
| 649582 | 4073424 | 0.00046 | 159.96 | 1.5 | ANNUAL | Park 7 | CR_PK_7 | |
| 645145 | 4077181 | 0.00055 | 133 | 1.5 | ANNUAL | Cerra Vista Elem School | CR_SC_1 | |
| 642905 | 4079955 | 0.00059 | 86 | 1.5 | ANNUAL | San Andreas Continuation | CR_SC_10 | |
| 645851 | 4074015 | 0.00009 | 123 | 1.5 | ANNUAL | SouthSide School | CR_SC_11 | |
| 642106 | 4078176 | 0.00054 | 91 | 1.5 | ANNUAL | School 12 | CR_SC_12 | |
| 646059 | 4078443 | 0.00085 | 128.52 | 1.5 | ANNUAL | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.00016 | 158 | 1.5 | ANNUAL | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.00014 | 159 | 1.5 | ANNUAL | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644110 | 4078389 | 0.00076 | 98.2 | 1.5 | ANNUAL | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.00047 | 101.23 | 1.5 | ANNUAL | Hollister Montessori School | CR_SC_3 | |
| 642961 | 4078621 | 0.00067 | 92 | 1.5 | ANNUAL | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.00062 | 88 | 1.5 | ANNUAL | Marguerite Maze Middle School | CR_SC_5 | |
| 641630 | 4079153 | 0.0006 | 85 | 1.5 | ANNUAL | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.00042 | 98.22 | 1.5 | ANNUAL | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.00062 | 87 | 1.5 | ANNUAL | Gabilan Hills Elementary School | CR_SC_8 | |
| 642245 | 4078413 | 0.00059 | 90.17 | 1.5 | ANNUAL | San Benito High School | CR_SC_9 | |
| 642083 | 4079794 | 0.00062 | 87.58 | 1.5 | ANNUAL | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.0006 | 146.33 | 1.5 | ANNUAL | Workplace | CR_WP_1 | MEIW |
| 648949 | 4077938 | 0.00042 | 189.45 | 1.5 | ANNUAL | Nearest Workplace | CR_WP_2 | |
| 647744 | 4079173 | 0.00062 | 155.2 | 1.5 | ANNUAL | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.00016 | 160 | 1.5 | ANNUAL | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.00444 | 252.9 | 1.5 | ANNUAL | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.00041 | 165.9 | 1.5 | ANNUAL | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.00057 | 159.6 | 1.5 | ANNUAL | Grid Receptor 12 | G12 | |

09/30/21

* AERMET (21112): Future Flare SO2 (1.5m) 1-yr 2018

14:01:17

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|--------|------------------|-----|
| 648144 | 4078373 | 0.00083 | 146.2 | 1.5 | ANNUAL | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.00122 | 158.3 | 1.5 | ANNUAL | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.00151 | 166.6 | 1.5 | ANNUAL | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.00197 | 175.4 | 1.5 | ANNUAL | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.00161 | 177.1 | 1.5 | ANNUAL | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.00053 | 178 | 1.5 | ANNUAL | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.00026 | 173 | 1.5 | ANNUAL | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.00081 | 145.4 | 1.5 | ANNUAL | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.00019 | 168.8 | 1.5 | ANNUAL | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.00027 | 173.5 | 1.5 | ANNUAL | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.00034 | 166.2 | 1.5 | ANNUAL | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.00048 | 145.4 | 1.5 | ANNUAL | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.00086 | 173.9 | 1.5 | ANNUAL | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.0016 | 179.6 | 1.5 | ANNUAL | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.00239 | 191 | 1.5 | ANNUAL | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.00357 | 209.2 | 1.5 | ANNUAL | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.00107 | 233.7 | 1.5 | ANNUAL | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.00033 | 199.9 | 1.5 | ANNUAL | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.00104 | 144.4 | 1.5 | ANNUAL | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.00024 | 195.5 | 1.5 | ANNUAL | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.00021 | 190.4 | 1.5 | ANNUAL | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.00023 | 165.4 | 1.5 | ANNUAL | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.00027 | 159.6 | 1.5 | ANNUAL | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.0004 | 183.5 | 1.5 | ANNUAL | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.00082 | 224 | 1.5 | ANNUAL | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.00105 | 205 | 1.5 | ANNUAL | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.00049 | 208.8 | 1.5 | ANNUAL | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.00116 | 134.6 | 1.5 | ANNUAL | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00028 | 185.6 | 1.5 | ANNUAL | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00019 | 187.4 | 1.5 | ANNUAL | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.0002 | 160.9 | 1.5 | ANNUAL | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.00025 | 200.5 | 1.5 | ANNUAL | Grid Receptor 43 | G43 |

* AERMET (21112): Future Flare SO2 (1.5m) 1-yr 2018

14:01:17

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | | | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|---------|-------|-------|--------|------------------|-----|
| 649344 | 4077973 | 0.00037 | 229 | 1.5 | ANNUAL | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.00208 | 253.3 | 1.5 | ANNUAL | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.00744 | 220.2 | 1.5 | ANNUAL | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.00154 | 227.2 | 1.5 | ANNUAL | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.00138 | 163.8 | 1.5 | ANNUAL | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.00071 | 205.5 | 1.5 | ANNUAL | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.00019 | 176.1 | 1.5 | ANNUAL | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00022 | 195 | 1.5 | ANNUAL | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00025 | 196.1 | 1.5 | ANNUAL | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.0003 | 215.3 | 1.5 | ANNUAL | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.0004 | 221.6 | 1.5 | ANNUAL | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.01317 | 211.7 | 1.5 | ANNUAL | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.01047 | 237.7 | 1.5 | ANNUAL | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.00154 | 158.4 | 1.5 | ANNUAL | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.00211 | 204.2 | 1.5 | ANNUAL | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.00018 | 173 | 1.5 | ANNUAL | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.0002 | 171 | 1.5 | ANNUAL | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00024 | 204.6 | 1.5 | ANNUAL | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.0003 | 216.5 | 1.5 | ANNUAL | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.00177 | 257.7 | 1.5 | ANNUAL | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.00597 | 231.4 | 1.5 | ANNUAL | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.01083 | 249.4 | 1.5 | ANNUAL | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.00104 | 164.7 | 1.5 | ANNUAL | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.00464 | 216.4 | 1.5 | ANNUAL | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00018 | 177 | 1.5 | ANNUAL | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00021 | 180.9 | 1.5 | ANNUAL | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00025 | 196.6 | 1.5 | ANNUAL | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.00054 | 236.9 | 1.5 | ANNUAL | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.00256 | 261.3 | 1.5 | ANNUAL | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.0084 | 260.9 | 1.5 | ANNUAL | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.00382 | 226.7 | 1.5 | ANNUAL | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.00047 | 164 | 1.5 | ANNUAL | Grid Receptor 8 | G8 |

* AERMET (21112): Future Flare SO2 (1.5m) 1-yr 2018

14:01:17

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------------|-----|
| 650544 | 4075573 | 0.00973 | 268.2 | 1.5 | ANNUAL | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.0002 | 181.3 | 1.5 | ANNUAL | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00023 | 178.4 | 1.5 | ANNUAL | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00033 | 214.8 | 1.5 | ANNUAL | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.00129 | 249.9 | 1.5 | ANNUAL | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.00235 | 276.5 | 1.5 | ANNUAL | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.00122 | 225.6 | 1.5 | ANNUAL | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.00234 | 219.8 | 1.5 | ANNUAL | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.00261 | 209.2 | 1.5 | ANNUAL | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.00253 | 216.6 | 1.5 | ANNUAL | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.00025 | 160.7 | 1.5 | ANNUAL | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.00421 | 243.2 | 1.5 | ANNUAL | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00022 | 191 | 1.5 | ANNUAL | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00027 | 181 | 1.5 | ANNUAL | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.00042 | 214.3 | 1.5 | ANNUAL | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.00113 | 248.4 | 1.5 | ANNUAL | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.0007 | 213.2 | 1.5 | ANNUAL | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.00127 | 213.6 | 1.5 | ANNUAL | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.0019 | 203.5 | 1.5 | ANNUAL | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.00205 | 205.6 | 1.5 | ANNUAL | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.00204 | 205.8 | 1.5 | ANNUAL | Grid Receptor 99 | G99 |
| 648584 | 4077523 | 0.00168 | 183.61 | 1.5 | ANNUAL | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 0.00199 | 254.01 | 1.5 | ANNUAL | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.00062 | 235.3 | 1.5 | ANNUAL | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.00042 | 221.29 | 1.5 | ANNUAL | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00041 | 222.37 | 1.5 | ANNUAL | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.00055 | 233.6 | 1.5 | ANNUAL | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.00126 | 249.54 | 1.5 | ANNUAL | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 0.00187 | 258.89 | 1.5 | ANNUAL | Boundary Perimeter 16 | P16 |
| 650184 | 4077548 | 0.0021 | 259.56 | 1.5 | ANNUAL | Boundary Perimeter 17 | P17 |
| 650284 | 4077550 | 0.00208 | 256.77 | 1.5 | ANNUAL | Boundary Perimeter 18 | P18 |
| 650384 | 4077552 | 0.00108 | 242.37 | 1.5 | ANNUAL | Boundary Perimeter 19 | P19 |

09/30/21

* AERMET (21112): Future Flare SO2 (1.5m) 1-yr 2018

14:01:17

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------------|-----|
| 648684 | 4077525 | 0.0016 | 197.16 | 1.5 | ANNUAL | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.00112 | 242.23 | 1.5 | ANNUAL | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.00246 | 259.71 | 1.5 | ANNUAL | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.00222 | 257.58 | 1.5 | ANNUAL | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.00265 | 267.9 | 1.5 | ANNUAL | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.00261 | 275.91 | 1.5 | ANNUAL | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.00291 | 265.73 | 1.5 | ANNUAL | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.00208 | 251.08 | 1.5 | ANNUAL | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.00239 | 252.83 | 1.5 | ANNUAL | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.0023 | 246.1 | 1.5 | ANNUAL | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.00256 | 241.37 | 1.5 | ANNUAL | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.00142 | 209.74 | 1.5 | ANNUAL | Boundary Perimeter 3 | Р3 |
| 650791 | 4076854 | 0.00366 | 246.79 | 1.5 | ANNUAL | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.00274 | 228.75 | 1.5 | ANNUAL | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.00274 | 217.76 | 1.5 | ANNUAL | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.00299 | 221.2 | 1.5 | ANNUAL | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.00322 | 220.83 | 1.5 | ANNUAL | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.00349 | 223.42 | 1.5 | ANNUAL | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.00372 | 222.46 | 1.5 | ANNUAL | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.00407 | 223.19 | 1.5 | ANNUAL | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.00452 | 222.1 | 1.5 | ANNUAL | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.0051 | 217.03 | 1.5 | ANNUAL | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.00105 | 214.25 | 1.5 | ANNUAL | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.0061 | 214.82 | 1.5 | ANNUAL | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.00761 | 214.91 | 1.5 | ANNUAL | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.0092 | 214.09 | 1.5 | ANNUAL | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.01154 | 211.53 | 1.5 | ANNUAL | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.01664 | 210.17 | 1.5 | ANNUAL | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.02511 | 208.52 | 1.5 | ANNUAL | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.03187 | 207.5 | 1.5 | ANNUAL | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.02177 | 205.17 | 1.5 | ANNUAL | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.00232 | 202.16 | 1.5 | ANNUAL | Boundary Perimeter 48 | P48 |

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* AERMET (21112): Future Flare SO2 (1.5m) 1-yr 2018

14:01:17

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------------|--------|
| 649226 | 4076535 | 0.00111 | 196.38 | 1.5 | ANNUAL | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.00078 | 221.41 | 1.5 | ANNUAL | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.00537 | 195.87 | 1.5 | ANNUAL | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.007 | 196.32 | 1.5 | ANNUAL | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.00618 | 192.42 | 1.5 | ANNUAL | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.00537 | 192.46 | 1.5 | ANNUAL | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.00442 | 191.63 | 1.5 | ANNUAL | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.00367 | 186.32 | 1.5 | ANNUAL | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.0032 | 179.81 | 1.5 | ANNUAL | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.00287 | 176.23 | 1.5 | ANNUAL | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.00265 | 175.02 | 1.5 | ANNUAL | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.00259 | 180.62 | 1.5 | ANNUAL | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.00059 | 216.54 | 1.5 | ANNUAL | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.00257 | 183.47 | 1.5 | ANNUAL | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.00245 | 202.88 | 1.5 | ANNUAL | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.00176 | 178.21 | 1.5 | ANNUAL | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.00196 | 176.25 | 1.5 | ANNUAL | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.00201 | 176 | 1.5 | ANNUAL | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.00195 | 175.24 | 1.5 | ANNUAL | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.00186 | 175.13 | 1.5 | ANNUAL | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.0006 | 230.71 | 1.5 | ANNUAL | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.00157 | 248.08 | 1.5 | ANNUAL | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.00274 | 258.43 | 1.5 | ANNUAL | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.00094 | 127.38 | 1.5 | ANNUAL | New Development | RP_G1 |
| 645930 | 4078083 | 0.00092 | 127.58 | 1.5 | ANNUAL | New Development | RP_G10 |
| 646030 | 4078083 | 0.00093 | 130.56 | 1.5 | ANNUAL | New Development | RP_G11 |
| 646130 | 4078083 | 0.00094 | 134.35 | 1.5 | ANNUAL | New Development | RP_G12 |
| 646230 | 4078083 | 0.00094 | 139.22 | 1.5 | ANNUAL | New Development | RP_G13 |
| 646330 | 4078083 | 0.00095 | 144.65 | 1.5 | ANNUAL | New Development | RP_G14 |
| 646430 | 4078083 | 0.00096 | 142.28 | 1.5 | ANNUAL | New Development | RP_G15 |
| 646530 | 4078083 | 0.00097 | 146.76 | 1.5 | ANNUAL | New Development | RP_G16 |
| 646630 | 4078083 | 0.00098 | 150.64 | 1.5 | ANNUAL | New Development | RP_G17 |

09/30/21

* AERMET (21112): Future Flare SO2 (1.5m) 1-yr 2018

14:01:17

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------|--------|
| 646730 | 4078083 | 0.001 | 155.4 | 1.5 | ANNUAL | New Development | RP G18 |
| 645930 | 4078183 | 0.0009 | 127.22 | 1.5 | ANNUAL | New Development | RP_G19 |
| 646030 | 4077983 | 0.00095 | 131.21 | 1.5 | ANNUAL | New Development | RP_G2 |
| 646030 | 4078183 | 0.00091 | 130.56 | 1.5 | ANNUAL | New Development | RP_G20 |
| 646130 | 4078183 | 0.00091 | 133.89 | 1.5 | ANNUAL | New Development | RP_G21 |
| 646230 | 4078183 | 0.00092 | 140.45 | 1.5 | ANNUAL | New Development | RP_G22 |
| 646330 | 4078183 | 0.00093 | 146.94 | 1.5 | ANNUAL | New Development | RP_G23 |
| 646430 | 4078183 | 0.00093 | 140.23 | 1.5 | ANNUAL | New Development | RP_G24 |
| 646530 | 4078183 | 0.00095 | 147.25 | 1.5 | ANNUAL | New Development | RP_G25 |
| 646630 | 4078183 | 0.00096 | 151.56 | 1.5 | ANNUAL | New Development | RP_G26 |
| 646730 | 4078183 | 0.00098 | 157.78 | 1.5 | ANNUAL | New Development | RP_G27 |
| 645930 | 4078283 | 0.00088 | 126.06 | 1.5 | ANNUAL | New Development | RP_G28 |
| 646030 | 4078283 | 0.00088 | 129.56 | 1.5 | ANNUAL | New Development | RP_G29 |
| 646130 | 4077983 | 0.00096 | 135.89 | 1.5 | ANNUAL | New Development | RP_G3 |
| 646130 | 4078283 | 0.00089 | 132.89 | 1.5 | ANNUAL | New Development | RP_G30 |
| 646230 | 4078283 | 0.0009 | 139.24 | 1.5 | ANNUAL | New Development | RP_G31 |
| 646330 | 4078283 | 0.00091 | 142.68 | 1.5 | ANNUAL | New Development | RP_G32 |
| 646430 | 4078283 | 0.00091 | 140.02 | 1.5 | ANNUAL | New Development | RP_G33 |
| 646530 | 4078283 | 0.00093 | 147.22 | 1.5 | ANNUAL | New Development | RP_G34 |
| 646630 | 4078283 | 0.00094 | 151.56 | 1.5 | ANNUAL | New Development | RP_G35 |
| 646730 | 4078283 | 0.00096 | 156.78 | 1.5 | ANNUAL | New Development | RP_G36 |
| 646230 | 4077983 | 0.00097 | 139.18 | 1.5 | ANNUAL | New Development | RP_G4 |
| 646330 | 4077983 | 0.00097 | 140.76 | 1.5 | ANNUAL | New Development | RP_G5 |
| 646430 | 4077983 | 0.00098 | 143.89 | 1.5 | ANNUAL | New Development | RP_G6 |
| 646530 | 4077983 | 0.00099 | 145.22 | 1.5 | ANNUAL | New Development | RP_G7 |
| 646630 | 4077983 | 0.001 | 147.21 | 1.5 | ANNUAL | New Development | RP_G8 |
| 646730 | 4077983 | 0.00101 | 148.3 | 1.5 | ANNUAL | New Development | RP_G9 |
| 648659 | 4077241 | 0.00264 | 205.79 | 1.5 | ANNUAL | House 1 | RP_H1 |
| 648071 | 4076116 | 0.00032 | 169.6 | 1.5 | ANNUAL | House 10 | RP_H10 |
| 648247 | 4076278 | 0.00045 | 184.55 | 1.5 | ANNUAL | House 11 | RP_H11 |
| 648027 | 4076255 | 0.0004 | 169.38 | 1.5 | ANNUAL | House 12 | RP_H12 |
| 648066 | 4076359 | 0.0005 | 173.83 | 1.5 | ANNUAL | House 13 | RP_H13 |

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09/30/21

* AERMET (21112): Future Flare SO2 (1.5m) 1-yr 2018

14:01:17

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|--------|
| 648139 | 4076400 | 0.00057 | 178.22 | 1.5 | ANNUAL | House 14 | RP_H14 |
| 648255 | 4076411 | 0.00063 | 191.28 | 1.5 | ANNUAL | House 15 | RP_H15 |
| 647878 | 4076365 | 0.00048 | 165.39 | 1.5 | ANNUAL | House 16 | RP_H16 |
| 647520 | 4076206 | 0.00034 | 159 | 1.5 | ANNUAL | House 17 | RP_H17 |
| 647921 | 4076247 | 0.00038 | 164 | 1.5 | ANNUAL | House 18 | RP_H18 |
| 647709 | 4076352 | 0.00045 | 163.52 | 1.5 | ANNUAL | House 19 | RP_H19 |
| 648372 | 4075470 | 0.00021 | 173.69 | 1.5 | ANNUAL | House 2 | RP_H2 |
| 647704 | 4076251 | 0.00037 | 162.17 | 1.5 | ANNUAL | House 20 | RP_H20 |
| 647719 | 4076104 | 0.0003 | 159.35 | 1.5 | ANNUAL | House 21 | RP_H21 |
| 647843 | 4076125 | 0.00031 | 163 | 1.5 | ANNUAL | House 22 | RP_H22 |
| 647842 | 4076500 | 0.00063 | 167.93 | 1.5 | ANNUAL | House 23 | RP_H23 |
| 647728 | 4076644 | 0.00079 | 164.15 | 1.5 | ANNUAL | House 24 | RP_H24 |
| 647824 | 4076644 | 0.00085 | 168.29 | 1.5 | ANNUAL | House 25 | RP_H25 |
| 647530 | 4076497 | 0.00055 | 159.56 | 1.5 | ANNUAL | House 26 | RP_H26 |
| 647810 | 4076854 | 0.00127 | 162.9 | 1.5 | ANNUAL | House 27 | RP_H27 |
| 647697 | 4076989 | 0.00137 | 161.42 | 1.5 | ANNUAL | House 28 | RP_H28 |
| 648226 | 4076182 | 0.00037 | 183.22 | 1.5 | ANNUAL | House 29 | RP_H29 |
| 647678 | 4075969 | 0.00025 | 159.5 | 1.5 | ANNUAL | House 3 | RP_H3 |
| 645876 | 4077487 | 0.00084 | 127.13 | 1.5 | ANNUAL | House 30 | RP_H30 |
| 650902 | 4076062 | 0.00257 | 215.24 | 1.5 | ANNUAL | House 31 | RP_H31 |
| 651490 | 4076597 | 0.00189 | 205.5 | 1.5 | ANNUAL | House 32 | RP_H32 |
| 651565 | 4077067 | 0.00149 | 213.93 | 1.5 | ANNUAL | House 33 | RP_H33 |
| 648673 | 4075307 | 0.00024 | 225.91 | 1.5 | ANNUAL | House 34 | RP_H34 |
| 648384 | 4075469 | 0.00021 | 174.44 | 1.5 | ANNUAL | House 35 | RP_H35 |
| 646379 | 4077233 | 0.00084 | 146 | 1.5 | ANNUAL | House 36 | RP_H36 |
| 651850 | 4075865 | 0.00169 | 201.97 | 1.5 | ANNUAL | House 37 | RP_H37 |
| 652045 | 4076210 | 0.00154 | 196.88 | 1.5 | ANNUAL | House 38 | RP_H38 |
| 652256 | 4076391 | 0.00143 | 197.06 | 1.5 | ANNUAL | House 39 | RP_H39 |
| 647815 | 4075985 | 0.00026 | 162.04 | 1.5 | ANNUAL | House 4 | RP_H4 |
| 646854 | 4077373 | 0.00108 | 145.99 | 1.5 | ANNUAL | House 40 | RP_H40 |
| 647050 | 4077360 | 0.00115 | 145 | 1.5 | ANNUAL | House 41 | RP_H41 |
| 647286 | 4077474 | 0.00125 | 149.68 | 1.5 | ANNUAL | House 42 | RP_H42 |

09/30/21

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14:01:17

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|--------|
| 647359 | 4077340 | 0.0013 | 154.45 | 1.5 | ANNUAL | House 43 | RP_H43 |
| 647490 | 4077329 | 0.00138 | 162.28 | 1.5 | ANNUAL | House 44 | RP_H44 |
| 647522 | 4077252 | 0.0014 | 164.3 | 1.5 | ANNUAL | House 45 | RP_H45 |
| 647518 | 4077139 | 0.00135 | 164.01 | 1.5 | ANNUAL | House 46 | RP_H46 |
| 646819 | 4077258 | 0.00102 | 151.53 | 1.5 | ANNUAL | House 47 | RP_H47 |
| 646779 | 4077128 | 0.00091 | 158.51 | 1.5 | ANNUAL | House 48 | RP_H48 |
| 646987 | 4077213 | 0.00106 | 146.44 | 1.5 | ANNUAL | House 49 | RP_H49 |
| 647898 | 4076033 | 0.00027 | 163.83 | 1.5 | ANNUAL | House 5 | RP_H5 |
| 647242 | 4077227 | 0.00121 | 154.85 | 1.5 | ANNUAL | House 50 | RP_H50 |
| 646773 | 4077063 | 0.00085 | 159 | 1.5 | ANNUAL | House 51 | RP_H51 |
| 647104 | 4077118 | 0.00105 | 148.99 | 1.5 | ANNUAL | House 52 | RP_H52 |
| 647292 | 4077123 | 0.00117 | 158.62 | 1.5 | ANNUAL | House 53 | RP_H53 |
| 646765 | 4076978 | 0.00077 | 158.67 | 1.5 | ANNUAL | House 54 | RP_H54 |
| 646996 | 4076984 | 0.00086 | 152.34 | 1.5 | ANNUAL | House 55 | RP_H55 |
| 647317 | 4077031 | 0.0011 | 160.22 | 1.5 | ANNUAL | House 56 | RP_H56 |
| 647398 | 4077013 | 0.00114 | 161.26 | 1.5 | ANNUAL | House 57 | RP_H57 |
| 646979 | 4076904 | 0.00078 | 156.81 | 1.5 | ANNUAL | House 58 | RP_H58 |
| 647015 | 4076807 | 0.0007 | 156.21 | 1.5 | ANNUAL | House 59 | RP_H59 |
| 648045 | 4076018 | 0.00027 | 168.26 | 1.5 | ANNUAL | House 6 | RP_H6 |
| 647164 | 4076802 | 0.00074 | 154.38 | 1.5 | ANNUAL | House 60 | RP_H60 |
| 647311 | 4076940 | 0.00099 | 162.49 | 1.5 | ANNUAL | House 61 | RP_H61 |
| 647298 | 4076805 | 0.0008 | 158 | 1.5 | ANNUAL | House 62 | RP_H62 |
| 647447 | 4076900 | 0.00102 | 159.45 | 1.5 | ANNUAL | House 63 | RP_H63 |
| 647464 | 4076781 | 0.00086 | 159.32 | 1.5 | ANNUAL | House 64 | RP_H64 |
| 647512 | 4076536 | 0.00059 | 159 | 1.5 | ANNUAL | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00024 | 179.58 | 1.5 | ANNUAL | House 66 | RP_H66 |
| 647131 | 4077336 | 0.00118 | 146.77 | 1.5 | ANNUAL | House 67 | RP_H67 |
| 646798 | 4076740 | 0.0006 | 156.07 | 1.5 | ANNUAL | House 68 | RP_H68 |
| 646900 | 4076802 | 0.00066 | 159 | 1.5 | ANNUAL | House 69 | RP_H69 |
| 648126 | 4075955 | 0.00025 | 171.51 | 1.5 | ANNUAL | House 7 | RP_H7 |
| 647317 | 4076662 | 0.00066 | 159.9 | 1.5 | ANNUAL | House 70 | RP_H70 |
| 648249 | 4075970 | 0.00027 | 183.42 | 1.5 | ANNUAL | House 8 | RP_H8 |

09/30/21

* AERMET (21112): Future Flare SO2 (1.5m) 1-yr 2018

14:01:17

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|-------|
| 648219 | 4076109 | 0.00033 | 182.28 | 1.5 | ANNUAL | House 9 | RP_H9 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2018

14:01:17

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.02984 | 123.85 | 1.5 | 3-HR | AQ Monitoring Station | AQ_ST_1 | |
| 643904 | 4077719 | 0.02099 | 105.68 | 1.5 | 3-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 |] |
| 642057 | 4079416 | 0.02174 | 85.12 | 1.5 | 3-HR | Dunne Park | CR_PK_1 | |
| 642179 | 4079950 | 0.02117 | 117.99 | 1.5 | 3-HR | Vista Park Hill Park | CR_PK_2 |] |
| 644733 | 4078753 | 0.02077 | 106.44 | 1.5 | 3-HR | Las Brisas Park | CR_PK_3 | |
| 645609 | 4078854 | 0.0268 | 112.86 | 1.5 | 3-HR | Frank Klauer Memorial Park | CR_PK_4 |] |
| 644238 | 4078807 | 0.02306 | 95.25 | 1.5 | 3-HR | Veterans Memorial Park | CR_PK_5 | |
| 645311 | 4076559 | 0.03427 | 134.61 | 1.5 | 3-HR | Park 6 | CR_PK_6 |] |
| 649582 | 4073424 | 0.03003 | 159.96 | 1.5 | 3-HR | Park 7 | CR_PK_7 | |
| 645145 | 4077181 | 0.02466 | 133 | 1.5 | 3-HR | Cerra Vista Elem School | CR_SC_1 |] |
| 642905 | 4079955 | 0.018 | 86 | 1.5 | 3-HR | San Andreas Continuation | CR_SC_10 | |
| 645851 | 4074015 | 0.01453 | 123 | 1.5 | 3-HR | SouthSide School | CR_SC_11 | |
| 642106 | 4078176 | 0.02078 | 91 | 1.5 | 3-HR | School 12 | CR_SC_12 | |
| 646059 | 4078443 | 0.03029 | 128.52 | 1.5 | 3-HR | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.0294 | 158 | 1.5 | 3-HR | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.01625 | 159 | 1.5 | 3-HR | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644110 | 4078389 | 0.02246 | 98.2 | 1.5 | 3-HR | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.01876 | 101.23 | 1.5 | 3-HR | Hollister Montessori School | CR_SC_3 | |
| 642961 | 4078621 | 0.02523 | 92 | 1.5 | 3-HR | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.02099 | 88 | 1.5 | 3-HR | Marguerite Maze Middle School | CR_SC_5 | |
| 641630 | 4079153 | 0.02385 | 85 | 1.5 | 3-HR | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.01943 | 98.22 | 1.5 | 3-HR | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.01802 | 87 | 1.5 | 3-HR | Gabilan Hills Elementary School | CR_SC_8 | |
| 642245 | 4078413 | 0.02109 | 90.17 | 1.5 | 3-HR | San Benito High School | CR_SC_9 | |
| 642083 | 4079794 | 0.02242 | 87.58 | 1.5 | 3-HR | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.03756 | 146.33 | 1.5 | 3-HR | Workplace | | MEIW |
| 648949 | 4077938 | 0.03453 | 189.45 | 1.5 | 3-HR | Nearest Workplace | CR_WP_2 | |
| 647744 | 4079173 | 0.03939 | 155.2 | 1.5 | 3-HR | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.01361 | 160 | 1.5 | 3-HR | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.1298 | 252.9 | 1.5 | 3-HR | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.02521 | 165.9 | 1.5 | 3-HR | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.03722 | 159.6 | 1.5 | 3-HR | Grid Receptor 12 | G12 | |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2018

14:01:17

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 648144 | 4078373 | 0.04232 | 146.2 | 1.5 | 3-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.05171 | 158.3 | 1.5 | 3-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.06538 | 166.6 | 1.5 | 3-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.09618 | 175.4 | 1.5 | 3-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.09158 | 177.1 | 1.5 | 3-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.06368 | 178 | 1.5 | 3-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.02903 | 173 | 1.5 | 3-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.03492 | 145.4 | 1.5 | 3-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.03514 | 168.8 | 1.5 | 3-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.02479 | 173.5 | 1.5 | 3-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.02873 | 166.2 | 1.5 | 3-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.03469 | 145.4 | 1.5 | 3-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.05316 | 173.9 | 1.5 | 3-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.07914 | 179.6 | 1.5 | 3-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.10906 | 191 | 1.5 | 3-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.18128 | 209.2 | 1.5 | 3-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.07072 | 233.7 | 1.5 | 3-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.02727 | 199.9 | 1.5 | 3-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.04472 | 144.4 | 1.5 | 3-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.02989 | 195.5 | 1.5 | 3-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.03654 | 190.4 | 1.5 | 3-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.03614 | 165.4 | 1.5 | 3-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.03577 | 159.6 | 1.5 | 3-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.03413 | 183.5 | 1.5 | 3-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.05558 | 224 | 1.5 | 3-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.0666 | 205 | 1.5 | 3-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.03816 | 208.8 | 1.5 | 3-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.04906 | 134.6 | 1.5 | 3-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.01801 | 185.6 | 1.5 | 3-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.01688 | 187.4 | 1.5 | 3-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.01696 | 160.9 | 1.5 | 3-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.02023 | 200.5 | 1.5 | 3-HR | Grid Receptor 43 | G43 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2018

14:01:17

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 649344 | 4077973 | 0.02225 | 229 | 1.5 | 3-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.17857 | 253.3 | 1.5 | 3-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.35785 | 220.2 | 1.5 | 3-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.08713 | 227.2 | 1.5 | 3-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.05924 | 163.8 | 1.5 | 3-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.05427 | 205.5 | 1.5 | 3-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.01977 | 176.1 | 1.5 | 3-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.02783 | 195 | 1.5 | 3-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.03382 | 196.1 | 1.5 | 3-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.03491 | 215.3 | 1.5 | 3-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.02601 | 221.6 | 1.5 | 3-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.17534 | 211.7 | 1.5 | 3-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.13864 | 237.7 | 1.5 | 3-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.05966 | 158.4 | 1.5 | 3-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.07516 | 204.2 | 1.5 | 3-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.03255 | 173 | 1.5 | 3-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.02814 | 171 | 1.5 | 3-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.02049 | 204.6 | 1.5 | 3-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.03727 | 216.5 | 1.5 | 3-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.16913 | 257.7 | 1.5 | 3-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.08911 | 231.4 | 1.5 | 3-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.21297 | 249.4 | 1.5 | 3-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.05772 | 164.7 | 1.5 | 3-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.0851 | 216.4 | 1.5 | 3-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.02077 | 177 | 1.5 | 3-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.0151 | 180.9 | 1.5 | 3-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.03875 | 196.6 | 1.5 | 3-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.05012 | 236.9 | 1.5 | 3-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.17462 | 261.3 | 1.5 | 3-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.37932 | 260.9 | 1.5 | 3-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.10331 | 226.7 | 1.5 | 3-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.06111 | 164 | 1.5 | 3-HR | Grid Receptor 8 | G8 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2018

14:01:17

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|-----|
| 650544 | 4075573 | 0.32519 | 268.2 | 1.5 | 3-HR | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.01902 | 181.3 | 1.5 | 3-HR | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.0299 | 178.4 | 1.5 | 3-HR | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.03917 | 214.8 | 1.5 | 3-HR | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.08481 | 249.9 | 1.5 | 3-HR | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.33967 | 276.5 | 1.5 | 3-HR | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.07196 | 225.6 | 1.5 | 3-HR | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.07992 | 219.8 | 1.5 | 3-HR | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.07429 | 209.2 | 1.5 | 3-HR | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.07382 | 216.6 | 1.5 | 3-HR | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.04554 | 160.7 | 1.5 | 3-HR | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.06201 | 243.2 | 1.5 | 3-HR | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.0262 | 191 | 1.5 | 3-HR | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.02705 | 181 | 1.5 | 3-HR | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.04419 | 214.3 | 1.5 | 3-HR | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.06876 | 248.4 | 1.5 | 3-HR | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.0498 | 213.2 | 1.5 | 3-HR | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.05989 | 213.6 | 1.5 | 3-HR | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.0657 | 203.5 | 1.5 | 3-HR | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.06363 | 205.6 | 1.5 | 3-HR | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.05622 | 205.8 | 1.5 | 3-HR | Grid Receptor 99 | G99 |
| 648584 | 4077523 | 0.08591 | 183.61 | 1.5 | 3-HR | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 0.16827 | 254.01 | 1.5 | 3-HR | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.02935 | 235.3 | 1.5 | 3-HR | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.03062 | 221.29 | 1.5 | 3-HR | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.02222 | 222.37 | 1.5 | 3-HR | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.04695 | 233.6 | 1.5 | 3-HR | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.10475 | 249.54 | 1.5 | 3-HR | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 0.18238 | 258.89 | 1.5 | 3-HR | Boundary Perimeter 16 | P16 |
| 650184 | 4077548 | 0.19215 | 259.56 | 1.5 | 3-HR | Boundary Perimeter 17 | P17 |
| 650284 | 4077550 | 0.1553 | 256.77 | 1.5 | 3-HR | Boundary Perimeter 18 | P18 |
| 650384 | 4077552 | 0.06545 | 242.37 | 1.5 | 3-HR | Boundary Perimeter 19 | P19 |

09/30/21

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14:01:17

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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|-----|
| 648684 | 4077525 | 0.0986 | 197.16 | 1.5 | 3-HR | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.06229 | 242.23 | 1.5 | 3-HR | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.177 | 259.71 | 1.5 | 3-HR | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.16304 | 257.58 | 1.5 | 3-HR | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.28704 | 267.9 | 1.5 | 3-HR | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.29926 | 275.91 | 1.5 | 3-HR | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.19566 | 265.73 | 1.5 | 3-HR | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.0877 | 251.08 | 1.5 | 3-HR | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.10612 | 252.83 | 1.5 | 3-HR | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.07934 | 246.1 | 1.5 | 3-HR | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.08032 | 241.37 | 1.5 | 3-HR | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.11665 | 209.74 | 1.5 | 3-HR | Boundary Perimeter 3 | P3 |
| 650791 | 4076854 | 0.12003 | 246.79 | 1.5 | 3-HR | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.08643 | 228.75 | 1.5 | 3-HR | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.09193 | 217.76 | 1.5 | 3-HR | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.09248 | 221.2 | 1.5 | 3-HR | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.09785 | 220.83 | 1.5 | 3-HR | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.10543 | 223.42 | 1.5 | 3-HR | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.10748 | 222.46 | 1.5 | 3-HR | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.10826 | 223.19 | 1.5 | 3-HR | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.11397 | 222.1 | 1.5 | 3-HR | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.13029 | 217.03 | 1.5 | 3-HR | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.09874 | 214.25 | 1.5 | 3-HR | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.14382 | 214.82 | 1.5 | 3-HR | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.127 | 214.91 | 1.5 | 3-HR | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.14099 | 214.09 | 1.5 | 3-HR | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.17288 | 211.53 | 1.5 | 3-HR | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.19678 | 210.17 | 1.5 | 3-HR | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.2442 | 208.52 | 1.5 | 3-HR | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.31912 | 207.5 | 1.5 | 3-HR | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.32034 | 205.17 | 1.5 | 3-HR | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.09081 | 202.16 | 1.5 | 3-HR | Boundary Perimeter 48 | P48 |

09/30/21

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14:01:17

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- * FOR A TOTAL OF 289 RECEPTORS.
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|-----------------------|--------|----|
| 649226 | 4076535 | 0.06846 | 196.38 | 1.5 | 3-HR | Boundary Perimeter 49 | P49 | |
| 648984 | 4077530 | 0.05365 | 221.41 | 1.5 | 3-HR | Boundary Perimeter 5 | P5 | |
| 649156 | 4076605 | 0.18828 | 195.87 | 1.5 | 3-HR | Boundary Perimeter 50 | P50 | |
| 649068 | 4076653 | 0.31066 | 196.32 | 1.5 | 3-HR | Boundary Perimeter 51 | P51 | |
| 648987 | 4076711 | 0.24634 | 192.42 | 1.5 | 3-HR | Boundary Perimeter 52 | P52 | |
| 648937 | 4076759 | 0.24023 | 192.46 | 1.5 | 3-HR | Boundary Perimeter 53 | P53 | |
| 648869 | 4076833 | 0.21477 | 191.63 | 1.5 | 3-HR | Boundary Perimeter 54 | P54 | |
| 648797 | 4076902 | 0.17973 | 186.32 | 1.5 | 3-HR | Boundary Perimeter 55 | P55 | |
| 648711 | 4076952 | 0.16748 | 179.81 | 1.5 | 3-HR | Boundary Perimeter 56 | P56 | |
| 648621 | 4076996 | 0.15443 | 176.23 | 1.5 | 3-HR | Boundary Perimeter 57 | P57 | |
| 648607 | 4077051 | 0.13223 | 175.02 | 1.5 | 3-HR | Boundary Perimeter 58 | P58 | |
| 648680 | 4077119 | 0.10728 | 180.62 | 1.5 | 3-HR | Boundary Perimeter 59 | P59 | |
| 649084 | 4077532 | 0.04001 | 216.54 | 1.5 | 3-HR | Boundary Perimeter 6 | P6 | |
| 648759 | 4077180 | 0.10201 | 183.47 | 1.5 | 3-HR | Boundary Perimeter 60 | P60 | |
| 648791 | 4077262 | 0.14607 | 202.88 | 1.5 | 3-HR | Boundary Perimeter 61 | P61 | |
| 648788 | 4077362 | 0.10644 | 178.21 | 1.5 | 3-HR | Boundary Perimeter 62 | P62 | |
| 648691 | 4077361 | 0.10099 | 176.25 | 1.5 | 3-HR | Boundary Perimeter 63 | P63 | |
| 648591 | 4077357 | 0.09404 | 176 | 1.5 | 3-HR | Boundary Perimeter 64 | P64 | |
| 648526 | 4077371 | 0.09219 | 175.24 | 1.5 | 3-HR | Boundary Perimeter 65 | P65 | |
| 648587 | 4077430 | 0.08123 | 175.13 | 1.5 | 3-HR | Boundary Perimeter 66 | P66 | |
| 649184 | 4077534 | 0.03453 | 230.71 | 1.5 | 3-HR | Boundary Perimeter 7 | P7 | |
| 649284 | 4077535 | 0.11028 | 248.08 | 1.5 | 3-HR | Boundary Perimeter 8 | P8 | |
| 649384 | 4077536 | 0.39489 | 258.43 | 1.5 | 3-HR | Boundary Perimeter 9 | P9 | PM |
| 645930 | 4077983 | 0.02467 | 127.38 | 1.5 | 3-HR | New Development | RP_G1 | |
| 645930 | 4078083 | 0.0274 | 127.58 | 1.5 | 3-HR | New Development | RP_G10 | |
| 646030 | 4078083 | 0.02949 | 130.56 | 1.5 | 3-HR | New Development | RP_G11 | |
| 646130 | 4078083 | 0.03131 | 134.35 | 1.5 | 3-HR | New Development | RP_G12 | |
| 646230 | 4078083 | 0.03271 | 139.22 | 1.5 | 3-HR | New Development | RP_G13 | |
| 646330 | 4078083 | 0.03356 | 144.65 | 1.5 | 3-HR | New Development | RP_G14 | |
| 646430 | 4078083 | 0.03355 | 142.28 | 1.5 | 3-HR | New Development | RP_G15 | |
| 646530 | 4078083 | 0.03399 | 146.76 | 1.5 | 3-HR | New Development | RP_G16 | |
| 646630 | 4078083 | 0.03578 | 150.64 | 1.5 | 3-HR | New Development | RP_G17 | |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2018

14:01:17

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------|--------|
| 646730 | 4078083 | 0.03695 | 155.4 | 1.5 | 3-HR | New Development | RP G18 |
| 645930 | 4078183 | 0.02925 | 127.22 | 1.5 | 3-HR | New Development | RP_G19 |
| 646030 | 4077983 | 0.02657 | 131.21 | 1.5 | 3-HR | New Development | RP_G2 |
| 646030 | 4078183 | 0.0305 | 130.56 | 1.5 | 3-HR | New Development | RP_G20 |
| 646130 | 4078183 | 0.03127 | 133.89 | 1.5 | 3-HR | New Development | RP_G21 |
| 646230 | 4078183 | 0.03147 | 140.45 | 1.5 | 3-HR | New Development | RP_G22 |
| 646330 | 4078183 | 0.03232 | 146.94 | 1.5 | 3-HR | New Development | RP_G23 |
| 646430 | 4078183 | 0.03353 | 140.23 | 1.5 | 3-HR | New Development | RP_G24 |
| 646530 | 4078183 | 0.03486 | 147.25 | 1.5 | 3-HR | New Development | RP_G25 |
| 646630 | 4078183 | 0.0362 | 151.56 | 1.5 | 3-HR | New Development | RP_G26 |
| 646730 | 4078183 | 0.03796 | 157.78 | 1.5 | 3-HR | New Development | RP_G27 |
| 645930 | 4078283 | 0.02924 | 126.06 | 1.5 | 3-HR | New Development | RP_G28 |
| 646030 | 4078283 | 0.02947 | 129.56 | 1.5 | 3-HR | New Development | RP_G29 |
| 646130 | 4077983 | 0.02914 | 135.89 | 1.5 | 3-HR | New Development | RP_G3 |
| 646130 | 4078283 | 0.03056 | 132.89 | 1.5 | 3-HR | New Development | RP_G30 |
| 646230 | 4078283 | 0.03145 | 139.24 | 1.5 | 3-HR | New Development | RP_G31 |
| 646330 | 4078283 | 0.03285 | 142.68 | 1.5 | 3-HR | New Development | RP_G32 |
| 646430 | 4078283 | 0.03353 | 140.02 | 1.5 | 3-HR | New Development | RP_G33 |
| 646530 | 4078283 | 0.03551 | 147.22 | 1.5 | 3-HR | New Development | RP_G34 |
| 646630 | 4078283 | 0.03645 | 151.56 | 1.5 | 3-HR | New Development | RP_G35 |
| 646730 | 4078283 | 0.03614 | 156.78 | 1.5 | 3-HR | New Development | RP_G36 |
| 646230 | 4077983 | 0.03154 | 139.18 | 1.5 | 3-HR | New Development | RP_G4 |
| 646330 | 4077983 | 0.03359 | 140.76 | 1.5 | 3-HR | New Development | RP_G5 |
| 646430 | 4077983 | 0.03514 | 143.89 | 1.5 | 3-HR | New Development | RP_G6 |
| 646530 | 4077983 | 0.03594 | 145.22 | 1.5 | 3-HR | New Development | RP_G7 |
| 646630 | 4077983 | 0.03584 | 147.21 | 1.5 | 3-HR | New Development | RP_G8 |
| 646730 | 4077983 | 0.03599 | 148.3 | 1.5 | 3-HR | New Development | RP_G9 |
| 648659 | 4077241 | 0.1267 | 205.79 | 1.5 | 3-HR | House 1 | RP_H1 |
| 648071 | 4076116 | 0.04496 | 169.6 | 1.5 | 3-HR | House 10 | RP_H10 |
| 648247 | 4076278 | 0.04085 | 184.55 | 1.5 | 3-HR | House 11 | RP_H11 |
| 648027 | 4076255 | 0.0406 | 169.38 | 1.5 | 3-HR | House 12 | RP_H12 |
| 648066 | 4076359 | 0.06394 | 173.83 | 1.5 | 3-HR | House 13 | RP_H13 |

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09/30/21

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- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 648139 | 4076400 | 0.06487 | 178.22 | 1.5 | 3-HR | House 14 | RP_H14 |
| 648255 | 4076411 | 0.06386 | 191.28 | 1.5 | 3-HR | House 15 | RP_H15 |
| 647878 | 4076365 | 0.06426 | 165.39 | 1.5 | 3-HR | House 16 | RP_H16 |
| 647520 | 4076206 | 0.04957 | 159 | 1.5 | 3-HR | House 17 | RP_H17 |
| 647921 | 4076247 | 0.04488 | 164 | 1.5 | 3-HR | House 18 | RP_H18 |
| 647709 | 4076352 | 0.06172 | 163.52 | 1.5 | 3-HR | House 19 | RP_H19 |
| 648372 | 4075470 | 0.02973 | 173.69 | 1.5 | 3-HR | House 2 | RP_H2 |
| 647704 | 4076251 | 0.054 | 162.17 | 1.5 | 3-HR | House 20 | RP_H20 |
| 647719 | 4076104 | 0.04327 | 159.35 | 1.5 | 3-HR | House 21 | RP_H21 |
| 647843 | 4076125 | 0.04431 | 163 | 1.5 | 3-HR | House 22 | RP_H22 |
| 647842 | 4076500 | 0.05946 | 167.93 | 1.5 | 3-HR | House 23 | RP_H23 |
| 647728 | 4076644 | 0.05874 | 164.15 | 1.5 | 3-HR | House 24 | RP_H24 |
| 647824 | 4076644 | 0.06011 | 168.29 | 1.5 | 3-HR | House 25 | RP_H25 |
| 647530 | 4076497 | 0.0553 | 159.56 | 1.5 | 3-HR | House 26 | RP_H26 |
| 647810 | 4076854 | 0.07265 | 162.9 | 1.5 | 3-HR | House 27 | RP_H27 |
| 647697 | 4076989 | 0.0573 | 161.42 | 1.5 | 3-HR | House 28 | RP_H28 |
| 648226 | 4076182 | 0.04409 | 183.22 | 1.5 | 3-HR | House 29 | RP_H29 |
| 647678 | 4075969 | 0.04604 | 159.5 | 1.5 | 3-HR | House 3 | RP_H3 |
| 645876 | 4077487 | 0.02646 | 127.13 | 1.5 | 3-HR | House 30 | RP_H30 |
| 650902 | 4076062 | 0.05992 | 215.24 | 1.5 | 3-HR | House 31 | RP_H31 |
| 651490 | 4076597 | 0.06231 | 205.5 | 1.5 | 3-HR | House 32 | RP_H32 |
| 651565 | 4077067 | 0.05479 | 213.93 | 1.5 | 3-HR | House 33 | RP_H33 |
| 648673 | 4075307 | 0.01406 | 225.91 | 1.5 | 3-HR | House 34 | RP_H34 |
| 648384 | 4075469 | 0.02876 | 174.44 | 1.5 | 3-HR | House 35 | RP_H35 |
| 646379 | 4077233 | 0.0339 | 146 | 1.5 | 3-HR | House 36 | RP_H36 |
| 651850 | 4075865 | 0.04933 | 201.97 | 1.5 | 3-HR | House 37 | RP_H37 |
| 652045 | 4076210 | 0.04533 | 196.88 | 1.5 | 3-HR | House 38 | RP_H38 |
| 652256 | 4076391 | 0.04147 | 197.06 | 1.5 | 3-HR | House 39 | RP_H39 |
| 647815 | 4075985 | 0.04493 | 162.04 | 1.5 | 3-HR | House 4 | RP_H4 |
| 646854 | 4077373 | 0.03937 | 145.99 | 1.5 | 3-HR | House 40 | RP_H40 |
| 647050 | 4077360 | 0.04284 | 145 | 1.5 | 3-HR | House 41 | RP_H41 |
| 647286 | 4077474 | 0.04773 | 149.68 | 1.5 | 3-HR | House 42 | RP_H42 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2018

14:01:17

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 647359 | 4077340 | 0.04383 | 154.45 | 1.5 | 3-HR | House 43 | RP_H43 |
| 647490 | 4077329 | 0.04889 | 162.28 | 1.5 | 3-HR | House 44 | RP_H44 |
| 647522 | 4077252 | 0.05059 | 164.3 | 1.5 | 3-HR | House 45 | RP_H45 |
| 647518 | 4077139 | 0.04844 | 164.01 | 1.5 | 3-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.03357 | 151.53 | 1.5 | 3-HR | House 47 | RP_H47 |
| 646779 | 4077128 | 0.04055 | 158.51 | 1.5 | 3-HR | House 48 | RP_H48 |
| 646987 | 4077213 | 0.03557 | 146.44 | 1.5 | 3-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.04544 | 163.83 | 1.5 | 3-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.04407 | 154.85 | 1.5 | 3-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.04058 | 159 | 1.5 | 3-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.04362 | 148.99 | 1.5 | 3-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.04249 | 158.62 | 1.5 | 3-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.03762 | 158.67 | 1.5 | 3-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.04371 | 152.34 | 1.5 | 3-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.05196 | 160.22 | 1.5 | 3-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.05428 | 161.26 | 1.5 | 3-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.04315 | 156.81 | 1.5 | 3-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.0457 | 156.21 | 1.5 | 3-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.0399 | 168.26 | 1.5 | 3-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.04804 | 154.38 | 1.5 | 3-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.05324 | 162.49 | 1.5 | 3-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.05018 | 158 | 1.5 | 3-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.0566 | 159.45 | 1.5 | 3-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.05295 | 159.32 | 1.5 | 3-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.05639 | 159 | 1.5 | 3-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.02875 | 179.58 | 1.5 | 3-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.044 | 146.77 | 1.5 | 3-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.04572 | 156.07 | 1.5 | 3-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.04392 | 159 | 1.5 | 3-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.02791 | 171.51 | 1.5 | 3-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.05366 | 159.9 | 1.5 | 3-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.0215 | 183.42 | 1.5 | 3-HR | House 8 | RP_H8 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2018

14:01:17

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|-------|
| 648219 | 4076109 | 0.0409 | 182.28 | 1.5 | 3-HR | House 9 | RP H9 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 24-hr 2018

14:01:17

- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|-------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.00877 | 123.85 | 1.5 | 24-HR | AQ Monitoring Station | AQ_ST_1 | 1 |
| 643904 | 4077719 | 0.00607 | 105.68 | 1.5 | 24-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 | 1 |
| 642057 | 4079416 | 0.0056 | 85.12 | 1.5 | 24-HR | Dunne Park | CR_PK_1 | |
| 642179 | 4079950 | 0.00508 | 117.99 | 1.5 | 24-HR | Vista Park Hill Park | CR_PK_2 | 1 |
| 644733 | 4078753 | 0.00816 | 106.44 | 1.5 | 24-HR | Las Brisas Park | CR_PK_3 | |
| 645609 | 4078854 | 0.00767 | 112.86 | 1.5 | 24-HR | Frank Klauer Memorial Park | CR_PK_4 | 1 |
| 644238 | 4078807 | 0.00779 | 95.25 | 1.5 | 24-HR | Veterans Memorial Park | CR_PK_5 | |
| 645311 | 4076559 | 0.0063 | 134.61 | 1.5 | 24-HR | Park 6 | CR_PK_6 | |
| 649582 | 4073424 | 0.00544 | 159.96 | 1.5 | 24-HR | Park 7 | CR_PK_7 | |
| 645145 | 4077181 | 0.00749 | 133 | 1.5 | 24-HR | Cerra Vista Elem School | CR_SC_1 | |
| 642905 | 4079955 | 0.0046 | 86 | 1.5 | 24-HR | San Andreas Continuation | CR_SC_10 | |
| 645851 | 4074015 | 0.00185 | 123 | 1.5 | 24-HR | SouthSide School | CR_SC_11 | |
| 642106 | 4078176 | 0.00562 | 91 | 1.5 | 24-HR | School 12 | CR_SC_12 | |
| 646059 | 4078443 | 0.01032 | 128.52 | 1.5 | 24-HR | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.00379 | 158 | 1.5 | 24-HR | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.00273 | 159 | 1.5 | 24-HR | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644110 | 4078389 | 0.0071 | 98.2 | 1.5 | 24-HR | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.00573 | 101.23 | 1.5 | 24-HR | Hollister Montessori School | CR_SC_3 | |
| 642961 | 4078621 | 0.00537 | 92 | 1.5 | 24-HR | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.00516 | 88 | 1.5 | 24-HR | Marguerite Maze Middle School | CR_SC_5 | |
| 641630 | 4079153 | 0.0049 | 85 | 1.5 | 24-HR | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.00545 | 98.22 | 1.5 | 24-HR | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.00561 | 87 | 1.5 | 24-HR | Gabilan Hills Elementary School | CR_SC_8 | |
| 642245 | 4078413 | 0.00494 | 90.17 | 1.5 | 24-HR | San Benito High School | CR_SC_9 | |
| 642083 | 4079794 | 0.00519 | 87.58 | 1.5 | 24-HR | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.01154 | 146.33 | 1.5 | 24-HR | Workplace | CR_WP_1 | MEIW |
| 648949 | 4077938 | 0.00437 | 189.45 | 1.5 | 24-HR | Nearest Workplace | CR_WP_2 | |
| 647744 | 4079173 | 0.01219 | 155.2 | 1.5 | 24-HR | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.00178 | 160 | 1.5 | 24-HR | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.03132 | 252.9 | 1.5 | 24-HR | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.00812 | 165.9 | 1.5 | 24-HR | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.01311 | 159.6 | 1.5 | 24-HR | Grid Receptor 12 | G12 | 1 |

09/30/21

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14:01:17

- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|-------|------------------|-----|
| 648144 | 4078373 | 0.01709 | 146.2 | 1.5 | 24-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.0157 | 158.3 | 1.5 | 24-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.022 | 166.6 | 1.5 | 24-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.04788 | 175.4 | 1.5 | 24-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.02755 | 177.1 | 1.5 | 24-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.02181 | 178 | 1.5 | 24-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.00403 | 173 | 1.5 | 24-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.01282 | 145.4 | 1.5 | 24-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.00448 | 168.8 | 1.5 | 24-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.00313 | 173.5 | 1.5 | 24-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.00424 | 166.2 | 1.5 | 24-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.00936 | 145.4 | 1.5 | 24-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.02149 | 173.9 | 1.5 | 24-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.02887 | 179.6 | 1.5 | 24-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.03675 | 191 | 1.5 | 24-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.07011 | 209.2 | 1.5 | 24-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.03262 | 233.7 | 1.5 | 24-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.00467 | 199.9 | 1.5 | 24-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.0129 | 144.4 | 1.5 | 24-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.00594 | 195.5 | 1.5 | 24-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.00459 | 190.4 | 1.5 | 24-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.00455 | 165.4 | 1.5 | 24-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.00451 | 159.6 | 1.5 | 24-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.00432 | 183.5 | 1.5 | 24-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.01273 | 224 | 1.5 | 24-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.01023 | 205 | 1.5 | 24-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.01031 | 208.8 | 1.5 | 24-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.01552 | 134.6 | 1.5 | 24-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00384 | 185.6 | 1.5 | 24-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.003 | 187.4 | 1.5 | 24-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.00287 | 160.9 | 1.5 | 24-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.00322 | 200.5 | 1.5 | 24-HR | Grid Receptor 43 | G43 |

09/30/21

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- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|-------|------------------|-----|
| 649344 | 4077973 | 0.00423 | 229 | 1.5 | 24-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.03988 | 253.3 | 1.5 | 24-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.08299 | 220.2 | 1.5 | 24-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.02294 | 227.2 | 1.5 | 24-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.02272 | 163.8 | 1.5 | 24-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.0137 | 205.5 | 1.5 | 24-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.00285 | 176.1 | 1.5 | 24-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00401 | 195 | 1.5 | 24-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00488 | 196.1 | 1.5 | 24-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.00507 | 215.3 | 1.5 | 24-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.0042 | 221.6 | 1.5 | 24-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.05709 | 211.7 | 1.5 | 24-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.04626 | 237.7 | 1.5 | 24-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.0251 | 158.4 | 1.5 | 24-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.02485 | 204.2 | 1.5 | 24-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.00469 | 173 | 1.5 | 24-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.00405 | 171 | 1.5 | 24-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00296 | 204.6 | 1.5 | 24-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.0082 | 216.5 | 1.5 | 24-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.02285 | 257.7 | 1.5 | 24-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.04873 | 231.4 | 1.5 | 24-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.04697 | 249.4 | 1.5 | 24-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.01917 | 164.7 | 1.5 | 24-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.02286 | 216.4 | 1.5 | 24-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00305 | 177 | 1.5 | 24-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00353 | 180.9 | 1.5 | 24-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00901 | 196.6 | 1.5 | 24-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.01155 | 236.9 | 1.5 | 24-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.03369 | 261.3 | 1.5 | 24-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.05841 | 260.9 | 1.5 | 24-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.0307 | 226.7 | 1.5 | 24-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.01895 | 164 | 1.5 | 24-HR | Grid Receptor 8 | G8 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 24-hr 2018

14:01:17

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-----------------------|-----|
| 650544 | 4075573 | 0.08598 | 268.2 | 1.5 | 24-HR | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.00463 | 181.3 | 1.5 | 24-HR | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00727 | 178.4 | 1.5 | 24-HR | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.0092 | 214.8 | 1.5 | 24-HR | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.01455 | 249.9 | 1.5 | 24-HR | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.04276 | 276.5 | 1.5 | 24-HR | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.02234 | 225.6 | 1.5 | 24-HR | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.02143 | 219.8 | 1.5 | 24-HR | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.03663 | 209.2 | 1.5 | 24-HR | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.01988 | 216.6 | 1.5 | 24-HR | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.00824 | 160.7 | 1.5 | 24-HR | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.0196 | 243.2 | 1.5 | 24-HR | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00659 | 191 | 1.5 | 24-HR | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.0061 | 181 | 1.5 | 24-HR | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.00826 | 214.3 | 1.5 | 24-HR | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.02309 | 248.4 | 1.5 | 24-HR | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.01888 | 213.2 | 1.5 | 24-HR | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.01431 | 213.6 | 1.5 | 24-HR | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.02205 | 203.5 | 1.5 | 24-HR | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.03055 | 205.6 | 1.5 | 24-HR | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.01675 | 205.8 | 1.5 | 24-HR | Grid Receptor 99 | G99 |
| 648584 | 4077523 | 0.03108 | 183.61 | 1.5 | 24-HR | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 0.05414 | 254.01 | 1.5 | 24-HR | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.00626 | 235.3 | 1.5 | 24-HR | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.00422 | 221.29 | 1.5 | 24-HR | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00513 | 222.37 | 1.5 | 24-HR | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.01003 | 233.6 | 1.5 | 24-HR | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.0227 | 249.54 | 1.5 | 24-HR | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 0.03106 | 258.89 | 1.5 | 24-HR | Boundary Perimeter 16 | P16 |
| 650184 | 4077548 | 0.03254 | 259.56 | 1.5 | 24-HR | Boundary Perimeter 17 | P17 |
| 650284 | 4077550 | 0.02367 | 256.77 | 1.5 | 24-HR | Boundary Perimeter 18 | P18 |
| 650384 | 4077552 | 0.01164 | 242.37 | 1.5 | 24-HR | Boundary Perimeter 19 | P19 |

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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-----------------------|-----|
| 648684 | 4077525 | 0.03893 | 197.16 | 1.5 | 24-HR | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.01899 | 242.23 | 1.5 | 24-HR | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.03139 | 259.71 | 1.5 | 24-HR | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.03744 | 257.58 | 1.5 | 24-HR | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.0547 | 267.9 | 1.5 | 24-HR | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.03959 | 275.91 | 1.5 | 24-HR | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.05298 | 265.73 | 1.5 | 24-HR | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.02979 | 251.08 | 1.5 | 24-HR | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.03541 | 252.83 | 1.5 | 24-HR | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.02839 | 246.1 | 1.5 | 24-HR | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.0207 | 241.37 | 1.5 | 24-HR | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.0402 | 209.74 | 1.5 | 24-HR | Boundary Perimeter 3 | Р3 |
| 650791 | 4076854 | 0.02775 | 246.79 | 1.5 | 24-HR | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.02243 | 228.75 | 1.5 | 24-HR | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.02707 | 217.76 | 1.5 | 24-HR | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.0287 | 221.2 | 1.5 | 24-HR | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.02861 | 220.83 | 1.5 | 24-HR | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.02739 | 223.42 | 1.5 | 24-HR | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.0248 | 222.46 | 1.5 | 24-HR | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.02787 | 223.19 | 1.5 | 24-HR | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.03121 | 222.1 | 1.5 | 24-HR | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.03638 | 217.03 | 1.5 | 24-HR | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.02535 | 214.25 | 1.5 | 24-HR | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.03987 | 214.82 | 1.5 | 24-HR | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.05582 | 214.91 | 1.5 | 24-HR | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.0715 | 214.09 | 1.5 | 24-HR | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.07797 | 211.53 | 1.5 | 24-HR | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.07118 | 210.17 | 1.5 | 24-HR | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.09493 | 208.52 | 1.5 | 24-HR | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.11519 | 207.5 | 1.5 | 24-HR | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.10013 | 205.17 | 1.5 | 24-HR | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.01599 | 202.16 | 1.5 | 24-HR | Boundary Perimeter 48 | P48 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 24-hr 2018

14:01:17

- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|-------|-----------------------|--------|-----|
| 649226 | 4076535 | 0.0101 | 196.38 | 1.5 | 24-HR | Boundary Perimeter 49 | P49 | |
| 648984 | 4077530 | 0.01084 | 221.41 | 1.5 | 24-HR | Boundary Perimeter 5 | P5 | |
| 649156 | 4076605 | 0.04498 | 195.87 | 1.5 | 24-HR | Boundary Perimeter 50 | P50 | |
| 649068 | 4076653 | 0.12341 | 196.32 | 1.5 | 24-HR | Boundary Perimeter 51 | P51 | |
| 648987 | 4076711 | 0.12637 | 192.42 | 1.5 | 24-HR | Boundary Perimeter 52 | P52 | PMI |
| 648937 | 4076759 | 0.11816 | 192.46 | 1.5 | 24-HR | Boundary Perimeter 53 | P53 | |
| 648869 | 4076833 | 0.08726 | 191.63 | 1.5 | 24-HR | Boundary Perimeter 54 | P54 | |
| 648797 | 4076902 | 0.0628 | 186.32 | 1.5 | 24-HR | Boundary Perimeter 55 | P55 | |
| 648711 | 4076952 | 0.06099 | 179.81 | 1.5 | 24-HR | Boundary Perimeter 56 | P56 | |
| 648621 | 4076996 | 0.06064 | 176.23 | 1.5 | 24-HR | Boundary Perimeter 57 | P57 | |
| 648607 | 4077051 | 0.04129 | 175.02 | 1.5 | 24-HR | Boundary Perimeter 58 | P58 | |
| 648680 | 4077119 | 0.03506 | 180.62 | 1.5 | 24-HR | Boundary Perimeter 59 | P59 | |
| 649084 | 4077532 | 0.00588 | 216.54 | 1.5 | 24-HR | Boundary Perimeter 6 | P6 | |
| 648759 | 4077180 | 0.03581 | 183.47 | 1.5 | 24-HR | Boundary Perimeter 60 | P60 | |
| 648791 | 4077262 | 0.05054 | 202.88 | 1.5 | 24-HR | Boundary Perimeter 61 | P61 | |
| 648788 | 4077362 | 0.04129 | 178.21 | 1.5 | 24-HR | Boundary Perimeter 62 | P62 | |
| 648691 | 4077361 | 0.03492 | 176.25 | 1.5 | 24-HR | Boundary Perimeter 63 | P63 | |
| 648591 | 4077357 | 0.02852 | 176 | 1.5 | 24-HR | Boundary Perimeter 64 | P64 | |
| 648526 | 4077371 | 0.02734 | 175.24 | 1.5 | 24-HR | Boundary Perimeter 65 | P65 | |
| 648587 | 4077430 | 0.02701 | 175.13 | 1.5 | 24-HR | Boundary Perimeter 66 | P66 | |
| 649184 | 4077534 | 0.00771 | 230.71 | 1.5 | 24-HR | Boundary Perimeter 7 | P7 | |
| 649284 | 4077535 | 0.01925 | 248.08 | 1.5 | 24-HR | Boundary Perimeter 8 | P8 | |
| 649384 | 4077536 | 0.06664 | 258.43 | 1.5 | 24-HR | Boundary Perimeter 9 | P9 | |
| 645930 | 4077983 | 0.0121 | 127.38 | 1.5 | 24-HR | New Development | RP_G1 | |
| 645930 | 4078083 | 0.01185 | 127.58 | 1.5 | 24-HR | New Development | RP_G10 | |
| 646030 | 4078083 | 0.01202 | 130.56 | 1.5 | 24-HR | New Development | RP_G11 | |
| 646130 | 4078083 | 0.01215 | 134.35 | 1.5 | 24-HR | New Development | RP_G12 | |
| 646230 | 4078083 | 0.01225 | 139.22 | 1.5 | 24-HR | New Development | RP_G13 | |
| 646330 | 4078083 | 0.01304 | 144.65 | 1.5 | 24-HR | New Development | RP_G14 | |
| 646430 | 4078083 | 0.0136 | 142.28 | 1.5 | 24-HR | New Development | RP_G15 | |
| 646530 | 4078083 | 0.01413 | 146.76 | 1.5 | 24-HR | New Development | RP_G16 | |
| 646630 | 4078083 | 0.01443 | 150.64 | 1.5 | 24-HR | New Development | RP_G17 | |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 24-hr 2018

14:01:17

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| 101 | | A,5(174,1 15.5),5(174,1 0 | 2,,311,113,211, | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1,110,211,10) | | |
|--------|---------|---------------------------|-----------------|---|---------------|-----------------|--------|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
| 646730 | 4078083 | 0.01447 | 155.4 | 1.5 | 24-HR | New Development | RP_G18 |
| 645930 | 4078183 | 0.01131 | 127.22 | 1.5 | 24-HR | New Development | RP_G19 |
| 646030 | 4077983 | 0.01242 | 131.21 | 1.5 | 24-HR | New Development | RP_G2 |
| 646030 | 4078183 | 0.01134 | 130.56 | 1.5 | 24-HR | New Development | RP_G20 |
| 646130 | 4078183 | 0.01169 | 133.89 | 1.5 | 24-HR | New Development | RP_G21 |
| 646230 | 4078183 | 0.01233 | 140.45 | 1.5 | 24-HR | New Development | RP_G22 |
| 646330 | 4078183 | 0.01287 | 146.94 | 1.5 | 24-HR | New Development | RP_G23 |
| 646430 | 4078183 | 0.01295 | 140.23 | 1.5 | 24-HR | New Development | RP_G24 |
| 646530 | 4078183 | 0.01309 | 147.25 | 1.5 | 24-HR | New Development | RP_G25 |
| 646630 | 4078183 | 0.01292 | 151.56 | 1.5 | 24-HR | New Development | RP_G26 |
| 646730 | 4078183 | 0.01252 | 157.78 | 1.5 | 24-HR | New Development | RP_G27 |
| 645930 | 4078283 | 0.01059 | 126.06 | 1.5 | 24-HR | New Development | RP_G28 |
| 646030 | 4078283 | 0.01111 | 129.56 | 1.5 | 24-HR | New Development | RP_G29 |
| 646130 | 4077983 | 0.01271 | 135.89 | 1.5 | 24-HR | New Development | RP_G3 |
| 646130 | 4078283 | 0.01152 | 132.89 | 1.5 | 24-HR | New Development | RP_G30 |
| 646230 | 4078283 | 0.01185 | 139.24 | 1.5 | 24-HR | New Development | RP_G31 |
| 646330 | 4078283 | 0.01196 | 142.68 | 1.5 | 24-HR | New Development | RP_G32 |
| 646430 | 4078283 | 0.01174 | 140.02 | 1.5 | 24-HR | New Development | RP_G33 |
| 646530 | 4078283 | 0.01149 | 147.22 | 1.5 | 24-HR | New Development | RP_G34 |
| 646630 | 4078283 | 0.01136 | 151.56 | 1.5 | 24-HR | New Development | RP_G35 |
| 646730 | 4078283 | 0.01196 | 156.78 | 1.5 | 24-HR | New Development | RP_G36 |
| 646230 | 4077983 | 0.01295 | 139.18 | 1.5 | 24-HR | New Development | RP_G4 |
| 646330 | 4077983 | 0.01311 | 140.76 | 1.5 | 24-HR | New Development | RP_G5 |
| 646430 | 4077983 | 0.01354 | 143.89 | 1.5 | 24-HR | New Development | RP_G6 |
| 646530 | 4077983 | 0.01442 | 145.22 | 1.5 | 24-HR | New Development | RP_G7 |
| 646630 | 4077983 | 0.01516 | 147.21 | 1.5 | 24-HR | New Development | RP_G8 |
| 646730 | 4077983 | 0.01565 | 148.3 | 1.5 | 24-HR | New Development | RP_G9 |
| 648659 | 4077241 | 0.03748 | 205.79 | 1.5 | 24-HR | House 1 | RP_H1 |
| 648071 | 4076116 | 0.01095 | 169.6 | 1.5 | 24-HR | House 10 | RP_H10 |
| 648247 | 4076278 | 0.01707 | 184.55 | 1.5 | 24-HR | House 11 | RP_H11 |
| 648027 | 4076255 | 0.01655 | 169.38 | 1.5 | 24-HR | House 12 | RP_H12 |
| 648066 | 4076359 | 0.02097 | 173.83 | 1.5 | 24-HR | House 13 | RP_H13 |
| | | | | | | | |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 24-hr 2018

14:01:17

- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|--------|
| 648139 | 4076400 | 0.02268 | 178.22 | 1.5 | 24-HR | House 14 | RP_H14 |
| 648255 | 4076411 | 0.02435 | 191.28 | 1.5 | 24-HR | House 15 | RP_H15 |
| 647878 | 4076365 | 0.01995 | 165.39 | 1.5 | 24-HR | House 16 | RP_H16 |
| 647520 | 4076206 | 0.01476 | 159 | 1.5 | 24-HR | House 17 | RP_H17 |
| 647921 | 4076247 | 0.01635 | 164 | 1.5 | 24-HR | House 18 | RP_H18 |
| 647709 | 4076352 | 0.01851 | 163.52 | 1.5 | 24-HR | House 19 | RP_H19 |
| 648372 | 4075470 | 0.00468 | 173.69 | 1.5 | 24-HR | House 2 | RP_H2 |
| 647704 | 4076251 | 0.01637 | 162.17 | 1.5 | 24-HR | House 20 | RP_H20 |
| 647719 | 4076104 | 0.0119 | 159.35 | 1.5 | 24-HR | House 21 | RP_H21 |
| 647843 | 4076125 | 0.01227 | 163 | 1.5 | 24-HR | House 22 | RP_H22 |
| 647842 | 4076500 | 0.01821 | 167.93 | 1.5 | 24-HR | House 23 | RP_H23 |
| 647728 | 4076644 | 0.01607 | 164.15 | 1.5 | 24-HR | House 24 | RP_H24 |
| 647824 | 4076644 | 0.01675 | 168.29 | 1.5 | 24-HR | House 25 | RP_H25 |
| 647530 | 4076497 | 0.01492 | 159.56 | 1.5 | 24-HR | House 26 | RP_H26 |
| 647810 | 4076854 | 0.02187 | 162.9 | 1.5 | 24-HR | House 27 | RP_H27 |
| 647697 | 4076989 | 0.01849 | 161.42 | 1.5 | 24-HR | House 28 | RP_H28 |
| 648226 | 4076182 | 0.01266 | 183.22 | 1.5 | 24-HR | House 29 | RP_H29 |
| 647678 | 4075969 | 0.00846 | 159.5 | 1.5 | 24-HR | House 3 | RP_H3 |
| 645876 | 4077487 | 0.00736 | 127.13 | 1.5 | 24-HR | House 30 | RP_H30 |
| 650902 | 4076062 | 0.01954 | 215.24 | 1.5 | 24-HR | House 31 | RP_H31 |
| 651490 | 4076597 | 0.02351 | 205.5 | 1.5 | 24-HR | House 32 | RP_H32 |
| 651565 | 4077067 | 0.01417 | 213.93 | 1.5 | 24-HR | House 33 | RP_H33 |
| 648673 | 4075307 | 0.00225 | 225.91 | 1.5 | 24-HR | House 34 | RP_H34 |
| 648384 | 4075469 | 0.0048 | 174.44 | 1.5 | 24-HR | House 35 | RP_H35 |
| 646379 | 4077233 | 0.00975 | 146 | 1.5 | 24-HR | House 36 | RP_H36 |
| 651850 | 4075865 | 0.01354 | 201.97 | 1.5 | 24-HR | House 37 | RP_H37 |
| 652045 | 4076210 | 0.01961 | 196.88 | 1.5 | 24-HR | House 38 | RP_H38 |
| 652256 | 4076391 | 0.02037 | 197.06 | 1.5 | 24-HR | House 39 | RP_H39 |
| 647815 | 4075985 | 0.00817 | 162.04 | 1.5 | 24-HR | House 4 | RP_H4 |
| 646854 | 4077373 | 0.01382 | 145.99 | 1.5 | 24-HR | House 40 | RP_H40 |
| 647050 | 4077360 | 0.01608 | 145 | 1.5 | 24-HR | House 41 | RP_H41 |
| 647286 | 4077474 | 0.02105 | 149.68 | 1.5 | 24-HR | House 42 | RP_H42 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 24-hr 2018

14:01:17

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|--------|
| 647359 | 4077340 | 0.02028 | 154.45 | 1.5 | 24-HR | House 43 | RP_H43 |
| 647490 | 4077329 | 0.02295 | 162.28 | 1.5 | 24-HR | House 44 | RP_H44 |
| 647522 | 4077252 | 0.02169 | 164.3 | 1.5 | 24-HR | House 45 | RP_H45 |
| 647518 | 4077139 | 0.01894 | 164.01 | 1.5 | 24-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.01095 | 151.53 | 1.5 | 24-HR | House 47 | RP_H47 |
| 646779 | 4077128 | 0.01197 | 158.51 | 1.5 | 24-HR | House 48 | RP_H48 |
| 646987 | 4077213 | 0.01189 | 146.44 | 1.5 | 24-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.00913 | 163.83 | 1.5 | 24-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.01552 | 154.85 | 1.5 | 24-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.0122 | 159 | 1.5 | 24-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.01307 | 148.99 | 1.5 | 24-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.0145 | 158.62 | 1.5 | 24-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.0119 | 158.67 | 1.5 | 24-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.01348 | 152.34 | 1.5 | 24-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.01552 | 160.22 | 1.5 | 24-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.01626 | 161.26 | 1.5 | 24-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.0132 | 156.81 | 1.5 | 24-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.01408 | 156.21 | 1.5 | 24-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.00714 | 168.26 | 1.5 | 24-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.01474 | 154.38 | 1.5 | 24-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.01618 | 162.49 | 1.5 | 24-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.01537 | 158 | 1.5 | 24-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.01735 | 159.45 | 1.5 | 24-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.01631 | 159.32 | 1.5 | 24-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.01363 | 159 | 1.5 | 24-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00708 | 179.58 | 1.5 | 24-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.01672 | 146.77 | 1.5 | 24-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.01272 | 156.07 | 1.5 | 24-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.0136 | 159 | 1.5 | 24-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.00368 | 171.51 | 1.5 | 24-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.01407 | 159.9 | 1.5 | 24-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.00295 | 183.42 | 1.5 | 24-HR | House 8 | RP_H8 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 24-hr 2018

14:01:17

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|-------|
| 648219 | 4076109 | 0.00903 | 182.28 | 1.5 | 24-HR | House 9 | RP_H9 |

09/30/21

* AERMET (19191): Flare (1.5m) SO2 1-hr 2019

14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.05923 | 123.85 | 1.5 | 1-HR | AQ Monitoring Station | AQ_ST_1 | 1 |
| 643904 | 4077719 | 0.03668 | 105.68 | 1.5 | 1-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 |] |
| 642057 | 4079416 | 0.03471 | 85.12 | 1.5 | 1-HR | Dunne Park | CR_PK_1 | 1 |
| 642179 | 4079950 | 0.03454 | 117.99 | 1.5 | 1-HR | Vista Park Hill Park | CR_PK_2 | 1 |
| 644733 | 4078753 | 0.03712 | 106.44 | 1.5 | 1-HR | Las Brisas Park | CR_PK_3 | 1 |
| 645609 | 4078854 | 0.06203 | 112.86 | 1.5 | 1-HR | Frank Klauer Memorial Park | CR_PK_4 | 1 |
| 644238 | 4078807 | 0.03254 | 95.25 | 1.5 | 1-HR | Veterans Memorial Park | CR_PK_5 | 1 |
| 645311 | 4076559 | 0.03163 | 134.61 | 1.5 | 1-HR | Park 6 | CR_PK_6 | 1 |
| 649582 | 4073424 | 0.03596 | 159.96 | 1.5 | 1-HR | Park 7 | CR_PK_7 | 1 |
| 645145 | 4077181 | 0.04026 | 133 | 1.5 | 1-HR | Cerra Vista Elem School | CR_SC_1 | 1 |
| 642905 | 4079955 | 0.0456 | 86 | 1.5 | 1-HR | San Andreas Continuation | CR_SC_10 | 1 |
| 645851 | 4074015 | 0.056 | 123 | 1.5 | 1-HR | SouthSide School | CR_SC_11 | 1 |
| 642106 | 4078176 | 0.03327 | 91 | 1.5 | 1-HR | School 12 | CR SC 12 | |
| 646059 | 4078443 | 0.06344 | 128.52 | 1.5 | 1-HR | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.14666 | 158 | 1.5 | 1-HR | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.06129 | 159 | 1.5 | 1-HR | Tres Pinos Union Elementary School | CR_SC_15 | 1 |
| 644110 | 4078389 | 0.03192 | 98.2 | 1.5 | 1-HR | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.03143 | 101.23 | 1.5 | 1-HR | Hollister Montessori School | CR_SC_3 | 1 |
| 642961 | 4078621 | 0.03247 | 92 | 1.5 | 1-HR | Rancho San Justo Middle School | CR_SC_4 | 1 |
| 643980 | 4079743 | 0.05898 | 88 | 1.5 | 1-HR | Marguerite Maze Middle School | CR_SC_5 | 1 |
| 641630 | 4079153 | 0.03498 | 85 | 1.5 | 1-HR | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.03171 | 98.22 | 1.5 | 1-HR | Ladd Lane Elementary School | CR_SC_7 | 1 |
| 644003 | 4080079 | 0.04964 | 87 | 1.5 | 1-HR | Gabilan Hills Elementary School | CR_SC_8 | 1 |
| 642245 | 4078413 | 0.03328 | 90.17 | 1.5 | 1-HR | San Benito High School | CR_SC_9 | 1 |
| 642083 | 4079794 | 0.03401 | 87.58 | 1.5 | 1-HR | Jovenes De Antano | CR_SR_1 | 1 |
| 646402 | 4076879 | 0.04299 | 146.33 | 1.5 | 1-HR | Workplace | CR_WP_1 | 1 |
| 648949 | 4077938 | 0.24685 | 189.45 | 1.5 | 1-HR | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 0.09641 | 155.2 | 1.5 | 1-HR | Grid Receptor 1 | G1 | 1 |
| 647744 | 4075573 | 0.09297 | 160 | 1.5 | 1-HR | Grid Receptor 10 | G10 | 1 |
| 651344 | 4075573 | 0.23307 | 252.9 | 1.5 | 1-HR | Grid Receptor 100 | G100 | 1 |
| 648144 | 4079173 | 0.09715 | 165.9 | 1.5 | 1-HR | Grid Receptor 11 | G11 | 1 |
| 648144 | 4078773 | 0.09043 | 159.6 | 1.5 | 1-HR | Grid Receptor 12 | G12 | 1 |

09/30/21

* AERMET (19191): Flare (1.5m) SO2 1-hr 2019

14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 648144 | 4078373 | 0.13327 | 146.2 | 1.5 | 1-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.16504 | 158.3 | 1.5 | 1-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.07954 | 166.6 | 1.5 | 1-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.08416 | 175.4 | 1.5 | 1-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.05479 | 177.1 | 1.5 | 1-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.1055 | 178 | 1.5 | 1-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.17012 | 173 | 1.5 | 1-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.13966 | 145.4 | 1.5 | 1-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.12372 | 168.8 | 1.5 | 1-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.16853 | 173.5 | 1.5 | 1-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.16919 | 166.2 | 1.5 | 1-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.14177 | 145.4 | 1.5 | 1-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.09836 | 173.9 | 1.5 | 1-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.16665 | 179.6 | 1.5 | 1-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.13977 | 191 | 1.5 | 1-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.12429 | 209.2 | 1.5 | 1-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.17285 | 233.7 | 1.5 | 1-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.155 | 199.9 | 1.5 | 1-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.14121 | 144.4 | 1.5 | 1-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.09647 | 195.5 | 1.5 | 1-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.12433 | 190.4 | 1.5 | 1-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.14622 | 165.4 | 1.5 | 1-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.18181 | 159.6 | 1.5 | 1-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.23852 | 183.5 | 1.5 | 1-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.2726 | 224 | 1.5 | 1-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.11111 | 205 | 1.5 | 1-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.10367 | 208.8 | 1.5 | 1-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.07119 | 134.6 | 1.5 | 1-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.07005 | 185.6 | 1.5 | 1-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.10255 | 187.4 | 1.5 | 1-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.09504 | 160.9 | 1.5 | 1-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.12111 | 200.5 | 1.5 | 1-HR | Grid Receptor 43 | G43 |

09/30/21

* AERMET (19191): Flare (1.5m) SO2 1-hr 2019

14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 649344 | 4077973 | 0.14419 | 229 | 1.5 | 1-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.43879 | 253.3 | 1.5 | 1-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.40059 | 220.2 | 1.5 | 1-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.25366 | 227.2 | 1.5 | 1-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.06476 | 163.8 | 1.5 | 1-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.14615 | 205.5 | 1.5 | 1-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.07998 | 176.1 | 1.5 | 1-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.0868 | 195 | 1.5 | 1-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.08111 | 196.1 | 1.5 | 1-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.08018 | 215.3 | 1.5 | 1-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.13751 | 221.6 | 1.5 | 1-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.27118 | 211.7 | 1.5 | 1-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.16752 | 237.7 | 1.5 | 1-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.07108 | 158.4 | 1.5 | 1-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.13673 | 204.2 | 1.5 | 1-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.09087 | 173 | 1.5 | 1-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.09129 | 171 | 1.5 | 1-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.07391 | 204.6 | 1.5 | 1-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.04686 | 216.5 | 1.5 | 1-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.44879 | 257.7 | 1.5 | 1-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.18697 | 231.4 | 1.5 | 1-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.3318 | 249.4 | 1.5 | 1-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.0542 | 164.7 | 1.5 | 1-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.1044 | 216.4 | 1.5 | 1-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.07663 | 177 | 1.5 | 1-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.05531 | 180.9 | 1.5 | 1-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.06757 | 196.6 | 1.5 | 1-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.11874 | 236.9 | 1.5 | 1-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.54057 | 261.3 | 1.5 | 1-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.57946 | 260.9 | 1.5 | 1-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.11483 | 226.7 | 1.5 | 1-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.06931 | 164 | 1.5 | 1-HR | Grid Receptor 8 | G8 |

09/30/21

* AERMET (19191): Flare (1.5m) SO2 1-hr 2019

14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|-----|
| 650544 | 4075573 | 0.56182 | 268.2 | 1.5 | 1-HR | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.04973 | 181.3 | 1.5 | 1-HR | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.07353 | 178.4 | 1.5 | 1-HR | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.12062 | 214.8 | 1.5 | 1-HR | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.23783 | 249.9 | 1.5 | 1-HR | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.61039 | 276.5 | 1.5 | 1-HR | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.08664 | 225.6 | 1.5 | 1-HR | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.08487 | 219.8 | 1.5 | 1-HR | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.08688 | 209.2 | 1.5 | 1-HR | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.08857 | 216.6 | 1.5 | 1-HR | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.18981 | 160.7 | 1.5 | 1-HR | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.12128 | 243.2 | 1.5 | 1-HR | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.07973 | 191 | 1.5 | 1-HR | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.10499 | 181 | 1.5 | 1-HR | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.10249 | 214.3 | 1.5 | 1-HR | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.16152 | 248.4 | 1.5 | 1-HR | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.06545 | 213.2 | 1.5 | 1-HR | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.0694 | 213.6 | 1.5 | 1-HR | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.06653 | 203.5 | 1.5 | 1-HR | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.06844 | 205.6 | 1.5 | 1-HR | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.07542 | 205.8 | 1.5 | 1-HR | Grid Receptor 99 | G99 |
| 648584 | 4077523 | 0.16495 | 183.61 | 1.5 | 1-HR | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 0.50567 | 254.01 | 1.5 | 1-HR | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.11101 | 235.3 | 1.5 | 1-HR | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.15631 | 221.29 | 1.5 | 1-HR | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.11022 | 222.37 | 1.5 | 1-HR | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.04811 | 233.6 | 1.5 | 1-HR | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.26512 | 249.54 | 1.5 | 1-HR | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 0.55014 | 258.89 | 1.5 | 1-HR | Boundary Perimeter 16 | P16 |
| 650184 | 4077548 | 0.52719 | 259.56 | 1.5 | 1-HR | Boundary Perimeter 17 | P17 |
| 650284 | 4077550 | 0.39989 | 256.77 | 1.5 | 1-HR | Boundary Perimeter 18 | P18 |
| 650384 | 4077552 | 0.12173 | 242.37 | 1.5 | 1-HR | Boundary Perimeter 19 | P19 |

09/30/21

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14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|-----|
| 648684 | 4077525 | 0.14829 | 197.16 | 1.5 | 1-HR | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.12099 | 242.23 | 1.5 | 1-HR | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.48276 | 259.71 | 1.5 | 1-HR | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.43038 | 257.58 | 1.5 | 1-HR | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.57864 | 267.9 | 1.5 | 1-HR | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.56725 | 275.91 | 1.5 | 1-HR | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.54436 | 265.73 | 1.5 | 1-HR | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.24014 | 251.08 | 1.5 | 1-HR | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.28551 | 252.83 | 1.5 | 1-HR | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.1686 | 246.1 | 1.5 | 1-HR | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.09949 | 241.37 | 1.5 | 1-HR | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.15506 | 209.74 | 1.5 | 1-HR | Boundary Perimeter 3 | Р3 |
| 650791 | 4076854 | 0.16733 | 246.79 | 1.5 | 1-HR | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.09161 | 228.75 | 1.5 | 1-HR | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.08932 | 217.76 | 1.5 | 1-HR | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.09823 | 221.2 | 1.5 | 1-HR | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.10263 | 220.83 | 1.5 | 1-HR | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.10218 | 223.42 | 1.5 | 1-HR | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.1085 | 222.46 | 1.5 | 1-HR | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.11083 | 223.19 | 1.5 | 1-HR | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.11031 | 222.1 | 1.5 | 1-HR | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.11683 | 217.03 | 1.5 | 1-HR | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.22398 | 214.25 | 1.5 | 1-HR | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.11714 | 214.82 | 1.5 | 1-HR | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.20954 | 214.91 | 1.5 | 1-HR | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.24462 | 214.09 | 1.5 | 1-HR | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.32291 | 211.53 | 1.5 | 1-HR | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.31017 | 210.17 | 1.5 | 1-HR | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.26165 | 208.52 | 1.5 | 1-HR | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.32021 | 207.5 | 1.5 | 1-HR | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.35668 | 205.17 | 1.5 | 1-HR | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.2007 | 202.16 | 1.5 | 1-HR | Boundary Perimeter 48 | P48 |

09/30/21

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14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| 1 01 | CIVII 11 . (2 1, 12 | 1,5(171,1 15.5),5(171,1 0 | 2),311,113,211, | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1,110,211,10) | | |
|--------|---------------------|---------------------------|-----------------|---|---------------|-----------------------|--------|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
| 649226 | 4076535 | 0.11428 | 196.38 | 1.5 | 1-HR | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.28172 | 221.41 | 1.5 | 1-HR | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.25233 | 195.87 | 1.5 | 1-HR | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.2731 | 196.32 | 1.5 | 1-HR | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.21489 | 192.42 | 1.5 | 1-HR | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.19276 | 192.46 | 1.5 | 1-HR | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.16687 | 191.63 | 1.5 | 1-HR | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.16187 | 186.32 | 1.5 | 1-HR | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.15196 | 179.81 | 1.5 | 1-HR | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.1485 | 176.23 | 1.5 | 1-HR | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.13338 | 175.02 | 1.5 | 1-HR | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.15915 | 180.62 | 1.5 | 1-HR | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.27113 | 216.54 | 1.5 | 1-HR | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.16002 | 183.47 | 1.5 | 1-HR | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.18127 | 202.88 | 1.5 | 1-HR | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.13677 | 178.21 | 1.5 | 1-HR | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.14178 | 176.25 | 1.5 | 1-HR | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.13665 | 176 | 1.5 | 1-HR | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.12476 | 175.24 | 1.5 | 1-HR | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.15235 | 175.13 | 1.5 | 1-HR | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.19594 | 230.71 | 1.5 | 1-HR | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.30092 | 248.08 | 1.5 | 1-HR | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.64976 | 258.43 | 1.5 | 1-HR | Boundary Perimeter 9 | Р9 |
| 645930 | 4077983 | 0.03304 | 127.38 | 1.5 | 1-HR | New Development | RP_G1 |
| 645930 | 4078083 | 0.03334 | 127.58 | 1.5 | 1-HR | New Development | RP_G10 |
| 646030 | 4078083 | 0.03744 | 130.56 | 1.5 | 1-HR | New Development | RP_G11 |
| 646130 | 4078083 | 0.04251 | 134.35 | 1.5 | 1-HR | New Development | RP_G12 |
| 646230 | 4078083 | 0.04771 | 139.22 | 1.5 | 1-HR | New Development | RP_G13 |
| 646330 | 4078083 | 0.05283 | 144.65 | 1.5 | 1-HR | New Development | RP_G14 |
| 646430 | 4078083 | 0.05653 | 142.28 | 1.5 | 1-HR | New Development | RP_G15 |
| 646530 | 4078083 | 0.05972 | 146.76 | 1.5 | 1-HR | New Development | RP_G16 |
| 646630 | 4078083 | 0.06166 | 150.64 | 1.5 | 1-HR | New Development | RP_G17 |
| | | | | | | | |

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14:01:30

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- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------|--------|
| 646730 | 4078083 | 0.06213 | 155.4 | 1.5 | 1-HR | New Development | RP_G18 |
| 645930 | 4078183 | 0.04211 | 127.22 | 1.5 | 1-HR | New Development | RP_G19 |
| 646030 | 4077983 | 0.03413 | 131.21 | 1.5 | 1-HR | New Development | RP_G2 |
| 646030 | 4078183 | 0.04702 | 130.56 | 1.5 | 1-HR | New Development | RP_G20 |
| 646130 | 4078183 | 0.05178 | 133.89 | 1.5 | 1-HR | New Development | RP_G21 |
| 646230 | 4078183 | 0.05644 | 140.45 | 1.5 | 1-HR | New Development | RP_G22 |
| 646330 | 4078183 | 0.06055 | 146.94 | 1.5 | 1-HR | New Development | RP_G23 |
| 646430 | 4078183 | 0.06227 | 140.23 | 1.5 | 1-HR | New Development | RP_G24 |
| 646530 | 4078183 | 0.06365 | 147.25 | 1.5 | 1-HR | New Development | RP_G25 |
| 646630 | 4078183 | 0.0631 | 151.56 | 1.5 | 1-HR | New Development | RP_G26 |
| 646730 | 4078183 | 0.06102 | 157.78 | 1.5 | 1-HR | New Development | RP_G27 |
| 645930 | 4078283 | 0.05096 | 126.06 | 1.5 | 1-HR | New Development | RP_G28 |
| 646030 | 4078283 | 0.05527 | 129.56 | 1.5 | 1-HR | New Development | RP_G29 |
| 646130 | 4077983 | 0.03466 | 135.89 | 1.5 | 1-HR | New Development | RP_G3 |
| 646130 | 4078283 | 0.059 | 132.89 | 1.5 | 1-HR | New Development | RP_G30 |
| 646230 | 4078283 | 0.0622 | 139.24 | 1.5 | 1-HR | New Development | RP_G31 |
| 646330 | 4078283 | 0.06405 | 142.68 | 1.5 | 1-HR | New Development | RP_G32 |
| 646430 | 4078283 | 0.06389 | 140.02 | 1.5 | 1-HR | New Development | RP_G33 |
| 646530 | 4078283 | 0.06311 | 147.22 | 1.5 | 1-HR | New Development | RP_G34 |
| 646630 | 4078283 | 0.05997 | 151.56 | 1.5 | 1-HR | New Development | RP_G35 |
| 646730 | 4078283 | 0.05528 | 156.78 | 1.5 | 1-HR | New Development | RP_G36 |
| 646230 | 4077983 | 0.03762 | 139.18 | 1.5 | 1-HR | New Development | RP_G4 |
| 646330 | 4077983 | 0.04275 | 140.76 | 1.5 | 1-HR | New Development | RP_G5 |
| 646430 | 4077983 | 0.04747 | 143.89 | 1.5 | 1-HR | New Development | RP_G6 |
| 646530 | 4077983 | 0.05177 | 145.22 | 1.5 | 1-HR | New Development | RP_G7 |
| 646630 | 4077983 | 0.05545 | 147.21 | 1.5 | 1-HR | New Development | RP_G8 |
| 646730 | 4077983 | 0.05797 | 148.3 | 1.5 | 1-HR | New Development | RP_G9 |
| 648659 | 4077241 | 0.17263 | 205.79 | 1.5 | 1-HR | House 1 | RP_H1 |
| 648071 | 4076116 | 0.19676 | 169.6 | 1.5 | 1-HR | House 10 | RP_H10 |
| 648247 | 4076278 | 0.17141 | 184.55 | 1.5 | 1-HR | House 11 | RP_H11 |
| 648027 | 4076255 | 0.15117 | 169.38 | 1.5 | 1-HR | House 12 | RP_H12 |
| 648066 | 4076359 | 0.10424 | 173.83 | 1.5 | 1-HR | House 13 | RP_H13 |

09/30/21

* AERMET (19191): Flare (1.5m) SO2 1-hr 2019

14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 648139 | 4076400 | 0.09044 | 178.22 | 1.5 | 1-HR | House 14 | RP_H14 |
| 648255 | 4076411 | 0.09843 | 191.28 | 1.5 | 1-HR | House 15 | RP_H15 |
| 647878 | 4076365 | 0.08254 | 165.39 | 1.5 | 1-HR | House 16 | RP_H16 |
| 647520 | 4076206 | 0.11069 | 159 | 1.5 | 1-HR | House 17 | RP_H17 |
| 647921 | 4076247 | 0.14033 | 164 | 1.5 | 1-HR | House 18 | RP_H18 |
| 647709 | 4076352 | 0.0746 | 163.52 | 1.5 | 1-HR | House 19 | RP_H19 |
| 648372 | 4075470 | 0.09963 | 173.69 | 1.5 | 1-HR | House 2 | RP_H2 |
| 647704 | 4076251 | 0.11362 | 162.17 | 1.5 | 1-HR | House 20 | RP_H20 |
| 647719 | 4076104 | 0.16734 | 159.35 | 1.5 | 1-HR | House 21 | RP_H21 |
| 647843 | 4076125 | 0.17609 | 163 | 1.5 | 1-HR | House 22 | RP_H22 |
| 647842 | 4076500 | 0.05432 | 167.93 | 1.5 | 1-HR | House 23 | RP_H23 |
| 647728 | 4076644 | 0.0518 | 164.15 | 1.5 | 1-HR | House 24 | RP_H24 |
| 647824 | 4076644 | 0.05297 | 168.29 | 1.5 | 1-HR | House 25 | RP_H25 |
| 647530 | 4076497 | 0.05052 | 159.56 | 1.5 | 1-HR | House 26 | RP_H26 |
| 647810 | 4076854 | 0.05754 | 162.9 | 1.5 | 1-HR | House 27 | RP_H27 |
| 647697 | 4076989 | 0.05516 | 161.42 | 1.5 | 1-HR | House 28 | RP_H28 |
| 648226 | 4076182 | 0.20092 | 183.22 | 1.5 | 1-HR | House 29 | RP_H29 |
| 647678 | 4075969 | 0.18674 | 159.5 | 1.5 | 1-HR | House 3 | RP_H3 |
| 645876 | 4077487 | 0.04371 | 127.13 | 1.5 | 1-HR | House 30 | RP_H30 |
| 650902 | 4076062 | 0.09087 | 215.24 | 1.5 | 1-HR | House 31 | RP_H31 |
| 651490 | 4076597 | 0.06384 | 205.5 | 1.5 | 1-HR | House 32 | RP_H32 |
| 651565 | 4077067 | 0.05913 | 213.93 | 1.5 | 1-HR | House 33 | RP_H33 |
| 648673 | 4075307 | 0.11228 | 225.91 | 1.5 | 1-HR | House 34 | RP_H34 |
| 648384 | 4075469 | 0.09797 | 174.44 | 1.5 | 1-HR | House 35 | RP_H35 |
| 646379 | 4077233 | 0.05187 | 146 | 1.5 | 1-HR | House 36 | RP_H36 |
| 651850 | 4075865 | 0.06879 | 201.97 | 1.5 | 1-HR | House 37 | RP_H37 |
| 652045 | 4076210 | 0.06004 | 196.88 | 1.5 | 1-HR | House 38 | RP_H38 |
| 652256 | 4076391 | 0.06952 | 197.06 | 1.5 | 1-HR | House 39 | RP_H39 |
| 647815 | 4075985 | 0.19215 | 162.04 | 1.5 | 1-HR | House 4 | RP_H4 |
| 646854 | 4077373 | 0.04323 | 145.99 | 1.5 | 1-HR | House 40 | RP_H40 |
| 647050 | 4077360 | 0.04368 | 145 | 1.5 | 1-HR | House 41 | RP_H41 |
| 647286 | 4077474 | 0.0531 | 149.68 | 1.5 | 1-HR | House 42 | RP_H42 |

09/30/21

* AERMET (19191): Flare (1.5m) SO2 1-hr 2019

14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 647359 | 4077340 | 0.05403 | 154.45 | 1.5 | 1-HR | House 43 | RP_H43 |
| 647490 | 4077329 | 0.05799 | 162.28 | 1.5 | 1-HR | House 44 | RP_H44 |
| 647522 | 4077252 | 0.06126 | 164.3 | 1.5 | 1-HR | House 45 | RP_H45 |
| 647518 | 4077139 | 0.05365 | 164.01 | 1.5 | 1-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.05016 | 151.53 | 1.5 | 1-HR | House 47 | RP_H47 |
| 646779 | 4077128 | 0.05572 | 158.51 | 1.5 | 1-HR | House 48 | RP_H48 |
| 646987 | 4077213 | 0.05055 | 146.44 | 1.5 | 1-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.19443 | 163.83 | 1.5 | 1-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.04951 | 154.85 | 1.5 | 1-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.05601 | 159 | 1.5 | 1-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.05451 | 148.99 | 1.5 | 1-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.05334 | 158.62 | 1.5 | 1-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.05409 | 158.67 | 1.5 | 1-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.05598 | 152.34 | 1.5 | 1-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.0576 | 160.22 | 1.5 | 1-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.05781 | 161.26 | 1.5 | 1-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.05336 | 156.81 | 1.5 | 1-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.04756 | 156.21 | 1.5 | 1-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.19261 | 168.26 | 1.5 | 1-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.04911 | 154.38 | 1.5 | 1-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.05849 | 162.49 | 1.5 | 1-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.05148 | 158 | 1.5 | 1-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.058 | 159.45 | 1.5 | 1-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.05173 | 159.32 | 1.5 | 1-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.05077 | 159 | 1.5 | 1-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.09414 | 179.58 | 1.5 | 1-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.04509 | 146.77 | 1.5 | 1-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.04037 | 156.07 | 1.5 | 1-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.04573 | 159 | 1.5 | 1-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.16609 | 171.51 | 1.5 | 1-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.04723 | 159.9 | 1.5 | 1-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.15083 | 183.42 | 1.5 | 1-HR | House 8 | RP_H8 |

09/30/21

* AERMET (19191): Flare (1.5m) SO2 1-hr 2019

14:01:30

- $*\,\mathsf{MODELING}\,\mathsf{OPTIONS}\,\mathsf{USED}\colon\;\mathsf{RegDFAULT}\,\;\mathsf{CONC}\,\;\mathsf{ELEV}\,\;\mathsf{FLGPOL}\,\;\mathsf{NODRYDPLT}\,\;\mathsf{NOWETDPLT}\,\;\mathsf{RURAL}\,\;\mathsf{ADJ}_{_}\mathsf{U}^*$
- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|-------------|-------|------|
| 648219 | 4076109 | 0.20174 | 182.28 | 1.5 | 1-HR | House 9 | RP_H9 | MEIR |

09/30/21

* AERMET (19191): Future Flare SO2 (1.5m) 1-yr 2019

14:01:30

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|--------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.00095 | 123.85 | 1.5 | ANNUAL | AQ Monitoring Station | AQ_ST_1 | |
| 643904 | 4077719 | 0.00017 | 105.68 | 1.5 | ANNUAL | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642057 | 4079416 | 0.00029 | 85.12 | 1.5 | ANNUAL | Dunne Park | CR_PK_1 | |
| 642179 | 4079950 | 0.00041 | 117.99 | 1.5 | ANNUAL | Vista Park Hill Park | CR_PK_2 | |
| 644733 | 4078753 | 0.00052 | 106.44 | 1.5 | ANNUAL | Las Brisas Park | CR_PK_3 | |
| 645609 | 4078854 | 0.00084 | 112.86 | 1.5 | ANNUAL | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238 | 4078807 | 0.00043 | 95.25 | 1.5 | ANNUAL | Veterans Memorial Park | CR_PK_5 | |
| 645311 | 4076559 | 0.00011 | 134.61 | 1.5 | ANNUAL | Park 6 | CR_PK_6 | |
| 649582 | 4073424 | 0.00055 | 159.96 | 1.5 | ANNUAL | Park 7 | CR_PK_7 | |
| 645145 | 4077181 | 0.00015 | 133 | 1.5 | ANNUAL | Cerra Vista Elem School | CR_SC_1 | |
| 642905 | 4079955 | 0.0005 | 86 | 1.5 | ANNUAL | San Andreas Continuation | CR_SC_10 | |
| 645851 | 4074015 | 0.00009 | 123 | 1.5 | ANNUAL | SouthSide School | CR_SC_11 | |
| 642106 | 4078176 | 0.00016 | 91 | 1.5 | ANNUAL | School 12 | CR_SC_12 | |
| 646059 | 4078443 | 0.00081 | 128.52 | 1.5 | ANNUAL | Rancho Santana School | CR_SC_13 | - |
| 647269 | 4075575 | 0.00015 | 158 | 1.5 | ANNUAL | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.0002 | 159 | 1.5 | ANNUAL | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644110 | 4078389 | 0.0003 | 98.2 | 1.5 | ANNUAL | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.00013 | 101.23 | 1.5 | ANNUAL | Hollister Montessori School | CR_SC_3 | |
| 642961 | 4078621 | 0.00025 | 92 | 1.5 | ANNUAL | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.00064 | 88 | 1.5 | ANNUAL | Marguerite Maze Middle School | CR_SC_5 | |
| 641630 | 4079153 | 0.00024 | 85 | 1.5 | ANNUAL | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.00012 | 98.22 | 1.5 | ANNUAL | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.00074 | 87 | 1.5 | ANNUAL | Gabilan Hills Elementary School | CR_SC_8 | |
| 642245 | 4078413 | 0.00019 | 90.17 | 1.5 | ANNUAL | San Benito High School | CR_SC_9 | |
| 642083 | 4079794 | 0.00036 | 87.58 | 1.5 | ANNUAL | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.00015 | 146.33 | 1.5 | ANNUAL | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 0.00108 | 189.45 | 1.5 | ANNUAL | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 0.00174 | 155.2 | 1.5 | ANNUAL | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.00016 | 160 | 1.5 | ANNUAL | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.00426 | 252.9 | 1.5 | ANNUAL | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.00129 | 165.9 | 1.5 | ANNUAL | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.00181 | 159.6 | 1.5 | ANNUAL | Grid Receptor 12 | G12 | |

* AERMET (19191): Future Flare SO2 (1.5m) 1-yr 2019

14:01:30

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|--------|------------------|-----|
| 648144 | 4078373 | 0.00243 | 146.2 | 1.5 | ANNUAL | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.00301 | 158.3 | 1.5 | ANNUAL | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.00276 | 166.6 | 1.5 | ANNUAL | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.00121 | 175.4 | 1.5 | ANNUAL | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.00035 | 177.1 | 1.5 | ANNUAL | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.00026 | 178 | 1.5 | ANNUAL | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.00023 | 173 | 1.5 | ANNUAL | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.00212 | 145.4 | 1.5 | ANNUAL | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.00017 | 168.8 | 1.5 | ANNUAL | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.00071 | 173.5 | 1.5 | ANNUAL | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.00102 | 166.2 | 1.5 | ANNUAL | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.00161 | 145.4 | 1.5 | ANNUAL | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.00295 | 173.9 | 1.5 | ANNUAL | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.0045 | 179.6 | 1.5 | ANNUAL | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.0039 | 191 | 1.5 | ANNUAL | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.00081 | 209.2 | 1.5 | ANNUAL | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.00059 | 233.7 | 1.5 | ANNUAL | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.0003 | 199.9 | 1.5 | ANNUAL | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.00238 | 144.4 | 1.5 | ANNUAL | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.00022 | 195.5 | 1.5 | ANNUAL | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.00038 | 190.4 | 1.5 | ANNUAL | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.00044 | 165.4 | 1.5 | ANNUAL | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.00059 | 159.6 | 1.5 | ANNUAL | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.00102 | 183.5 | 1.5 | ANNUAL | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.00268 | 224 | 1.5 | ANNUAL | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.00085 | 205 | 1.5 | ANNUAL | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.00049 | 208.8 | 1.5 | ANNUAL | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.00221 | 134.6 | 1.5 | ANNUAL | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00033 | 185.6 | 1.5 | ANNUAL | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00025 | 187.4 | 1.5 | ANNUAL | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.00026 | 160.9 | 1.5 | ANNUAL | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.00032 | 200.5 | 1.5 | ANNUAL | Grid Receptor 43 | G43 |

09/30/21

* AERMET (19191): Future Flare SO2 (1.5m) 1-yr 2019

14:01:30

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|--------|------------------|-----|
| 649344 | 4077973 | 0.00046 | 229 | 1.5 | ANNUAL | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.00202 | 253.3 | 1.5 | ANNUAL | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.00913 | 220.2 | 1.5 | ANNUAL | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.00165 | 227.2 | 1.5 | ANNUAL | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.00146 | 163.8 | 1.5 | ANNUAL | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.00071 | 205.5 | 1.5 | ANNUAL | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.00019 | 176.1 | 1.5 | ANNUAL | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00021 | 195 | 1.5 | ANNUAL | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00024 | 196.1 | 1.5 | ANNUAL | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.00029 | 215.3 | 1.5 | ANNUAL | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.00036 | 221.6 | 1.5 | ANNUAL | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.01652 | 211.7 | 1.5 | ANNUAL | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.01086 | 237.7 | 1.5 | ANNUAL | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.00057 | 158.4 | 1.5 | ANNUAL | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.0026 | 204.2 | 1.5 | ANNUAL | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.00018 | 173 | 1.5 | ANNUAL | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.00019 | 171 | 1.5 | ANNUAL | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00021 | 204.6 | 1.5 | ANNUAL | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.00022 | 216.5 | 1.5 | ANNUAL | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.00098 | 257.7 | 1.5 | ANNUAL | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.0057 | 231.4 | 1.5 | ANNUAL | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.0117 | 249.4 | 1.5 | ANNUAL | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.00024 | 164.7 | 1.5 | ANNUAL | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.00484 | 216.4 | 1.5 | ANNUAL | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00016 | 177 | 1.5 | ANNUAL | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00016 | 180.9 | 1.5 | ANNUAL | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00017 | 196.6 | 1.5 | ANNUAL | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.0003 | 236.9 | 1.5 | ANNUAL | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.00115 | 261.3 | 1.5 | ANNUAL | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.00663 | 260.9 | 1.5 | ANNUAL | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.00497 | 226.7 | 1.5 | ANNUAL | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.00019 | 164 | 1.5 | ANNUAL | Grid Receptor 8 | G8 |

09/30/21

* AERMET (19191): Future Flare SO2 (1.5m) 1-yr 2019

14:01:30

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------------|-----|
| 650544 | 4075573 | 0.00956 | 268.2 | 1.5 | ANNUAL | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.00014 | 181.3 | 1.5 | ANNUAL | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00014 | 178.4 | 1.5 | ANNUAL | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00017 | 214.8 | 1.5 | ANNUAL | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.00059 | 249.9 | 1.5 | ANNUAL | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.00123 | 276.5 | 1.5 | ANNUAL | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.0007 | 225.6 | 1.5 | ANNUAL | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.00122 | 219.8 | 1.5 | ANNUAL | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.00213 | 209.2 | 1.5 | ANNUAL | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.0032 | 216.6 | 1.5 | ANNUAL | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.00019 | 160.7 | 1.5 | ANNUAL | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.00467 | 243.2 | 1.5 | ANNUAL | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00013 | 191 | 1.5 | ANNUAL | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00014 | 181 | 1.5 | ANNUAL | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.00019 | 214.3 | 1.5 | ANNUAL | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.00053 | 248.4 | 1.5 | ANNUAL | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.00044 | 213.2 | 1.5 | ANNUAL | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.00073 | 213.6 | 1.5 | ANNUAL | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.00109 | 203.5 | 1.5 | ANNUAL | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.00165 | 205.6 | 1.5 | ANNUAL | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.00235 | 205.8 | 1.5 | ANNUAL | Grid Receptor 99 | G99 |
| 648584 | 4077523 | 0.00481 | 183.61 | 1.5 | ANNUAL | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 0.00166 | 254.01 | 1.5 | ANNUAL | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.00057 | 235.3 | 1.5 | ANNUAL | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.00039 | 221.29 | 1.5 | ANNUAL | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00035 | 222.37 | 1.5 | ANNUAL | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.00038 | 233.6 | 1.5 | ANNUAL | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.0007 | 249.54 | 1.5 | ANNUAL | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 0.00102 | 258.89 | 1.5 | ANNUAL | Boundary Perimeter 16 | P16 |
| 650184 | 4077548 | 0.00116 | 259.56 | 1.5 | ANNUAL | Boundary Perimeter 17 | P17 |
| 650284 | 4077550 | 0.00107 | 256.77 | 1.5 | ANNUAL | Boundary Perimeter 18 | P18 |
| 650384 | 4077552 | 0.00053 | 242.37 | 1.5 | ANNUAL | Boundary Perimeter 19 | P19 |

09/30/21

* AERMET (19191): Future Flare SO2 (1.5m) 1-yr 2019

14:01:30

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------------|-----|
| 648684 | 4077525 | 0.00527 | 197.16 | 1.5 | ANNUAL | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.00053 | 242.23 | 1.5 | ANNUAL | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.00109 | 259.71 | 1.5 | ANNUAL | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.00099 | 257.58 | 1.5 | ANNUAL | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.00123 | 267.9 | 1.5 | ANNUAL | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.00139 | 275.91 | 1.5 | ANNUAL | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.00159 | 265.73 | 1.5 | ANNUAL | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.00117 | 251.08 | 1.5 | ANNUAL | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.00143 | 252.83 | 1.5 | ANNUAL | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.00132 | 246.1 | 1.5 | ANNUAL | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.00135 | 241.37 | 1.5 | ANNUAL | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.00536 | 209.74 | 1.5 | ANNUAL | Boundary Perimeter 3 | Р3 |
| 650791 | 4076854 | 0.00188 | 246.79 | 1.5 | ANNUAL | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.00141 | 228.75 | 1.5 | ANNUAL | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.00144 | 217.76 | 1.5 | ANNUAL | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.00159 | 221.2 | 1.5 | ANNUAL | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.00165 | 220.83 | 1.5 | ANNUAL | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.0017 | 223.42 | 1.5 | ANNUAL | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.0017 | 222.46 | 1.5 | ANNUAL | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.00179 | 223.19 | 1.5 | ANNUAL | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.00191 | 222.1 | 1.5 | ANNUAL | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.00207 | 217.03 | 1.5 | ANNUAL | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.00403 | 214.25 | 1.5 | ANNUAL | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.00253 | 214.82 | 1.5 | ANNUAL | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.004 | 214.91 | 1.5 | ANNUAL | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.00695 | 214.09 | 1.5 | ANNUAL | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.01249 | 211.53 | 1.5 | ANNUAL | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.02117 | 210.17 | 1.5 | ANNUAL | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.03047 | 208.52 | 1.5 | ANNUAL | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.03516 | 207.5 | 1.5 | ANNUAL | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.02305 | 205.17 | 1.5 | ANNUAL | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.00237 | 202.16 | 1.5 | ANNUAL | Boundary Perimeter 48 | P48 |

PMI

* AERMET (19191): Future Flare SO2 (1.5m) 1-yr 2019

14:01:30

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------------|--------|
| 649226 | 4076535 | 0.00082 | 196.38 | 1.5 | ANNUAL | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.00242 | 221.41 | 1.5 | ANNUAL | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.00283 | 195.87 | 1.5 | ANNUAL | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.00352 | 196.32 | 1.5 | ANNUAL | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.00361 | 192.42 | 1.5 | ANNUAL | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.00392 | 192.46 | 1.5 | ANNUAL | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.00431 | 191.63 | 1.5 | ANNUAL | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.00419 | 186.32 | 1.5 | ANNUAL | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.00338 | 179.81 | 1.5 | ANNUAL | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.00274 | 176.23 | 1.5 | ANNUAL | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.00324 | 175.02 | 1.5 | ANNUAL | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.00507 | 180.62 | 1.5 | ANNUAL | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.00135 | 216.54 | 1.5 | ANNUAL | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.00661 | 183.47 | 1.5 | ANNUAL | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.00758 | 202.88 | 1.5 | ANNUAL | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.0058 | 178.21 | 1.5 | ANNUAL | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.00558 | 176.25 | 1.5 | ANNUAL | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.00494 | 176 | 1.5 | ANNUAL | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.00446 | 175.24 | 1.5 | ANNUAL | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.00487 | 175.13 | 1.5 | ANNUAL | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.00094 | 230.71 | 1.5 | ANNUAL | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.00173 | 248.08 | 1.5 | ANNUAL | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.00238 | 258.43 | 1.5 | ANNUAL | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.00047 | 127.38 | 1.5 | ANNUAL | New Development | RP_G1 |
| 645930 | 4078083 | 0.00053 | 127.58 | 1.5 | ANNUAL | New Development | RP_G10 |
| 646030 | 4078083 | 0.00056 | 130.56 | 1.5 | ANNUAL | New Development | RP_G11 |
| 646130 | 4078083 | 0.0006 | 134.35 | 1.5 | ANNUAL | New Development | RP_G12 |
| 646230 | 4078083 | 0.00065 | 139.22 | 1.5 | ANNUAL | New Development | RP_G13 |
| 646330 | 4078083 | 0.0007 | 144.65 | 1.5 | ANNUAL | New Development | RP_G14 |
| 646430 | 4078083 | 0.00075 | 142.28 | 1.5 | ANNUAL | New Development | RP_G15 |
| 646530 | 4078083 | 0.0008 | 146.76 | 1.5 | ANNUAL | New Development | RP_G16 |
| 646630 | 4078083 | 0.00087 | 150.64 | 1.5 | ANNUAL | New Development | RP_G17 |

09/30/21

* AERMET (19191): Future Flare SO2 (1.5m) 1-yr 2019

14:01:30

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------|--------|
| 646730 | 4078083 | 0.00095 | 155.4 | 1.5 | ANNUAL | New Development | RP_G18 |
| 645930 | 4078183 | 0.00059 | 127.22 | 1.5 | ANNUAL | New Development | RP_G19 |
| 646030 | 4077983 | 0.0005 | 131.21 | 1.5 | ANNUAL | New Development | RP_G2 |
| 646030 | 4078183 | 0.00063 | 130.56 | 1.5 | ANNUAL | New Development | RP_G20 |
| 646130 | 4078183 | 0.00067 | 133.89 | 1.5 | ANNUAL | New Development | RP_G21 |
| 646230 | 4078183 | 0.00072 | 140.45 | 1.5 | ANNUAL | New Development | RP_G22 |
| 646330 | 4078183 | 0.00077 | 146.94 | 1.5 | ANNUAL | New Development | RP_G23 |
| 646430 | 4078183 | 0.00083 | 140.23 | 1.5 | ANNUAL | New Development | RP_G24 |
| 646530 | 4078183 | 0.00089 | 147.25 | 1.5 | ANNUAL | New Development | RP_G25 |
| 646630 | 4078183 | 0.00097 | 151.56 | 1.5 | ANNUAL | New Development | RP_G26 |
| 646730 | 4078183 | 0.00106 | 157.78 | 1.5 | ANNUAL | New Development | RP_G27 |
| 645930 | 4078283 | 0.00065 | 126.06 | 1.5 | ANNUAL | New Development | RP_G28 |
| 646030 | 4078283 | 0.00069 | 129.56 | 1.5 | ANNUAL | New Development | RP_G29 |
| 646130 | 4077983 | 0.00054 | 135.89 | 1.5 | ANNUAL | New Development | RP_G3 |
| 646130 | 4078283 | 0.00074 | 132.89 | 1.5 | ANNUAL | New Development | RP_G30 |
| 646230 | 4078283 | 0.00079 | 139.24 | 1.5 | ANNUAL | New Development | RP_G31 |
| 646330 | 4078283 | 0.00085 | 142.68 | 1.5 | ANNUAL | New Development | RP_G32 |
| 646430 | 4078283 | 0.00091 | 140.02 | 1.5 | ANNUAL | New Development | RP_G33 |
| 646530 | 4078283 | 0.00099 | 147.22 | 1.5 | ANNUAL | New Development | RP_G34 |
| 646630 | 4078283 | 0.00107 | 151.56 | 1.5 | ANNUAL | New Development | RP_G35 |
| 646730 | 4078283 | 0.00117 | 156.78 | 1.5 | ANNUAL | New Development | RP_G36 |
| 646230 | 4077983 | 0.00057 | 139.18 | 1.5 | ANNUAL | New Development | RP_G4 |
| 646330 | 4077983 | 0.00062 | 140.76 | 1.5 | ANNUAL | New Development | RP_G5 |
| 646430 | 4077983 | 0.00066 | 143.89 | 1.5 | ANNUAL | New Development | RP_G6 |
| 646530 | 4077983 | 0.00072 | 145.22 | 1.5 | ANNUAL | New Development | RP_G7 |
| 646630 | 4077983 | 0.00077 | 147.21 | 1.5 | ANNUAL | New Development | RP_G8 |
| 646730 | 4077983 | 0.00084 | 148.3 | 1.5 | ANNUAL | New Development | RP_G9 |
| 648659 | 4077241 | 0.00638 | 205.79 | 1.5 | ANNUAL | House 1 | RP_H1 |
| 648071 | 4076116 | 0.00024 | 169.6 | 1.5 | ANNUAL | House 10 | RP_H10 |
| 648247 | 4076278 | 0.00029 | 184.55 | 1.5 | ANNUAL | House 11 | RP_H11 |
| 648027 | 4076255 | 0.00023 | 169.38 | 1.5 | ANNUAL | House 12 | RP_H12 |
| 648066 | 4076359 | 0.00024 | 173.83 | 1.5 | ANNUAL | House 13 | RP_H13 |

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* AERMET (19191): Future Flare SO2 (1.5m) 1-yr 2019

14:01:30

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|--------|
| 648139 | 4076400 | 0.00026 | 178.22 | 1.5 | ANNUAL | House 14 | RP_H14 |
| 648255 | 4076411 | 0.0003 | 191.28 | 1.5 | ANNUAL | House 15 | RP_H15 |
| 647878 | 4076365 | 0.00021 | 165.39 | 1.5 | ANNUAL | House 16 | RP_H16 |
| 647520 | 4076206 | 0.00017 | 159 | 1.5 | ANNUAL | House 17 | RP_H17 |
| 647921 | 4076247 | 0.00022 | 164 | 1.5 | ANNUAL | House 18 | RP_H18 |
| 647709 | 4076352 | 0.00019 | 163.52 | 1.5 | ANNUAL | House 19 | RP_H19 |
| 648372 | 4075470 | 0.00018 | 173.69 | 1.5 | ANNUAL | House 2 | RP_H2 |
| 647704 | 4076251 | 0.00019 | 162.17 | 1.5 | ANNUAL | House 20 | RP_H20 |
| 647719 | 4076104 | 0.00019 | 159.35 | 1.5 | ANNUAL | House 21 | RP_H21 |
| 647843 | 4076125 | 0.00021 | 163 | 1.5 | ANNUAL | House 22 | RP_H22 |
| 647842 | 4076500 | 0.00021 | 167.93 | 1.5 | ANNUAL | House 23 | RP_H23 |
| 647728 | 4076644 | 0.00021 | 164.15 | 1.5 | ANNUAL | House 24 | RP_H24 |
| 647824 | 4076644 | 0.00022 | 168.29 | 1.5 | ANNUAL | House 25 | RP_H25 |
| 647530 | 4076497 | 0.00017 | 159.56 | 1.5 | ANNUAL | House 26 | RP_H26 |
| 647810 | 4076854 | 0.00029 | 162.9 | 1.5 | ANNUAL | House 27 | RP_H27 |
| 647697 | 4076989 | 0.00034 | 161.42 | 1.5 | ANNUAL | House 28 | RP_H28 |
| 648226 | 4076182 | 0.00027 | 183.22 | 1.5 | ANNUAL | House 29 | RP_H29 |
| 647678 | 4075969 | 0.00019 | 159.5 | 1.5 | ANNUAL | House 3 | RP_H3 |
| 645876 | 4077487 | 0.00025 | 127.13 | 1.5 | ANNUAL | House 30 | RP_H30 |
| 650902 | 4076062 | 0.00309 | 215.24 | 1.5 | ANNUAL | House 31 | RP_H31 |
| 651490 | 4076597 | 0.00126 | 205.5 | 1.5 | ANNUAL | House 32 | RP_H32 |
| 651565 | 4077067 | 0.00085 | 213.93 | 1.5 | ANNUAL | House 33 | RP_H33 |
| 648673 | 4075307 | 0.0003 | 225.91 | 1.5 | ANNUAL | House 34 | RP_H34 |
| 648384 | 4075469 | 0.00018 | 174.44 | 1.5 | ANNUAL | House 35 | RP_H35 |
| 646379 | 4077233 | 0.00023 | 146 | 1.5 | ANNUAL | House 36 | RP_H36 |
| 651850 | 4075865 | 0.00188 | 201.97 | 1.5 | ANNUAL | House 37 | RP_H37 |
| 652045 | 4076210 | 0.00138 | 196.88 | 1.5 | ANNUAL | House 38 | RP_H38 |
| 652256 | 4076391 | 0.00115 | 197.06 | 1.5 | ANNUAL | House 39 | RP_H39 |
| 647815 | 4075985 | 0.0002 | 162.04 | 1.5 | ANNUAL | House 4 | RP_H4 |
| 646854 | 4077373 | 0.00036 | 145.99 | 1.5 | ANNUAL | House 40 | RP_H40 |
| 647050 | 4077360 | 0.00041 | 145 | 1.5 | ANNUAL | House 41 | RP_H41 |
| 647286 | 4077474 | 0.00065 | 149.68 | 1.5 | ANNUAL | House 42 | RP_H42 |

* AERMET (19191): Future Flare SO2 (1.5m) 1-yr 2019

14:01:30

- PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|--------|
| 647359 | 4077340 | 0.00053 | 154.45 | 1.5 | ANNUAL | House 43 | RP_H43 |
| 647490 | 4077329 | 0.00061 | 162.28 | 1.5 | ANNUAL | House 44 | RP_H44 |
| 647522 | 4077252 | 0.00053 | 164.3 | 1.5 | ANNUAL | House 45 | RP_H45 |
| 647518 | 4077139 | 0.0004 | 164.01 | 1.5 | ANNUAL | House 46 | RP_H46 |
| 646819 | 4077258 | 0.00029 | 151.53 | 1.5 | ANNUAL | House 47 | RP_H47 |
| 646779 | 4077128 | 0.00024 | 158.51 | 1.5 | ANNUAL | House 48 | RP_H48 |
| 646987 | 4077213 | 0.0003 | 146.44 | 1.5 | ANNUAL | House 49 | RP_H49 |
| 647898 | 4076033 | 0.00021 | 163.83 | 1.5 | ANNUAL | House 5 | RP_H5 |
| 647242 | 4077227 | 0.00037 | 154.85 | 1.5 | ANNUAL | House 50 | RP_H50 |
| 646773 | 4077063 | 0.00022 | 159 | 1.5 | ANNUAL | House 51 | RP_H51 |
| 647104 | 4077118 | 0.00028 | 148.99 | 1.5 | ANNUAL | House 52 | RP_H52 |
| 647292 | 4077123 | 0.00032 | 158.62 | 1.5 | ANNUAL | House 53 | RP_H53 |
| 646765 | 4076978 | 0.00019 | 158.67 | 1.5 | ANNUAL | House 54 | RP_H54 |
| 646996 | 4076984 | 0.00021 | 152.34 | 1.5 | ANNUAL | House 55 | RP_H55 |
| 647317 | 4077031 | 0.00027 | 160.22 | 1.5 | ANNUAL | House 56 | RP_H56 |
| 647398 | 4077013 | 0.00028 | 161.26 | 1.5 | ANNUAL | House 57 | RP_H57 |
| 646979 | 4076904 | 0.00019 | 156.81 | 1.5 | ANNUAL | House 58 | RP_H58 |
| 647015 | 4076807 | 0.00017 | 156.21 | 1.5 | ANNUAL | House 59 | RP_H59 |
| 648045 | 4076018 | 0.00023 | 168.26 | 1.5 | ANNUAL | House 6 | RP_H6 |
| 647164 | 4076802 | 0.00018 | 154.38 | 1.5 | ANNUAL | House 60 | RP_H60 |
| 647311 | 4076940 | 0.00024 | 162.49 | 1.5 | ANNUAL | House 61 | RP_H61 |
| 647298 | 4076805 | 0.00019 | 158 | 1.5 | ANNUAL | House 62 | RP_H62 |
| 647447 | 4076900 | 0.00024 | 159.45 | 1.5 | ANNUAL | House 63 | RP_H63 |
| 647464 | 4076781 | 0.0002 | 159.32 | 1.5 | ANNUAL | House 64 | RP_H64 |
| 647512 | 4076536 | 0.00017 | 159 | 1.5 | ANNUAL | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00014 | 179.58 | 1.5 | ANNUAL | House 66 | RP_H66 |
| 647131 | 4077336 | 0.00042 | 146.77 | 1.5 | ANNUAL | House 67 | RP_H67 |
| 646798 | 4076740 | 0.00015 | 156.07 | 1.5 | ANNUAL | House 68 | RP_H68 |
| 646900 | 4076802 | 0.00017 | 159 | 1.5 | ANNUAL | House 69 | RP_H69 |
| 648126 | 4075955 | 0.00023 | 171.51 | 1.5 | ANNUAL | House 7 | RP_H7 |
| 647317 | 4076662 | 0.00017 | 159.9 | 1.5 | ANNUAL | House 70 | RP_H70 |
| 648249 | 4075970 | 0.00025 | 183.42 | 1.5 | ANNUAL | House 8 | RP_H8 |

09/30/21

* AERMET (19191): Future Flare SO2 (1.5m) 1-yr 2019

14:01:30

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|-------|
| 648219 | 4076109 | 0.00026 | 182.28 | 1.5 | ANNUAL | House 9 | RP_H9 |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 3-hr 2019

14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.02832 | 123.85 | 1.5 | 3-HR | AQ Monitoring Station | AQ_ST_1 | |
| 643904 | 4077719 | 0.01237 | 105.68 | 1.5 | 3-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642057 | 4079416 | 0.01405 | 85.12 | 1.5 | 3-HR | Dunne Park | CR_PK_1 | |
| 642179 | 4079950 | 0.02192 | 117.99 | 1.5 | 3-HR | Vista Park Hill Park | CR_PK_2 | |
| 644733 | 4078753 | 0.02233 | 106.44 | 1.5 | 3-HR | Las Brisas Park | CR_PK_3 | |
| 645609 | 4078854 | 0.02458 | 112.86 | 1.5 | 3-HR | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238 | 4078807 | 0.02163 | 95.25 | 1.5 | 3-HR | Veterans Memorial Park | CR_PK_5 | |
| 645311 | 4076559 | 0.0129 | 134.61 | 1.5 | 3-HR | Park 6 | CR_PK_6 | |
| 649582 | 4073424 | 0.02976 | 159.96 | 1.5 | 3-HR | Park 7 | CR_PK_7 | |
| 645145 | 4077181 | 0.01362 | 133 | 1.5 | 3-HR | Cerra Vista Elem School | CR_SC_1 | |
| 642905 | 4079955 | 0.02311 | 86 | 1.5 | 3-HR | San Andreas Continuation | CR_SC_10 | |
| 645851 | 4074015 | 0.01889 | 123 | 1.5 | 3-HR | SouthSide School | CR_SC_11 | |
| 642106 | 4078176 | 0.01129 | 91 | 1.5 | 3-HR | School 12 | CR_SC_12 | |
| 646059 | 4078443 | 0.028 | 128.52 | 1.5 | 3-HR | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.04895 | 158 | 1.5 | 3-HR | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.02284 | 159 | 1.5 | 3-HR | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644110 | 4078389 | 0.01796 | 98.2 | 1.5 | 3-HR | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.01064 | 101.23 | 1.5 | 3-HR | Hollister Montessori School | CR_SC_3 | |
| 642961 | 4078621 | 0.01381 | 92 | 1.5 | 3-HR | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.02409 | 88 | 1.5 | 3-HR | Marguerite Maze Middle School | CR_SC_5 | |
| 641630 | 4079153 | 0.01213 | 85 | 1.5 | 3-HR | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.01063 | 98.22 | 1.5 | 3-HR | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.02073 | 87 | 1.5 | 3-HR | Gabilan Hills Elementary School | CR_SC_8 | |
| 642245 | 4078413 | 0.0111 | 90.17 | 1.5 | 3-HR | San Benito High School | CR_SC_9 | |
| 642083 | 4079794 | 0.01921 | 87.58 | 1.5 | 3-HR | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.01477 | 146.33 | 1.5 | 3-HR | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 0.08823 | 189.45 | 1.5 | 3-HR | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 0.04998 | 155.2 | 1.5 | 3-HR | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.03143 | 160 | 1.5 | 3-HR | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.09588 | 252.9 | 1.5 | 3-HR | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.04555 | 165.9 | 1.5 | 3-HR | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.05128 | 159.6 | 1.5 | 3-HR | Grid Receptor 12 | G12 | |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 3-hr 2019

14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 648144 | 4078373 | 0.0489 | 146.2 | 1.5 | 3-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.06503 | 158.3 | 1.5 | 3-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.07 | 166.6 | 1.5 | 3-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.06755 | 175.4 | 1.5 | 3-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.02259 | 177.1 | 1.5 | 3-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.03528 | 178 | 1.5 | 3-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.05681 | 173 | 1.5 | 3-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.05174 | 145.4 | 1.5 | 3-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.04175 | 168.8 | 1.5 | 3-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.06189 | 173.5 | 1.5 | 3-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.06573 | 166.2 | 1.5 | 3-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.06027 | 145.4 | 1.5 | 3-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.07443 | 173.9 | 1.5 | 3-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.0854 | 179.6 | 1.5 | 3-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.11348 | 191 | 1.5 | 3-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.075 | 209.2 | 1.5 | 3-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.05779 | 233.7 | 1.5 | 3-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.05242 | 199.9 | 1.5 | 3-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.05615 | 144.4 | 1.5 | 3-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.03277 | 195.5 | 1.5 | 3-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.04213 | 190.4 | 1.5 | 3-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.04991 | 165.4 | 1.5 | 3-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.06298 | 159.6 | 1.5 | 3-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.08513 | 183.5 | 1.5 | 3-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.15214 | 224 | 1.5 | 3-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.06067 | 205 | 1.5 | 3-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.04209 | 208.8 | 1.5 | 3-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.04771 | 134.6 | 1.5 | 3-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.04102 | 185.6 | 1.5 | 3-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.03639 | 187.4 | 1.5 | 3-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.03202 | 160.9 | 1.5 | 3-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.0408 | 200.5 | 1.5 | 3-HR | Grid Receptor 43 | G43 |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 3-hr 2019

14:01:30

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 649344 | 4077973 | 0.04855 | 229 | 1.5 | 3-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.1494 | 253.3 | 1.5 | 3-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.29722 | 220.2 | 1.5 | 3-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.16786 | 227.2 | 1.5 | 3-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.05386 | 163.8 | 1.5 | 3-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.11345 | 205.5 | 1.5 | 3-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.02711 | 176.1 | 1.5 | 3-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.02946 | 195 | 1.5 | 3-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.02764 | 196.1 | 1.5 | 3-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.02678 | 215.3 | 1.5 | 3-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.0459 | 221.6 | 1.5 | 3-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.20726 | 211.7 | 1.5 | 3-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.10918 | 237.7 | 1.5 | 3-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.04112 | 158.4 | 1.5 | 3-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.08206 | 204.2 | 1.5 | 3-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.03052 | 173 | 1.5 | 3-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.03068 | 171 | 1.5 | 3-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.02494 | 204.6 | 1.5 | 3-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.01804 | 216.5 | 1.5 | 3-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.14963 | 257.7 | 1.5 | 3-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.14317 | 231.4 | 1.5 | 3-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.16851 | 249.4 | 1.5 | 3-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.02078 | 164.7 | 1.5 | 3-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.06469 | 216.4 | 1.5 | 3-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.02576 | 177 | 1.5 | 3-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.01873 | 180.9 | 1.5 | 3-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.02344 | 196.6 | 1.5 | 3-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.04055 | 236.9 | 1.5 | 3-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.18025 | 261.3 | 1.5 | 3-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.19342 | 260.9 | 1.5 | 3-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.1 | 226.7 | 1.5 | 3-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.02319 | 164 | 1.5 | 3-HR | Grid Receptor 8 | G8 |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 3-hr 2019

14:01:30

- PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| 650944 4079173 0.01684 181.3 1.5 3-HR Grid Receptor 81 G81 650944 4078773 0.02525 178.4 1.5 3-HR Grid Receptor 82 G82 650944 4077873 0.04105 214.8 1.5 3-HR Grid Receptor 84 G84 650944 4077573 0.07935 249.9 1.5 3-HR Grid Receptor 85 G85 650944 4077573 0.20361 276.5 1.5 3-HR Grid Receptor 86 G86 650944 4076773 0.07107 225.6 1.5 3-HR Grid Receptor 87 G87 650944 4076773 0.08111 209.2 1.5 3-HR Grid Receptor 88 G88 650944 4075973 0.08425 216.6 1.5 3-HR Grid Receptor 89 G89 647744 4075973 0.06335 160.7 1.5 3-HR Grid Receptor 99 G9 651344 4078773 0.05369 181 1.5 | X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|---|--------|---------|--------------|--------|-------|------|-----------------------|-----|----|
| 650944 4078773 0.02525 178.4 1.5 3-HR Grid Receptor 82 G82 650944 4078373 0.04105 214.8 1.5 3-HR Grid Receptor 84 G84 650944 4077973 0.07935 249.9 1.5 3-HR Grid Receptor 84 G84 650944 4077173 0.07107 225.6 1.5 3-HR Grid Receptor 86 G86 650944 4077173 0.07136 219.8 1.5 3-HR Grid Receptor 86 G86 650944 4076773 0.07136 219.8 1.5 3-HR Grid Receptor 87 G87 650944 4075973 0.08425 216.6 1.5 3-HR Grid Receptor 88 G88 650944 4075973 0.06335 160.7 1.5 3-HR Grid Receptor 89 G89 647744 4075973 0.06335 160.7 1.5 3-HR Grid Receptor 90 G90 651344 407873 0.02223 191 1.5 | 650544 | 4075573 | 0.33829 | 268.2 | 1.5 | 3-HR | Grid Receptor 80 | G80 | PM |
| 650944 4078373 0.04105 214.8 1.5 3-HR Grid Receptor 83 G83 650944 4077973 0.07935 249.9 1.5 3-HR Grid Receptor 85 G85 650944 4077573 0.20361 276.5 1.5 3-HR Grid Receptor 85 G85 650944 407773 0.07107 225.6 1.5 3-HR Grid Receptor 86 G86 650944 4076373 0.08111 209.2 1.5 3-HR Grid Receptor 87 G87 650944 4076373 0.08111 209.2 1.5 3-HR Grid Receptor 89 G88 647744 4075973 0.06335 160.7 1.5 3-HR Grid Receptor 99 G9 650944 4075573 0.06544 243.2 1.5 3-HR Grid Receptor 90 G90 651344 4079173 0.02723 191 1.5 3-HR Grid Receptor 90 G90 651344 4078773 0.03569 181 1.5 <td>650944</td> <td>4079173</td> <td>0.01684</td> <td>181.3</td> <td>1.5</td> <td>3-HR</td> <td>Grid Receptor 81</td> <td>G81</td> <td></td> | 650944 | 4079173 | 0.01684 | 181.3 | 1.5 | 3-HR | Grid Receptor 81 | G81 | |
| 650944 4077973 0.07935 249.9 1.5 3-HR Grid Receptor 84 G84 650944 4077573 0.20361 276.5 1.5 3-HR Grid Receptor 85 G85 650944 4077173 0.07107 225.6 1.5 3-HR Grid Receptor 86 G86 650944 4076773 0.08111 209.2 1.5 3-HR Grid Receptor 87 G87 650944 4075973 0.08425 216.6 1.5 3-HR Grid Receptor 89 G89 647744 4075973 0.06335 160.7 1.5 3-HR Grid Receptor 99 G9 651344 4075573 0.06344 243.2 1.5 3-HR Grid Receptor 90 G90 651344 4078773 0.03569 181 1.5 3-HR Grid Receptor 90 G90 651344 4078773 0.03493 214.3 1.5 3-HR Grid Receptor 92 G92 651344 4078773 0.06169 248.4 1.5 | 650944 | 4078773 | 0.02525 | 178.4 | 1.5 | 3-HR | Grid Receptor 82 | G82 | |
| 650944 4077573 0.20361 276.5 1.5 3-HR Grid Receptor 85 G85 650944 4077173 0.07107 225.6 1.5 3-HR Grid Receptor 86 G86 650944 4076773 0.07136 219.8 1.5 3-HR Grid Receptor 87 G87 650944 4076373 0.08111 209.2 1.5 3-HR Grid Receptor 88 G88 650944 4075973 0.08425 216.6 1.5 3-HR Grid Receptor 99 G9 650944 4075973 0.06335 160.7 1.5 3-HR Grid Receptor 90 G9 650944 4075573 0.06544 243.2 1.5 3-HR Grid Receptor 90 G90 651344 4079173 0.03569 181 1.5 3-HR Grid Receptor 91 G91 651344 4078373 0.03493 214.3 1.5 3-HR Grid Receptor 93 G93 651344 4077573 0.06169 248.4 1.5< | 650944 | 4078373 | 0.04105 | 214.8 | 1.5 | 3-HR | Grid Receptor 83 | G83 | |
| 650944 4077173 0.07107 225.6 1.5 3-HR Grid Receptor 86 G86 650944 4076773 0.07136 219.8 1.5 3-HR Grid Receptor 87 G87 650944 4076373 0.08111 209.2 1.5 3-HR Grid Receptor 89 G88 650944 4075973 0.06335 160.7 1.5 3-HR Grid Receptor 89 G89 650944 4075573 0.06544 243.2 1.5 3-HR Grid Receptor 90 G9 651344 4079173 0.02723 191 1.5 3-HR Grid Receptor 90 G90 651344 4078773 0.03569 181 1.5 3-HR Grid Receptor 91 G91 651344 4078773 0.03569 181 1.5 3-HR Grid Receptor 92 G92 651344 4078773 0.06169 248.4 1.5 3-HR Grid Receptor 93 G93 651344 4077573 0.04366 213.2 1.5 <td>650944</td> <td>4077973</td> <td>0.07935</td> <td>249.9</td> <td>1.5</td> <td>3-HR</td> <td>Grid Receptor 84</td> <td>G84</td> <td></td> | 650944 | 4077973 | 0.07935 | 249.9 | 1.5 | 3-HR | Grid Receptor 84 | G84 | |
| 650944 4076773 0.07136 219.8 1.5 3-HR Grid Receptor 87 G87 650944 4076373 0.08111 209.2 1.5 3-HR Grid Receptor 88 G88 650944 4075973 0.08425 216.6 1.5 3-HR Grid Receptor 99 G9 650944 4075973 0.06335 160.7 1.5 3-HR Grid Receptor 90 G9 650944 4075573 0.06544 243.2 1.5 3-HR Grid Receptor 90 G90 651344 4079173 0.02723 191 1.5 3-HR Grid Receptor 91 G91 651344 4078773 0.03569 181 1.5 3-HR Grid Receptor 92 G92 651344 4078373 0.03493 214.3 1.5 3-HR Grid Receptor 93 G93 651344 4077973 0.04366 213.2 1.5 3-HR Grid Receptor 94 G94 651344 4076773 0.05916 203.5 1.5 <td>650944</td> <td>4077573</td> <td>0.20361</td> <td>276.5</td> <td>1.5</td> <td>3-HR</td> <td>Grid Receptor 85</td> <td>G85</td> <td></td> | 650944 | 4077573 | 0.20361 | 276.5 | 1.5 | 3-HR | Grid Receptor 85 | G85 | |
| 650944 4076373 0.08111 209.2 1.5 3-HR Grid Receptor 88 G88 650944 4075973 0.08425 216.6 1.5 3-HR Grid Receptor 89 G89 647744 4075973 0.06335 160.7 1.5 3-HR Grid Receptor 9 G9 650944 4075573 0.06544 243.2 1.5 3-HR Grid Receptor 90 G90 651344 4078773 0.03569 181 1.5 3-HR Grid Receptor 91 G91 651344 4078773 0.03569 181 1.5 3-HR Grid Receptor 92 G92 651344 4078773 0.03493 214.3 1.5 3-HR Grid Receptor 93 G93 651344 4077573 0.06169 248.4 1.5 3-HR Grid Receptor 94 G94 651344 4077573 0.04366 213.2 1.5 3-HR Grid Receptor 96 G95 651344 40777173 0.05576 213.6 1.5 </td <td>650944</td> <td>4077173</td> <td>0.07107</td> <td>225.6</td> <td>1.5</td> <td>3-HR</td> <td>Grid Receptor 86</td> <td>G86</td> <td></td> | 650944 | 4077173 | 0.07107 | 225.6 | 1.5 | 3-HR | Grid Receptor 86 | G86 | |
| 650944 4075973 0.08425 216.6 1.5 3-HR Grid Receptor 89 G89 647744 4075973 0.06335 160.7 1.5 3-HR Grid Receptor 9 G9 650944 4075573 0.06544 243.2 1.5 3-HR Grid Receptor 90 G90 651344 4079173 0.02723 191 1.5 3-HR Grid Receptor 91 G91 651344 4078773 0.03569 181 1.5 3-HR Grid Receptor 92 G92 651344 4078373 0.03493 214.3 1.5 3-HR Grid Receptor 93 G93 651344 4077973 0.06169 248.4 1.5 3-HR Grid Receptor 94 G94 651344 4077573 0.04366 213.2 1.5 3-HR Grid Receptor 95 G95 651344 4076773 0.05916 203.5 1.5 3-HR Grid Receptor 96 G96 651344 4076373 0.06445 205.6 1.5 <td>650944</td> <td>4076773</td> <td>0.07136</td> <td>219.8</td> <td>1.5</td> <td>3-HR</td> <td>Grid Receptor 87</td> <td>G87</td> <td></td> | 650944 | 4076773 | 0.07136 | 219.8 | 1.5 | 3-HR | Grid Receptor 87 | G87 | |
| 647744 4075973 0.06335 160.7 1.5 3-HR Grid Receptor 9 G9 650944 4075573 0.06544 243.2 1.5 3-HR Grid Receptor 90 G90 651344 4079173 0.02723 191 1.5 3-HR Grid Receptor 91 G91 651344 4078773 0.03569 181 1.5 3-HR Grid Receptor 92 G92 651344 4078373 0.03493 214.3 1.5 3-HR Grid Receptor 93 G93 651344 4077973 0.06169 248.4 1.5 3-HR Grid Receptor 94 G94 651344 4077573 0.04366 213.2 1.5 3-HR Grid Receptor 95 G95 651344 4076773 0.04566 213.6 1.5 3-HR Grid Receptor 96 G96 651344 4076773 0.05916 203.5 1.5 3-HR Grid Receptor 97 G97 651344 4076773 0.06445 205.6 1.5 <td>650944</td> <td>4076373</td> <td>0.08111</td> <td>209.2</td> <td>1.5</td> <td>3-HR</td> <td>Grid Receptor 88</td> <td>G88</td> <td></td> | 650944 | 4076373 | 0.08111 | 209.2 | 1.5 | 3-HR | Grid Receptor 88 | G88 | |
| 650944 4075573 0.06544 243.2 1.5 3-HR Grid Receptor 90 G90 651344 4079173 0.02723 191 1.5 3-HR Grid Receptor 91 G91 651344 4078773 0.03569 181 1.5 3-HR Grid Receptor 92 G92 651344 4078373 0.03493 214.3 1.5 3-HR Grid Receptor 93 G93 651344 4077973 0.06169 248.4 1.5 3-HR Grid Receptor 94 G94 651344 4077573 0.04366 213.2 1.5 3-HR Grid Receptor 95 G95 651344 4077173 0.05576 213.6 1.5 3-HR Grid Receptor 96 G96 651344 4076773 0.05916 203.5 1.5 3-HR Grid Receptor 97 G97 651344 4076373 0.06445 205.6 1.5 3-HR Grid Receptor 98 G98 651344 4075973 0.06742 205.8 1.5< | 650944 | 4075973 | 0.08425 | 216.6 | 1.5 | 3-HR | Grid Receptor 89 | G89 | |
| 651344 4079173 0.02723 191 1.5 3-HR Grid Receptor 91 G91 651344 4078773 0.03569 181 1.5 3-HR Grid Receptor 92 G92 651344 4078373 0.03493 214.3 1.5 3-HR Grid Receptor 94 G94 651344 4077973 0.06169 248.4 1.5 3-HR Grid Receptor 95 G95 651344 4077573 0.04366 213.2 1.5 3-HR Grid Receptor 95 G95 651344 4077173 0.05576 213.6 1.5 3-HR Grid Receptor 96 G96 651344 4076773 0.05916 203.5 1.5 3-HR Grid Receptor 97 G97 651344 4076373 0.06445 205.6 1.5 3-HR Grid Receptor 98 G98 651344 4075973 0.06742 205.8 1.5 3-HR Boundary Perimeter 1 P1 6494884 4077537 0.16876 254.01 <td< td=""><td>647744</td><td>4075973</td><td>0.06335</td><td>160.7</td><td>1.5</td><td>3-HR</td><td>Grid Receptor 9</td><td>G9</td><td></td></td<> | 647744 | 4075973 | 0.06335 | 160.7 | 1.5 | 3-HR | Grid Receptor 9 | G9 | |
| 651344 4078773 0.03569 181 1.5 3-HR Grid Receptor 92 G92 651344 4078373 0.03493 214.3 1.5 3-HR Grid Receptor 93 G93 651344 4077973 0.06169 248.4 1.5 3-HR Grid Receptor 94 G94 651344 4077573 0.04366 213.2 1.5 3-HR Grid Receptor 95 G95 651344 4077173 0.05576 213.6 1.5 3-HR Grid Receptor 96 G96 651344 4076773 0.05916 203.5 1.5 3-HR Grid Receptor 97 G97 651344 4076373 0.06445 205.6 1.5 3-HR Grid Receptor 98 G98 651344 4076373 0.06742 205.8 1.5 3-HR Grid Receptor 99 G99 648584 4077523 0.09238 183.61 1.5 3-HR Boundary Perimeter 1 P1 649584 4077537 0.16876 254.01 < | 650944 | 4075573 | 0.06544 | 243.2 | 1.5 | 3-HR | Grid Receptor 90 | G90 | |
| 651344 4078373 0.03493 214.3 1.5 3-HR Grid Receptor 93 G93 651344 4077973 0.06169 248.4 1.5 3-HR Grid Receptor 94 G94 651344 4077573 0.04366 213.2 1.5 3-HR Grid Receptor 95 G95 651344 4077173 0.05576 213.6 1.5 3-HR Grid Receptor 96 G96 651344 4076773 0.05916 203.5 1.5 3-HR Grid Receptor 97 G97 651344 4076373 0.06445 205.6 1.5 3-HR Grid Receptor 98 G98 651344 4076373 0.06742 205.8 1.5 3-HR Grid Receptor 98 G98 651344 4075973 0.06742 205.8 1.5 3-HR Boundary Perimeter 1 P1 649584 4077537 0.16876 254.01 1.5 3-HR Boundary Perimeter 10 P10 649584 4077540 0.05217 221.29 | 651344 | 4079173 | 0.02723 | 191 | 1.5 | 3-HR | Grid Receptor 91 | G91 | |
| 651344 4077973 0.06169 248.4 1.5 3-HR Grid Receptor 94 G94 651344 4077573 0.04366 213.2 1.5 3-HR Grid Receptor 95 G95 651344 4077173 0.05576 213.6 1.5 3-HR Grid Receptor 96 G96 651344 4076773 0.05916 203.5 1.5 3-HR Grid Receptor 97 G97 651344 4076373 0.06445 205.6 1.5 3-HR Grid Receptor 98 G98 651344 4075973 0.06742 205.8 1.5 3-HR Grid Receptor 99 G99 648584 4077523 0.09238 183.61 1.5 3-HR Boundary Perimeter 1 P1 649484 4077537 0.16876 254.01 1.5 3-HR Boundary Perimeter 10 P10 649584 4077540 0.05217 221.29 1.5 3-HR Boundary Perimeter 12 P12 649784 4077541 0.0368 222.37 </td <td>651344</td> <td>4078773</td> <td>0.03569</td> <td>181</td> <td>1.5</td> <td>3-HR</td> <td>Grid Receptor 92</td> <td>G92</td> <td></td> | 651344 | 4078773 | 0.03569 | 181 | 1.5 | 3-HR | Grid Receptor 92 | G92 | |
| 651344 4077573 0.04366 213.2 1.5 3-HR Grid Receptor 95 G95 651344 4077173 0.05576 213.6 1.5 3-HR Grid Receptor 96 G96 651344 4076773 0.05916 203.5 1.5 3-HR Grid Receptor 97 G97 651344 4076373 0.06445 205.6 1.5 3-HR Grid Receptor 98 G98 651344 4075973 0.06742 205.8 1.5 3-HR Grid Receptor 99 G99 648584 4077523 0.09238 183.61 1.5 3-HR Boundary Perimeter 1 P1 649484 4077537 0.16876 254.01 1.5 3-HR Boundary Perimeter 10 P10 649584 4077539 0.03707 235.3 1.5 3-HR Boundary Perimeter 11 P11 649684 4077540 0.05217 221.29 1.5 3-HR Boundary Perimeter 12 P12 649784 4077541 0.0368 222 | 651344 | 4078373 | 0.03493 | 214.3 | 1.5 | 3-HR | Grid Receptor 93 | G93 | |
| 651344 4077173 0.05576 213.6 1.5 3-HR Grid Receptor 96 G96 651344 4076773 0.05916 203.5 1.5 3-HR Grid Receptor 97 G97 651344 4076373 0.06445 205.6 1.5 3-HR Grid Receptor 98 G98 651344 4075973 0.06742 205.8 1.5 3-HR Grid Receptor 99 G99 648584 4077523 0.09238 183.61 1.5 3-HR Boundary Perimeter 1 P1 649484 4077537 0.16876 254.01 1.5 3-HR Boundary Perimeter 10 P10 649584 4077539 0.03707 235.3 1.5 3-HR Boundary Perimeter 11 P11 649684 4077540 0.05217 221.29 1.5 3-HR Boundary Perimeter 12 P12 649784 4077541 0.0368 222.37 1.5 3-HR Boundary Perimeter 13 P13 649884 4077542 0.02458 < | 651344 | 4077973 | 0.06169 | 248.4 | 1.5 | 3-HR | Grid Receptor 94 | G94 | |
| 651344 4076773 0.05916 203.5 1.5 3-HR Grid Receptor 97 G97 651344 4076373 0.06445 205.6 1.5 3-HR Grid Receptor 98 G98 651344 4075973 0.06742 205.8 1.5 3-HR Grid Receptor 99 G99 648584 4077523 0.09238 183.61 1.5 3-HR Boundary Perimeter 1 P1 649484 4077537 0.16876 254.01 1.5 3-HR Boundary Perimeter 10 P10 649584 4077539 0.03707 235.3 1.5 3-HR Boundary Perimeter 11 P11 649684 4077540 0.05217 221.29 1.5 3-HR Boundary Perimeter 12 P12 649784 4077541 0.0368 222.37 1.5 3-HR Boundary Perimeter 13 P13 649884 4077542 0.02458 233.6 1.5 3-HR Boundary Perimeter 14 P14 649984 4077543 0.08841 | 651344 | 4077573 | 0.04366 | 213.2 | 1.5 | 3-HR | Grid Receptor 95 | G95 | |
| 651344 4076373 0.06445 205.6 1.5 3-HR Grid Receptor 98 G98 651344 4075973 0.06742 205.8 1.5 3-HR Grid Receptor 99 G99 648584 4077523 0.09238 183.61 1.5 3-HR Boundary Perimeter 1 P1 649484 4077537 0.16876 254.01 1.5 3-HR Boundary Perimeter 10 P10 649584 4077539 0.03707 235.3 1.5 3-HR Boundary Perimeter 11 P11 649684 4077540 0.05217 221.29 1.5 3-HR Boundary Perimeter 12 P12 649784 4077541 0.0368 222.37 1.5 3-HR Boundary Perimeter 13 P13 649884 4077542 0.02458 233.6 1.5 3-HR Boundary Perimeter 14 P14 649984 4077543 0.08841 249.54 1.5 3-HR Boundary Perimeter 15 P15 650084 4077546 0.18344 <td>651344</td> <td>4077173</td> <td>0.05576</td> <td>213.6</td> <td>1.5</td> <td>3-HR</td> <td>Grid Receptor 96</td> <td>G96</td> <td></td> | 651344 | 4077173 | 0.05576 | 213.6 | 1.5 | 3-HR | Grid Receptor 96 | G96 | |
| 651344 4075973 0.06742 205.8 1.5 3-HR Grid Receptor 99 G99 648584 4077523 0.09238 183.61 1.5 3-HR Boundary Perimeter 1 P1 649484 4077537 0.16876 254.01 1.5 3-HR Boundary Perimeter 10 P10 649584 4077539 0.03707 235.3 1.5 3-HR Boundary Perimeter 11 P11 649684 4077540 0.05217 221.29 1.5 3-HR Boundary Perimeter 12 P12 649784 4077541 0.0368 222.37 1.5 3-HR Boundary Perimeter 13 P13 649884 4077542 0.02458 233.6 1.5 3-HR Boundary Perimeter 14 P14 649984 4077543 0.08841 249.54 1.5 3-HR Boundary Perimeter 15 P15 650084 4077548 0.18344 258.89 1.5 3-HR Boundary Perimeter 16 P16 650184 4077550 0.133 | 651344 | 4076773 | 0.05916 | 203.5 | 1.5 | 3-HR | Grid Receptor 97 | G97 | |
| 648584 4077523 0.09238 183.61 1.5 3-HR Boundary Perimeter 1 P1 649484 4077537 0.16876 254.01 1.5 3-HR Boundary Perimeter 10 P10 649584 4077539 0.03707 235.3 1.5 3-HR Boundary Perimeter 11 P11 649684 4077540 0.05217 221.29 1.5 3-HR Boundary Perimeter 12 P12 649784 4077541 0.0368 222.37 1.5 3-HR Boundary Perimeter 13 P13 649884 4077542 0.02458 233.6 1.5 3-HR Boundary Perimeter 14 P14 649984 4077543 0.08841 249.54 1.5 3-HR Boundary Perimeter 15 P15 650084 4077546 0.18344 258.89 1.5 3-HR Boundary Perimeter 16 P16 650184 4077550 0.13338 256.77 1.5 3-HR Boundary Perimeter 18 P18 | 651344 | 4076373 | 0.06445 | 205.6 | 1.5 | 3-HR | Grid Receptor 98 | G98 | |
| 649484 4077537 0.16876 254.01 1.5 3-HR Boundary Perimeter 10 P10 649584 4077539 0.03707 235.3 1.5 3-HR Boundary Perimeter 11 P11 649684 4077540 0.05217 221.29 1.5 3-HR Boundary Perimeter 12 P12 649784 4077541 0.0368 222.37 1.5 3-HR Boundary Perimeter 13 P13 649884 4077542 0.02458 233.6 1.5 3-HR Boundary Perimeter 14 P14 649984 4077543 0.08841 249.54 1.5 3-HR Boundary Perimeter 15 P15 650084 4077546 0.18344 258.89 1.5 3-HR Boundary Perimeter 16 P16 650184 4077548 0.1758 259.56 1.5 3-HR Boundary Perimeter 17 P17 650284 4077550 0.13338 256.77 1.5 3-HR Boundary Perimeter 18 P18 | 651344 | 4075973 | 0.06742 | 205.8 | 1.5 | 3-HR | Grid Receptor 99 | G99 | |
| 649584 4077539 0.03707 235.3 1.5 3-HR Boundary Perimeter 11 P11 649684 4077540 0.05217 221.29 1.5 3-HR Boundary Perimeter 12 P12 649784 4077541 0.0368 222.37 1.5 3-HR Boundary Perimeter 13 P13 649884 4077542 0.02458 233.6 1.5 3-HR Boundary Perimeter 14 P14 649984 4077543 0.08841 249.54 1.5 3-HR Boundary Perimeter 15 P15 650084 4077546 0.18344 258.89 1.5 3-HR Boundary Perimeter 16 P16 650184 4077548 0.1758 259.56 1.5 3-HR Boundary Perimeter 17 P17 650284 4077550 0.13338 256.77 1.5 3-HR Boundary Perimeter 18 P18 | 648584 | 4077523 | 0.09238 | 183.61 | 1.5 | 3-HR | Boundary Perimeter 1 | P1 | |
| 649684 4077540 0.05217 221.29 1.5 3-HR Boundary Perimeter 12 P12 649784 4077541 0.0368 222.37 1.5 3-HR Boundary Perimeter 13 P13 649884 4077542 0.02458 233.6 1.5 3-HR Boundary Perimeter 14 P14 649984 4077543 0.08841 249.54 1.5 3-HR Boundary Perimeter 15 P15 650084 4077546 0.18344 258.89 1.5 3-HR Boundary Perimeter 16 P16 650184 4077548 0.1758 259.56 1.5 3-HR Boundary Perimeter 17 P17 650284 4077550 0.13338 256.77 1.5 3-HR Boundary Perimeter 18 P18 | 649484 | 4077537 | 0.16876 | 254.01 | 1.5 | 3-HR | | P10 | |
| 649784 4077541 0.0368 222.37 1.5 3-HR Boundary Perimeter 13 P13 649884 4077542 0.02458 233.6 1.5 3-HR Boundary Perimeter 14 P14 649984 4077543 0.08841 249.54 1.5 3-HR Boundary Perimeter 15 P15 650084 4077546 0.18344 258.89 1.5 3-HR Boundary Perimeter 16 P16 650184 4077548 0.1758 259.56 1.5 3-HR Boundary Perimeter 17 P17 650284 4077550 0.13338 256.77 1.5 3-HR Boundary Perimeter 18 P18 | 649584 | 4077539 | 0.03707 | 235.3 | 1.5 | 3-HR | Boundary Perimeter 11 | P11 | |
| 649884 4077542 0.02458 233.6 1.5 3-HR Boundary Perimeter 14 P14 649984 4077543 0.08841 249.54 1.5 3-HR Boundary Perimeter 15 P15 650084 4077546 0.18344 258.89 1.5 3-HR Boundary Perimeter 16 P16 650184 4077548 0.1758 259.56 1.5 3-HR Boundary Perimeter 17 P17 650284 4077550 0.13338 256.77 1.5 3-HR Boundary Perimeter 18 P18 | 649684 | 4077540 | 0.05217 | 221.29 | 1.5 | 3-HR | Boundary Perimeter 12 | P12 | |
| 649984 4077543 0.08841 249.54 1.5 3-HR Boundary Perimeter 15 P15 650084 4077546 0.18344 258.89 1.5 3-HR Boundary Perimeter 16 P16 650184 4077548 0.1758 259.56 1.5 3-HR Boundary Perimeter 17 P17 650284 4077550 0.13338 256.77 1.5 3-HR Boundary Perimeter 18 P18 | 649784 | 4077541 | | | | | <u>•</u> | | |
| 650084 4077546 0.18344 258.89 1.5 3-HR Boundary Perimeter 16 P16 650184 4077548 0.1758 259.56 1.5 3-HR Boundary Perimeter 17 P17 650284 4077550 0.13338 256.77 1.5 3-HR Boundary Perimeter 18 P18 | 649884 | 4077542 | | | 1.5 | | | | |
| 650184 4077548 0.1758 259.56 1.5 3-HR Boundary Perimeter 17 P17 650284 4077550 0.13338 256.77 1.5 3-HR Boundary Perimeter 18 P18 | 649984 | 4077543 | 0.08841 | 249.54 | 1.5 | 3-HR | Boundary Perimeter 15 | P15 | |
| 650284 4077550 0.13338 256.77 1.5 3-HR Boundary Perimeter 18 P18 | 650084 | 4077546 | | | | | <u> </u> | | |
| • | 650184 | 4077548 | 0.1758 | 259.56 | 1.5 | 3-HR | <u>*</u> | P17 | |
| 650384 4077552 0.04477 242.37 1.5 3-HR Boundary Perimeter 19 P19 | 650284 | 4077550 | 0.13338 | 256.77 | 1.5 | 3-HR | • | | |
| | 650384 | 4077552 | 0.04477 | 242.37 | 1.5 | 3-HR | Boundary Perimeter 19 | P19 | |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 3-hr 2019

14:01:30

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|-----|
| 648684 | 4077525 | 0.11421 | 197.16 | 1.5 | 3-HR | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.04124 | 242.23 | 1.5 | 3-HR | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.16303 | 259.71 | 1.5 | 3-HR | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.15268 | 257.58 | 1.5 | 3-HR | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.19302 | 267.9 | 1.5 | 3-HR | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.18923 | 275.91 | 1.5 | 3-HR | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.18151 | 265.73 | 1.5 | 3-HR | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.08011 | 251.08 | 1.5 | 3-HR | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.09522 | 252.83 | 1.5 | 3-HR | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.07652 | 246.1 | 1.5 | 3-HR | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.07239 | 241.37 | 1.5 | 3-HR | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.14857 | 209.74 | 1.5 | 3-HR | Boundary Perimeter 3 | Р3 |
| 650791 | 4076854 | 0.0797 | 246.79 | 1.5 | 3-HR | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.07544 | 228.75 | 1.5 | 3-HR | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.06926 | 217.76 | 1.5 | 3-HR | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.06949 | 221.2 | 1.5 | 3-HR | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.07044 | 220.83 | 1.5 | 3-HR | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.07343 | 223.42 | 1.5 | 3-HR | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.07588 | 222.46 | 1.5 | 3-HR | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.0767 | 223.19 | 1.5 | 3-HR | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.08841 | 222.1 | 1.5 | 3-HR | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.10094 | 217.03 | 1.5 | 3-HR | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.14842 | 214.25 | 1.5 | 3-HR | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.10873 | 214.82 | 1.5 | 3-HR | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.1551 | 214.91 | 1.5 | 3-HR | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.14295 | 214.09 | 1.5 | 3-HR | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.24589 | 211.53 | 1.5 | 3-HR | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.22563 | 210.17 | 1.5 | 3-HR | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.24558 | 208.52 | 1.5 | 3-HR | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.30311 | 207.5 | 1.5 | 3-HR | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.28361 | 205.17 | 1.5 | 3-HR | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.10454 | 202.16 | 1.5 | 3-HR | Boundary Perimeter 48 | P48 |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 3-hr 2019

14:01:30

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|--------|
| 649226 | 4076535 | 0.0564 | 196.38 | 1.5 | 3-HR | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.15099 | 221.41 | 1.5 | 3-HR | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.17907 | 195.87 | 1.5 | 3-HR | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.17195 | 196.32 | 1.5 | 3-HR | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.17517 | 192.42 | 1.5 | 3-HR | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.17988 | 192.46 | 1.5 | 3-HR | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.15247 | 191.63 | 1.5 | 3-HR | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.12324 | 186.32 | 1.5 | 3-HR | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.10806 | 179.81 | 1.5 | 3-HR | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.1001 | 176.23 | 1.5 | 3-HR | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.10986 | 175.02 | 1.5 | 3-HR | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.14909 | 180.62 | 1.5 | 3-HR | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.0959 | 216.54 | 1.5 | 3-HR | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.13666 | 183.47 | 1.5 | 3-HR | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.16328 | 202.88 | 1.5 | 3-HR | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.12546 | 178.21 | 1.5 | 3-HR | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.11114 | 176.25 | 1.5 | 3-HR | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.10232 | 176 | 1.5 | 3-HR | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.10296 | 175.24 | 1.5 | 3-HR | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.10122 | 175.13 | 1.5 | 3-HR | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.06685 | 230.71 | 1.5 | 3-HR | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.11483 | 248.08 | 1.5 | 3-HR | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.21676 | 258.43 | 1.5 | 3-HR | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.03088 | 127.38 | 1.5 | 3-HR | New Development | RP_G1 |
| 645930 | 4078083 | 0.03127 | 127.58 | 1.5 | 3-HR | New Development | RP_G10 |
| 646030 | 4078083 | 0.03135 | 130.56 | 1.5 | 3-HR | New Development | RP_G11 |
| 646130 | 4078083 | 0.03087 | 134.35 | 1.5 | 3-HR | New Development | RP_G12 |
| 646230 | 4078083 | 0.02979 | 139.22 | 1.5 | 3-HR | New Development | RP_G13 |
| 646330 | 4078083 | 0.02854 | 144.65 | 1.5 | 3-HR | New Development | RP_G14 |
| 646430 | 4078083 | 0.03057 | 142.28 | 1.5 | 3-HR | New Development | RP_G15 |
| 646530 | 4078083 | 0.03214 | 146.76 | 1.5 | 3-HR | New Development | RP_G16 |
| 646630 | 4078083 | 0.03299 | 150.64 | 1.5 | 3-HR | New Development | RP_G17 |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 3-hr 2019

14:01:30

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------|--------|
| 646730 | 4078083 | 0.03296 | 155.4 | 1.5 | 3-HR | New Development | RP_G18 |
| 645930 | 4078183 | 0.02932 | 127.22 | 1.5 | 3-HR | New Development | RP_G19 |
| 646030 | 4077983 | 0.03208 | 131.21 | 1.5 | 3-HR | New Development | RP_G2 |
| 646030 | 4078183 | 0.02834 | 130.56 | 1.5 | 3-HR | New Development | RP_G20 |
| 646130 | 4078183 | 0.0269 | 133.89 | 1.5 | 3-HR | New Development | RP_G21 |
| 646230 | 4078183 | 0.02886 | 140.45 | 1.5 | 3-HR | New Development | RP_G22 |
| 646330 | 4078183 | 0.03044 | 146.94 | 1.5 | 3-HR | New Development | RP_G23 |
| 646430 | 4078183 | 0.0313 | 140.23 | 1.5 | 3-HR | New Development | RP_G24 |
| 646530 | 4078183 | 0.03156 | 147.25 | 1.5 | 3-HR | New Development | RP_G25 |
| 646630 | 4078183 | 0.03093 | 151.56 | 1.5 | 3-HR | New Development | RP_G26 |
| 646730 | 4078183 | 0.03338 | 157.78 | 1.5 | 3-HR | New Development | RP_G27 |
| 645930 | 4078283 | 0.02562 | 126.06 | 1.5 | 3-HR | New Development | RP_G28 |
| 646030 | 4078283 | 0.0272 | 129.56 | 1.5 | 3-HR | New Development | RP_G29 |
| 646130 | 4077983 | 0.03282 | 135.89 | 1.5 | 3-HR | New Development | RP_G3 |
| 646130 | 4078283 | 0.02869 | 132.89 | 1.5 | 3-HR | New Development | RP_G30 |
| 646230 | 4078283 | 0.02973 | 139.24 | 1.5 | 3-HR | New Development | RP_G31 |
| 646330 | 4078283 | 0.03017 | 142.68 | 1.5 | 3-HR | New Development | RP_G32 |
| 646430 | 4078283 | 0.02982 | 140.02 | 1.5 | 3-HR | New Development | RP_G33 |
| 646530 | 4078283 | 0.03114 | 147.22 | 1.5 | 3-HR | New Development | RP_G34 |
| 646630 | 4078283 | 0.03316 | 151.56 | 1.5 | 3-HR | New Development | RP_G35 |
| 646730 | 4078283 | 0.03422 | 156.78 | 1.5 | 3-HR | New Development | RP_G36 |
| 646230 | 4077983 | 0.03299 | 139.18 | 1.5 | 3-HR | New Development | RP_G4 |
| 646330 | 4077983 | 0.03249 | 140.76 | 1.5 | 3-HR | New Development | RP_G5 |
| 646430 | 4077983 | 0.03128 | 143.89 | 1.5 | 3-HR | New Development | RP_G6 |
| 646530 | 4077983 | 0.03022 | 145.22 | 1.5 | 3-HR | New Development | RP_G7 |
| 646630 | 4077983 | 0.03241 | 147.21 | 1.5 | 3-HR | New Development | RP_G8 |
| 646730 | 4077983 | 0.03393 | 148.3 | 1.5 | 3-HR | New Development | RP_G9 |
| 648659 | 4077241 | 0.1613 | 205.79 | 1.5 | 3-HR | House 1 | RP_H1 |
| 648071 | 4076116 | 0.06569 | 169.6 | 1.5 | 3-HR | House 10 | RP_H10 |
| 648247 | 4076278 | 0.05726 | 184.55 | 1.5 | 3-HR | House 11 | RP_H11 |
| 648027 | 4076255 | 0.05049 | 169.38 | 1.5 | 3-HR | House 12 | RP_H12 |
| 648066 | 4076359 | 0.03485 | 173.83 | 1.5 | 3-HR | House 13 | RP_H13 |

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09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 3-hr 2019

14:01:30

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 648139 | 4076400 | 0.03026 | 178.22 | 1.5 | 3-HR | House 14 | RP_H14 |
| 648255 | 4076411 | 0.03294 | 191.28 | 1.5 | 3-HR | House 15 | RP_H15 |
| 647878 | 4076365 | 0.02761 | 165.39 | 1.5 | 3-HR | House 16 | RP_H16 |
| 647520 | 4076206 | 0.03698 | 159 | 1.5 | 3-HR | House 17 | RP_H17 |
| 647921 | 4076247 | 0.04687 | 164 | 1.5 | 3-HR | House 18 | RP_H18 |
| 647709 | 4076352 | 0.02495 | 163.52 | 1.5 | 3-HR | House 19 | RP_H19 |
| 648372 | 4075470 | 0.03374 | 173.69 | 1.5 | 3-HR | House 2 | RP_H2 |
| 647704 | 4076251 | 0.03796 | 162.17 | 1.5 | 3-HR | House 20 | RP_H20 |
| 647719 | 4076104 | 0.05586 | 159.35 | 1.5 | 3-HR | House 21 | RP_H21 |
| 647843 | 4076125 | 0.05878 | 163 | 1.5 | 3-HR | House 22 | RP_H22 |
| 647842 | 4076500 | 0.02395 | 167.93 | 1.5 | 3-HR | House 23 | RP_H23 |
| 647728 | 4076644 | 0.02252 | 164.15 | 1.5 | 3-HR | House 24 | RP_H24 |
| 647824 | 4076644 | 0.02333 | 168.29 | 1.5 | 3-HR | House 25 | RP_H25 |
| 647530 | 4076497 | 0.02152 | 159.56 | 1.5 | 3-HR | House 26 | RP_H26 |
| 647810 | 4076854 | 0.0252 | 162.9 | 1.5 | 3-HR | House 27 | RP_H27 |
| 647697 | 4076989 | 0.03622 | 161.42 | 1.5 | 3-HR | House 28 | RP_H28 |
| 648226 | 4076182 | 0.06709 | 183.22 | 1.5 | 3-HR | House 29 | RP_H29 |
| 647678 | 4075969 | 0.06233 | 159.5 | 1.5 | 3-HR | House 3 | RP_H3 |
| 645876 | 4077487 | 0.02234 | 127.13 | 1.5 | 3-HR | House 30 | RP_H30 |
| 650902 | 4076062 | 0.08778 | 215.24 | 1.5 | 3-HR | House 31 | RP_H31 |
| 651490 | 4076597 | 0.0491 | 205.5 | 1.5 | 3-HR | House 32 | RP_H32 |
| 651565 | 4077067 | 0.0546 | 213.93 | 1.5 | 3-HR | House 33 | RP_H33 |
| 648673 | 4075307 | 0.07093 | 225.91 | 1.5 | 3-HR | House 34 | RP_H34 |
| 648384 | 4075469 | 0.03319 | 174.44 | 1.5 | 3-HR | House 35 | RP_H35 |
| 646379 | 4077233 | 0.01924 | 146 | 1.5 | 3-HR | House 36 | RP_H36 |
| 651850 | 4075865 | 0.05062 | 201.97 | 1.5 | 3-HR | House 37 | RP_H37 |
| 652045 | 4076210 | 0.04425 | 196.88 | 1.5 | 3-HR | House 38 | RP_H38 |
| 652256 | 4076391 | 0.03872 | 197.06 | 1.5 | 3-HR | House 39 | RP_H39 |
| 647815 | 4075985 | 0.06413 | 162.04 | 1.5 | 3-HR | House 4 | RP_H4 |
| 646854 | 4077373 | 0.03671 | 145.99 | 1.5 | 3-HR | House 40 | RP_H40 |
| 647050 | 4077360 | 0.03879 | 145 | 1.5 | 3-HR | House 41 | RP_H41 |
| 647286 | 4077474 | 0.04091 | 149.68 | 1.5 | 3-HR | House 42 | RP_H42 |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 3-hr 2019

14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 647359 | 4077340 | 0.03822 | 154.45 | 1.5 | 3-HR | House 43 | RP_H43 |
| 647490 | 4077329 | 0.04101 | 162.28 | 1.5 | 3-HR | House 44 | RP_H44 |
| 647522 | 4077252 | 0.04087 | 164.3 | 1.5 | 3-HR | House 45 | RP_H45 |
| 647518 | 4077139 | 0.04307 | 164.01 | 1.5 | 3-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.03151 | 151.53 | 1.5 | 3-HR | House 47 | RP_H47 |
| 646779 | 4077128 | 0.021 | 158.51 | 1.5 | 3-HR | House 48 | RP_H48 |
| 646987 | 4077213 | 0.03321 | 146.44 | 1.5 | 3-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.0649 | 163.83 | 1.5 | 3-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.04039 | 154.85 | 1.5 | 3-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.0202 | 159 | 1.5 | 3-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.02925 | 148.99 | 1.5 | 3-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.03586 | 158.62 | 1.5 | 3-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.0189 | 158.67 | 1.5 | 3-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.02104 | 152.34 | 1.5 | 3-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.0276 | 160.22 | 1.5 | 3-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.02838 | 161.26 | 1.5 | 3-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.01894 | 156.81 | 1.5 | 3-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.01646 | 156.21 | 1.5 | 3-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.0643 | 168.26 | 1.5 | 3-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.01697 | 154.38 | 1.5 | 3-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.02315 | 162.49 | 1.5 | 3-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.01809 | 158 | 1.5 | 3-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.02348 | 159.45 | 1.5 | 3-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.01844 | 159.32 | 1.5 | 3-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.02155 | 159 | 1.5 | 3-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.0321 | 179.58 | 1.5 | 3-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.03956 | 146.77 | 1.5 | 3-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.01661 | 156.07 | 1.5 | 3-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.01615 | 159 | 1.5 | 3-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.05546 | 171.51 | 1.5 | 3-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.01978 | 159.9 | 1.5 | 3-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.05039 | 183.42 | 1.5 | 3-HR | House 8 | RP_H8 |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 3-hr 2019

14:01:30

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|-------|
| 648219 | 4076109 | 0.06736 | 182.28 | 1.5 | 3-HR | House 9 | RP_H9 |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 24-hr 2019

14:01:30

- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|-------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.00806 | 123.85 | 1.5 | 24-HR | AQ Monitoring Station | AQ_ST_1 | |
| 643904 | 4077719 | 0.00238 | 105.68 | 1.5 | 24-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642057 | 4079416 | 0.00367 | 85.12 | 1.5 | 24-HR | Dunne Park | CR_PK_1 | |
| 642179 | 4079950 | 0.00428 | 117.99 | 1.5 | 24-HR | Vista Park Hill Park | CR_PK_2 | |
| 644733 | 4078753 | 0.00671 | 106.44 | 1.5 | 24-HR | Las Brisas Park | CR_PK_3 | |
| 645609 | 4078854 | 0.0073 | 112.86 | 1.5 | 24-HR | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238 | 4078807 | 0.00617 | 95.25 | 1.5 | 24-HR | Veterans Memorial Park | CR_PK_5 | |
| 645311 | 4076559 | 0.00163 | 134.61 | 1.5 | 24-HR | Park 6 | CR_PK_6 | |
| 649582 | 4073424 | 0.00749 | 159.96 | 1.5 | 24-HR | Park 7 | CR_PK_7 | |
| 645145 | 4077181 | 0.00202 | 133 | 1.5 | 24-HR | Cerra Vista Elem School | CR_SC_1 | |
| 642905 | 4079955 | 0.00409 | 86 | 1.5 | 24-HR | San Andreas Continuation | CR_SC_10 | |
| 645851 | 4074015 | 0.00237 | 123 | 1.5 | 24-HR | SouthSide School | CR_SC_11 | |
| 642106 | 4078176 | 0.0022 | 91 | 1.5 | 24-HR | School 12 | CR_SC_12 | |
| 646059 | 4078443 | 0.00801 | 128.52 | 1.5 | 24-HR | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.00616 | 158 | 1.5 | 24-HR | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.00397 | 159 | 1.5 | 24-HR | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644110 | 4078389 | 0.00454 | 98.2 | 1.5 | 24-HR | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.00214 | 101.23 | 1.5 | 24-HR | Hollister Montessori School | CR_SC_3 | |
| 642961 | 4078621 | 0.00343 | 92 | 1.5 | 24-HR | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.00506 | 88 | 1.5 | 24-HR | Marguerite Maze Middle School | CR_SC_5 | |
| 641630 | 4079153 | 0.00299 | 85 | 1.5 | 24-HR | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.00195 | 98.22 | 1.5 | 24-HR | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.00562 | 87 | 1.5 | 24-HR | Gabilan Hills Elementary School | CR_SC_8 | |
| 642245 | 4078413 | 0.00242 | 90.17 | 1.5 | 24-HR | San Benito High School | CR_SC_9 | |
| 642083 | 4079794 | 0.00424 | 87.58 | 1.5 | 24-HR | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.00224 | 146.33 | 1.5 | 24-HR | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 0.01771 | 189.45 | 1.5 | 24-HR | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 0.01482 | 155.2 | 1.5 | 24-HR | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.00397 | 160 | 1.5 | 24-HR | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.02427 | 252.9 | 1.5 | 24-HR | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.01249 | 165.9 | 1.5 | 24-HR | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.01906 | 159.6 | 1.5 | 24-HR | Grid Receptor 12 | G12 | |

09/30/21

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14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|-------|------------------|-----|
| 648144 | 4078373 | 0.02173 | 146.2 | 1.5 | 24-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.02751 | 158.3 | 1.5 | 24-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.02137 | 166.6 | 1.5 | 24-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.0201 | 175.4 | 1.5 | 24-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.00488 | 177.1 | 1.5 | 24-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.00486 | 178 | 1.5 | 24-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.00719 | 173 | 1.5 | 24-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.01631 | 145.4 | 1.5 | 24-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.00527 | 168.8 | 1.5 | 24-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.00944 | 173.5 | 1.5 | 24-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.01364 | 166.2 | 1.5 | 24-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.01815 | 145.4 | 1.5 | 24-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.03505 | 173.9 | 1.5 | 24-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.04606 | 179.6 | 1.5 | 24-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.03603 | 191 | 1.5 | 24-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.01404 | 209.2 | 1.5 | 24-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.00898 | 233.7 | 1.5 | 24-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.00666 | 199.9 | 1.5 | 24-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.0185 | 144.4 | 1.5 | 24-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.00417 | 195.5 | 1.5 | 24-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.00641 | 190.4 | 1.5 | 24-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.00741 | 165.4 | 1.5 | 24-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.0091 | 159.6 | 1.5 | 24-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.0163 | 183.5 | 1.5 | 24-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.04559 | 224 | 1.5 | 24-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.00827 | 205 | 1.5 | 24-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.00791 | 208.8 | 1.5 | 24-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.01673 | 134.6 | 1.5 | 24-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00864 | 185.6 | 1.5 | 24-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00519 | 187.4 | 1.5 | 24-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.00541 | 160.9 | 1.5 | 24-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.0069 | 200.5 | 1.5 | 24-HR | Grid Receptor 43 | G43 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|-------|------------------|-----|
| 649344 | 4077973 | 0.00821 | 229 | 1.5 | 24-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.03089 | 253.3 | 1.5 | 24-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.09905 | 220.2 | 1.5 | 24-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.03972 | 227.2 | 1.5 | 24-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.01818 | 163.8 | 1.5 | 24-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.02225 | 205.5 | 1.5 | 24-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.00384 | 176.1 | 1.5 | 24-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00414 | 195 | 1.5 | 24-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00408 | 196.1 | 1.5 | 24-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.00438 | 215.3 | 1.5 | 24-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.00632 | 221.6 | 1.5 | 24-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.08778 | 211.7 | 1.5 | 24-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.05371 | 237.7 | 1.5 | 24-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.01134 | 158.4 | 1.5 | 24-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.02973 | 204.2 | 1.5 | 24-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.00385 | 173 | 1.5 | 24-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.00387 | 171 | 1.5 | 24-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00317 | 204.6 | 1.5 | 24-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.0023 | 216.5 | 1.5 | 24-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.02937 | 257.7 | 1.5 | 24-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.06202 | 231.4 | 1.5 | 24-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.04471 | 249.4 | 1.5 | 24-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.00317 | 164.7 | 1.5 | 24-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.02486 | 216.4 | 1.5 | 24-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00326 | 177 | 1.5 | 24-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00241 | 180.9 | 1.5 | 24-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00296 | 196.6 | 1.5 | 24-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.0051 | 236.9 | 1.5 | 24-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.02301 | 261.3 | 1.5 | 24-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.0451 | 260.9 | 1.5 | 24-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.03284 | 226.7 | 1.5 | 24-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.00324 | 164 | 1.5 | 24-HR | Grid Receptor 8 | G8 |

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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-----------------------|-----|
| 650544 | 4075573 | 0.06565 | 268.2 | 1.5 | 24-HR | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.0024 | 181.3 | 1.5 | 24-HR | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00318 | 178.4 | 1.5 | 24-HR | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00515 | 214.8 | 1.5 | 24-HR | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.01032 | 249.9 | 1.5 | 24-HR | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.02551 | 276.5 | 1.5 | 24-HR | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.01298 | 225.6 | 1.5 | 24-HR | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.02371 | 219.8 | 1.5 | 24-HR | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.03437 | 209.2 | 1.5 | 24-HR | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.02676 | 216.6 | 1.5 | 24-HR | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.008 | 160.7 | 1.5 | 24-HR | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.02226 | 243.2 | 1.5 | 24-HR | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00342 | 191 | 1.5 | 24-HR | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00448 | 181 | 1.5 | 24-HR | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.00439 | 214.3 | 1.5 | 24-HR | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.00839 | 248.4 | 1.5 | 24-HR | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.00808 | 213.2 | 1.5 | 24-HR | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.01439 | 213.6 | 1.5 | 24-HR | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.01878 | 203.5 | 1.5 | 24-HR | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.02671 | 205.6 | 1.5 | 24-HR | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.02401 | 205.8 | 1.5 | 24-HR | Grid Receptor 99 | G99 |
| 648584 | 4077523 | 0.05013 | 183.61 | 1.5 | 24-HR | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 0.02359 | 254.01 | 1.5 | 24-HR | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.00908 | 235.3 | 1.5 | 24-HR | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.0075 | 221.29 | 1.5 | 24-HR | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00494 | 222.37 | 1.5 | 24-HR | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.00341 | 233.6 | 1.5 | 24-HR | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.01638 | 249.54 | 1.5 | 24-HR | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 0.03008 | 258.89 | 1.5 | 24-HR | Boundary Perimeter 16 | P16 |
| 650184 | 4077548 | 0.0292 | 259.56 | 1.5 | 24-HR | Boundary Perimeter 17 | P17 |
| 650284 | 4077550 | 0.01724 | 256.77 | 1.5 | 24-HR | Boundary Perimeter 18 | P18 |
| 650384 | 4077552 | 0.00639 | 242.37 | 1.5 | 24-HR | Boundary Perimeter 19 | P19 |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 24-hr 2019

14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|-------|-----------------------|-----|----|
| 648684 | 4077525 | 0.06189 | 197.16 | 1.5 | 24-HR | Boundary Perimeter 2 | P2 | |
| 650484 | 4077554 | 0.00791 | 242.23 | 1.5 | 24-HR | Boundary Perimeter 20 | P20 | |
| 650584 | 4077557 | 0.02109 | 259.71 | 1.5 | 24-HR | Boundary Perimeter 21 | P21 | |
| 650684 | 4077559 | 0.01986 | 257.58 | 1.5 | 24-HR | Boundary Perimeter 22 | P22 | 1 |
| 650777 | 4077554 | 0.02446 | 267.9 | 1.5 | 24-HR | Boundary Perimeter 23 | P23 | |
| 650779 | 4077454 | 0.02372 | 275.91 | 1.5 | 24-HR | Boundary Perimeter 24 | P24 | 1 |
| 650781 | 4077354 | 0.02405 | 265.73 | 1.5 | 24-HR | Boundary Perimeter 25 | P25 | |
| 650783 | 4077254 | 0.01382 | 251.08 | 1.5 | 24-HR | Boundary Perimeter 26 | P26 | 1 |
| 650785 | 4077154 | 0.01434 | 252.83 | 1.5 | 24-HR | Boundary Perimeter 27 | P27 | |
| 650787 | 4077054 | 0.01754 | 246.1 | 1.5 | 24-HR | Boundary Perimeter 28 | P28 | 1 |
| 650789 | 4076954 | 0.02188 | 241.37 | 1.5 | 24-HR | Boundary Perimeter 29 | P29 | |
| 648784 | 4077527 | 0.07641 | 209.74 | 1.5 | 24-HR | Boundary Perimeter 3 | Р3 | 1 |
| 650791 | 4076854 | 0.02737 | 246.79 | 1.5 | 24-HR | Boundary Perimeter 30 | P30 | 1 |
| 650794 | 4076754 | 0.02569 | 228.75 | 1.5 | 24-HR | Boundary Perimeter 31 | P31 | 1 |
| 650754 | 4076683 | 0.02358 | 217.76 | 1.5 | 24-HR | Boundary Perimeter 32 | P32 | |
| 650660 | 4076650 | 0.02318 | 221.2 | 1.5 | 24-HR | Boundary Perimeter 33 | P33 | 1 |
| 650561 | 4076650 | 0.025 | 220.83 | 1.5 | 24-HR | Boundary Perimeter 34 | P34 | |
| 650463 | 4076666 | 0.02818 | 223.42 | 1.5 | 24-HR | Boundary Perimeter 35 | P35 | 1 |
| 650364 | 4076682 | 0.03134 | 222.46 | 1.5 | 24-HR | Boundary Perimeter 36 | P36 | |
| 650264 | 4076683 | 0.03414 | 223.19 | 1.5 | 24-HR | Boundary Perimeter 37 | P37 | 1 |
| 650165 | 4076674 | 0.03651 | 222.1 | 1.5 | 24-HR | Boundary Perimeter 38 | P38 | |
| 650066 | 4076660 | 0.0386 | 217.03 | 1.5 | 24-HR | Boundary Perimeter 39 | P39 | 1 |
| 648884 | 4077529 | 0.06335 | 214.25 | 1.5 | 24-HR | Boundary Perimeter 4 | P4 | 1 |
| 649980 | 4076627 | 0.04074 | 214.82 | 1.5 | 24-HR | Boundary Perimeter 40 | P40 | 1 |
| 649920 | 4076547 | 0.04011 | 214.91 | 1.5 | 24-HR | Boundary Perimeter 41 | P41 | 1 |
| 649852 | 4076474 | 0.07251 | 214.09 | 1.5 | 24-HR | Boundary Perimeter 42 | P42 | 1 |
| 649771 | 4076417 | 0.09594 | 211.53 | 1.5 | 24-HR | Boundary Perimeter 43 | P43 | |
| 649680 | 4076375 | 0.09483 | 210.17 | 1.5 | 24-HR | Boundary Perimeter 44 | P44 | 1 |
| 649581 | 4076368 | 0.09426 | 208.52 | 1.5 | 24-HR | Boundary Perimeter 45 | P45 | |
| 649482 | 4076384 | 0.11472 | 207.5 | 1.5 | 24-HR | Boundary Perimeter 46 | P46 | P1 |
| 649392 | 4076425 | 0.09605 | 205.17 | 1.5 | 24-HR | Boundary Perimeter 47 | P47 | |
| 649304 | 4076472 | 0.01371 | 202.16 | 1.5 | 24-HR | Boundary Perimeter 48 | P48 | 1 |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 24-hr 2019

14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-----------------------|--------|
| 649226 | 4076535 | 0.00945 | 196.38 | 1.5 | 24-HR | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.04395 | 221.41 | 1.5 | 24-HR | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.02682 | 195.87 | 1.5 | 24-HR | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.04146 | 196.32 | 1.5 | 24-HR | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.04403 | 192.42 | 1.5 | 24-HR | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.04581 | 192.46 | 1.5 | 24-HR | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.04788 | 191.63 | 1.5 | 24-HR | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.04649 | 186.32 | 1.5 | 24-HR | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.04276 | 179.81 | 1.5 | 24-HR | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.03863 | 176.23 | 1.5 | 24-HR | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.03949 | 175.02 | 1.5 | 24-HR | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.04663 | 180.62 | 1.5 | 24-HR | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.02097 | 216.54 | 1.5 | 24-HR | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.07464 | 183.47 | 1.5 | 24-HR | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.08749 | 202.88 | 1.5 | 24-HR | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.07031 | 178.21 | 1.5 | 24-HR | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.06075 | 176.25 | 1.5 | 24-HR | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.05327 | 176 | 1.5 | 24-HR | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.04587 | 175.24 | 1.5 | 24-HR | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.0525 | 175.13 | 1.5 | 24-HR | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.01062 | 230.71 | 1.5 | 24-HR | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.02156 | 248.08 | 1.5 | 24-HR | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.0508 | 258.43 | 1.5 | 24-HR | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.00836 | 127.38 | 1.5 | 24-HR | New Development | RP_G1 |
| 645930 | 4078083 | 0.00872 | 127.58 | 1.5 | 24-HR | New Development | RP_G10 |
| 646030 | 4078083 | 0.00891 | 130.56 | 1.5 | 24-HR | New Development | RP_G11 |
| 646130 | 4078083 | 0.009 | 134.35 | 1.5 | 24-HR | New Development | RP_G12 |
| 646230 | 4078083 | 0.009 | 139.22 | 1.5 | 24-HR | New Development | RP_G13 |
| 646330 | 4078083 | 0.00889 | 144.65 | 1.5 | 24-HR | New Development | RP_G14 |
| 646430 | 4078083 | 0.00867 | 142.28 | 1.5 | 24-HR | New Development | RP_G15 |
| 646530 | 4078083 | 0.00866 | 146.76 | 1.5 | 24-HR | New Development | RP_G16 |
| 646630 | 4078083 | 0.0095 | 150.64 | 1.5 | 24-HR | New Development | RP_G17 |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 24-hr 2019

14:01:30

- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|-------|-----------------|--------|---|
| 646730 | 4078083 | 0.0103 | 155.4 | 1.5 | 24-HR | New Development | RP_G18 | |
| 645930 | 4078183 | 0.00861 | 127.22 | 1.5 | 24-HR | New Development | RP_G19 | 1 |
| 646030 | 4077983 | 0.00875 | 131.21 | 1.5 | 24-HR | New Development | RP_G2 | |
| 646030 | 4078183 | 0.0086 | 130.56 | 1.5 | 24-HR | New Development | RP_G20 | 1 |
| 646130 | 4078183 | 0.0085 | 133.89 | 1.5 | 24-HR | New Development | RP_G21 | |
| 646230 | 4078183 | 0.00832 | 140.45 | 1.5 | 24-HR | New Development | RP_G22 | 1 |
| 646330 | 4078183 | 0.0081 | 146.94 | 1.5 | 24-HR | New Development | RP_G23 | 1 |
| 646430 | 4078183 | 0.00871 | 140.23 | 1.5 | 24-HR | New Development | RP_G24 |] |
| 646530 | 4078183 | 0.00944 | 147.25 | 1.5 | 24-HR | New Development | RP_G25 | |
| 646630 | 4078183 | 0.01009 | 151.56 | 1.5 | 24-HR | New Development | RP_G26 | |
| 646730 | 4078183 | 0.01069 | 157.78 | 1.5 | 24-HR | New Development | RP_G27 | |
| 645930 | 4078283 | 0.00813 | 126.06 | 1.5 | 24-HR | New Development | RP_G28 |] |
| 646030 | 4078283 | 0.00797 | 129.56 | 1.5 | 24-HR | New Development | RP_G29 | |
| 646130 | 4077983 | 0.00907 | 135.89 | 1.5 | 24-HR | New Development | RP_G3 |] |
| 646130 | 4078283 | 0.00774 | 132.89 | 1.5 | 24-HR | New Development | RP_G30 | |
| 646230 | 4078283 | 0.0081 | 139.24 | 1.5 | 24-HR | New Development | RP_G31 |] |
| 646330 | 4078283 | 0.00873 | 142.68 | 1.5 | 24-HR | New Development | RP_G32 | |
| 646430 | 4078283 | 0.00925 | 140.02 | 1.5 | 24-HR | New Development | RP_G33 |] |
| 646530 | 4078283 | 0.00978 | 147.22 | 1.5 | 24-HR | New Development | RP_G34 | |
| 646630 | 4078283 | 0.01021 | 151.56 | 1.5 | 24-HR | New Development | RP_G35 | |
| 646730 | 4078283 | 0.01058 | 156.78 | 1.5 | 24-HR | New Development | RP_G36 | |
| 646230 | 4077983 | 0.0093 | 139.18 | 1.5 | 24-HR | New Development | RP_G4 | |
| 646330 | 4077983 | 0.00941 | 140.76 | 1.5 | 24-HR | New Development | RP_G5 | |
| 646430 | 4077983 | 0.0094 | 143.89 | 1.5 | 24-HR | New Development | RP_G6 | |
| 646530 | 4077983 | 0.00927 | 145.22 | 1.5 | 24-HR | New Development | RP_G7 | |
| 646630 | 4077983 | 0.00903 | 147.21 | 1.5 | 24-HR | New Development | RP_G8 | |
| 646730 | 4077983 | 0.0094 | 148.3 | 1.5 | 24-HR | New Development | RP_G9 | |
| 648659 | 4077241 | 0.07178 | 205.79 | 1.5 | 24-HR | House 1 | RP_H1 | N |
| 648071 | 4076116 | 0.00835 | 169.6 | 1.5 | 24-HR | House 10 | RP_H10 | |
| 648247 | 4076278 | 0.00746 | 184.55 | 1.5 | 24-HR | House 11 | RP_H11 | |
| 648027 | 4076255 | 0.00655 | 169.38 | 1.5 | 24-HR | House 12 | RP_H12 | |
| 648066 | 4076359 | 0.00475 | 173.83 | 1.5 | 24-HR | House 13 | RP_H13 |] |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 24-hr 2019

14:01:30

- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|--------|
| 648139 | 4076400 | 0.00429 | 178.22 | 1.5 | 24-HR | House 14 | RP_H14 |
| 648255 | 4076411 | 0.00472 | 191.28 | 1.5 | 24-HR | House 15 | RP_H15 |
| 647878 | 4076365 | 0.00381 | 165.39 | 1.5 | 24-HR | House 16 | RP_H16 |
| 647520 | 4076206 | 0.00479 | 159 | 1.5 | 24-HR | House 17 | RP_H17 |
| 647921 | 4076247 | 0.00608 | 164 | 1.5 | 24-HR | House 18 | RP_H18 |
| 647709 | 4076352 | 0.00343 | 163.52 | 1.5 | 24-HR | House 19 | RP_H19 |
| 648372 | 4075470 | 0.00427 | 173.69 | 1.5 | 24-HR | House 2 | RP_H2 |
| 647704 | 4076251 | 0.00496 | 162.17 | 1.5 | 24-HR | House 20 | RP_H20 |
| 647719 | 4076104 | 0.00711 | 159.35 | 1.5 | 24-HR | House 21 | RP_H21 |
| 647843 | 4076125 | 0.00748 | 163 | 1.5 | 24-HR | House 22 | RP_H22 |
| 647842 | 4076500 | 0.00305 | 167.93 | 1.5 | 24-HR | House 23 | RP_H23 |
| 647728 | 4076644 | 0.00286 | 164.15 | 1.5 | 24-HR | House 24 | RP_H24 |
| 647824 | 4076644 | 0.00297 | 168.29 | 1.5 | 24-HR | House 25 | RP_H25 |
| 647530 | 4076497 | 0.00273 | 159.56 | 1.5 | 24-HR | House 26 | RP_H26 |
| 647810 | 4076854 | 0.00489 | 162.9 | 1.5 | 24-HR | House 27 | RP_H27 |
| 647697 | 4076989 | 0.00867 | 161.42 | 1.5 | 24-HR | House 28 | RP_H28 |
| 648226 | 4076182 | 0.00857 | 183.22 | 1.5 | 24-HR | House 29 | RP_H29 |
| 647678 | 4075969 | 0.00787 | 159.5 | 1.5 | 24-HR | House 3 | RP_H3 |
| 645876 | 4077487 | 0.00519 | 127.13 | 1.5 | 24-HR | House 30 | RP_H30 |
| 650902 | 4076062 | 0.03114 | 215.24 | 1.5 | 24-HR | House 31 | RP_H31 |
| 651490 | 4076597 | 0.01652 | 205.5 | 1.5 | 24-HR | House 32 | RP_H32 |
| 651565 | 4077067 | 0.01704 | 213.93 | 1.5 | 24-HR | House 33 | RP_H33 |
| 648673 | 4075307 | 0.0116 | 225.91 | 1.5 | 24-HR | House 34 | RP_H34 |
| 648384 | 4075469 | 0.0042 | 174.44 | 1.5 | 24-HR | House 35 | RP_H35 |
| 646379 | 4077233 | 0.00432 | 146 | 1.5 | 24-HR | House 36 | RP_H36 |
| 651850 | 4075865 | 0.01896 | 201.97 | 1.5 | 24-HR | House 37 | RP_H37 |
| 652045 | 4076210 | 0.01872 | 196.88 | 1.5 | 24-HR | House 38 | RP_H38 |
| 652256 | 4076391 | 0.01563 | 197.06 | 1.5 | 24-HR | House 39 | RP_H39 |
| 647815 | 4075985 | 0.0081 | 162.04 | 1.5 | 24-HR | House 4 | RP_H4 |
| 646854 | 4077373 | 0.00895 | 145.99 | 1.5 | 24-HR | House 40 | RP_H40 |
| 647050 | 4077360 | 0.00975 | 145 | 1.5 | 24-HR | House 41 | RP_H41 |
| 647286 | 4077474 | 0.01095 | 149.68 | 1.5 | 24-HR | House 42 | RP_H42 |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 24-hr 2019

14:01:30

- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|--------|
| 647359 | 4077340 | 0.01036 | 154.45 | 1.5 | 24-HR | House 43 | RP_H43 |
| 647490 | 4077329 | 0.01051 | 162.28 | 1.5 | 24-HR | House 44 | RP_H44 |
| 647522 | 4077252 | 0.01102 | 164.3 | 1.5 | 24-HR | House 45 | RP_H45 |
| 647518 | 4077139 | 0.01059 | 164.01 | 1.5 | 24-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.00736 | 151.53 | 1.5 | 24-HR | House 47 | RP_H47 |
| 646779 | 4077128 | 0.00472 | 158.51 | 1.5 | 24-HR | House 48 | RP_H48 |
| 646987 | 4077213 | 0.00775 | 146.44 | 1.5 | 24-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.00821 | 163.83 | 1.5 | 24-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.00979 | 154.85 | 1.5 | 24-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.0035 | 159 | 1.5 | 24-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.00669 | 148.99 | 1.5 | 24-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.0084 | 158.62 | 1.5 | 24-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.00289 | 158.67 | 1.5 | 24-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.0031 | 152.34 | 1.5 | 24-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.00628 | 160.22 | 1.5 | 24-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.00649 | 161.26 | 1.5 | 24-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.00287 | 156.81 | 1.5 | 24-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.00257 | 156.21 | 1.5 | 24-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.00813 | 168.26 | 1.5 | 24-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.00269 | 154.38 | 1.5 | 24-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.00384 | 162.49 | 1.5 | 24-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.00284 | 158 | 1.5 | 24-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.00363 | 159.45 | 1.5 | 24-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.00291 | 159.32 | 1.5 | 24-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.00273 | 159 | 1.5 | 24-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00403 | 179.58 | 1.5 | 24-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.00997 | 146.77 | 1.5 | 24-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.00213 | 156.07 | 1.5 | 24-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.00246 | 159 | 1.5 | 24-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.00702 | 171.51 | 1.5 | 24-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.00251 | 159.9 | 1.5 | 24-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.00639 | 183.42 | 1.5 | 24-HR | House 8 | RP_H8 |

09/30/21

* AERMET (19191): Future Flare (1.5m) SO2 24-hr 2019

14:01:30

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|-------|
| 648219 | 4076109 | 0.00855 | 182.28 | 1.5 | 24-HR | House 9 | RP_H9 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 1-hr 2020

14:01:41

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| | ID | Description | AVE | ZFLAG | ZELEV | AVERAGE CONC | Y | X |
|----------|----------|------------------------------------|------|-------|--------|--------------|---------|--------|
| | AQ_ST_1 | AQ Monitoring Station | 1-HR | 1.5 | 123.85 | 0.06541 | 4078698 | 645996 |
| 1 | CR_HP_1 | Hazel Hawkins Memorial Hospital | 1-HR | 1.5 | 105.68 | 0.05948 | 4077719 | 643904 |
| Ī | CR_PK_1 | Dunne Park | 1-HR | 1.5 | 85.12 | 0.0335 | 4079416 | 642057 |
| 1 | CR_PK_2 | Vista Park Hill Park | 1-HR | 1.5 | 117.99 | 0.06257 | 4079950 | 642179 |
| Ī | CR_PK_3 | Las Brisas Park | 1-HR | 1.5 | 106.44 | 0.08263 | 4078753 | 644733 |
| 1 | CR_PK_4 | Frank Klauer Memorial Park | 1-HR | 1.5 | 112.86 | 0.06225 | 4078854 | 645609 |
| Ī | CR_PK_5 | Veterans Memorial Park | 1-HR | 1.5 | 95.25 | 0.06779 | 4078807 | 644238 |
| 1 | CR_PK_6 | Park 6 | 1-HR | 1.5 | 134.61 | 0.04503 | 4076559 | 645311 |
| | CR_PK_7 | Park 7 | 1-HR | 1.5 | 159.96 | 0.07365 | 4073424 | 649582 |
| | CR_SC_1 | Cerra Vista Elem School | 1-HR | 1.5 | 133 | 0.06415 | 4077181 | 645145 |
| | CR_SC_10 | San Andreas Continuation | 1-HR | 1.5 | 86 | 0.06458 | 4079955 | 642905 |
|] | CR_SC_11 | SouthSide School | 1-HR | 1.5 | 123 | 0.06302 | 4074015 | 645851 |
| | CR_SC_12 | School 12 | 1-HR | 1.5 | 91 | 0.04731 | 4078176 | 642106 |
| School | CR_SC_13 | Rancho Santana School | 1-HR | 1.5 | 128.52 | 0.08654 | 4078443 | 646059 |
| School 2 | CR_SC_14 | Future School | 1-HR | 1.5 | 158 | 0.04748 | 4075575 | 647269 |
|] | CR_SC_15 | Tres Pinos Union Elementary School | 1-HR | 1.5 | 159 | 0.04476 | 4074106 | 648466 |
| | CR_SC_2 | Sunnyslope Elem School | 1-HR | 1.5 | 98.2 | 0.03843 | 4078389 | 644110 |
|] | CR_SC_3 | Hollister Montessori School | 1-HR | 1.5 | 101.23 | 0.04653 | 4077304 | 643920 |
| | CR_SC_4 | Rancho San Justo Middle School | 1-HR | 1.5 | 92 | 0.03787 | 4078621 | 642961 |
|] | CR_SC_5 | Marguerite Maze Middle School | 1-HR | 1.5 | 88 | 0.05356 | 4079743 | 643980 |
| | CR_SC_6 | Hollister Prep Schoo | 1-HR | 1.5 | 85 | 0.03385 | 4079153 | 641630 |
|] | CR_SC_7 | Ladd Lane Elementary School | 1-HR | 1.5 | 98.22 | 0.03327 | 4077181 | 643350 |
| | CR_SC_8 | Gabilan Hills Elementary School | 1-HR | 1.5 | 87 | 0.04742 | 4080079 | 644003 |
|] | CR_SC_9 | San Benito High School | 1-HR | 1.5 | 90.17 | 0.04583 | 4078413 | 642245 |
| | CR_SR_1 | Jovenes De Antano | 1-HR | 1.5 | 87.58 | 0.05255 | 4079794 | 642083 |
|] | CR_WP_1 | Workplace | 1-HR | 1.5 | 146.33 | 0.07272 | 4076879 | 646402 |
| MEIW | CR_WP_2 | Nearest Workplace | 1-HR | 1.5 | 189.45 | 0.0753 | 4077938 | 648949 |
| | G1 | Grid Receptor 1 | 1-HR | 1.5 | 155.2 | 0.1126 | 4079173 | 647744 |
| | G10 | Grid Receptor 10 | 1-HR | 1.5 | 160 | 0.05891 | 4075573 | 647744 |
| | G100 | Grid Receptor 100 | 1-HR | 1.5 | 252.9 | 0.24258 | 4075573 | 651344 |
| | G11 | Grid Receptor 11 | 1-HR | 1.5 | 165.9 | 0.10679 | 4079173 | 648144 |
| 1 | G12 | Grid Receptor 12 | 1-HR | 1.5 | 159.6 | 0.12833 | 4078773 | 648144 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 1-hr 2020

14:01:41

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 648144 | 4078373 | 0.11604 | 146.2 | 1.5 | 1-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.07426 | 158.3 | 1.5 | 1-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.08324 | 166.6 | 1.5 | 1-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.11205 | 175.4 | 1.5 | 1-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.13862 | 177.1 | 1.5 | 1-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.0735 | 178 | 1.5 | 1-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.06492 | 173 | 1.5 | 1-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.09769 | 145.4 | 1.5 | 1-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.12864 | 168.8 | 1.5 | 1-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.06082 | 173.5 | 1.5 | 1-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.07027 | 166.2 | 1.5 | 1-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.10503 | 145.4 | 1.5 | 1-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.14248 | 173.9 | 1.5 | 1-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.10232 | 179.6 | 1.5 | 1-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.13711 | 191 | 1.5 | 1-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.15444 | 209.2 | 1.5 | 1-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.08864 | 233.7 | 1.5 | 1-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.10903 | 199.9 | 1.5 | 1-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.06088 | 144.4 | 1.5 | 1-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.16694 | 195.5 | 1.5 | 1-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.11408 | 190.4 | 1.5 | 1-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.1022 | 165.4 | 1.5 | 1-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.08779 | 159.6 | 1.5 | 1-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.06968 | 183.5 | 1.5 | 1-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.12205 | 224 | 1.5 | 1-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.11794 | 205 | 1.5 | 1-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.26082 | 208.8 | 1.5 | 1-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.05909 | 134.6 | 1.5 | 1-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.04676 | 185.6 | 1.5 | 1-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.06817 | 187.4 | 1.5 | 1-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.06368 | 160.9 | 1.5 | 1-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.07286 | 200.5 | 1.5 | 1-HR | Grid Receptor 43 | G43 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 1-hr 2020

14:01:41

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 649344 | 4077973 | 0.07945 | 229 | 1.5 | 1-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.50487 | 253.3 | 1.5 | 1-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.42322 | 220.2 | 1.5 | 1-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.13484 | 227.2 | 1.5 | 1-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.0904 | 163.8 | 1.5 | 1-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.09843 | 205.5 | 1.5 | 1-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.07379 | 176.1 | 1.5 | 1-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.08411 | 195 | 1.5 | 1-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.08427 | 196.1 | 1.5 | 1-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.07489 | 215.3 | 1.5 | 1-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.0499 | 221.6 | 1.5 | 1-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.28189 | 211.7 | 1.5 | 1-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.18503 | 237.7 | 1.5 | 1-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.09246 | 158.4 | 1.5 | 1-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.12718 | 204.2 | 1.5 | 1-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.08502 | 173 | 1.5 | 1-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.06551 | 171 | 1.5 | 1-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.05848 | 204.6 | 1.5 | 1-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.03617 | 216.5 | 1.5 | 1-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.49705 | 257.7 | 1.5 | 1-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.17114 | 231.4 | 1.5 | 1-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.3497 | 249.4 | 1.5 | 1-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.11842 | 164.7 | 1.5 | 1-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.1117 | 216.4 | 1.5 | 1-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.04944 | 177 | 1.5 | 1-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.03059 | 180.9 | 1.5 | 1-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.03575 | 196.6 | 1.5 | 1-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.05023 | 236.9 | 1.5 | 1-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.41051 | 261.3 | 1.5 | 1-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.62458 | 260.9 | 1.5 | 1-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.13491 | 226.7 | 1.5 | 1-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.06146 | 164 | 1.5 | 1-HR | Grid Receptor 8 | G8 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 1-hr 2020

14:01:41

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|-----|
| 650544 | 4075573 | 0.63213 | 268.2 | 1.5 | 1-HR | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.02871 | 181.3 | 1.5 | 1-HR | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.03287 | 178.4 | 1.5 | 1-HR | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.03605 | 214.8 | 1.5 | 1-HR | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.20284 | 249.9 | 1.5 | 1-HR | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.67034 | 276.5 | 1.5 | 1-HR | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.08459 | 225.6 | 1.5 | 1-HR | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.09037 | 219.8 | 1.5 | 1-HR | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.09302 | 209.2 | 1.5 | 1-HR | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.11487 | 216.6 | 1.5 | 1-HR | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.06029 | 160.7 | 1.5 | 1-HR | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.16658 | 243.2 | 1.5 | 1-HR | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.03109 | 191 | 1.5 | 1-HR | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.03418 | 181 | 1.5 | 1-HR | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.07305 | 214.3 | 1.5 | 1-HR | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.18205 | 248.4 | 1.5 | 1-HR | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.07 | 213.2 | 1.5 | 1-HR | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.07039 | 213.6 | 1.5 | 1-HR | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.06953 | 203.5 | 1.5 | 1-HR | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.07008 | 205.6 | 1.5 | 1-HR | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.10773 | 205.8 | 1.5 | 1-HR | Grid Receptor 99 | G99 |
| 648584 | 4077523 | 0.1101 | 183.61 | 1.5 | 1-HR | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 0.53373 | 254.01 | 1.5 | 1-HR | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.06523 | 235.3 | 1.5 | 1-HR | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.05196 | 221.29 | 1.5 | 1-HR | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.04781 | 222.37 | 1.5 | 1-HR | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.04254 | 233.6 | 1.5 | 1-HR | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.32402 | 249.54 | 1.5 | 1-HR | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 0.56492 | 258.89 | 1.5 | 1-HR | Boundary Perimeter 16 | P16 |
| 650184 | 4077548 | 0.5461 | 259.56 | 1.5 | 1-HR | Boundary Perimeter 17 | P17 |
| 650284 | 4077550 | 0.48451 | 256.77 | 1.5 | 1-HR | Boundary Perimeter 18 | P18 |
| 650384 | 4077552 | 0.13963 | 242.37 | 1.5 | 1-HR | Boundary Perimeter 19 | P19 |

09/30/21

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14:01:41

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|-----|
| 648684 | 4077525 | 0.13563 | 197.16 | 1.5 | 1-HR | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.1283 | 242.23 | 1.5 | 1-HR | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.33231 | 259.71 | 1.5 | 1-HR | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.36447 | 257.58 | 1.5 | 1-HR | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.67113 | 267.9 | 1.5 | 1-HR | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.61001 | 275.91 | 1.5 | 1-HR | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.54612 | 265.73 | 1.5 | 1-HR | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.28754 | 251.08 | 1.5 | 1-HR | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.32881 | 252.83 | 1.5 | 1-HR | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.18029 | 246.1 | 1.5 | 1-HR | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.11087 | 241.37 | 1.5 | 1-HR | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.15487 | 209.74 | 1.5 | 1-HR | Boundary Perimeter 3 | Р3 |
| 650791 | 4076854 | 0.20268 | 246.79 | 1.5 | 1-HR | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.09856 | 228.75 | 1.5 | 1-HR | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.10754 | 217.76 | 1.5 | 1-HR | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.11249 | 221.2 | 1.5 | 1-HR | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.1204 | 220.83 | 1.5 | 1-HR | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.13632 | 223.42 | 1.5 | 1-HR | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.14941 | 222.46 | 1.5 | 1-HR | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.16151 | 223.19 | 1.5 | 1-HR | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.1767 | 222.1 | 1.5 | 1-HR | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.19582 | 217.03 | 1.5 | 1-HR | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.14491 | 214.25 | 1.5 | 1-HR | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.22005 | 214.82 | 1.5 | 1-HR | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.24688 | 214.91 | 1.5 | 1-HR | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.24096 | 214.09 | 1.5 | 1-HR | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.25215 | 211.53 | 1.5 | 1-HR | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.37537 | 210.17 | 1.5 | 1-HR | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.2888 | 208.52 | 1.5 | 1-HR | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.32375 | 207.5 | 1.5 | 1-HR | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.38456 | 205.17 | 1.5 | 1-HR | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.20668 | 202.16 | 1.5 | 1-HR | Boundary Perimeter 48 | P48 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 1-hr 2020

14:01:41

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| ror | MVIAI. (A, 12 | $\Lambda, \Im(1\Lambda, \Gamma 1\Im, \Im), \Im(1\Lambda, \Gamma \Im, \Im)$ | 4),3A,A3,4A, | $A0,2\Lambda,A3,3\Lambda$ | 1,A0,2A,10) | | |
|--------|---------------|--|--------------|---------------------------|-------------|-----------------------|--------|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
| 649226 | 4076535 | 0.1302 | 196.38 | 1.5 | 1-HR | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.14442 | 221.41 | 1.5 | 1-HR | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.25441 | 195.87 | 1.5 | 1-HR | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.25778 | 196.32 | 1.5 | 1-HR | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.23086 | 192.42 | 1.5 | 1-HR | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.19931 | 192.46 | 1.5 | 1-HR | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.21602 | 191.63 | 1.5 | 1-HR | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.21315 | 186.32 | 1.5 | 1-HR | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.17336 | 179.81 | 1.5 | 1-HR | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.13563 | 176.23 | 1.5 | 1-HR | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.15297 | 175.02 | 1.5 | 1-HR | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.15648 | 180.62 | 1.5 | 1-HR | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.13591 | 216.54 | 1.5 | 1-HR | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.14772 | 183.47 | 1.5 | 1-HR | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.17444 | 202.88 | 1.5 | 1-HR | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.12866 | 178.21 | 1.5 | 1-HR | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.13238 | 176.25 | 1.5 | 1-HR | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.12057 | 176 | 1.5 | 1-HR | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.11625 | 175.24 | 1.5 | 1-HR | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.11415 | 175.13 | 1.5 | 1-HR | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.08388 | 230.71 | 1.5 | 1-HR | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.29132 | 248.08 | 1.5 | 1-HR | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.73662 | 258.43 | 1.5 | 1-HR | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.08261 | 127.38 | 1.5 | 1-HR | New Development | RP_G1 |
| 645930 | 4078083 | 0.09359 | 127.58 | 1.5 | 1-HR | New Development | RP_G10 |
| 646030 | 4078083 | 0.09905 | 130.56 | 1.5 | 1-HR | New Development | RP_G11 |
| 646130 | 4078083 | 0.10373 | 134.35 | 1.5 | 1-HR | New Development | RP_G12 |
| 646230 | 4078083 | 0.10743 | 139.22 | 1.5 | 1-HR | New Development | RP_G13 |
| 646330 | 4078083 | 0.10975 | 144.65 | 1.5 | 1-HR | New Development | RP_G14 |
| 646430 | 4078083 | 0.1083 | 142.28 | 1.5 | 1-HR | New Development | RP_G15 |
| 646530 | 4078083 | 0.10646 | 146.76 | 1.5 | 1-HR | New Development | RP_G16 |
| 646630 | 4078083 | 0.10231 | 150.64 | 1.5 | 1-HR | New Development | RP_G17 |
| | | | | | | | |

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09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 1-hr 2020

14:01:41

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------|--------|
| 646730 | 4078083 | 0.09622 | 155.4 | 1.5 | 1-HR | New Development | RP_G18 |
| 645930 | 4078183 | 0.09995 | 127.22 | 1.5 | 1-HR | New Development | RP_G19 |
| 646030 | 4077983 | 0.08982 | 131.21 | 1.5 | 1-HR | New Development | RP_G2 |
| 646030 | 4078183 | 0.10308 | 130.56 | 1.5 | 1-HR | New Development | RP_G20 |
| 646130 | 4078183 | 0.10485 | 133.89 | 1.5 | 1-HR | New Development | RP_G21 |
| 646230 | 4078183 | 0.10574 | 140.45 | 1.5 | 1-HR | New Development | RP_G22 |
| 646330 | 4078183 | 0.10491 | 146.94 | 1.5 | 1-HR | New Development | RP_G23 |
| 646430 | 4078183 | 0.09906 | 140.23 | 1.5 | 1-HR | New Development | RP_G24 |
| 646530 | 4078183 | 0.09445 | 147.25 | 1.5 | 1-HR | New Development | RP_G25 |
| 646630 | 4078183 | 0.08742 | 151.56 | 1.5 | 1-HR | New Development | RP_G26 |
| 646730 | 4078183 | 0.07922 | 157.78 | 1.5 | 1-HR | New Development | RP_G27 |
| 645930 | 4078283 | 0.10085 | 126.06 | 1.5 | 1-HR | New Development | RP_G28 |
| 646030 | 4078283 | 0.1012 | 129.56 | 1.5 | 1-HR | New Development | RP_G29 |
| 646130 | 4077983 | 0.09682 | 135.89 | 1.5 | 1-HR | New Development | RP_G3 |
| 646130 | 4078283 | 0.09996 | 132.89 | 1.5 | 1-HR | New Development | RP_G30 |
| 646230 | 4078283 | 0.09768 | 139.24 | 1.5 | 1-HR | New Development | RP_G31 |
| 646330 | 4078283 | 0.0931 | 142.68 | 1.5 | 1-HR | New Development | RP_G32 |
| 646430 | 4078283 | 0.0857 | 140.02 | 1.5 | 1-HR | New Development | RP_G33 |
| 646530 | 4078283 | 0.07877 | 147.22 | 1.5 | 1-HR | New Development | RP_G34 |
| 646630 | 4078283 | 0.07631 | 151.56 | 1.5 | 1-HR | New Development | RP_G35 |
| 646730 | 4078283 | 0.07883 | 156.78 | 1.5 | 1-HR | New Development | RP_G36 |
| 646230 | 4077983 | 0.10287 | 139.18 | 1.5 | 1-HR | New Development | RP_G4 |
| 646330 | 4077983 | 0.10747 | 140.76 | 1.5 | 1-HR | New Development | RP_G5 |
| 646430 | 4077983 | 0.11097 | 143.89 | 1.5 | 1-HR | New Development | RP_G6 |
| 646530 | 4077983 | 0.1122 | 145.22 | 1.5 | 1-HR | New Development | RP_G7 |
| 646630 | 4077983 | 0.11145 | 147.21 | 1.5 | 1-HR | New Development | RP_G8 |
| 646730 | 4077983 | 0.1081 | 148.3 | 1.5 | 1-HR | New Development | RP_G9 |
| 648659 | 4077241 | 0.17124 | 205.79 | 1.5 | 1-HR | House 1 | RP_H1 |
| 648071 | 4076116 | 0.06904 | 169.6 | 1.5 | 1-HR | House 10 | RP_H10 |
| 648247 | 4076278 | 0.07831 | 184.55 | 1.5 | 1-HR | House 11 | RP_H11 |
| 648027 | 4076255 | 0.07242 | 169.38 | 1.5 | 1-HR | House 12 | RP_H12 |
| 648066 | 4076359 | 0.07158 | 173.83 | 1.5 | 1-HR | House 13 | RP_H13 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|-------------|--------|------|
| 648139 | 4076400 | 0.07196 | 178.22 | 1.5 | 1-HR | House 14 | RP_H14 | |
| 648255 | 4076411 | 0.07626 | 191.28 | 1.5 | 1-HR | House 15 | RP_H15 | |
| 647878 | 4076365 | 0.06537 | 165.39 | 1.5 | 1-HR | House 16 | RP_H16 | |
| 647520 | 4076206 | 0.06125 | 159 | 1.5 | 1-HR | House 17 | RP_H17 | |
| 647921 | 4076247 | 0.06964 | 164 | 1.5 | 1-HR | House 18 | RP_H18 | |
| 647709 | 4076352 | 0.06159 | 163.52 | 1.5 | 1-HR | House 19 | RP_H19 | |
| 648372 | 4075470 | 0.17172 | 173.69 | 1.5 | 1-HR | House 2 | RP_H2 | MEIR |
| 647704 | 4076251 | 0.0647 | 162.17 | 1.5 | 1-HR | House 20 | RP_H20 | |
| 647719 | 4076104 | 0.06466 | 159.35 | 1.5 | 1-HR | House 21 | RP_H21 | |
| 647843 | 4076125 | 0.0671 | 163 | 1.5 | 1-HR | House 22 | RP_H22 | |
| 647842 | 4076500 | 0.05573 | 167.93 | 1.5 | 1-HR | House 23 | RP_H23 | |
| 647728 | 4076644 | 0.08416 | 164.15 | 1.5 | 1-HR | House 24 | RP_H24 | |
| 647824 | 4076644 | 0.08905 | 168.29 | 1.5 | 1-HR | House 25 | RP_H25 | |
| 647530 | 4076497 | 0.04938 | 159.56 | 1.5 | 1-HR | House 26 | RP_H26 | |
| 647810 | 4076854 | 0.13178 | 162.9 | 1.5 | 1-HR | House 27 | RP_H27 | |
| 647697 | 4076989 | 0.12646 | 161.42 | 1.5 | 1-HR | House 28 | RP_H28 | |
| 648226 | 4076182 | 0.07454 | 183.22 | 1.5 | 1-HR | House 29 | RP_H29 | |
| 647678 | 4075969 | 0.05989 | 159.5 | 1.5 | 1-HR | House 3 | RP_H3 | |
| 645876 | 4077487 | 0.08017 | 127.13 | 1.5 | 1-HR | House 30 | RP_H30 | |
| 650902 | 4076062 | 0.11525 | 215.24 | 1.5 | 1-HR | House 31 | RP_H31 | |
| 651490 | 4076597 | 0.06579 | 205.5 | 1.5 | 1-HR | House 32 | RP_H32 | |
| 651565 | 4077067 | 0.06544 | 213.93 | 1.5 | 1-HR | House 33 | RP_H33 | |
| 648673 | 4075307 | 0.08041 | 225.91 | 1.5 | 1-HR | House 34 | RP_H34 | |
| 648384 | 4075469 | 0.17059 | 174.44 | 1.5 | 1-HR | House 35 | RP_H35 | |
| 646379 | 4077233 | 0.09621 | 146 | 1.5 | 1-HR | House 36 | RP_H36 | |
| 651850 | 4075865 | 0.09593 | 201.97 | 1.5 | 1-HR | House 37 | RP_H37 | |
| 652045 | 4076210 | 0.05779 | 196.88 | 1.5 | 1-HR | House 38 | RP_H38 | |
| 652256 | 4076391 | 0.04482 | 197.06 | 1.5 | 1-HR | House 39 | RP_H39 | |
| 647815 | 4075985 | 0.06105 | 162.04 | 1.5 | 1-HR | House 4 | RP_H4 | |
| 646854 | 4077373 | 0.08527 | 145.99 | 1.5 | 1-HR | House 40 | RP_H40 | |
| 647050 | 4077360 | 0.08135 | 145 | 1.5 | 1-HR | House 41 | RP_H41 | |
| 647286 | 4077474 | 0.11309 | 149.68 | 1.5 | 1-HR | House 42 | RP_H42 | |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 647359 | 4077340 | 0.09513 | 154.45 | 1.5 | 1-HR | House 43 | RP_H43 |
| 647490 | 4077329 | 0.10725 | 162.28 | 1.5 | 1-HR | House 44 | RP_H44 |
| 647522 | 4077252 | 0.09208 | 164.3 | 1.5 | 1-HR | House 45 | RP_H45 |
| 647518 | 4077139 | 0.10826 | 164.01 | 1.5 | 1-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.10013 | 151.53 | 1.5 | 1-HR | House 47 | RP_H47 |
| 646779 | 4077128 | 0.1076 | 158.51 | 1.5 | 1-HR | House 48 | RP_H48 |
| 646987 | 4077213 | 0.10258 | 146.44 | 1.5 | 1-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.06378 | 163.83 | 1.5 | 1-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.09912 | 154.85 | 1.5 | 1-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.10631 | 159 | 1.5 | 1-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.1108 | 148.99 | 1.5 | 1-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.11349 | 158.62 | 1.5 | 1-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.10013 | 158.67 | 1.5 | 1-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.10777 | 152.34 | 1.5 | 1-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.12067 | 160.22 | 1.5 | 1-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.12297 | 161.26 | 1.5 | 1-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.10027 | 156.81 | 1.5 | 1-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.08726 | 156.21 | 1.5 | 1-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.06245 | 168.26 | 1.5 | 1-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.09259 | 154.38 | 1.5 | 1-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.11955 | 162.49 | 1.5 | 1-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.10029 | 158 | 1.5 | 1-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.12086 | 159.45 | 1.5 | 1-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.10421 | 159.32 | 1.5 | 1-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.04839 | 159 | 1.5 | 1-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.03288 | 179.58 | 1.5 | 1-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.08268 | 146.77 | 1.5 | 1-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.06731 | 156.07 | 1.5 | 1-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.08214 | 159 | 1.5 | 1-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.06498 | 171.51 | 1.5 | 1-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.07151 | 159.9 | 1.5 | 1-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.07116 | 183.42 | 1.5 | 1-HR | House 8 | RP_H8 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|-------|
| 648219 | 4076109 | 0.06933 | 182.28 | 1.5 | 1-HR | House 9 | RP_H9 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|--------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.00071 | 123.85 | 1.5 | ANNUAL | AQ Monitoring Station | AQ_ST_1 | |
| 643904 | 4077719 | 0.00019 | 105.68 | 1.5 | ANNUAL | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642057 | 4079416 | 0.00026 | 85.12 | 1.5 | ANNUAL | Dunne Park | CR_PK_1 | |
| 642179 | 4079950 | 0.00034 | 117.99 | 1.5 | ANNUAL | Vista Park Hill Park | CR_PK_2 | |
| 644733 | 4078753 | 0.00041 | 106.44 | 1.5 | ANNUAL | Las Brisas Park | CR_PK_3 | |
| 645609 | 4078854 | 0.00065 | 112.86 | 1.5 | ANNUAL | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238 | 4078807 | 0.00035 | 95.25 | 1.5 | ANNUAL | Veterans Memorial Park | CR_PK_5 | |
| 645311 | 4076559 | 0.00016 | 134.61 | 1.5 | ANNUAL | Park 6 | CR_PK_6 | |
| 649582 | 4073424 | 0.00072 | 159.96 | 1.5 | ANNUAL | Park 7 | CR_PK_7 | |
| 645145 | 4077181 | 0.00019 | 133 | 1.5 | ANNUAL | Cerra Vista Elem School | CR_SC_1 | |
| 642905 | 4079955 | 0.00043 | 86 | 1.5 | ANNUAL | San Andreas Continuation | CR_SC_10 | |
| 645851 | 4074015 | 0.00012 | 123 | 1.5 | ANNUAL | SouthSide School | CR_SC_11 | |
| 642106 | 4078176 | 0.00018 | 91 | 1.5 | ANNUAL | School 12 | CR_SC_12 | |
| 646059 | 4078443 | 0.00063 | 128.52 | 1.5 | ANNUAL | Rancho Santana School | CR_SC_13 | - |
| 647269 | 4075575 | 0.00017 | 158 | 1.5 | ANNUAL | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.00022 | 159 | 1.5 | ANNUAL | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644110 | 4078389 | 0.00027 | 98.2 | 1.5 | ANNUAL | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.00018 | 101.23 | 1.5 | ANNUAL | Hollister Montessori School | CR_SC_3 | |
| 642961 | 4078621 | 0.00024 | 92 | 1.5 | ANNUAL | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.00054 | 88 | 1.5 | ANNUAL | Marguerite Maze Middle School | CR_SC_5 | |
| 641630 | 4079153 | 0.00023 | 85 | 1.5 | ANNUAL | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.00017 | 98.22 | 1.5 | ANNUAL | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.00062 | 87 | 1.5 | ANNUAL | Gabilan Hills Elementary School | CR_SC_8 | |
| 642245 | 4078413 | 0.00019 | 90.17 | 1.5 | ANNUAL | San Benito High School | CR_SC_9 | |
| 642083 | 4079794 | 0.0003 | 87.58 | 1.5 | ANNUAL | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.00021 | 146.33 | 1.5 | ANNUAL | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 0.00069 | 189.45 | 1.5 | ANNUAL | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 0.00107 | 155.2 | 1.5 | ANNUAL | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.00021 | 160 | 1.5 | ANNUAL | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.00408 | 252.9 | 1.5 | ANNUAL | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.00069 | 165.9 | 1.5 | ANNUAL | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.00095 | 159.6 | 1.5 | ANNUAL | Grid Receptor 12 | G12 | |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|--------|------------------|-----|
| 648144 | 4078373 | 0.00137 | 146.2 | 1.5 | ANNUAL | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.00181 | 158.3 | 1.5 | ANNUAL | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.00173 | 166.6 | 1.5 | ANNUAL | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.001 | 175.4 | 1.5 | ANNUAL | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.00049 | 177.1 | 1.5 | ANNUAL | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.00033 | 178 | 1.5 | ANNUAL | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.00028 | 173 | 1.5 | ANNUAL | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.00135 | 145.4 | 1.5 | ANNUAL | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.00026 | 168.8 | 1.5 | ANNUAL | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.00044 | 173.5 | 1.5 | ANNUAL | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.00056 | 166.2 | 1.5 | ANNUAL | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.00077 | 145.4 | 1.5 | ANNUAL | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.00134 | 173.9 | 1.5 | ANNUAL | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.0024 | 179.6 | 1.5 | ANNUAL | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.00257 | 191 | 1.5 | ANNUAL | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.00108 | 209.2 | 1.5 | ANNUAL | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.00076 | 233.7 | 1.5 | ANNUAL | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.00046 | 199.9 | 1.5 | ANNUAL | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.00155 | 144.4 | 1.5 | ANNUAL | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.00035 | 195.5 | 1.5 | ANNUAL | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.00029 | 190.4 | 1.5 | ANNUAL | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.00034 | 165.4 | 1.5 | ANNUAL | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.00044 | 159.6 | 1.5 | ANNUAL | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.00066 | 183.5 | 1.5 | ANNUAL | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.00133 | 224 | 1.5 | ANNUAL | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.00137 | 205 | 1.5 | ANNUAL | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.00081 | 208.8 | 1.5 | ANNUAL | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.00143 | 134.6 | 1.5 | ANNUAL | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00047 | 185.6 | 1.5 | ANNUAL | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00022 | 187.4 | 1.5 | ANNUAL | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.00024 | 160.9 | 1.5 | ANNUAL | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.0003 | 200.5 | 1.5 | ANNUAL | Grid Receptor 43 | G43 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|--------|------------------|-----|
| 649344 | 4077973 | 0.00045 | 229 | 1.5 | ANNUAL | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.00253 | 253.3 | 1.5 | ANNUAL | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.01299 | 220.2 | 1.5 | ANNUAL | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.00242 | 227.2 | 1.5 | ANNUAL | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.00099 | 163.8 | 1.5 | ANNUAL | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.00107 | 205.5 | 1.5 | ANNUAL | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.0002 | 176.1 | 1.5 | ANNUAL | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00022 | 195 | 1.5 | ANNUAL | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00025 | 196.1 | 1.5 | ANNUAL | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.0003 | 215.3 | 1.5 | ANNUAL | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.00039 | 221.6 | 1.5 | ANNUAL | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.01547 | 211.7 | 1.5 | ANNUAL | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.01316 | 237.7 | 1.5 | ANNUAL | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.00056 | 158.4 | 1.5 | ANNUAL | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.00306 | 204.2 | 1.5 | ANNUAL | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.00018 | 173 | 1.5 | ANNUAL | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.00019 | 171 | 1.5 | ANNUAL | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00021 | 204.6 | 1.5 | ANNUAL | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.00024 | 216.5 | 1.5 | ANNUAL | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.00134 | 257.7 | 1.5 | ANNUAL | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.00521 | 231.4 | 1.5 | ANNUAL | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.01179 | 249.4 | 1.5 | ANNUAL | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.00033 | 164.7 | 1.5 | ANNUAL | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.0054 | 216.4 | 1.5 | ANNUAL | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00016 | 177 | 1.5 | ANNUAL | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00016 | 180.9 | 1.5 | ANNUAL | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00017 | 196.6 | 1.5 | ANNUAL | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.00031 | 236.9 | 1.5 | ANNUAL | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.00103 | 261.3 | 1.5 | ANNUAL | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.00699 | 260.9 | 1.5 | ANNUAL | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.00417 | 226.7 | 1.5 | ANNUAL | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.00025 | 164 | 1.5 | ANNUAL | Grid Receptor 8 | G8 |

* AERMET (21112): Future Flare (1.5m) SO2 1-yr 2020

14:01:41

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------------|-----|
| 650544 | 4075573 | 0.01044 | 268.2 | 1.5 | ANNUAL | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.00013 | 181.3 | 1.5 | ANNUAL | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00014 | 178.4 | 1.5 | ANNUAL | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00017 | 214.8 | 1.5 | ANNUAL | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.0006 | 249.9 | 1.5 | ANNUAL | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.00095 | 276.5 | 1.5 | ANNUAL | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.00059 | 225.6 | 1.5 | ANNUAL | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.00107 | 219.8 | 1.5 | ANNUAL | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.00194 | 209.2 | 1.5 | ANNUAL | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.00262 | 216.6 | 1.5 | ANNUAL | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.00021 | 160.7 | 1.5 | ANNUAL | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.00447 | 243.2 | 1.5 | ANNUAL | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00012 | 191 | 1.5 | ANNUAL | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00014 | 181 | 1.5 | ANNUAL | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.0002 | 214.3 | 1.5 | ANNUAL | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.0004 | 248.4 | 1.5 | ANNUAL | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.00038 | 213.2 | 1.5 | ANNUAL | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.00059 | 213.6 | 1.5 | ANNUAL | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.00095 | 203.5 | 1.5 | ANNUAL | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.00153 | 205.6 | 1.5 | ANNUAL | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.00196 | 205.8 | 1.5 | ANNUAL | Grid Receptor 99 | G99 |
| 648584 | 4077523 | 0.00253 | 183.61 | 1.5 | ANNUAL | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 0.00189 | 254.01 | 1.5 | ANNUAL | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.00056 | 235.3 | 1.5 | ANNUAL | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.00042 | 221.29 | 1.5 | ANNUAL | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00039 | 222.37 | 1.5 | ANNUAL | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.00045 | 233.6 | 1.5 | ANNUAL | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.00114 | 249.54 | 1.5 | ANNUAL | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 0.0016 | 258.89 | 1.5 | ANNUAL | Boundary Perimeter 16 | P16 |
| 650184 | 4077548 | 0.00133 | 259.56 | 1.5 | ANNUAL | Boundary Perimeter 17 | P17 |
| 650284 | 4077550 | 0.00117 | 256.77 | 1.5 | ANNUAL | Boundary Perimeter 18 | P18 |
| 650384 | 4077552 | 0.00055 | 242.37 | 1.5 | ANNUAL | Boundary Perimeter 19 | P19 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 1-yr 2020

14:01:41

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------------|-----|
| 648684 | 4077525 | 0.00243 | 197.16 | 1.5 | ANNUAL | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.00052 | 242.23 | 1.5 | ANNUAL | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.00088 | 259.71 | 1.5 | ANNUAL | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.00073 | 257.58 | 1.5 | ANNUAL | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.0009 | 267.9 | 1.5 | ANNUAL | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.00106 | 275.91 | 1.5 | ANNUAL | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.00136 | 265.73 | 1.5 | ANNUAL | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.0011 | 251.08 | 1.5 | ANNUAL | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.0014 | 252.83 | 1.5 | ANNUAL | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.00128 | 246.1 | 1.5 | ANNUAL | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.0013 | 241.37 | 1.5 | ANNUAL | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.00214 | 209.74 | 1.5 | ANNUAL | Boundary Perimeter 3 | Р3 |
| 650791 | 4076854 | 0.00193 | 246.79 | 1.5 | ANNUAL | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.00126 | 228.75 | 1.5 | ANNUAL | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.00133 | 217.76 | 1.5 | ANNUAL | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.00151 | 221.2 | 1.5 | ANNUAL | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.00157 | 220.83 | 1.5 | ANNUAL | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.00161 | 223.42 | 1.5 | ANNUAL | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.0016 | 222.46 | 1.5 | ANNUAL | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.00168 | 223.19 | 1.5 | ANNUAL | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.00181 | 222.1 | 1.5 | ANNUAL | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.00201 | 217.03 | 1.5 | ANNUAL | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.00163 | 214.25 | 1.5 | ANNUAL | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.00253 | 214.82 | 1.5 | ANNUAL | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.00416 | 214.91 | 1.5 | ANNUAL | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.00694 | 214.09 | 1.5 | ANNUAL | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.01185 | 211.53 | 1.5 | ANNUAL | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.02005 | 210.17 | 1.5 | ANNUAL | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.02987 | 208.52 | 1.5 | ANNUAL | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.03748 | 207.5 | 1.5 | ANNUAL | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.02934 | 205.17 | 1.5 | ANNUAL | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.00425 | 202.16 | 1.5 | ANNUAL | Boundary Perimeter 48 | P48 |

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* AERMET (21112): Future Flare (1.5m) SO2 1-yr 2020

14:01:41

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------------|--------|
| 649226 | 4076535 | 0.00192 | 196.38 | 1.5 | ANNUAL | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.00128 | 221.41 | 1.5 | ANNUAL | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.00439 | 195.87 | 1.5 | ANNUAL | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.00453 | 196.32 | 1.5 | ANNUAL | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.00408 | 192.42 | 1.5 | ANNUAL | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.00401 | 192.46 | 1.5 | ANNUAL | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.00385 | 191.63 | 1.5 | ANNUAL | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.0034 | 186.32 | 1.5 | ANNUAL | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.00267 | 179.81 | 1.5 | ANNUAL | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.00215 | 176.23 | 1.5 | ANNUAL | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.00234 | 175.02 | 1.5 | ANNUAL | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.00332 | 180.62 | 1.5 | ANNUAL | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.00098 | 216.54 | 1.5 | ANNUAL | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.00384 | 183.47 | 1.5 | ANNUAL | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.00373 | 202.88 | 1.5 | ANNUAL | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.00273 | 178.21 | 1.5 | ANNUAL | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.00297 | 176.25 | 1.5 | ANNUAL | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.00288 | 176 | 1.5 | ANNUAL | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.00269 | 175.24 | 1.5 | ANNUAL | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.00273 | 175.13 | 1.5 | ANNUAL | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.00089 | 230.71 | 1.5 | ANNUAL | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.0019 | 248.08 | 1.5 | ANNUAL | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.00328 | 258.43 | 1.5 | ANNUAL | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.00039 | 127.38 | 1.5 | ANNUAL | New Development | RP_G1 |
| 645930 | 4078083 | 0.00043 | 127.58 | 1.5 | ANNUAL | New Development | RP_G10 |
| 646030 | 4078083 | 0.00045 | 130.56 | 1.5 | ANNUAL | New Development | RP_G11 |
| 646130 | 4078083 | 0.00048 | 134.35 | 1.5 | ANNUAL | New Development | RP_G12 |
| 646230 | 4078083 | 0.00051 | 139.22 | 1.5 | ANNUAL | New Development | RP_G13 |
| 646330 | 4078083 | 0.00055 | 144.65 | 1.5 | ANNUAL | New Development | RP_G14 |
| 646430 | 4078083 | 0.00058 | 142.28 | 1.5 | ANNUAL | New Development | RP_G15 |
| 646530 | 4078083 | 0.00062 | 146.76 | 1.5 | ANNUAL | New Development | RP_G16 |
| 646630 | 4078083 | 0.00066 | 150.64 | 1.5 | ANNUAL | New Development | RP_G17 |

09/30/21

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14:01:41

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

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| | | A,5(174,1 15.5),5(174,1 0. | | | | | |
|--------|---------|----------------------------|--------|-------|--------|-----------------|--------|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
| 646730 | 4078083 | 0.0007 | 155.4 | 1.5 | ANNUAL | New Development | RP_G18 |
| 645930 | 4078183 | 0.00047 | 127.22 | 1.5 | ANNUAL | New Development | RP_G19 |
| 646030 | 4077983 | 0.00041 | 131.21 | 1.5 | ANNUAL | New Development | RP_G2 |
| 646030 | 4078183 | 0.0005 | 130.56 | 1.5 | ANNUAL | New Development | RP_G20 |
| 646130 | 4078183 | 0.00053 | 133.89 | 1.5 | ANNUAL | New Development | RP_G21 |
| 646230 | 4078183 | 0.00056 | 140.45 | 1.5 | ANNUAL | New Development | RP_G22 |
| 646330 | 4078183 | 0.0006 | 146.94 | 1.5 | ANNUAL | New Development | RP_G23 |
| 646430 | 4078183 | 0.00063 | 140.23 | 1.5 | ANNUAL | New Development | RP_G24 |
| 646530 | 4078183 | 0.00067 | 147.25 | 1.5 | ANNUAL | New Development | RP_G25 |
| 646630 | 4078183 | 0.00071 | 151.56 | 1.5 | ANNUAL | New Development | RP_G26 |
| 646730 | 4078183 | 0.00076 | 157.78 | 1.5 | ANNUAL | New Development | RP_G27 |
| 645930 | 4078283 | 0.00052 | 126.06 | 1.5 | ANNUAL | New Development | RP_G28 |
| 646030 | 4078283 | 0.00055 | 129.56 | 1.5 | ANNUAL | New Development | RP_G29 |
| 646130 | 4077983 | 0.00043 | 135.89 | 1.5 | ANNUAL | New Development | RP_G3 |
| 646130 | 4078283 | 0.00058 | 132.89 | 1.5 | ANNUAL | New Development | RP_G30 |
| 646230 | 4078283 | 0.00061 | 139.24 | 1.5 | ANNUAL | New Development | RP_G31 |
| 646330 | 4078283 | 0.00065 | 142.68 | 1.5 | ANNUAL | New Development | RP_G32 |
| 646430 | 4078283 | 0.00068 | 140.02 | 1.5 | ANNUAL | New Development | RP_G33 |
| 646530 | 4078283 | 0.00072 | 147.22 | 1.5 | ANNUAL | New Development | RP_G34 |
| 646630 | 4078283 | 0.00076 | 151.56 | 1.5 | ANNUAL | New Development | RP_G35 |
| 646730 | 4078283 | 0.00081 | 156.78 | 1.5 | ANNUAL | New Development | RP_G36 |
| 646230 | 4077983 | 0.00046 | 139.18 | 1.5 | ANNUAL | New Development | RP_G4 |
| 646330 | 4077983 | 0.00049 | 140.76 | 1.5 | ANNUAL | New Development | RP_G5 |
| 646430 | 4077983 | 0.00053 | 143.89 | 1.5 | ANNUAL | New Development | RP_G6 |
| 646530 | 4077983 | 0.00056 | 145.22 | 1.5 | ANNUAL | New Development | RP_G7 |
| 646630 | 4077983 | 0.0006 | 147.21 | 1.5 | ANNUAL | New Development | RP_G8 |
| 646730 | 4077983 | 0.00064 | 148.3 | 1.5 | ANNUAL | New Development | RP_G9 |
| 648659 | 4077241 | 0.00368 | 205.79 | 1.5 | ANNUAL | House 1 | RP_H1 |
| 648071 | 4076116 | 0.00027 | 169.6 | 1.5 | ANNUAL | House 10 | RP_H10 |
| 648247 | 4076278 | 0.00035 | 184.55 | 1.5 | ANNUAL | House 11 | RP_H11 |
| 648027 | 4076255 | 0.00028 | 169.38 | 1.5 | ANNUAL | House 12 | RP_H12 |
| 648066 | 4076359 | 0.00031 | 173.83 | 1.5 | ANNUAL | House 13 | RP_H13 |
| | | | | | | | |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|--------|
| 648139 | 4076400 | 0.00034 | 178.22 | 1.5 | ANNUAL | House 14 | RP_H14 |
| 648255 | 4076411 | 0.00039 | 191.28 | 1.5 | ANNUAL | House 15 | RP_H15 |
| 647878 | 4076365 | 0.00027 | 165.39 | 1.5 | ANNUAL | House 16 | RP_H16 |
| 647520 | 4076206 | 0.0002 | 159 | 1.5 | ANNUAL | House 17 | RP_H17 |
| 647921 | 4076247 | 0.00026 | 164 | 1.5 | ANNUAL | House 18 | RP_H18 |
| 647709 | 4076352 | 0.00024 | 163.52 | 1.5 | ANNUAL | House 19 | RP_H19 |
| 648372 | 4075470 | 0.00029 | 173.69 | 1.5 | ANNUAL | House 2 | RP_H2 |
| 647704 | 4076251 | 0.00023 | 162.17 | 1.5 | ANNUAL | House 20 | RP_H20 |
| 647719 | 4076104 | 0.00021 | 159.35 | 1.5 | ANNUAL | House 21 | RP_H21 |
| 647843 | 4076125 | 0.00023 | 163 | 1.5 | ANNUAL | House 22 | RP_H22 |
| 647842 | 4076500 | 0.00029 | 167.93 | 1.5 | ANNUAL | House 23 | RP_H23 |
| 647728 | 4076644 | 0.0003 | 164.15 | 1.5 | ANNUAL | House 24 | RP_H24 |
| 647824 | 4076644 | 0.00032 | 168.29 | 1.5 | ANNUAL | House 25 | RP_H25 |
| 647530 | 4076497 | 0.00024 | 159.56 | 1.5 | ANNUAL | House 26 | RP_H26 |
| 647810 | 4076854 | 0.00038 | 162.9 | 1.5 | ANNUAL | House 27 | RP_H27 |
| 647697 | 4076989 | 0.00041 | 161.42 | 1.5 | ANNUAL | House 28 | RP_H28 |
| 648226 | 4076182 | 0.00033 | 183.22 | 1.5 | ANNUAL | House 29 | RP_H29 |
| 647678 | 4075969 | 0.0002 | 159.5 | 1.5 | ANNUAL | House 3 | RP_H3 |
| 645876 | 4077487 | 0.00026 | 127.13 | 1.5 | ANNUAL | House 30 | RP_H30 |
| 650902 | 4076062 | 0.00257 | 215.24 | 1.5 | ANNUAL | House 31 | RP_H31 |
| 651490 | 4076597 | 0.00119 | 205.5 | 1.5 | ANNUAL | House 32 | RP_H32 |
| 651565 | 4077067 | 0.00068 | 213.93 | 1.5 | ANNUAL | House 33 | RP_H33 |
| 648673 | 4075307 | 0.00039 | 225.91 | 1.5 | ANNUAL | House 34 | RP_H34 |
| 648384 | 4075469 | 0.00029 | 174.44 | 1.5 | ANNUAL | House 35 | RP_H35 |
| 646379 | 4077233 | 0.00026 | 146 | 1.5 | ANNUAL | House 36 | RP_H36 |
| 651850 | 4075865 | 0.0016 | 201.97 | 1.5 | ANNUAL | House 37 | RP_H37 |
| 652045 | 4076210 | 0.00123 | 196.88 | 1.5 | ANNUAL | House 38 | RP_H38 |
| 652256 | 4076391 | 0.00108 | 197.06 | 1.5 | ANNUAL | House 39 | RP_H39 |
| 647815 | 4075985 | 0.00022 | 162.04 | 1.5 | ANNUAL | House 4 | RP_H4 |
| 646854 | 4077373 | 0.00035 | 145.99 | 1.5 | ANNUAL | House 40 | RP_H40 |
| 647050 | 4077360 | 0.00039 | 145 | 1.5 | ANNUAL | House 41 | RP_H41 |
| 647286 | 4077474 | 0.00055 | 149.68 | 1.5 | ANNUAL | House 42 | RP_H42 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|--------|
| 647359 | 4077340 | 0.00049 | 154.45 | 1.5 | ANNUAL | House 43 | RP_H43 |
| 647490 | 4077329 | 0.00055 | 162.28 | 1.5 | ANNUAL | House 44 | RP_H44 |
| 647522 | 4077252 | 0.0005 | 164.3 | 1.5 | ANNUAL | House 45 | RP_H45 |
| 647518 | 4077139 | 0.00043 | 164.01 | 1.5 | ANNUAL | House 46 | RP_H46 |
| 646819 | 4077258 | 0.00031 | 151.53 | 1.5 | ANNUAL | House 47 | RP_H47 |
| 646779 | 4077128 | 0.00028 | 158.51 | 1.5 | ANNUAL | House 48 | RP_H48 |
| 646987 | 4077213 | 0.00032 | 146.44 | 1.5 | ANNUAL | House 49 | RP_H49 |
| 647898 | 4076033 | 0.00023 | 163.83 | 1.5 | ANNUAL | House 5 | RP_H5 |
| 647242 | 4077227 | 0.00039 | 154.85 | 1.5 | ANNUAL | House 50 | RP_H50 |
| 646773 | 4077063 | 0.00026 | 159 | 1.5 | ANNUAL | House 51 | RP_H51 |
| 647104 | 4077118 | 0.00032 | 148.99 | 1.5 | ANNUAL | House 52 | RP_H52 |
| 647292 | 4077123 | 0.00036 | 158.62 | 1.5 | ANNUAL | House 53 | RP_H53 |
| 646765 | 4076978 | 0.00025 | 158.67 | 1.5 | ANNUAL | House 54 | RP_H54 |
| 646996 | 4076984 | 0.00027 | 152.34 | 1.5 | ANNUAL | House 55 | RP_H55 |
| 647317 | 4077031 | 0.00033 | 160.22 | 1.5 | ANNUAL | House 56 | RP_H56 |
| 647398 | 4077013 | 0.00034 | 161.26 | 1.5 | ANNUAL | House 57 | RP_H57 |
| 646979 | 4076904 | 0.00025 | 156.81 | 1.5 | ANNUAL | House 58 | RP_H58 |
| 647015 | 4076807 | 0.00024 | 156.21 | 1.5 | ANNUAL | House 59 | RP_H59 |
| 648045 | 4076018 | 0.00026 | 168.26 | 1.5 | ANNUAL | House 6 | RP_H6 |
| 647164 | 4076802 | 0.00025 | 154.38 | 1.5 | ANNUAL | House 60 | RP_H60 |
| 647311 | 4076940 | 0.0003 | 162.49 | 1.5 | ANNUAL | House 61 | RP_H61 |
| 647298 | 4076805 | 0.00027 | 158 | 1.5 | ANNUAL | House 62 | RP_H62 |
| 647447 | 4076900 | 0.00031 | 159.45 | 1.5 | ANNUAL | House 63 | RP_H63 |
| 647464 | 4076781 | 0.00028 | 159.32 | 1.5 | ANNUAL | House 64 | RP_H64 |
| 647512 | 4076536 | 0.00025 | 159 | 1.5 | ANNUAL | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00013 | 179.58 | 1.5 | ANNUAL | House 66 | RP_H66 |
| 647131 | 4077336 | 0.0004 | 146.77 | 1.5 | ANNUAL | House 67 | RP_H67 |
| 646798 | 4076740 | 0.00022 | 156.07 | 1.5 | ANNUAL | House 68 | RP_H68 |
| 646900 | 4076802 | 0.00023 | 159 | 1.5 | ANNUAL | House 69 | RP_H69 |
| 648126 | 4075955 | 0.00028 | 171.51 | 1.5 | ANNUAL | House 7 | RP_H7 |
| 647317 | 4076662 | 0.00025 | 159.9 | 1.5 | ANNUAL | House 70 | RP_H70 |
| 648249 | 4075970 | 0.00032 | 183.42 | 1.5 | ANNUAL | House 8 | RP_H8 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 1-yr 2020

14:01:41

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|-------|
| 648219 | 4076109 | 0.00032 | 182.28 | 1.5 | ANNUAL | House 9 | RP_H9 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2020

14:01:41

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.02365 | 123.85 | 1.5 | 3-HR | AQ Monitoring Station | AQ_ST_1 | |
| 643904 | 4077719 | 0.02212 | 105.68 | 1.5 | 3-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642057 | 4079416 | 0.01121 | 85.12 | 1.5 | 3-HR | Dunne Park | CR_PK_1 | |
| 642179 | 4079950 | 0.02106 | 117.99 | 1.5 | 3-HR | Vista Park Hill Park | CR_PK_2 | |
| 644733 | 4078753 | 0.02785 | 106.44 | 1.5 | 3-HR | Las Brisas Park | CR_PK_3 | |
| 645609 | 4078854 | 0.0234 | 112.86 | 1.5 | 3-HR | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238 | 4078807 | 0.02287 | 95.25 | 1.5 | 3-HR | Veterans Memorial Park | CR_PK_5 | |
| 645311 | 4076559 | 0.01989 | 134.61 | 1.5 | 3-HR | Park 6 | CR_PK_6 | |
| 649582 | 4073424 | 0.03324 | 159.96 | 1.5 | 3-HR | Park 7 | CR_PK_7 | |
| 645145 | 4077181 | 0.0237 | 133 | 1.5 | 3-HR | Cerra Vista Elem School | CR_SC_1 | |
| 642905 | 4079955 | 0.02174 | 86 | 1.5 | 3-HR | San Andreas Continuation | CR_SC_10 | |
| 645851 | 4074015 | 0.02134 | 123 | 1.5 | 3-HR | SouthSide School | CR_SC_11 | |
| 642106 | 4078176 | 0.01754 | 91 | 1.5 | 3-HR | School 12 | CR_SC_12 | |
| 646059 | 4078443 | 0.02925 | 128.52 | 1.5 | 3-HR | Rancho Santana School | CR_SC_13 | - |
| 647269 | 4075575 | 0.02099 | 158 | 1.5 | 3-HR | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.02273 | 159 | 1.5 | 3-HR | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644110 | 4078389 | 0.0174 | 98.2 | 1.5 | 3-HR | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.01709 | 101.23 | 1.5 | 3-HR | Hollister Montessori School | CR_SC_3 | |
| 642961 | 4078621 | 0.01599 | 92 | 1.5 | 3-HR | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.02202 | 88 | 1.5 | 3-HR | Marguerite Maze Middle School | CR_SC_5 | |
| 641630 | 4079153 | 0.01395 | 85 | 1.5 | 3-HR | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.01538 | 98.22 | 1.5 | 3-HR | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.02754 | 87 | 1.5 | 3-HR | Gabilan Hills Elementary School | CR_SC_8 | |
| 642245 | 4078413 | 0.01742 | 90.17 | 1.5 | 3-HR | San Benito High School | CR_SC_9 | |
| 642083 | 4079794 | 0.01772 | 87.58 | 1.5 | 3-HR | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.02715 | 146.33 | 1.5 | 3-HR | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 0.03515 | 189.45 | 1.5 | 3-HR | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 0.05978 | 155.2 | 1.5 | 3-HR | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.02449 | 160 | 1.5 | 3-HR | Grid Receptor 10 | G10 | 4 |
| 651344 | 4075573 | 0.1171 | 252.9 | 1.5 | 3-HR | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.05487 | 165.9 | 1.5 | 3-HR | Grid Receptor 11 | G11 | 4 |
| 648144 | 4078773 | 0.06709 | 159.6 | 1.5 | 3-HR | Grid Receptor 12 | G12 | |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2020

14:01:41

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 648144 | 4078373 | 0.06544 | 146.2 | 1.5 | 3-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.04585 | 158.3 | 1.5 | 3-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.0626 | 166.6 | 1.5 | 3-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.06202 | 175.4 | 1.5 | 3-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.05438 | 177.1 | 1.5 | 3-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.02658 | 178 | 1.5 | 3-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.02923 | 173 | 1.5 | 3-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.05048 | 145.4 | 1.5 | 3-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.04288 | 168.8 | 1.5 | 3-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.03298 | 173.5 | 1.5 | 3-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.03902 | 166.2 | 1.5 | 3-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.05752 | 145.4 | 1.5 | 3-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.07997 | 173.9 | 1.5 | 3-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.06741 | 179.6 | 1.5 | 3-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.11073 | 191 | 1.5 | 3-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.07438 | 209.2 | 1.5 | 3-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.05155 | 233.7 | 1.5 | 3-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.03634 | 199.9 | 1.5 | 3-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.03625 | 144.4 | 1.5 | 3-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.05565 | 195.5 | 1.5 | 3-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.03911 | 190.4 | 1.5 | 3-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.03533 | 165.4 | 1.5 | 3-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.03092 | 159.6 | 1.5 | 3-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.03439 | 183.5 | 1.5 | 3-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.06223 | 224 | 1.5 | 3-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.04372 | 205 | 1.5 | 3-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.1663 | 208.8 | 1.5 | 3-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.04594 | 134.6 | 1.5 | 3-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.03685 | 185.6 | 1.5 | 3-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.02374 | 187.4 | 1.5 | 3-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.02235 | 160.9 | 1.5 | 3-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.02569 | 200.5 | 1.5 | 3-HR | Grid Receptor 43 | G43 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2020

14:01:41

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 649344 | 4077973 | 0.02715 | 229 | 1.5 | 3-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.32037 | 253.3 | 1.5 | 3-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.33455 | 220.2 | 1.5 | 3-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.10805 | 227.2 | 1.5 | 3-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.03941 | 163.8 | 1.5 | 3-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.05499 | 205.5 | 1.5 | 3-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.02606 | 176.1 | 1.5 | 3-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.02804 | 195 | 1.5 | 3-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.02809 | 196.1 | 1.5 | 3-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.02496 | 215.3 | 1.5 | 3-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.01744 | 221.6 | 1.5 | 3-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.2049 | 211.7 | 1.5 | 3-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.11806 | 237.7 | 1.5 | 3-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.03956 | 158.4 | 1.5 | 3-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.06767 | 204.2 | 1.5 | 3-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.02975 | 173 | 1.5 | 3-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.02225 | 171 | 1.5 | 3-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.01999 | 204.6 | 1.5 | 3-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.01423 | 216.5 | 1.5 | 3-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.24911 | 257.7 | 1.5 | 3-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.09217 | 231.4 | 1.5 | 3-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.18292 | 249.4 | 1.5 | 3-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.04527 | 164.7 | 1.5 | 3-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.0628 | 216.4 | 1.5 | 3-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.01685 | 177 | 1.5 | 3-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.01031 | 180.9 | 1.5 | 3-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.012 | 196.6 | 1.5 | 3-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.0175 | 236.9 | 1.5 | 3-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.13688 | 261.3 | 1.5 | 3-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.22438 | 260.9 | 1.5 | 3-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.10452 | 226.7 | 1.5 | 3-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.02214 | 164 | 1.5 | 3-HR | Grid Receptor 8 | G8 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2020

14:01:41

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

| 101 | CIVII 1 1 . (11,12 | (1,5(171,1 15.5),5(171,1 0. | 2),521,215,221, | 110,211,113,31 | 1,710,271,10 | | | _ |
|--------|--------------------|-----------------------------|-----------------|----------------|--------------|-----------------------|-----|----|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
| 650544 | 4075573 | 0.42915 | 268.2 | 1.5 | 3-HR | Grid Receptor 80 | G80 | PM |
| 650944 | 4079173 | 0.00958 | 181.3 | 1.5 | 3-HR | Grid Receptor 81 | G81 | |
| 650944 | 4078773 | 0.01102 | 178.4 | 1.5 | 3-HR | Grid Receptor 82 | G82 | |
| 650944 | 4078373 | 0.01209 | 214.8 | 1.5 | 3-HR | Grid Receptor 83 | G83 | |
| 650944 | 4077973 | 0.06767 | 249.9 | 1.5 | 3-HR | Grid Receptor 84 | G84 | |
| 650944 | 4077573 | 0.22397 | 276.5 | 1.5 | 3-HR | Grid Receptor 85 | G85 | |
| 650944 | 4077173 | 0.06007 | 225.6 | 1.5 | 3-HR | Grid Receptor 86 | G86 | |
| 650944 | 4076773 | 0.0697 | 219.8 | 1.5 | 3-HR | Grid Receptor 87 | G87 | |
| 650944 | 4076373 | 0.07749 | 209.2 | 1.5 | 3-HR | Grid Receptor 88 | G88 | |
| 650944 | 4075973 | 0.0648 | 216.6 | 1.5 | 3-HR | Grid Receptor 89 | G89 | |
| 647744 | 4075973 | 0.02167 | 160.7 | 1.5 | 3-HR | Grid Receptor 9 | G9 | |
| 650944 | 4075573 | 0.07157 | 243.2 | 1.5 | 3-HR | Grid Receptor 90 | G90 | |
| 651344 | 4079173 | 0.01042 | 191 | 1.5 | 3-HR | Grid Receptor 91 | G91 | |
| 651344 | 4078773 | 0.0114 | 181 | 1.5 | 3-HR | Grid Receptor 92 | G92 | |
| 651344 | 4078373 | 0.02435 | 214.3 | 1.5 | 3-HR | Grid Receptor 93 | G93 | |
| 651344 | 4077973 | 0.06071 | 248.4 | 1.5 | 3-HR | Grid Receptor 94 | G94 | |
| 651344 | 4077573 | 0.04638 | 213.2 | 1.5 | 3-HR | Grid Receptor 95 | G95 | |
| 651344 | 4077173 | 0.04879 | 213.6 | 1.5 | 3-HR | Grid Receptor 96 | G96 | |
| 651344 | 4076773 | 0.05733 | 203.5 | 1.5 | 3-HR | Grid Receptor 97 | G97 | |
| 651344 | 4076373 | 0.06165 | 205.6 | 1.5 | 3-HR | Grid Receptor 98 | G98 | |
| 651344 | 4075973 | 0.05405 | 205.8 | 1.5 | 3-HR | Grid Receptor 99 | G99 | |
| 648584 | 4077523 | 0.06915 | 183.61 | 1.5 | 3-HR | Boundary Perimeter 1 | P1 | |
| 649484 | 4077537 | 0.29651 | 254.01 | 1.5 | 3-HR | Boundary Perimeter 10 | P10 | |
| 649584 | 4077539 | 0.02369 | 235.3 | 1.5 | 3-HR | Boundary Perimeter 11 | P11 | |
| 649684 | 4077540 | 0.01953 | 221.29 | 1.5 | 3-HR | Boundary Perimeter 12 | P12 | |
| 649784 | 4077541 | 0.02091 | 222.37 | 1.5 | 3-HR | Boundary Perimeter 13 | P13 | |
| 649884 | 4077542 | 0.02527 | 233.6 | 1.5 | 3-HR | Boundary Perimeter 14 | P14 | |
| 649984 | 4077543 | 0.15618 | 249.54 | 1.5 | 3-HR | Boundary Perimeter 15 | P15 | |
| 650084 | 4077546 | 0.3448 | 258.89 | 1.5 | 3-HR | Boundary Perimeter 16 | P16 | |
| 650184 | 4077548 | 0.18238 | 259.56 | 1.5 | 3-HR | Boundary Perimeter 17 | P17 | |
| 650284 | 4077550 | 0.1616 | 256.77 | 1.5 | 3-HR | Boundary Perimeter 18 | P18 | |
| 650384 | 4077552 | 0.04654 | 242.37 | 1.5 | 3-HR | Boundary Perimeter 19 | P19 | |
| | | | | | | · | | |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2020

14:01:41

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|-----|
| 648684 | 4077525 | 0.08618 | 197.16 | 1.5 | 3-HR | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.04278 | 242.23 | 1.5 | 3-HR | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.11112 | 259.71 | 1.5 | 3-HR | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.12154 | 257.58 | 1.5 | 3-HR | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.22376 | 267.9 | 1.5 | 3-HR | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.2038 | 275.91 | 1.5 | 3-HR | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.19658 | 265.73 | 1.5 | 3-HR | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.09588 | 251.08 | 1.5 | 3-HR | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.10968 | 252.83 | 1.5 | 3-HR | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.06187 | 246.1 | 1.5 | 3-HR | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.06907 | 241.37 | 1.5 | 3-HR | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.09387 | 209.74 | 1.5 | 3-HR | Boundary Perimeter 3 | Р3 |
| 650791 | 4076854 | 0.08378 | 246.79 | 1.5 | 3-HR | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.07426 | 228.75 | 1.5 | 3-HR | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.07656 | 217.76 | 1.5 | 3-HR | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.08202 | 221.2 | 1.5 | 3-HR | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.08497 | 220.83 | 1.5 | 3-HR | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.08606 | 223.42 | 1.5 | 3-HR | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.08424 | 222.46 | 1.5 | 3-HR | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.08449 | 223.19 | 1.5 | 3-HR | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.08716 | 222.1 | 1.5 | 3-HR | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.09267 | 217.03 | 1.5 | 3-HR | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.08059 | 214.25 | 1.5 | 3-HR | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.10383 | 214.82 | 1.5 | 3-HR | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.1593 | 214.91 | 1.5 | 3-HR | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.15602 | 214.09 | 1.5 | 3-HR | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.17344 | 211.53 | 1.5 | 3-HR | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.27538 | 210.17 | 1.5 | 3-HR | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.25629 | 208.52 | 1.5 | 3-HR | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.30266 | 207.5 | 1.5 | 3-HR | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.35013 | 205.17 | 1.5 | 3-HR | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.12612 | 202.16 | 1.5 | 3-HR | Boundary Perimeter 48 | P48 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2020

14:01:41

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|--------|
| 649226 | 4076535 | 0.09145 | 196.38 | 1.5 | 3-HR | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.05562 | 221.41 | 1.5 | 3-HR | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.15791 | 195.87 | 1.5 | 3-HR | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.20218 | 196.32 | 1.5 | 3-HR | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.16709 | 192.42 | 1.5 | 3-HR | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.15196 | 192.46 | 1.5 | 3-HR | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.15652 | 191.63 | 1.5 | 3-HR | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.15923 | 186.32 | 1.5 | 3-HR | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.13164 | 179.81 | 1.5 | 3-HR | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.10467 | 176.23 | 1.5 | 3-HR | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.11962 | 175.02 | 1.5 | 3-HR | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.11166 | 180.62 | 1.5 | 3-HR | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.04902 | 216.54 | 1.5 | 3-HR | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.09442 | 183.47 | 1.5 | 3-HR | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.10398 | 202.88 | 1.5 | 3-HR | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.07904 | 178.21 | 1.5 | 3-HR | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.06624 | 176.25 | 1.5 | 3-HR | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.08244 | 176 | 1.5 | 3-HR | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.09023 | 175.24 | 1.5 | 3-HR | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.06023 | 175.13 | 1.5 | 3-HR | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.03197 | 230.71 | 1.5 | 3-HR | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.1394 | 248.08 | 1.5 | 3-HR | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.39754 | 258.43 | 1.5 | 3-HR | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.02795 | 127.38 | 1.5 | 3-HR | New Development | RP_G1 |
| 645930 | 4078083 | 0.03161 | 127.58 | 1.5 | 3-HR | New Development | RP_G10 |
| 646030 | 4078083 | 0.03344 | 130.56 | 1.5 | 3-HR | New Development | RP_G11 |
| 646130 | 4078083 | 0.03501 | 134.35 | 1.5 | 3-HR | New Development | RP_G12 |
| 646230 | 4078083 | 0.03625 | 139.22 | 1.5 | 3-HR | New Development | RP_G13 |
| 646330 | 4078083 | 0.03704 | 144.65 | 1.5 | 3-HR | New Development | RP_G14 |
| 646430 | 4078083 | 0.03657 | 142.28 | 1.5 | 3-HR | New Development | RP_G15 |
| 646530 | 4078083 | 0.03597 | 146.76 | 1.5 | 3-HR | New Development | RP_G16 |
| 646630 | 4078083 | 0.0346 | 150.64 | 1.5 | 3-HR | New Development | RP_G17 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2020

14:01:41

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|-----------------|--------|---|
| 646730 | 4078083 | 0.03345 | 155.4 | 1.5 | 3-HR | New Development | RP_G18 | |
| 645930 | 4078183 | 0.03372 | 127.22 | 1.5 | 3-HR | New Development | RP_G19 | |
| 646030 | 4077983 | 0.03036 | 131.21 | 1.5 | 3-HR | New Development | RP_G2 | 1 |
| 646030 | 4078183 | 0.03478 | 130.56 | 1.5 | 3-HR | New Development | RP_G20 | 1 |
| 646130 | 4078183 | 0.03537 | 133.89 | 1.5 | 3-HR | New Development | RP_G21 | |
| 646230 | 4078183 | 0.03569 | 140.45 | 1.5 | 3-HR | New Development | RP_G22 | 1 |
| 646330 | 4078183 | 0.03543 | 146.94 | 1.5 | 3-HR | New Development | RP_G23 | |
| 646430 | 4078183 | 0.03348 | 140.23 | 1.5 | 3-HR | New Development | RP_G24 | |
| 646530 | 4078183 | 0.03196 | 147.25 | 1.5 | 3-HR | New Development | RP_G25 | |
| 646630 | 4078183 | 0.0315 | 151.56 | 1.5 | 3-HR | New Development | RP_G26 | |
| 646730 | 4078183 | 0.0307 | 157.78 | 1.5 | 3-HR | New Development | RP_G27 | |
| 645930 | 4078283 | 0.03402 | 126.06 | 1.5 | 3-HR | New Development | RP_G28 | |
| 646030 | 4078283 | 0.03414 | 129.56 | 1.5 | 3-HR | New Development | RP_G29 | |
| 646130 | 4077983 | 0.03271 | 135.89 | 1.5 | 3-HR | New Development | RP_G3 | |
| 646130 | 4078283 | 0.03374 | 132.89 | 1.5 | 3-HR | New Development | RP_G30 | |
| 646230 | 4078283 | 0.03299 | 139.24 | 1.5 | 3-HR | New Development | RP_G31 | |
| 646330 | 4078283 | 0.03148 | 142.68 | 1.5 | 3-HR | New Development | RP_G32 | |
| 646430 | 4078283 | 0.02989 | 140.02 | 1.5 | 3-HR | New Development | RP_G33 | |
| 646530 | 4078283 | 0.0294 | 147.22 | 1.5 | 3-HR | New Development | RP_G34 | |
| 646630 | 4078283 | 0.02822 | 151.56 | 1.5 | 3-HR | New Development | RP_G35 | |
| 646730 | 4078283 | 0.02895 | 156.78 | 1.5 | 3-HR | New Development | RP_G36 | |
| 646230 | 4077983 | 0.03474 | 139.18 | 1.5 | 3-HR | New Development | RP_G4 | |
| 646330 | 4077983 | 0.03628 | 140.76 | 1.5 | 3-HR | New Development | RP_G5 | |
| 646430 | 4077983 | 0.03746 | 143.89 | 1.5 | 3-HR | New Development | RP_G6 | |
| 646530 | 4077983 | 0.03789 | 145.22 | 1.5 | 3-HR | New Development | RP_G7 | |
| 646630 | 4077983 | 0.03765 | 147.21 | 1.5 | 3-HR | New Development | RP_G8 | |
| 646730 | 4077983 | 0.03655 | 148.3 | 1.5 | 3-HR | New Development | RP_G9 | |
| 648659 | 4077241 | 0.12766 | 205.79 | 1.5 | 3-HR | House 1 | RP_H1 | M |
| 648071 | 4076116 | 0.02492 | 169.6 | 1.5 | 3-HR | House 10 | RP_H10 | |
| 648247 | 4076278 | 0.02831 | 184.55 | 1.5 | 3-HR | House 11 | RP_H11 | |
| 648027 | 4076255 | 0.02604 | 169.38 | 1.5 | 3-HR | House 12 | RP_H12 | |
| 648066 | 4076359 | 0.02584 | 173.83 | 1.5 | 3-HR | House 13 | RP_H13 | |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 3-hr 2020

14:01:41

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 648139 | 4076400 | 0.02607 | 178.22 | 1.5 | 3-HR | House 14 | RP H14 |
| 648255 | 4076411 | 0.0277 | 191.28 | 1.5 | 3-HR | House 15 | RP H15 |
| 647878 | 4076365 | 0.02356 | 165.39 | 1.5 | 3-HR | House 16 | RP H16 |
| 647520 | 4076206 | 0.02188 | 159 | 1.5 | 3-HR | House 17 | RP H17 |
| 647921 | 4076247 | 0.025 | 164 | 1.5 | 3-HR | House 18 | RP H18 |
| 647709 | 4076352 | 0.02215 | 163.52 | 1.5 | 3-HR | House 19 | RP_H19 |
| 648372 | 4075470 | 0.05724 | 173.69 | 1.5 | 3-HR | House 2 | RP_H2 |
| 647704 | 4076251 | 0.02317 | 162.17 | 1.5 | 3-HR | House 20 | RP_H20 |
| 647719 | 4076104 | 0.02313 | 159.35 | 1.5 | 3-HR | House 21 | RP_H21 |
| 647843 | 4076125 | 0.02405 | 163 | 1.5 | 3-HR | House 22 | RP_H22 |
| 647842 | 4076500 | 0.02061 | 167.93 | 1.5 | 3-HR | House 23 | RP_H23 |
| 647728 | 4076644 | 0.03245 | 164.15 | 1.5 | 3-HR | House 24 | RP_H24 |
| 647824 | 4076644 | 0.03443 | 168.29 | 1.5 | 3-HR | House 25 | RP_H25 |
| 647530 | 4076497 | 0.02112 | 159.56 | 1.5 | 3-HR | House 26 | RP_H26 |
| 647810 | 4076854 | 0.05082 | 162.9 | 1.5 | 3-HR | House 27 | RP_H27 |
| 647697 | 4076989 | 0.04956 | 161.42 | 1.5 | 3-HR | House 28 | RP_H28 |
| 648226 | 4076182 | 0.02699 | 183.22 | 1.5 | 3-HR | House 29 | RP_H29 |
| 647678 | 4075969 | 0.02148 | 159.5 | 1.5 | 3-HR | House 3 | RP_H3 |
| 645876 | 4077487 | 0.03088 | 127.13 | 1.5 | 3-HR | House 30 | RP_H30 |
| 650902 | 4076062 | 0.05911 | 215.24 | 1.5 | 3-HR | House 31 | RP_H31 |
| 651490 | 4076597 | 0.05728 | 205.5 | 1.5 | 3-HR | House 32 | RP_H32 |
| 651565 | 4077067 | 0.04534 | 213.93 | 1.5 | 3-HR | House 33 | RP_H33 |
| 648673 | 4075307 | 0.05072 | 225.91 | 1.5 | 3-HR | House 34 | RP_H34 |
| 648384 | 4075469 | 0.05686 | 174.44 | 1.5 | 3-HR | House 35 | RP_H35 |
| 646379 | 4077233 | 0.03643 | 146 | 1.5 | 3-HR | House 36 | RP_H36 |
| 651850 | 4075865 | 0.04501 | 201.97 | 1.5 | 3-HR | House 37 | RP_H37 |
| 652045 | 4076210 | 0.03969 | 196.88 | 1.5 | 3-HR | House 38 | RP_H38 |
| 652256 | 4076391 | 0.04194 | 197.06 | 1.5 | 3-HR | House 39 | RP_H39 |
| 647815 | 4075985 | 0.02198 | 162.04 | 1.5 | 3-HR | House 4 | RP_H4 |
| 646854 | 4077373 | 0.03438 | 145.99 | 1.5 | 3-HR | House 40 | RP_H40 |
| 647050 | 4077360 | 0.0335 | 145 | 1.5 | 3-HR | House 41 | RP_H41 |
| 647286 | 4077474 | 0.03835 | 149.68 | 1.5 | 3-HR | House 42 | RP_H42 |

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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 647359 | 4077340 | 0.0324 | 154.45 | 1.5 | 3-HR | House 43 | RP_H43 |
| 647490 | 4077329 | 0.03648 | 162.28 | 1.5 | 3-HR | House 44 | RP_H44 |
| 647522 | 4077252 | 0.03554 | 164.3 | 1.5 | 3-HR | House 45 | RP_H45 |
| 647518 | 4077139 | 0.04349 | 164.01 | 1.5 | 3-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.03893 | 151.53 | 1.5 | 3-HR | House 47 | RP_H47 |
| 646779 | 4077128 | 0.04079 | 158.51 | 1.5 | 3-HR | House 48 | RP_H48 |
| 646987 | 4077213 | 0.04 | 146.44 | 1.5 | 3-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.02297 | 163.83 | 1.5 | 3-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.03972 | 154.85 | 1.5 | 3-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.04003 | 159 | 1.5 | 3-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.04268 | 148.99 | 1.5 | 3-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.0443 | 158.62 | 1.5 | 3-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.03751 | 158.67 | 1.5 | 3-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.04064 | 152.34 | 1.5 | 3-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.0463 | 160.22 | 1.5 | 3-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.04727 | 161.26 | 1.5 | 3-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.03765 | 156.81 | 1.5 | 3-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.03281 | 156.21 | 1.5 | 3-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.02585 | 168.26 | 1.5 | 3-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.0349 | 154.38 | 1.5 | 3-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.04533 | 162.49 | 1.5 | 3-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.03787 | 158 | 1.5 | 3-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.04595 | 159.45 | 1.5 | 3-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.03951 | 159.32 | 1.5 | 3-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.02229 | 159 | 1.5 | 3-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.01102 | 179.58 | 1.5 | 3-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.03411 | 146.77 | 1.5 | 3-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.02536 | 156.07 | 1.5 | 3-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.03084 | 159 | 1.5 | 3-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.02909 | 171.51 | 1.5 | 3-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.02728 | 159.9 | 1.5 | 3-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.03135 | 183.42 | 1.5 | 3-HR | House 8 | RP_H8 |

09/30/21

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14:01:41

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|-------|
| 648219 | 4076109 | 0.02774 | 182.28 | 1.5 | 3-HR | House 9 | RP_H9 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 24-hr 2020

14:01:41

- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|----------------|------------------------------------|-------------|----------|
| 645996 | 4078698 | 0.00739 | 123.85 | 1.5 | 24-HR | AQ Monitoring Station | AQ_ST_1 | 1 |
| 643904 | 4077719 | 0.00443 | 105.68 | 1.5 | 24-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 | 1 |
| 642057 | 4079416 | 0.00357 | 85.12 | 1.5 | 24-HR | Dunne Park | CR_PK_1 | 1 |
| 642179 | 4079950 | 0.00475 | 117.99 | 1.5 | _ _ | | CR_PK_2 | 1 |
| 644733 | 4078753 | 0.0077 | 106.44 | 1.5 | 24-HR | Las Brisas Park | CR_PK_3 | 1 |
| 645609 | 4078854 | 0.00764 | 112.86 | 1.5 | 24-HR | Frank Klauer Memorial Park | CR_PK_4 | 1 |
| 644238 | 4078807 | 0.00611 | 95.25 | 1.5 | 24-HR | Veterans Memorial Park | CR_PK_5 | 1 |
| 645311 | 4076559 | 0.0037 | 134.61 | 1.5 | 24-HR | Park 6 | CR_PK_6 | 1 |
| 649582 | 4073424 | 0.00596 | 159.96 | 1.5 | 24-HR | Park 7 | CR_PK_7 | 1 |
| 645145 | 4077181 | 0.00311 | 133 | 1.5 | 24-HR | Cerra Vista Elem School | CR_SC_1 | 1 |
| 642905 | 4079955 | 0.00568 | 86 | 1.5 | 24-HR | San Andreas Continuation | CR_SC_10 | 1 |
| 645851 | 4074015 | 0.00306 | 123 | 1.5 | 24-HR | SouthSide School | CR_SC_11 | 1 |
| 642106 | 4078176 | 0.00441 | 91 | 1.5 | 24-HR | School 12 | CR SC 12 | |
| 646059 | 4078443 | 0.01001 | 128.52 | 1.5 | 24-HR | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.00275 | 158 | 1.5 | 24-HR | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.00465 | 159 | 1.5 | 24-HR | Tres Pinos Union Elementary School | CR_SC_15 | 1 |
| 644110 | 4078389 | 0.00474 | 98.2 | 1.5 | 24-HR | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.00291 | 101.23 | 1.5 | 24-HR | Hollister Montessori School | CR_SC_3 | 1 |
| 642961 | 4078621 | 0.0045 | 92 | 1.5 | 24-HR | Rancho San Justo Middle School | CR_SC_4 | 1 |
| 643980 | 4079743 | 0.00587 | 88 | 1.5 | 24-HR | Marguerite Maze Middle School | CR_SC_5 | 1 |
| 641630 | 4079153 | 0.00384 | 85 | 1.5 | 24-HR | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.00294 | 98.22 | 1.5 | 24-HR | Ladd Lane Elementary School | CR_SC_7 | 1 |
| 644003 | 4080079 | 0.00435 | 87 | 1.5 | 24-HR | Gabilan Hills Elementary School | CR_SC_8 | 1 |
| 642245 | 4078413 | 0.0048 | 90.17 | 1.5 | 24-HR | San Benito High School | CR_SC_9 | 1 |
| 642083 | 4079794 | 0.00418 | 87.58 | 1.5 | 24-HR | Jovenes De Antano | CR_SR_1 | 1 |
| 646402 | 4076879 | 0.00361 | 146.33 | 1.5 | 24-HR | Workplace | CR_WP_1 | 1 |
| 648949 | 4077938 | 0.01108 | 189.45 | 1.5 | 24-HR | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 0.01058 | 155.2 | 1.5 | 24-HR | Grid Receptor 1 | <u>-</u> G1 | 1 |
| 647744 | 4075573 | 0.00322 | 160 | 1.5 | 24-HR | Grid Receptor 10 | G10 | 1 |
| 651344 | 4075573 | 0.0235 | 252.9 | 1.5 | 24-HR | Grid Receptor 100 | G100 | 1 |
| 648144 | 4079173 | 0.00704 | 165.9 | 1.5 | 24-HR | Grid Receptor 11 | G11 | 1 |
| 648144 | 4078773 | 0.00921 | 159.6 | 1.5 | 24-HR | Grid Receptor 12 | G12 | 1 |

09/30/21

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14:01:41

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|-------|------------------|-----|
| 648144 | 4078373 | 0.01476 | 146.2 | 1.5 | 24-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.01662 | 158.3 | 1.5 | 24-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.01752 | 166.6 | 1.5 | 24-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.02116 | 175.4 | 1.5 | 24-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.01332 | 177.1 | 1.5 | 24-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.00394 | 178 | 1.5 | 24-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.00388 | 173 | 1.5 | 24-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.01281 | 145.4 | 1.5 | 24-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.00554 | 168.8 | 1.5 | 24-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.00717 | 173.5 | 1.5 | 24-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.00847 | 166.2 | 1.5 | 24-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.00959 | 145.4 | 1.5 | 24-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.0132 | 173.9 | 1.5 | 24-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.02199 | 179.6 | 1.5 | 24-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.02251 | 191 | 1.5 | 24-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.04126 | 209.2 | 1.5 | 24-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.01065 | 233.7 | 1.5 | 24-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.00485 | 199.9 | 1.5 | 24-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.01309 | 144.4 | 1.5 | 24-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.00925 | 195.5 | 1.5 | 24-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.00493 | 190.4 | 1.5 | 24-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.00447 | 165.4 | 1.5 | 24-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.00628 | 159.6 | 1.5 | 24-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.01054 | 183.5 | 1.5 | 24-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.01932 | 224 | 1.5 | 24-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.00799 | 205 | 1.5 | 24-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.03355 | 208.8 | 1.5 | 24-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.01361 | 134.6 | 1.5 | 24-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00842 | 185.6 | 1.5 | 24-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00301 | 187.4 | 1.5 | 24-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.00285 | 160.9 | 1.5 | 24-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.00328 | 200.5 | 1.5 | 24-HR | Grid Receptor 43 | G43 |

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* PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|-------|------------------|-----|
| 649344 | 4077973 | 0.00425 | 229 | 1.5 | 24-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.0402 | 253.3 | 1.5 | 24-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.09686 | 220.2 | 1.5 | 24-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.04015 | 227.2 | 1.5 | 24-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.01049 | 163.8 | 1.5 | 24-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.01817 | 205.5 | 1.5 | 24-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.0033 | 176.1 | 1.5 | 24-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00365 | 195 | 1.5 | 24-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00367 | 196.1 | 1.5 | 24-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.0033 | 215.3 | 1.5 | 24-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.0033 | 221.6 | 1.5 | 24-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.09636 | 211.7 | 1.5 | 24-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.0472 | 237.7 | 1.5 | 24-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.01892 | 158.4 | 1.5 | 24-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.01914 | 204.2 | 1.5 | 24-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.00376 | 173 | 1.5 | 24-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.00291 | 171 | 1.5 | 24-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00266 | 204.6 | 1.5 | 24-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.00297 | 216.5 | 1.5 | 24-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.03759 | 257.7 | 1.5 | 24-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.04883 | 231.4 | 1.5 | 24-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.04878 | 249.4 | 1.5 | 24-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.00759 | 164.7 | 1.5 | 24-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.02064 | 216.4 | 1.5 | 24-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00222 | 177 | 1.5 | 24-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00234 | 180.9 | 1.5 | 24-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00235 | 196.6 | 1.5 | 24-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.00525 | 236.9 | 1.5 | 24-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.03023 | 261.3 | 1.5 | 24-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.05117 | 260.9 | 1.5 | 24-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.03672 | 226.7 | 1.5 | 24-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.00332 | 164 | 1.5 | 24-HR | Grid Receptor 8 | G8 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 24-hr 2020

14:01:41

- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-----------------------|-----|
| 650544 | 4075573 | 0.07921 | 268.2 | 1.5 | 24-HR | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.00199 | 181.3 | 1.5 | 24-HR | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00188 | 178.4 | 1.5 | 24-HR | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00235 | 214.8 | 1.5 | 24-HR | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.0149 | 249.9 | 1.5 | 24-HR | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.02817 | 276.5 | 1.5 | 24-HR | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.01342 | 225.6 | 1.5 | 24-HR | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.01926 | 219.8 | 1.5 | 24-HR | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.03409 | 209.2 | 1.5 | 24-HR | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.02599 | 216.6 | 1.5 | 24-HR | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.00302 | 160.7 | 1.5 | 24-HR | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.02459 | 243.2 | 1.5 | 24-HR | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00162 | 191 | 1.5 | 24-HR | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00175 | 181 | 1.5 | 24-HR | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.00416 | 214.3 | 1.5 | 24-HR | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.00773 | 248.4 | 1.5 | 24-HR | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.01258 | 213.2 | 1.5 | 24-HR | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.01163 | 213.6 | 1.5 | 24-HR | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.01556 | 203.5 | 1.5 | 24-HR | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.02854 | 205.6 | 1.5 | 24-HR | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.01434 | 205.8 | 1.5 | 24-HR | Grid Receptor 99 | G99 |
| 648584 | 4077523 | 0.02297 | 183.61 | 1.5 | 24-HR | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 0.05078 | 254.01 | 1.5 | 24-HR | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.00344 | 235.3 | 1.5 | 24-HR | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.00313 | 221.29 | 1.5 | 24-HR | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00347 | 222.37 | 1.5 | 24-HR | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.00356 | 233.6 | 1.5 | 24-HR | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.02748 | 249.54 | 1.5 | 24-HR | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 0.05119 | 258.89 | 1.5 | 24-HR | Boundary Perimeter 16 | P16 |
| 650184 | 4077548 | 0.04821 | 259.56 | 1.5 | 24-HR | Boundary Perimeter 17 | P17 |
| 650284 | 4077550 | 0.04024 | 256.77 | 1.5 | 24-HR | Boundary Perimeter 18 | P18 |
| 650384 | 4077552 | 0.00849 | 242.37 | 1.5 | 24-HR | Boundary Perimeter 19 | P19 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 24-hr 2020

14:01:41

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-----------------------|-----|
| 648684 | 4077525 | 0.02298 | 197.16 | 1.5 | 24-HR | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.00943 | 242.23 | 1.5 | 24-HR | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.02177 | 259.71 | 1.5 | 24-HR | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.01542 | 257.58 | 1.5 | 24-HR | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.0282 | 267.9 | 1.5 | 24-HR | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.02647 | 275.91 | 1.5 | 24-HR | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.02745 | 265.73 | 1.5 | 24-HR | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.01841 | 251.08 | 1.5 | 24-HR | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.02041 | 252.83 | 1.5 | 24-HR | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.02062 | 246.1 | 1.5 | 24-HR | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.01725 | 241.37 | 1.5 | 24-HR | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.02007 | 209.74 | 1.5 | 24-HR | Boundary Perimeter 3 | Р3 |
| 650791 | 4076854 | 0.02038 | 246.79 | 1.5 | 24-HR | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.02095 | 228.75 | 1.5 | 24-HR | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.02205 | 217.76 | 1.5 | 24-HR | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.02367 | 221.2 | 1.5 | 24-HR | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.02486 | 220.83 | 1.5 | 24-HR | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.02565 | 223.42 | 1.5 | 24-HR | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.02605 | 222.46 | 1.5 | 24-HR | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.02755 | 223.19 | 1.5 | 24-HR | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.02932 | 222.1 | 1.5 | 24-HR | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.03198 | 217.03 | 1.5 | 24-HR | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.0199 | 214.25 | 1.5 | 24-HR | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.03699 | 214.82 | 1.5 | 24-HR | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.05569 | 214.91 | 1.5 | 24-HR | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.07537 | 214.09 | 1.5 | 24-HR | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.06868 | 211.53 | 1.5 | 24-HR | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.10312 | 210.17 | 1.5 | 24-HR | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.10046 | 208.52 | 1.5 | 24-HR | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.11807 | 207.5 | 1.5 | 24-HR | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.10784 | 205.17 | 1.5 | 24-HR | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.02685 | 202.16 | 1.5 | 24-HR | Boundary Perimeter 48 | P48 |

PMI

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 24-hr 2020

14:01:41

* MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-----------------------|--------|
| 649226 | 4076535 | 0.02325 | 196.38 | 1.5 | 24-HR | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.01915 | 221.41 | 1.5 | 24-HR | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.03291 | 195.87 | 1.5 | 24-HR | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.05896 | 196.32 | 1.5 | 24-HR | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.05873 | 192.42 | 1.5 | 24-HR | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.05126 | 192.46 | 1.5 | 24-HR | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.03876 | 191.63 | 1.5 | 24-HR | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.02946 | 186.32 | 1.5 | 24-HR | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.02635 | 179.81 | 1.5 | 24-HR | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.02462 | 176.23 | 1.5 | 24-HR | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.0227 | 175.02 | 1.5 | 24-HR | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.02879 | 180.62 | 1.5 | 24-HR | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.01462 | 216.54 | 1.5 | 24-HR | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.03174 | 183.47 | 1.5 | 24-HR | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.03173 | 202.88 | 1.5 | 24-HR | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.02261 | 178.21 | 1.5 | 24-HR | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.02518 | 176.25 | 1.5 | 24-HR | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.02569 | 176 | 1.5 | 24-HR | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.02497 | 175.24 | 1.5 | 24-HR | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.02399 | 175.13 | 1.5 | 24-HR | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.00849 | 230.71 | 1.5 | 24-HR | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.02332 | 248.08 | 1.5 | 24-HR | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.05946 | 258.43 | 1.5 | 24-HR | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.00803 | 127.38 | 1.5 | 24-HR | New Development | RP_G1 |
| 645930 | 4078083 | 0.0092 | 127.58 | 1.5 | 24-HR | New Development | RP_G10 |
| 646030 | 4078083 | 0.00993 | 130.56 | 1.5 | 24-HR | New Development | RP_G11 |
| 646130 | 4078083 | 0.01063 | 134.35 | 1.5 | 24-HR | New Development | RP_G12 |
| 646230 | 4078083 | 0.01126 | 139.22 | 1.5 | 24-HR | New Development | RP_G13 |
| 646330 | 4078083 | 0.01176 | 144.65 | 1.5 | 24-HR | New Development | RP_G14 |
| 646430 | 4078083 | 0.01203 | 142.28 | 1.5 | 24-HR | New Development | RP_G15 |
| 646530 | 4078083 | 0.01207 | 146.76 | 1.5 | 24-HR | New Development | RP_G16 |
| 646630 | 4078083 | 0.01184 | 150.64 | 1.5 | 24-HR | New Development | RP_G17 |

09/30/21

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14:01:41

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|-------|-----------------|--------|----|
| 646730 | 4078083 | 0.01132 | 155.4 | 1.5 | 24-HR | New Development | RP_G18 | |
| 645930 | 4078183 | 0.01015 | 127.22 | 1.5 | 24-HR | New Development | RP_G19 | 1 |
| 646030 | 4077983 | 0.00876 | 131.21 | 1.5 | 24-HR | New Development | RP_G2 | |
| 646030 | 4078183 | 0.01072 | 130.56 | 1.5 | 24-HR | New Development | RP_G20 | 1 |
| 646130 | 4078183 | 0.01118 | 133.89 | 1.5 | 24-HR | New Development | RP_G21 | |
| 646230 | 4078183 | 0.01149 | 140.45 | 1.5 | 24-HR | New Development | RP_G22 | 1 |
| 646330 | 4078183 | 0.0116 | 146.94 | 1.5 | 24-HR | New Development | RP_G23 | |
| 646430 | 4078183 | 0.01144 | 140.23 | 1.5 | 24-HR | New Development | RP_G24 | |
| 646530 | 4078183 | 0.01106 | 147.25 | 1.5 | 24-HR | New Development | RP_G25 | |
| 646630 | 4078183 | 0.01043 | 151.56 | 1.5 | 24-HR | New Development | RP_G26 | |
| 646730 | 4078183 | 0.00959 | 157.78 | 1.5 | 24-HR | New Development | RP_G27 | |
| 645930 | 4078283 | 0.01065 | 126.06 | 1.5 | 24-HR | New Development | RP_G28 | |
| 646030 | 4078283 | 0.01094 | 129.56 | 1.5 | 24-HR | New Development | RP_G29 | |
| 646130 | 4077983 | 0.00955 | 135.89 | 1.5 | 24-HR | New Development | RP_G3 | |
| 646130 | 4078283 | 0.01107 | 132.89 | 1.5 | 24-HR | New Development | RP_G30 | |
| 646230 | 4078283 | 0.01101 | 139.24 | 1.5 | 24-HR | New Development | RP_G31 |] |
| 646330 | 4078283 | 0.01075 | 142.68 | 1.5 | 24-HR | New Development | RP_G32 | |
| 646430 | 4078283 | 0.01025 | 140.02 | 1.5 | 24-HR | New Development | RP_G33 | |
| 646530 | 4078283 | 0.00957 | 147.22 | 1.5 | 24-HR | New Development | RP_G34 | |
| 646630 | 4078283 | 0.00872 | 151.56 | 1.5 | 24-HR | New Development | RP_G35 | |
| 646730 | 4078283 | 0.00776 | 156.78 | 1.5 | 24-HR | New Development | RP_G36 | |
| 646230 | 4077983 | 0.01036 | 139.18 | 1.5 | 24-HR | New Development | RP_G4 | |
| 646330 | 4077983 | 0.01113 | 140.76 | 1.5 | 24-HR | New Development | RP_G5 | |
| 646430 | 4077983 | 0.0118 | 143.89 | 1.5 | 24-HR | New Development | RP_G6 | |
| 646530 | 4077983 | 0.0123 | 145.22 | 1.5 | 24-HR | New Development | RP_G7 | |
| 646630 | 4077983 | 0.01257 | 147.21 | 1.5 | 24-HR | New Development | RP_G8 | |
| 646730 | 4077983 | 0.01254 | 148.3 | 1.5 | 24-HR | New Development | RP_G9 | |
| 648659 | 4077241 | 0.0354 | 205.79 | 1.5 | 24-HR | House 1 | RP_H1 | Ml |
| 648071 | 4076116 | 0.00351 | 169.6 | 1.5 | 24-HR | House 10 | RP_H10 | |
| 648247 | 4076278 | 0.004 | 184.55 | 1.5 | 24-HR | House 11 | RP_H11 | |
| 648027 | 4076255 | 0.00363 | 169.38 | 1.5 | 24-HR | House 12 | RP_H12 | |
| 648066 | 4076359 | 0.00375 | 173.83 | 1.5 | 24-HR | House 13 | RP_H13 | |

09/30/21

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14:01:41

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|--------|
| 648139 | 4076400 | 0.00398 | 178.22 | 1.5 | 24-HR | House 14 | RP_H14 |
| 648255 | 4076411 | 0.00436 | 191.28 | 1.5 | 24-HR | House 15 | RP_H15 |
| 647878 | 4076365 | 0.00346 | 165.39 | 1.5 | 24-HR | House 16 | RP_H16 |
| 647520 | 4076206 | 0.00301 | 159 | 1.5 | 24-HR | House 17 | RP_H17 |
| 647921 | 4076247 | 0.00347 | 164 | 1.5 | 24-HR | House 18 | RP_H18 |
| 647709 | 4076352 | 0.00325 | 163.52 | 1.5 | 24-HR | House 19 | RP_H19 |
| 648372 | 4075470 | 0.00735 | 173.69 | 1.5 | 24-HR | House 2 | RP_H2 |
| 647704 | 4076251 | 0.0032 | 162.17 | 1.5 | 24-HR | House 20 | RP_H20 |
| 647719 | 4076104 | 0.0032 | 159.35 | 1.5 | 24-HR | House 21 | RP_H21 |
| 647843 | 4076125 | 0.00334 | 163 | 1.5 | 24-HR | House 22 | RP_H22 |
| 647842 | 4076500 | 0.00365 | 167.93 | 1.5 | 24-HR | House 23 | RP_H23 |
| 647728 | 4076644 | 0.00444 | 164.15 | 1.5 | 24-HR | House 24 | RP_H24 |
| 647824 | 4076644 | 0.00471 | 168.29 | 1.5 | 24-HR | House 25 | RP_H25 |
| 647530 | 4076497 | 0.00329 | 159.56 | 1.5 | 24-HR | House 26 | RP_H26 |
| 647810 | 4076854 | 0.01156 | 162.9 | 1.5 | 24-HR | House 27 | RP_H27 |
| 647697 | 4076989 | 0.01502 | 161.42 | 1.5 | 24-HR | House 28 | RP_H28 |
| 648226 | 4076182 | 0.00383 | 183.22 | 1.5 | 24-HR | House 29 | RP_H29 |
| 647678 | 4075969 | 0.00299 | 159.5 | 1.5 | 24-HR | House 3 | RP_H3 |
| 645876 | 4077487 | 0.00575 | 127.13 | 1.5 | 24-HR | House 30 | RP_H30 |
| 650902 | 4076062 | 0.02293 | 215.24 | 1.5 | 24-HR | House 31 | RP_H31 |
| 651490 | 4076597 | 0.02144 | 205.5 | 1.5 | 24-HR | House 32 | RP_H32 |
| 651565 | 4077067 | 0.01249 | 213.93 | 1.5 | 24-HR | House 33 | RP_H33 |
| 648673 | 4075307 | 0.01035 | 225.91 | 1.5 | 24-HR | House 34 | RP_H34 |
| 648384 | 4075469 | 0.0073 | 174.44 | 1.5 | 24-HR | House 35 | RP_H35 |
| 646379 | 4077233 | 0.00634 | 146 | 1.5 | 24-HR | House 36 | RP_H36 |
| 651850 | 4075865 | 0.01203 | 201.97 | 1.5 | 24-HR | House 37 | RP_H37 |
| 652045 | 4076210 | 0.01918 | 196.88 | 1.5 | 24-HR | House 38 | RP_H38 |
| 652256 | 4076391 | 0.01971 | 197.06 | 1.5 | 24-HR | House 39 | RP_H39 |
| 647815 | 4075985 | 0.00307 | 162.04 | 1.5 | 24-HR | House 4 | RP_H4 |
| 646854 | 4077373 | 0.01011 | 145.99 | 1.5 | 24-HR | House 40 | RP_H40 |
| 647050 | 4077360 | 0.01149 | 145 | 1.5 | 24-HR | House 41 | RP_H41 |
| 647286 | 4077474 | 0.0127 | 149.68 | 1.5 | 24-HR | House 42 | RP_H42 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|--------|
| 647359 | 4077340 | 0.01408 | 154.45 | 1.5 | 24-HR | House 43 | RP H43 |
| 647490 | 4077329 | 0.0153 | 162.28 | 1.5 | 24-HR | House 44 | RP H44 |
| 647522 | 4077252 | 0.01611 | 164.3 | 1.5 | 24-HR | House 45 | RP H45 |
| 647518 | 4077139 | 0.01539 | 164.01 | 1.5 | 24-HR | House 46 | RP H46 |
| 646819 | 4077258 | 0.00918 | 151.53 | 1.5 | 24-HR | House 47 | RP H47 |
| 646779 | 4077128 | 0.00753 | 158.51 | 1.5 | 24-HR | House 48 | RP_H48 |
| 646987 | 4077213 | 0.01002 | 146.44 | 1.5 | 24-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.00321 | 163.83 | 1.5 | 24-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.01268 | 154.85 | 1.5 | 24-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.00667 | 159 | 1.5 | 24-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.00985 | 148.99 | 1.5 | 24-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.01199 | 158.62 | 1.5 | 24-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.00555 | 158.67 | 1.5 | 24-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.00683 | 152.34 | 1.5 | 24-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.01051 | 160.22 | 1.5 | 24-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.01107 | 161.26 | 1.5 | 24-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.00555 | 156.81 | 1.5 | 24-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.00449 | 156.21 | 1.5 | 24-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.00345 | 168.26 | 1.5 | 24-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.00494 | 154.38 | 1.5 | 24-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.00839 | 162.49 | 1.5 | 24-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.00555 | 158 | 1.5 | 24-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.00862 | 159.45 | 1.5 | 24-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.00592 | 159.32 | 1.5 | 24-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.00332 | 159 | 1.5 | 24-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00164 | 179.58 | 1.5 | 24-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.0121 | 146.77 | 1.5 | 24-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.00341 | 156.07 | 1.5 | 24-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.00411 | 159 | 1.5 | 24-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.00386 | 171.51 | 1.5 | 24-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.00372 | 159.9 | 1.5 | 24-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.00417 | 183.42 | 1.5 | 24-HR | House 8 | RP_H8 |

09/30/21

* AERMET (21112): Future Flare (1.5m) SO2 24-hr 2020

14:01:41

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|-------|
| 648219 | 4076109 | 0.00373 | 182.28 | 1.5 | 24-HR | House 9 | RP_H9 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 1-hr

13:26:44

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|------|------------------------------------|----------|
| 645996 | 4078698 | 0.0726 | 123.85 | 0 | 1-HR | AQ Monitoring Station | AQ_ST_1 |
| 643903.7 | 4077719 | 0.04241 | 105.68 | 0 | 1-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 |
| 642056.8 | 4079416 | 0.04474 | 85.12 | 0 | 1-HR | Dunne Park | CR_PK_1 |
| 642179.1 | 4079950 | 0.03484 | 117.99 | 0 | 1-HR | Vista Park Hill Park | CR_PK_2 |
| 644733.1 | 4078753 | 0.03959 | 106.44 | 0 | 1-HR | Las Brisas Park | CR_PK_3 |
| 645608.8 | 4078854 | 0.06739 | 112.86 | 0 | 1-HR | Frank Klauer Memorial Park | CR_PK_4 |
| 644238.1 | 4078807 | 0.04727 | 95.25 | 0 | 1-HR | Veterans Memorial Park | CR_PK_5 |
| 645311.5 | 4076559 | 0.1006 | 134.61 | 0 | 1-HR | Park 6 | CR_PK_6 |
| 649581.7 | 4073424 | 0.04015 | 159.96 | 0 | 1-HR | Park 7 | CR_PK_7 |
| 645145.1 | 4077181 | 0.06451 | 133 | 0 | 1-HR | Cerra Vista Elem School | CR_SC_1 |
| 642904.7 | 4079955 | 0.0353 | 86 | 0 | 1-HR | San Andreas Continuation | CR_SC_10 |
| 645850.7 | 4074015 | 0.04204 | 123 | 0 | 1-HR | SouthSide School | CR_SC_11 |
| 642105.7 | 4078176 | 0.03388 | 91 | 0 | 1-HR | School 12 | CR_SC_12 |
| 646058.9 | 4078443 | 0.06988 | 128.52 | 0 | 1-HR | Rancho Santana School | CR_SC_13 |
| 647269 | 4075575 | 0.08783 | 158 | 0 | 1-HR | Future School | CR_SC_14 |
| 648466 | 4074106 | 0.033 | 159 | 0 | 1-HR | Tres Pinos Union Elementary School | CR_SC_15 |
| 644109.6 | 4078389 | 0.05436 | 98.2 | 0 | 1-HR | Sunnyslope Elem School | CR_SC_2 |
| 643920.1 | 4077304 | 0.05143 | 101.23 | 0 | 1-HR | Hollister Montessori School | CR_SC_3 |
| 642961.1 | 4078621 | 0.04241 | 92 | 0 | 1-HR | Rancho San Justo Middle School | CR_SC_4 |
| 643980 | 4079743 | 0.05103 | 88 | 0 | 1-HR | Marguerite Maze Middle School | CR_SC_5 |
| 641630.2 | 4079153 | 0.03922 | 85 | 0 | 1-HR | Hollister Prep Schoo | CR_SC_6 |
| 643350 | 4077181 | 0.05687 | 98.22 | 0 | 1-HR | Ladd Lane Elementary School | CR_SC_7 |
| 644003 | 4080079 | 0.05247 | 87 | 0 | 1-HR | Gabilan Hills Elementary School | CR_SC_8 |
| 642244.9 | 4078413 | 0.03432 | 90.17 | 0 | 1-HR | San Benito High School | CR_SC_9 |
| 642083.4 | 4079794 | 0.0355 | 87.58 | 0 | 1-HR | Jovenes De Antano | CR_SR_1 |
| 646402 | 4076879 | 0.10712 | 146.33 | 0 | 1-HR | Workplace | CR_WP_1 |
| 648949 | 4077938 | 0.10186 | 189.45 | 0 | 1-HR | Nearest Workplace | CR_WP_2 |
| 647744 | 4079173 | 0.11681 | 155.2 | 0 | 1-HR | Grid Receptor 1 | G1 |
| 647744 | 4075573 | 0.03782 | 160 | 0 | 1-HR | Grid Receptor 10 | G10 |
| 651344 | 4075573 | 0.21654 | 252.9 | 0 | 1-HR | Grid Receptor 100 | G100 |
| 648144 | 4079173 | 0.0686 | 165.9 | 0 | 1-HR | Grid Receptor 11 | G11 |

School 1 School 2

MEIW

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 1-hr

13:26:44

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 648144 | 4078773 | 0.11007 | 159.6 | 0 | 1-HR | Grid Receptor 12 | G12 |
| 648144 | 4078373 | 0.12556 | 146.2 | 0 | 1-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.10168 | 158.3 | 0 | 1-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.11852 | 166.6 | 0 | 1-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.10059 | 175.4 | 0 | 1-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.12988 | 177.1 | 0 | 1-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.12962 | 178 | 0 | 1-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.08665 | 173 | 0 | 1-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.10361 | 145.4 | 0 | 1-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.10167 | 168.8 | 0 | 1-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.0734 | 173.5 | 0 | 1-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.05714 | 166.2 | 0 | 1-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.06399 | 145.4 | 0 | 1-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.12467 | 173.9 | 0 | 1-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.12395 | 179.6 | 0 | 1-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.1528 | 191 | 0 | 1-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.21746 | 209.2 | 0 | 1-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.12952 | 233.7 | 0 | 1-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.07488 | 199.9 | 0 | 1-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.08488 | 144.4 | 0 | 1-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.06497 | 195.5 | 0 | 1-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.10841 | 190.4 | 0 | 1-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.10722 | 165.4 | 0 | 1-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.10601 | 159.6 | 0 | 1-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.10076 | 183.5 | 0 | 1-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.11755 | 224 | 0 | 1-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.14996 | 205 | 0 | 1-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.10832 | 208.8 | 0 | 1-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.09197 | 134.6 | 0 | 1-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.05354 | 185.6 | 0 | 1-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.04969 | 187.4 | 0 | 1-HR | Grid Receptor 41 | G41 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 1-hr

13:26:44

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| 649344 4078773 0.04989 160.9 0 1-HR Grid Receptor 42 649344 4078373 0.05937 200.5 0 1-HR Grid Receptor 43 649344 4077973 0.06674 229 0 1-HR Grid Receptor 44 649344 407573 0.4101 253.3 0 1-HR Grid Receptor 45 649344 4076373 0.38823 220.2 0 1-HR Grid Receptor 48 649344 4075973 0.15014 227.2 0 1-HR Grid Receptor 49 647744 407573 0.09685 163.8 0 1-HR Grid Receptor 5 649344 407573 0.13683 205.5 0 1-HR Grid Receptor 50 649744 4079173 0.05865 176.1 0 1-HR Grid Receptor 51 649744 4078773 0.10032 196.1 0 1-HR Grid Receptor 53 649744 4077973 0.10458 215.3 0 1-HR | |
|--|-----|
| 649344 4077973 0.06674 229 0 1-HR Grid Receptor 44 649344 4077573 0.4101 253.3 0 1-HR Grid Receptor 45 649344 4076373 0.38823 220.2 0 1-HR Grid Receptor 48 649344 4075973 0.15014 227.2 0 1-HR Grid Receptor 49 647744 4077573 0.09685 163.8 0 1-HR Grid Receptor 5 649344 4075573 0.13683 205.5 0 1-HR Grid Receptor 50 649744 4079173 0.05865 176.1 0 1-HR Grid Receptor 51 649744 4078773 0.08255 195 0 1-HR Grid Receptor 52 649744 4078373 0.10032 196.1 0 1-HR Grid Receptor 53 649744 4077973 0.10458 215.3 0 1-HR Grid Receptor 54 649744 4077573 0.07724 221.6 0 1-H | G42 |
| 649344 4077573 0.4101 253.3 0 1-HR Grid Receptor 45 649344 4076373 0.38823 220.2 0 1-HR Grid Receptor 48 649344 4075973 0.15014 227.2 0 1-HR Grid Receptor 49 647744 4077573 0.09685 163.8 0 1-HR Grid Receptor 5 649344 4075573 0.13683 205.5 0 1-HR Grid Receptor 50 649744 4079173 0.05865 176.1 0 1-HR Grid Receptor 51 649744 4078773 0.08255 195 0 1-HR Grid Receptor 52 649744 4078373 0.10032 196.1 0 1-HR Grid Receptor 53 649744 4077973 0.10458 215.3 0 1-HR Grid Receptor 54 649744 4077573 0.007724 221.6 0 1-HR Grid Receptor 55 | G43 |
| 649344 4076373 0.38823 220.2 0 1-HR Grid Receptor 48 649344 4075973 0.15014 227.2 0 1-HR Grid Receptor 49 647744 4077573 0.09685 163.8 0 1-HR Grid Receptor 5 649344 4075573 0.13683 205.5 0 1-HR Grid Receptor 50 649744 4079173 0.05865 176.1 0 1-HR Grid Receptor 51 649744 4078773 0.08255 195 0 1-HR Grid Receptor 52 649744 4078373 0.10032 196.1 0 1-HR Grid Receptor 53 649744 4077973 0.10458 215.3 0 1-HR Grid Receptor 54 649744 4077573 0.07724 221.6 0 1-HR Grid Receptor 55 | G44 |
| 649344 4075973 0.15014 227.2 0 1-HR Grid Receptor 49 647744 4077573 0.09685 163.8 0 1-HR Grid Receptor 5 649344 4075573 0.13683 205.5 0 1-HR Grid Receptor 50 649744 4079173 0.05865 176.1 0 1-HR Grid Receptor 51 649744 4078773 0.08255 195 0 1-HR Grid Receptor 52 649744 4078373 0.10032 196.1 0 1-HR Grid Receptor 53 649744 4077973 0.10458 215.3 0 1-HR Grid Receptor 54 649744 4077573 0.07724 221.6 0 1-HR Grid Receptor 55 | G45 |
| 647744 4077573 0.09685 163.8 0 1-HR Grid Receptor 5 649344 4075573 0.13683 205.5 0 1-HR Grid Receptor 50 649744 4079173 0.05865 176.1 0 1-HR Grid Receptor 51 649744 4078773 0.08255 195 0 1-HR Grid Receptor 52 649744 4078373 0.10032 196.1 0 1-HR Grid Receptor 53 649744 4077973 0.10458 215.3 0 1-HR Grid Receptor 54 649744 4077573 0.07724 221.6 0 1-HR Grid Receptor 55 | G48 |
| 649344 4075573 0.13683 205.5 0 1-HR Grid Receptor 50 649744 4079173 0.05865 176.1 0 1-HR Grid Receptor 51 649744 4078773 0.08255 195 0 1-HR Grid Receptor 52 649744 4078373 0.10032 196.1 0 1-HR Grid Receptor 53 649744 4077973 0.10458 215.3 0 1-HR Grid Receptor 54 649744 4077573 0.07724 221.6 0 1-HR Grid Receptor 55 | G49 |
| 649744 4079173 0.05865 176.1 0 1-HR Grid Receptor 51 649744 4078773 0.08255 195 0 1-HR Grid Receptor 52 649744 4078373 0.10032 196.1 0 1-HR Grid Receptor 53 649744 4077973 0.10458 215.3 0 1-HR Grid Receptor 54 649744 4077573 0.07724 221.6 0 1-HR Grid Receptor 55 | G5 |
| 649744 4078773 0.08255 195 0 1-HR Grid Receptor 52 649744 4078373 0.10032 196.1 0 1-HR Grid Receptor 53 649744 4077973 0.10458 215.3 0 1-HR Grid Receptor 54 649744 4077573 0.07724 221.6 0 1-HR Grid Receptor 55 | G50 |
| 649744 4078373 0.10032 196.1 0 1-HR Grid Receptor 53 649744 4077973 0.10458 215.3 0 1-HR Grid Receptor 54 649744 4077573 0.07724 221.6 0 1-HR Grid Receptor 55 | G51 |
| 649744 4077973 0.10458 215.3 0 1-HR Grid Receptor 54 649744 4077573 0.07724 221.6 0 1-HR Grid Receptor 55 | G52 |
| 649744 4077573 0.07724 221.6 0 1-HR Grid Receptor 55 | G53 |
| 1 | G54 |
| 649744 4076373 0 18494 211.7 0 1-HR Grid Recentor 58 | G55 |
| 015/11 10/05/5 0110151 211.7 0 1 1 Ht Gha receptor 50 | G58 |
| 649744 4075973 0.19925 237.7 0 1-HR Grid Receptor 59 | G59 |
| 647744 4077173 0.07446 158.4 0 1-HR Grid Receptor 6 | G6 |
| 649744 4075573 0.18424 204.2 0 1-HR Grid Receptor 60 | G60 |
| 650144 4079173 0.09684 173 0 1-HR Grid Receptor 61 | G61 |
| 650144 4078773 0.08363 171 0 1-HR Grid Receptor 62 | G62 |
| 650144 4078373 0.06057 204.6 0 1-HR Grid Receptor 63 | G63 |
| 650144 4077973 0.07184 216.5 0 1-HR Grid Receptor 64 | G64 |
| 650144 4077573 0.45781 257.7 0 1-HR Grid Receptor 65 | G65 |
| 650144 4076373 0.17778 231.4 0 1-HR Grid Receptor 68 | G68 |
| 650144 4075973 0.29803 249.4 0 1-HR Grid Receptor 69 | G69 |
| 647744 4076773 0.14178 164.7 0 1-HR Grid Receptor 7 | G7 |
| 650144 4075573 0.11673 216.4 0 1-HR Grid Receptor 70 | G70 |
| 650544 4079173 0.0421 177 0 1-HR Grid Receptor 71 | G71 |
| 650544 4078773 0.03546 180.9 0 1-HR Grid Receptor 72 | G72 |
| 650544 4078373 0.06081 196.6 0 1-HR Grid Receptor 73 | G73 |
| 650544 4077973 0.07751 236.9 0 1-HR Grid Receptor 74 | G74 |
| 650544 4077573 0.48652 261.3 0 1-HR Grid Receptor 75 | |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 1-hr

13:26:44

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|------|-----------------------|-----|
| 650544 | 4076373 | 0.58116 | 260.9 | 0 | 1-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.11327 | 226.7 | 0 | 1-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.13677 | 164 | 0 | 1-HR | Grid Receptor 8 | G8 |
| 650544 | 4075573 | 0.61027 | 268.2 | 0 | 1-HR | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.03716 | 181.3 | 0 | 1-HR | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.05121 | 178.4 | 0 | 1-HR | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.06635 | 214.8 | 0 | 1-HR | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.21929 | 249.9 | 0 | 1-HR | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.66138 | 276.5 | 0 | 1-HR | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.08845 | 225.6 | 0 | 1-HR | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.12975 | 219.8 | 0 | 1-HR | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.09297 | 209.2 | 0 | 1-HR | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.08544 | 216.6 | 0 | 1-HR | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.13608 | 160.7 | 0 | 1-HR | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.10558 | 243.2 | 0 | 1-HR | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.04886 | 191 | 0 | 1-HR | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.05359 | 181 | 0 | 1-HR | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.05524 | 214.3 | 0 | 1-HR | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.17657 | 248.4 | 0 | 1-HR | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.06387 | 213.2 | 0 | 1-HR | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.07048 | 213.6 | 0 | 1-HR | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.13542 | 203.5 | 0 | 1-HR | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.08347 | 205.6 | 0 | 1-HR | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.0666 | 205.8 | 0 | 1-HR | Grid Receptor 99 | G99 |
| 648584.2 | 4077523 | 0.12835 | 183.61 | 0 | 1-HR | Boundary Perimeter 1 | P1 |
| 649484.1 | 4077537 | 0.44111 | 254.01 | 0 | 1-HR | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.08189 | 235.3 | 0 | 1-HR | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.09061 | 221.29 | 0 | 1-HR | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.05941 | 222.37 | 0 | 1-HR | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.09037 | 233.6 | 0 | 1-HR | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.27281 | 249.54 | 0 | 1-HR | Boundary Perimeter 15 | P15 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 1-hr

13:26:44

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|------|-----------------------|-----|
| 650083.9 | 4077546 | 0.4978 | 258.89 | 0 | 1-HR | Boundary Perimeter 16 | P16 |
| 650183.9 | 4077548 | 0.53123 | 259.56 | 0 | 1-HR | Boundary Perimeter 17 | P17 |
| 650283.9 | 4077550 | 0.42346 | 256.77 | 0 | 1-HR | Boundary Perimeter 18 | P18 |
| 650383.8 | 4077552 | 0.10903 | 242.37 | 0 | 1-HR | Boundary Perimeter 19 | P19 |
| 648684.2 | 4077525 | 0.13003 | 197.16 | 0 | 1-HR | Boundary Perimeter 2 | P2 |
| 650483.8 | 4077554 | 0.11189 | 242.23 | 0 | 1-HR | Boundary Perimeter 20 | P20 |
| 650583.8 | 4077557 | 0.48707 | 259.71 | 0 | 1-HR | Boundary Perimeter 21 | P21 |
| 650683.8 | 4077559 | 0.44188 | 257.58 | 0 | 1-HR | Boundary Perimeter 22 | P22 |
| 650776.8 | 4077554 | 0.68984 | 267.9 | 0 | 1-HR | Boundary Perimeter 23 | P23 |
| 650778.9 | 4077454 | 0.59656 | 275.91 | 0 | 1-HR | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.56213 | 265.73 | 0 | 1-HR | Boundary Perimeter 25 | P25 |
| 650783.1 | 4077254 | 0.23091 | 251.08 | 0 | 1-HR | Boundary Perimeter 26 | P26 |
| 650785.2 | 4077154 | 0.27597 | 252.83 | 0 | 1-HR | Boundary Perimeter 27 | P27 |
| 650787.3 | 4077054 | 0.13433 | 246.1 | 0 | 1-HR | Boundary Perimeter 28 | P28 |
| 650789.4 | 4076954 | 0.1041 | 241.37 | 0 | 1-HR | Boundary Perimeter 29 | P29 |
| 648784.2 | 4077527 | 0.1554 | 209.74 | 0 | 1-HR | Boundary Perimeter 3 | P3 |
| 650791.5 | 4076854 | 0.17151 | 246.79 | 0 | 1-HR | Boundary Perimeter 30 | P30 |
| 650793.6 | 4076754 | 0.12482 | 228.75 | 0 | 1-HR | Boundary Perimeter 31 | P31 |
| 650754.4 | 4076683 | 0.13513 | 217.76 | 0 | 1-HR | Boundary Perimeter 32 | P32 |
| 650660.2 | 4076650 | 0.13066 | 221.2 | 0 | 1-HR | Boundary Perimeter 33 | P33 |
| 650561.4 | 4076650 | 0.12889 | 220.83 | 0 | 1-HR | Boundary Perimeter 34 | P34 |
| 650462.7 | 4076666 | 0.13891 | 223.42 | 0 | 1-HR | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.15715 | 222.46 | 0 | 1-HR | Boundary Perimeter 36 | P36 |
| 650264.2 | 4076683 | 0.17218 | 223.19 | 0 | 1-HR | Boundary Perimeter 37 | P37 |
| 650164.7 | 4076674 | 0.18826 | 222.1 | 0 | 1-HR | Boundary Perimeter 38 | P38 |
| 650065.8 | 4076660 | 0.20615 | 217.03 | 0 | 1-HR | Boundary Perimeter 39 | P39 |
| 648884.2 | 4077529 | 0.15407 | 214.25 | 0 | 1-HR | Boundary Perimeter 4 | P4 |
| 649980.4 | 4076627 | 0.22065 | 214.82 | 0 | 1-HR | Boundary Perimeter 40 | P40 |
| 649920.3 | 4076547 | 0.23296 | 214.91 | 0 | 1-HR | Boundary Perimeter 41 | P41 |
| 649852.2 | 4076474 | 0.25849 | 214.09 | 0 | 1-HR | Boundary Perimeter 42 | P42 |
| 649770.7 | 4076417 | 0.21276 | 211.53 | 0 | 1-HR | Boundary Perimeter 43 | P43 |

PMI

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 1-hr

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|------|-----------------------|-------|
| 649680.5 | 4076375 | 0.21328 | 210.17 | 0 | 1-HR | Boundary Perimeter 44 | P44 |
| 649580.9 | 4076368 | 0.25481 | 208.52 | 0 | 1-HR | Boundary Perimeter 45 | P45 |
| 649482.5 | 4076384 | 0.32332 | 207.5 | 0 | 1-HR | Boundary Perimeter 46 | P46 |
| 649391.6 | 4076425 | 0.34216 | 205.17 | 0 | 1-HR | Boundary Perimeter 47 | P47 |
| 649303.5 | 4076472 | 0.19498 | 202.16 | 0 | 1-HR | Boundary Perimeter 48 | P48 |
| 649226.2 | 4076535 | 0.15977 | 196.38 | 0 | 1-HR | Boundary Perimeter 49 | P49 |
| 648984.1 | 4077530 | 0.1052 | 221.41 | 0 | 1-HR | Boundary Perimeter 5 | P5 |
| 649156.2 | 4076605 | 0.23154 | 195.87 | 0 | 1-HR | Boundary Perimeter 50 | P50 |
| 649068.3 | 4076653 | 0.42212 | 196.32 | 0 | 1-HR | Boundary Perimeter 51 | P51 |
| 648986.7 | 4076711 | 0.36351 | 192.42 | 0 | 1-HR | Boundary Perimeter 52 | P52 |
| 648936.5 | 4076759 | 0.28449 | 192.46 | 0 | 1-HR | Boundary Perimeter 53 | P53 |
| 648868.6 | 4076833 | 0.25351 | 191.63 | 0 | 1-HR | Boundary Perimeter 54 | P54 |
| 648797.2 | 4076902 | 0.21036 | 186.32 | 0 | 1-HR | Boundary Perimeter 55 | P55 |
| 648710.6 | 4076952 | 0.18877 | 179.81 | 0 | 1-HR | Boundary Perimeter 56 | P56 |
| 648620.8 | 4076996 | 0.16586 | 176.23 | 0 | 1-HR | Boundary Perimeter 57 | P57 |
| 648607.2 | 4077051 | 0.14744 | 175.02 | 0 | 1-HR | Boundary Perimeter 58 | P58 |
| 648680.1 | 4077119 | 0.16061 | 180.62 | 0 | 1-HR | Boundary Perimeter 59 | P59 |
| 649084.1 | 4077532 | 0.1068 | 216.54 | 0 | 1-HR | Boundary Perimeter 6 | P6 |
| 648759.2 | 4077180 | 0.16078 | 183.47 | 0 | 1-HR | Boundary Perimeter 60 | P60 |
| 648791.4 | 4077262 | 0.17145 | 202.88 | 0 | 1-HR | Boundary Perimeter 61 | P61 |
| 648788.5 | 4077362 | 0.14118 | 178.21 | 0 | 1-HR | Boundary Perimeter 62 | P62 |
| 648691.3 | 4077361 | 0.1376 | 176.25 | 0 | 1-HR | Boundary Perimeter 63 | P63 |
| 648591.4 | 4077357 | 0.14764 | 176 | 0 | 1-HR | Boundary Perimeter 64 | P64 |
| 648525.7 | 4077371 | 0.14704 | 175.24 | 0 | 1-HR | Boundary Perimeter 65 | P65 |
| 648586.9 | 4077430 | 0.13869 | 175.13 | 0 | 1-HR | Boundary Perimeter 66 | P66 |
| 649184.1 | 4077534 | 0.10221 | 230.71 | 0 | 1-HR | Boundary Perimeter 7 | P7 |
| 649284.1 | 4077535 | 0.28352 | 248.08 | 0 | 1-HR | Boundary Perimeter 8 | P8 |
| 649384.1 | 4077536 | 0.67502 | 258.43 | 0 | 1-HR | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.06478 | 127.38 | 0 | 1-HR | New Development | RP_G1 |
| 646030 | 4077983 | 0.0626 | 131.21 | 0 | 1-HR | New Development | RP_G2 |
| 646130 | 4077983 | 0.05969 | 135.89 | 0 | 1-HR | New Development | RP_G3 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 1-hr

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------|--------|
| 646230 | 4077983 | 0.05592 | 139.18 | 0 | 1-HR | New Development | RP_G4 |
| 646330 | 4077983 | 0.05157 | 140.76 | 0 | 1-HR | New Development | RP_G5 |
| 646430 | 4077983 | 0.0567 | 143.89 | 0 | 1-HR | New Development | RP_G6 |
| 646530 | 4077983 | 0.06295 | 145.22 | 0 | 1-HR | New Development | RP_G7 |
| 646630 | 4077983 | 0.06921 | 147.21 | 0 | 1-HR | New Development | RP_G8 |
| 646730 | 4077983 | 0.075 | 148.3 | 0 | 1-HR | New Development | RP_G9 |
| 645930 | 4078083 | 0.05705 | 127.58 | 0 | 1-HR | New Development | RP_G10 |
| 646030 | 4078083 | 0.05346 | 130.56 | 0 | 1-HR | New Development | RP_G11 |
| 646130 | 4078083 | 0.04929 | 134.35 | 0 | 1-HR | New Development | RP_G12 |
| 646230 | 4078083 | 0.05405 | 139.22 | 0 | 1-HR | New Development | RP_G13 |
| 646330 | 4078083 | 0.06039 | 144.65 | 0 | 1-HR | New Development | RP_G14 |
| 646430 | 4078083 | 0.06579 | 142.28 | 0 | 1-HR | New Development | RP_G15 |
| 646530 | 4078083 | 0.07185 | 146.76 | 0 | 1-HR | New Development | RP_G16 |
| 646630 | 4078083 | 0.0774 | 150.64 | 0 | 1-HR | New Development | RP_G17 |
| 646730 | 4078083 | 0.08237 | 155.4 | 0 | 1-HR | New Development | RP_G18 |
| 645930 | 4078183 | 0.04728 | 127.22 | 0 | 1-HR | New Development | RP_G19 |
| 646030 | 4078183 | 0.05112 | 130.56 | 0 | 1-HR | New Development | RP_G20 |
| 646130 | 4078183 | 0.05676 | 133.89 | 0 | 1-HR | New Development | RP_G21 |
| 646230 | 4078183 | 0.06287 | 140.45 | 0 | 1-HR | New Development | RP_G22 |
| 646330 | 4078183 | 0.06896 | 146.94 | 0 | 1-HR | New Development | RP_G23 |
| 646430 | 4078183 | 0.07285 | 140.23 | 0 | 1-HR | New Development | RP_G24 |
| 646530 | 4078183 | 0.0781 | 147.25 | 0 | 1-HR | New Development | RP_G25 |
| 646630 | 4078183 | 0.08212 | 151.56 | 0 | 1-HR | New Development | RP_G26 |
| 646730 | 4078183 | 0.08537 | 157.78 | 0 | 1-HR | New Development | RP_G27 |
| 645930 | 4078283 | 0.0537 | 126.06 | 0 | 1-HR | New Development | RP_G28 |
| 646030 | 4078283 | 0.05905 | 129.56 | 0 | 1-HR | New Development | RP_G29 |
| 646130 | 4078283 | 0.06434 | 132.89 | 0 | 1-HR | New Development | RP_G30 |
| 646230 | 4078283 | 0.0698 | 139.24 | 0 | 1-HR | New Development | RP_G31 |
| 646330 | 4078283 | 0.07448 | 142.68 | 0 | 1-HR | New Development | RP_G32 |
| 646430 | 4078283 | 0.07754 | 140.02 | 0 | 1-HR | New Development | RP_G33 |
| 646530 | 4078283 | 0.08118 | 147.22 | 0 | 1-HR | New Development | RP_G34 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 1-hr

13:26:44

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|------|-----------------|--------|
| 646630 | 4078283 | 0.08321 | 151.56 | 0 | 1-HR | New Development | RP_G35 |
| 646730 | 4078283 | 0.08935 | 156.78 | 0 | 1-HR | New Development | RP_G36 |
| 648659.3 | 4077241 | 0.17412 | 205.79 | 0 | 1-HR | House 1 | RP_H1 |
| 648071.2 | 4076116 | 0.13427 | 169.6 | 0 | 1-HR | House 10 | RP_H10 |
| 648247.4 | 4076278 | 0.11408 | 184.55 | 0 | 1-HR | House 11 | RP_H11 |
| 648027.2 | 4076255 | 0.10762 | 169.38 | 0 | 1-HR | House 12 | RP_H12 |
| 648065.8 | 4076359 | 0.12606 | 173.83 | 0 | 1-HR | House 13 | RP_H13 |
| 648138.7 | 4076400 | 0.14287 | 178.22 | 0 | 1-HR | House 14 | RP_H14 |
| 648254.7 | 4076411 | 0.14891 | 191.28 | 0 | 1-HR | House 15 | RP_H15 |
| 647877.8 | 4076365 | 0.13246 | 165.39 | 0 | 1-HR | House 16 | RP_H16 |
| 647520 | 4076206 | 0.08509 | 159 | 0 | 1-HR | House 17 | RP_H17 |
| 647921 | 4076247 | 0.10204 | 164 | 0 | 1-HR | House 18 | RP_H18 |
| 647708.8 | 4076352 | 0.1298 | 163.52 | 0 | 1-HR | House 19 | RP_H19 |
| 648371.7 | 4075470 | 0.08524 | 173.69 | 0 | 1-HR | House 2 | RP_H2 |
| 647703.6 | 4076251 | 0.09436 | 162.17 | 0 | 1-HR | House 20 | RP_H20 |
| 647718.8 | 4076104 | 0.12933 | 159.35 | 0 | 1-HR | House 21 | RP_H21 |
| 647843.3 | 4076125 | 0.1324 | 163 | 0 | 1-HR | House 22 | RP_H22 |
| 647842.3 | 4076500 | 0.17333 | 167.93 | 0 | 1-HR | House 23 | RP_H23 |
| 647727.8 | 4076644 | 0.17143 | 164.15 | 0 | 1-HR | House 24 | RP_H24 |
| 647823.9 | 4076644 | 0.17529 | 168.29 | 0 | 1-HR | House 25 | RP_H25 |
| 647530 | 4076497 | 0.16154 | 159.56 | 0 | 1-HR | House 26 | RP_H26 |
| 647810.1 | 4076854 | 0.11064 | 162.9 | 0 | 1-HR | House 27 | RP_H27 |
| 647697.5 | 4076989 | 0.09727 | 161.42 | 0 | 1-HR | House 28 | RP_H28 |
| 648225.5 | 4076182 | 0.13131 | 183.22 | 0 | 1-HR | House 29 | RP_H29 |
| 647678.2 | 4075969 | 0.13759 | 159.5 | 0 | 1-HR | House 3 | RP_H3 |
| 645876.3 | 4077487 | 0.05874 | 127.13 | 0 | 1-HR | House 30 | RP_H30 |
| 650902 | 4076062 | 0.08222 | 215.24 | 0 | 1-HR | House 31 | RP_H31 |
| 651490 | 4076597 | 0.11979 | 205.5 | 0 | 1-HR | House 32 | RP_H32 |
| 651565 | 4077067 | 0.07774 | 213.93 | 0 | 1-HR | House 33 | RP_H33 |
| 648672.8 | 4075307 | 0.03576 | 225.91 | 0 | 1-HR | House 34 | RP_H34 |
| 648383.6 | 4075469 | 0.08232 | 174.44 | 0 | 1-HR | House 35 | RP_H35 |

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09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 1-hr

13:26:44

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|------|-------------|--------|
| 646379.4 | 4077233 | 0.06992 | 146 | 0 | 1-HR | House 36 | RP_H36 |
| 651849.7 | 4075865 | 0.06098 | 201.97 | 0 | 1-HR | House 37 | RP_H37 |
| 652045.5 | 4076210 | 0.08491 | 196.88 | 0 | 1-HR | House 38 | RP_H38 |
| 652255.7 | 4076391 | 0.06444 | 197.06 | 0 | 1-HR | House 39 | RP_H39 |
| 647815.3 | 4075985 | 0.13425 | 162.04 | 0 | 1-HR | House 4 | RP_H4 |
| 646853.7 | 4077373 | 0.06676 | 145.99 | 0 | 1-HR | House 40 | RP_H40 |
| 647050.2 | 4077360 | 0.06579 | 145 | 0 | 1-HR | House 41 | RP_H41 |
| 647286.4 | 4077474 | 0.06289 | 149.68 | 0 | 1-HR | House 42 | RP_H42 |
| 647359.1 | 4077340 | 0.06359 | 154.45 | 0 | 1-HR | House 43 | RP_H43 |
| 647490.4 | 4077329 | 0.0666 | 162.28 | 0 | 1-HR | House 44 | RP_H44 |
| 647522.2 | 4077252 | 0.07127 | 164.3 | 0 | 1-HR | House 45 | RP_H45 |
| 647517.8 | 4077139 | 0.08531 | 164.01 | 0 | 1-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.07472 | 151.53 | 0 | 1-HR | House 47 | RP_H47 |
| 646778.7 | 4077128 | 0.07868 | 158.51 | 0 | 1-HR | House 48 | RP_H48 |
| 646987.3 | 4077213 | 0.07708 | 146.44 | 0 | 1-HR | House 49 | RP_H49 |
| 647898.2 | 4076033 | 0.13577 | 163.83 | 0 | 1-HR | House 5 | RP_H5 |
| 647241.8 | 4077227 | 0.07743 | 154.85 | 0 | 1-HR | House 50 | RP_H50 |
| 646773.1 | 4077063 | 0.07811 | 159 | 0 | 1-HR | House 51 | RP_H51 |
| 647104.4 | 4077118 | 0.08248 | 148.99 | 0 | 1-HR | House 52 | RP_H52 |
| 647291.9 | 4077123 | 0.08583 | 158.62 | 0 | 1-HR | House 53 | RP_H53 |
| 646765.2 | 4076978 | 0.09468 | 158.67 | 0 | 1-HR | House 54 | RP_H54 |
| 646995.7 | 4076984 | 0.09013 | 152.34 | 0 | 1-HR | House 55 | RP_H55 |
| 647317.2 | 4077031 | 0.09006 | 160.22 | 0 | 1-HR | House 56 | RP_H56 |
| 647398.4 | 4077013 | 0.09214 | 161.26 | 0 | 1-HR | House 57 | RP_H57 |
| 646978.9 | 4076904 | 0.10897 | 156.81 | 0 | 1-HR | House 58 | RP_H58 |
| 647015.2 | 4076807 | 0.12817 | 156.21 | 0 | 1-HR | House 59 | RP_H59 |
| 648045.4 | 4076018 | 0.11917 | 168.26 | 0 | 1-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.13024 | 154.38 | 0 | 1-HR | House 60 | RP_H60 |
| 647310.6 | 4076940 | 0.09821 | 162.49 | 0 | 1-HR | House 61 | RP_H61 |
| 647298.1 | 4076805 | 0.13185 | 158 | 0 | 1-HR | House 62 | RP_H62 |
| 647446.6 | 4076900 | 0.10605 | 159.45 | 0 | 1-HR | House 63 | RP_H63 |

09/29/21

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- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|------|-------------|--------|
| 647464.5 | 4076781 | 0.13884 | 159.32 | 0 | 1-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.16484 | 159 | 0 | 1-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.05428 | 179.58 | 0 | 1-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.06714 | 146.77 | 0 | 1-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.1338 | 156.07 | 0 | 1-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.1283 | 159 | 0 | 1-HR | House 69 | RP_H69 |
| 648126.3 | 4075955 | 0.08332 | 171.51 | 0 | 1-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.15692 | 159.9 | 0 | 1-HR | House 70 | RP_H70 |
| 648249.3 | 4075970 | 0.06403 | 183.42 | 0 | 1-HR | House 8 | RP_H8 |
| 648218.6 | 4076109 | 0.12183 | 182.28 | 0 | 1-HR | House 9 | RP_H9 |

* AERMET (21112): Future Flare SO2 (Grnd Lvl) 1-yr 2018

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|----------|---------|--------------|--------|-------|--------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.00081 | 123.85 | 0 | ANNUAL | AQ Monitoring Station | AQ_ST_1 | |
| 643903.7 | 4077719 | 0.0006 | 105.68 | 0 | ANNUAL | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642056.8 | 4079416 | 0.00063 | 85.12 | 0 | ANNUAL | Dunne Park | CR_PK_1 | |
| 642179.1 | 4079950 | 0.00061 | 117.99 | 0 | ANNUAL | Vista Park Hill Park | CR_PK_2 | |
| 644733.1 | 4078753 | 0.00076 | 106.44 | 0 | ANNUAL | Las Brisas Park | CR_PK_3 | |
| 645608.8 | 4078854 | 0.00077 | 112.86 | 0 | ANNUAL | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238.1 | 4078807 | 0.00075 | 95.25 | 0 | ANNUAL | Veterans Memorial Park | CR_PK_5 | |
| 645311.5 | 4076559 | 0.00038 | 134.61 | 0 | ANNUAL | Park 6 | CR_PK_6 | |
| 649581.7 | 4073424 | 0.00046 | 159.96 | 0 | ANNUAL | Park 7 | CR_PK_7 | |
| 645145.1 | 4077181 | 0.00055 | 133 | 0 | ANNUAL | Cerra Vista Elem School | CR_SC_1 | |
| 642904.7 | 4079955 | 0.00059 | 86 | 0 | ANNUAL | San Andreas Continuation | CR_SC_10 | |
| 645850.7 | 4074015 | 0.00009 | 123 | 0 | ANNUAL | SouthSide School | CR_SC_11 | |
| 642105.7 | 4078176 | 0.00054 | 91 | 0 | ANNUAL | School 12 | CR_SC_12 | |
| 646058.9 | 4078443 | 0.00085 | 128.52 | 0 | ANNUAL | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.00016 | 158 | 0 | ANNUAL | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.00014 | 159 | 0 | ANNUAL | Tres Pinos Union Elementary School | CR_SC_15 | 1 |
| 644109.6 | 4078389 | 0.00075 | 98.2 | 0 | ANNUAL | Sunnyslope Elem School | CR_SC_2 | |
| 643920.1 | 4077304 | 0.00047 | 101.23 | 0 | ANNUAL | Hollister Montessori School | CR_SC_3 | |
| 642961.1 | 4078621 | 0.00067 | 92 | 0 | ANNUAL | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.00062 | 88 | 0 | ANNUAL | Marguerite Maze Middle School | CR_SC_5 | |
| 641630.2 | 4079153 | 0.0006 | 85 | 0 | ANNUAL | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.00041 | 98.22 | 0 | ANNUAL | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.00062 | 87 | 0 | ANNUAL | Gabilan Hills Elementary School | CR_SC_8 | |
| 642244.9 | 4078413 | 0.00059 | 90.17 | 0 | ANNUAL | San Benito High School | CR_SC_9 | |
| 642083.4 | 4079794 | 0.00062 | 87.58 | 0 | ANNUAL | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.0006 | 146.33 | 0 | ANNUAL | Workplace | CR_WP_1 | MIEW |
| 648949 | 4077938 | 0.00041 | 189.45 | 0 | ANNUAL | Nearest Workplace | CR_WP_2 | |
| 647744 | 4079173 | 0.00062 | 155.2 | 0 | ANNUAL | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.00016 | 160 | 0 | ANNUAL | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.00425 | 252.9 | 0 | ANNUAL | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.00041 | 165.9 | 0 | ANNUAL | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.00057 | 159.6 | 0 | ANNUAL | Grid Receptor 12 | G12 | 1 |

* AERMET (21112): Future Flare SO2 (Grnd Lvl) 1-yr 2018

13:26:44

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|--------|------------------|-----|
| 648144 | 4078373 | 0.00083 | 146.2 | 0 | ANNUAL | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.00121 | 158.3 | 0 | ANNUAL | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.00151 | 166.6 | 0 | ANNUAL | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.00196 | 175.4 | 0 | ANNUAL | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.0016 | 177.1 | 0 | ANNUAL | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.00053 | 178 | 0 | ANNUAL | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.00025 | 173 | 0 | ANNUAL | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.00081 | 145.4 | 0 | ANNUAL | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.00019 | 168.8 | 0 | ANNUAL | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.00027 | 173.5 | 0 | ANNUAL | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.00034 | 166.2 | 0 | ANNUAL | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.00047 | 145.4 | 0 | ANNUAL | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.00085 | 173.9 | 0 | ANNUAL | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.00159 | 179.6 | 0 | ANNUAL | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.00238 | 191 | 0 | ANNUAL | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.00351 | 209.2 | 0 | ANNUAL | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.00099 | 233.7 | 0 | ANNUAL | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.00032 | 199.9 | 0 | ANNUAL | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.00103 | 144.4 | 0 | ANNUAL | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.00024 | 195.5 | 0 | ANNUAL | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.0002 | 190.4 | 0 | ANNUAL | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.00022 | 165.4 | 0 | ANNUAL | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.00027 | 159.6 | 0 | ANNUAL | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.0004 | 183.5 | 0 | ANNUAL | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.00081 | 224 | 0 | ANNUAL | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.00103 | 205 | 0 | ANNUAL | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.00048 | 208.8 | 0 | ANNUAL | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.00116 | 134.6 | 0 | ANNUAL | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00028 | 185.6 | 0 | ANNUAL | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00019 | 187.4 | 0 | ANNUAL | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.0002 | 160.9 | 0 | ANNUAL | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.00025 | 200.5 | 0 | ANNUAL | Grid Receptor 43 | G43 |
| | | | | | | | |

* AERMET (21112): Future Flare SO2 (Grnd Lvl) 1-yr 2018

13:26:44

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|--------|------------------|-----|
| 649344 | 4077973 | 0.00036 | 229 | 0 | ANNUAL | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.0019 | 253.3 | 0 | ANNUAL | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.00703 | 220.2 | 0 | ANNUAL | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.00147 | 227.2 | 0 | ANNUAL | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.00138 | 163.8 | 0 | ANNUAL | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.0007 | 205.5 | 0 | ANNUAL | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.00019 | 176.1 | 0 | ANNUAL | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00022 | 195 | 0 | ANNUAL | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00025 | 196.1 | 0 | ANNUAL | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.0003 | 215.3 | 0 | ANNUAL | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.00039 | 221.6 | 0 | ANNUAL | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.01331 | 211.7 | 0 | ANNUAL | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.01006 | 237.7 | 0 | ANNUAL | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.00153 | 158.4 | 0 | ANNUAL | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.00209 | 204.2 | 0 | ANNUAL | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.00018 | 173 | 0 | ANNUAL | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.00019 | 171 | 0 | ANNUAL | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00023 | 204.6 | 0 | ANNUAL | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.0003 | 216.5 | 0 | ANNUAL | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.00167 | 257.7 | 0 | ANNUAL | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.00584 | 231.4 | 0 | ANNUAL | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.01034 | 249.4 | 0 | ANNUAL | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.00104 | 164.7 | 0 | ANNUAL | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.00463 | 216.4 | 0 | ANNUAL | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00018 | 177 | 0 | ANNUAL | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00021 | 180.9 | 0 | ANNUAL | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00025 | 196.6 | 0 | ANNUAL | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.00051 | 236.9 | 0 | ANNUAL | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.00245 | 261.3 | 0 | ANNUAL | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.00812 | 260.9 | 0 | ANNUAL | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.00375 | 226.7 | 0 | ANNUAL | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.00047 | 164 | 0 | ANNUAL | Grid Receptor 8 | G8 |

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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|--------|-----------------------|-----|
| 650544 | 4075573 | 0.00964 | 268.2 | 0 | ANNUAL | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.0002 | 181.3 | 0 | ANNUAL | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00023 | 178.4 | 0 | ANNUAL | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00033 | 214.8 | 0 | ANNUAL | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.0012 | 249.9 | 0 | ANNUAL | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.0024 | 276.5 | 0 | ANNUAL | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.0012 | 225.6 | 0 | ANNUAL | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.00233 | 219.8 | 0 | ANNUAL | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.00257 | 209.2 | 0 | ANNUAL | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.00253 | 216.6 | 0 | ANNUAL | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.00025 | 160.7 | 0 | ANNUAL | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.00404 | 243.2 | 0 | ANNUAL | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00022 | 191 | 0 | ANNUAL | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00027 | 181 | 0 | ANNUAL | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.00042 | 214.3 | 0 | ANNUAL | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.00105 | 248.4 | 0 | ANNUAL | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.00071 | 213.2 | 0 | ANNUAL | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.00128 | 213.6 | 0 | ANNUAL | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.00188 | 203.5 | 0 | ANNUAL | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.00203 | 205.6 | 0 | ANNUAL | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.00201 | 205.8 | 0 | ANNUAL | Grid Receptor 99 | G99 |
| 648584.2 | 4077523 | 0.00168 | 183.61 | 0 | ANNUAL | Boundary Perimeter 1 | P1 |
| 649484.1 | 4077537 | 0.00182 | 254.01 | 0 | ANNUAL | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.00057 | 235.3 | 0 | ANNUAL | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.00041 | 221.29 | 0 | ANNUAL | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00041 | 222.37 | 0 | ANNUAL | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.00052 | 233.6 | 0 | ANNUAL | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.00116 | 249.54 | 0 | ANNUAL | Boundary Perimeter 15 | P15 |
| 650083.9 | 4077546 | 0.00176 | 258.89 | 0 | ANNUAL | Boundary Perimeter 16 | P16 |
| 650183.9 | 4077548 | 0.00198 | 259.56 | 0 | ANNUAL | Boundary Perimeter 17 | P17 |
| 650283.9 | 4077550 | 0.00194 | 256.77 | 0 | ANNUAL | Boundary Perimeter 18 | P18 |
| 650383.8 | 4077552 | 0.001 | 242.37 | 0 | ANNUAL | Boundary Perimeter 19 | P19 |

09/29/21

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| | | , /,- (,),, | -, , -, | -, -,, | | | |
|----------|---------|--------------|---------|--------|--------|-----------------------|-----|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
| 648684.2 | 4077525 | 0.00159 | 197.16 | 0 | ANNUAL | Boundary Perimeter 2 | P2 |
| 650483.8 | 4077554 | 0.00104 | 242.23 | 0 | ANNUAL | Boundary Perimeter 20 | P20 |
| 650583.8 | 4077557 | 0.00233 | 259.71 | 0 | ANNUAL | Boundary Perimeter 21 | P21 |
| 650683.8 | 4077559 | 0.00209 | 257.58 | 0 | ANNUAL | Boundary Perimeter 22 | P22 |
| 650776.8 | 4077554 | 0.00261 | 267.9 | 0 | ANNUAL | Boundary Perimeter 23 | P23 |
| 650778.9 | 4077454 | 0.00266 | 275.91 | 0 | ANNUAL | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.00285 | 265.73 | 0 | ANNUAL | Boundary Perimeter 25 | P25 |
| 650783.1 | 4077254 | 0.00197 | 251.08 | 0 | ANNUAL | Boundary Perimeter 26 | P26 |
| 650785.2 | 4077154 | 0.00228 | 252.83 | 0 | ANNUAL | Boundary Perimeter 27 | P27 |
| 650787.3 | 4077054 | 0.0022 | 246.1 | 0 | ANNUAL | Boundary Perimeter 28 | P28 |
| 650789.4 | 4076954 | 0.00246 | 241.37 | 0 | ANNUAL | Boundary Perimeter 29 | P29 |
| 648784.2 | 4077527 | 0.00141 | 209.74 | 0 | ANNUAL | Boundary Perimeter 3 | Р3 |
| 650791.5 | 4076854 | 0.0035 | 246.79 | 0 | ANNUAL | Boundary Perimeter 30 | P30 |
| 650793.6 | 4076754 | 0.00269 | 228.75 | 0 | ANNUAL | Boundary Perimeter 31 | P31 |
| 650754.4 | 4076683 | 0.00273 | 217.76 | 0 | ANNUAL | Boundary Perimeter 32 | P32 |
| 650660.2 | 4076650 | 0.00298 | 221.2 | 0 | ANNUAL | Boundary Perimeter 33 | P33 |
| 650561.4 | 4076650 | 0.0032 | 220.83 | 0 | ANNUAL | Boundary Perimeter 34 | P34 |
| 650462.7 | 4076666 | 0.00346 | 223.42 | 0 | ANNUAL | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.00369 | 222.46 | 0 | ANNUAL | Boundary Perimeter 36 | P36 |
| 650264.2 | 4076683 | 0.00404 | 223.19 | 0 | ANNUAL | Boundary Perimeter 37 | P37 |
| 650164.7 | 4076674 | 0.00449 | 222.1 | 0 | ANNUAL | Boundary Perimeter 38 | P38 |
| 650065.8 | 4076660 | 0.0051 | 217.03 | 0 | ANNUAL | Boundary Perimeter 39 | P39 |
| 648884.2 | 4077529 | 0.00106 | 214.25 | 0 | ANNUAL | Boundary Perimeter 4 | P4 |
| 649980.4 | 4076627 | 0.00611 | 214.82 | 0 | ANNUAL | Boundary Perimeter 40 | P40 |
| 649920.3 | 4076547 | 0.00763 | 214.91 | 0 | ANNUAL | Boundary Perimeter 41 | P41 |
| 649852.2 | 4076474 | 0.00923 | 214.09 | 0 | ANNUAL | Boundary Perimeter 42 | P42 |
| 649770.7 | 4076417 | 0.01166 | 211.53 | 0 | ANNUAL | Boundary Perimeter 43 | P43 |
| 649680.5 | 4076375 | 0.01656 | 210.17 | 0 | ANNUAL | Boundary Perimeter 44 | P44 |
| 649580.9 | 4076368 | 0.02442 | 208.52 | 0 | ANNUAL | Boundary Perimeter 45 | P45 |
| 649482.5 | 4076384 | 0.03063 | 207.5 | 0 | ANNUAL | Boundary Perimeter 46 | P46 |
| 649391.6 | 4076425 | 0.02088 | 205.17 | 0 | ANNUAL | Boundary Perimeter 47 | P47 |
| 649303.5 | 4076472 | 0.00224 | 202.16 | 0 | ANNUAL | Boundary Perimeter 48 | P48 |
| | | | | | | | |

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- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|--------|-----------------------|-------|
| 649226.2 | 4076535 | 0.00108 | 196.38 | 0 | ANNUAL | Boundary Perimeter 49 | P49 |
| 648984.1 | 4077530 | 0.00077 | 221.41 | 0 | ANNUAL | Boundary Perimeter 5 | P5 |
| 649156.2 | 4076605 | 0.00526 | 195.87 | 0 | ANNUAL | Boundary Perimeter 50 | P50 |
| 649068.3 | 4076653 | 0.00691 | 196.32 | 0 | ANNUAL | Boundary Perimeter 51 | P51 |
| 648986.7 | 4076711 | 0.00612 | 192.42 | 0 | ANNUAL | Boundary Perimeter 52 | P52 |
| 648936.5 | 4076759 | 0.00532 | 192.46 | 0 | ANNUAL | Boundary Perimeter 53 | P53 |
| 648868.6 | 4076833 | 0.00438 | 191.63 | 0 | ANNUAL | Boundary Perimeter 54 | P54 |
| 648797.2 | 4076902 | 0.00365 | 186.32 | 0 | ANNUAL | Boundary Perimeter 55 | P55 |
| 648710.6 | 4076952 | 0.00318 | 179.81 | 0 | ANNUAL | Boundary Perimeter 56 | P56 |
| 648620.8 | 4076996 | 0.00286 | 176.23 | 0 | ANNUAL | Boundary Perimeter 57 | P57 |
| 648607.2 | 4077051 | 0.00263 | 175.02 | 0 | ANNUAL | Boundary Perimeter 58 | P58 |
| 648680.1 | 4077119 | 0.00258 | 180.62 | 0 | ANNUAL | Boundary Perimeter 59 | P59 |
| 649084.1 | 4077532 | 0.00059 | 216.54 | 0 | ANNUAL | Boundary Perimeter 6 | P6 |
| 648759.2 | 4077180 | 0.00255 | 183.47 | 0 | ANNUAL | Boundary Perimeter 60 | P60 |
| 648791.4 | 4077262 | 0.00242 | 202.88 | 0 | ANNUAL | Boundary Perimeter 61 | P61 |
| 648788.5 | 4077362 | 0.00176 | 178.21 | 0 | ANNUAL | Boundary Perimeter 62 | P62 |
| 648691.3 | 4077361 | 0.00195 | 176.25 | 0 | ANNUAL | Boundary Perimeter 63 | P63 |
| 648591.4 | 4077357 | 0.002 | 176 | 0 | ANNUAL | Boundary Perimeter 64 | P64 |
| 648525.7 | 4077371 | 0.00195 | 175.24 | 0 | ANNUAL | Boundary Perimeter 65 | P65 |
| 648586.9 | 4077430 | 0.00185 | 175.13 | 0 | ANNUAL | Boundary Perimeter 66 | P66 |
| 649184.1 | 4077534 | 0.00057 | 230.71 | 0 | ANNUAL | Boundary Perimeter 7 | P7 |
| 649284.1 | 4077535 | 0.00141 | 248.08 | 0 | ANNUAL | Boundary Perimeter 8 | P8 |
| 649384.1 | 4077536 | 0.00255 | 258.43 | 0 | ANNUAL | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.00093 | 127.38 | 0 | ANNUAL | New Development | RP_G1 |
| 646030 | 4077983 | 0.00094 | 131.21 | 0 | ANNUAL | New Development | RP_G2 |
| 646130 | 4077983 | 0.00096 | 135.89 | 0 | ANNUAL | New Development | RP_G3 |
| 646230 | 4077983 | 0.00096 | 139.18 | 0 | ANNUAL | New Development | RP_G4 |
| 646330 | 4077983 | 0.00097 | 140.76 | 0 | ANNUAL | New Development | RP_G5 |
| 646430 | 4077983 | 0.00098 | 143.89 | 0 | ANNUAL | New Development | RP_G6 |
| 646530 | 4077983 | 0.00099 | 145.22 | 0 | ANNUAL | New Development | RP_G7 |
| 646630 | 4077983 | 0.001 | 147.21 | 0 | ANNUAL | New Development | RP_G8 |
| 646730 | 4077983 | 0.00101 | 148.3 | 0 | ANNUAL | New Development | RP_G9 |

09/29/21

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| 1 010 | (11,1. | 71,5(171,115.5),5(171,10.2),271,710 | ,2,1,1,0,2,1,10 | J. O, 22 1, 1 1 O) | | | |
|----------|---------|-------------------------------------|-----------------|--------------------|--------|-----------------|--------|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
| 645930 | 4078083 | 0.00092 | 127.58 | 0 | ANNUAL | New Development | RP G10 |
| 646030 | 4078083 | 0.00093 | 130.56 | 0 | ANNUAL | New Development | RP_G11 |
| 646130 | 4078083 | 0.00093 | 134.35 | 0 | ANNUAL | New Development | RP G12 |
| 646230 | 4078083 | 0.00094 | 139.22 | 0 | ANNUAL | New Development | RP G13 |
| 646330 | 4078083 | 0.00095 | 144.65 | 0 | ANNUAL | New Development | RP G14 |
| 646430 | 4078083 | 0.00095 | 142.28 | 0 | ANNUAL | New Development | RP G15 |
| 646530 | 4078083 | 0.00097 | 146.76 | 0 | ANNUAL | New Development | RP G16 |
| 646630 | 4078083 | 0.00098 | 150.64 | 0 | ANNUAL | New Development | RP G17 |
| 646730 | 4078083 | 0.00099 | 155.4 | 0 | ANNUAL | New Development | RP_G18 |
| 645930 | 4078183 | 0.0009 | 127.22 | 0 | ANNUAL | New Development | RP_G19 |
| 646030 | 4078183 | 0.0009 | 130.56 | 0 | ANNUAL | New Development | RP G20 |
| 646130 | 4078183 | 0.00091 | 133.89 | 0 | ANNUAL | New Development | RP G21 |
| 646230 | 4078183 | 0.00092 | 140.45 | 0 | ANNUAL | New Development | RP G22 |
| 646330 | 4078183 | 0.00093 | 146.94 | 0 | ANNUAL | New Development | RP_G23 |
| 646430 | 4078183 | 0.00093 | 140.23 | 0 | ANNUAL | New Development | RP_G24 |
| 646530 | 4078183 | 0.00094 | 147.25 | 0 | ANNUAL | New Development | RP_G25 |
| 646630 | 4078183 | 0.00096 | 151.56 | 0 | ANNUAL | New Development | RP_G26 |
| 646730 | 4078183 | 0.00098 | 157.78 | 0 | ANNUAL | New Development | RP G27 |
| 645930 | 4078283 | 0.00088 | 126.06 | 0 | ANNUAL | New Development | RP G28 |
| 646030 | 4078283 | 0.00088 | 129.56 | 0 | ANNUAL | New Development | RP G29 |
| 646130 | 4078283 | 0.00089 | 132.89 | 0 | ANNUAL | New Development | RP G30 |
| 646230 | 4078283 | 0.0009 | 139.24 | 0 | ANNUAL | New Development | RP G31 |
| 646330 | 4078283 | 0.0009 | 142.68 | 0 | ANNUAL | New Development | RP_G32 |
| 646430 | 4078283 | 0.00091 | 140.02 | 0 | ANNUAL | New Development | RP G33 |
| 646530 | 4078283 | 0.00093 | 147.22 | 0 | ANNUAL | New Development | RP G34 |
| 646630 | 4078283 | 0.00094 | 151.56 | 0 | ANNUAL | New Development | RP G35 |
| 646730 | 4078283 | 0.00096 | 156.78 | 0 | ANNUAL | New Development | RP_G36 |
| 648659.3 | 4077241 | 0.00261 | 205.79 | 0 | ANNUAL | House 1 | RP_H1 |
| 648071.2 | 4076116 | 0.00032 | 169.6 | 0 | ANNUAL | House 10 | RP_H10 |
| 648247.4 | 4076278 | 0.00045 | 184.55 | 0 | ANNUAL | House 11 | RP_H11 |
| 648027.2 | 4076255 | 0.00039 | 169.38 | 0 | ANNUAL | House 12 | RP_H12 |
| 648065.8 | 4076359 | 0.0005 | 173.83 | 0 | ANNUAL | House 13 | RP_H13 |
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|--------|-------------|--------|
| 648138.7 | 4076400 | 0.00057 | 178.22 | 0 | ANNUAL | House 14 | RP_H14 |
| 648254.7 | 4076411 | 0.00063 | 191.28 | 0 | ANNUAL | House 15 | RP_H15 |
| 647877.8 | 4076365 | 0.00048 | 165.39 | 0 | ANNUAL | House 16 | RP_H16 |
| 647520 | 4076206 | 0.00034 | 159 | 0 | ANNUAL | House 17 | RP_H17 |
| 647921 | 4076247 | 0.00038 | 164 | 0 | ANNUAL | House 18 | RP_H18 |
| 647708.8 | 4076352 | 0.00045 | 163.52 | 0 | ANNUAL | House 19 | RP_H19 |
| 648371.7 | 4075470 | 0.00021 | 173.69 | 0 | ANNUAL | House 2 | RP_H2 |
| 647703.6 | 4076251 | 0.00037 | 162.17 | 0 | ANNUAL | House 20 | RP_H20 |
| 647718.8 | 4076104 | 0.0003 | 159.35 | 0 | ANNUAL | House 21 | RP_H21 |
| 647843.3 | 4076125 | 0.00031 | 163 | 0 | ANNUAL | House 22 | RP_H22 |
| 647842.3 | 4076500 | 0.00063 | 167.93 | 0 | ANNUAL | House 23 | RP_H23 |
| 647727.8 | 4076644 | 0.00079 | 164.15 | 0 | ANNUAL | House 24 | RP_H24 |
| 647823.9 | 4076644 | 0.00085 | 168.29 | 0 | ANNUAL | House 25 | RP_H25 |
| 647530 | 4076497 | 0.00055 | 159.56 | 0 | ANNUAL | House 26 | RP_H26 |
| 647810.1 | 4076854 | 0.00127 | 162.9 | 0 | ANNUAL | House 27 | RP_H27 |
| 647697.5 | 4076989 | 0.00137 | 161.42 | 0 | ANNUAL | House 28 | RP_H28 |
| 648225.5 | 4076182 | 0.00037 | 183.22 | 0 | ANNUAL | House 29 | RP_H29 |
| 647678.2 | 4075969 | 0.00025 | 159.5 | 0 | ANNUAL | House 3 | RP_H3 |
| 645876.3 | 4077487 | 0.00084 | 127.13 | 0 | ANNUAL | House 30 | RP_H30 |
| 650902 | 4076062 | 0.00257 | 215.24 | 0 | ANNUAL | House 31 | RP_H31 |
| 651490 | 4076597 | 0.00187 | 205.5 | 0 | ANNUAL | House 32 | RP_H32 |
| 651565 | 4077067 | 0.00149 | 213.93 | 0 | ANNUAL | House 33 | RP_H33 |
| 648672.8 | 4075307 | 0.00023 | 225.91 | 0 | ANNUAL | House 34 | RP_H34 |
| 648383.6 | 4075469 | 0.00021 | 174.44 | 0 | ANNUAL | House 35 | RP_H35 |
| 646379.4 | 4077233 | 0.00084 | 146 | 0 | ANNUAL | House 36 | RP_H36 |
| 651849.7 | 4075865 | 0.00167 | 201.97 | 0 | ANNUAL | House 37 | RP_H37 |
| 652045.5 | 4076210 | 0.00153 | 196.88 | 0 | ANNUAL | House 38 | RP_H38 |
| 652255.7 | 4076391 | 0.00142 | 197.06 | 0 | ANNUAL | House 39 | RP_H39 |
| 647815.3 | 4075985 | 0.00025 | 162.04 | 0 | ANNUAL | House 4 | RP_H4 |
| 646853.7 | 4077373 | 0.00108 | 145.99 | 0 | ANNUAL | House 40 | RP_H40 |
| 647050.2 | 4077360 | 0.00115 | 145 | 0 | ANNUAL | House 41 | RP_H41 |
| 647286.4 | 4077474 | 0.00125 | 149.68 | 0 | ANNUAL | House 42 | RP_H42 |

* AERMET (21112): Future Flare SO2 (Grnd Lvl) 1-yr 2018

13:26:44

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|--------|-------------|--------|
| 647359.1 | 4077340 | 0.0013 | 154.45 | 0 | ANNUAL | House 43 | RP_H43 |
| 647490.4 | 4077329 | 0.00138 | 162.28 | 0 | ANNUAL | House 44 | RP_H44 |
| 647522.2 | 4077252 | 0.0014 | 164.3 | 0 | ANNUAL | House 45 | RP_H45 |
| 647517.8 | 4077139 | 0.00135 | 164.01 | 0 | ANNUAL | House 46 | RP_H46 |
| 646819 | 4077258 | 0.00102 | 151.53 | 0 | ANNUAL | House 47 | RP_H47 |
| 646778.7 | 4077128 | 0.00091 | 158.51 | 0 | ANNUAL | House 48 | RP_H48 |
| 646987.3 | 4077213 | 0.00106 | 146.44 | 0 | ANNUAL | House 49 | RP_H49 |
| 647898.2 | 4076033 | 0.00027 | 163.83 | 0 | ANNUAL | House 5 | RP_H5 |
| 647241.8 | 4077227 | 0.0012 | 154.85 | 0 | ANNUAL | House 50 | RP_H50 |
| 646773.1 | 4077063 | 0.00085 | 159 | 0 | ANNUAL | House 51 | RP_H51 |
| 647104.4 | 4077118 | 0.00104 | 148.99 | 0 | ANNUAL | House 52 | RP_H52 |
| 647291.9 | 4077123 | 0.00117 | 158.62 | 0 | ANNUAL | House 53 | RP_H53 |
| 646765.2 | 4076978 | 0.00077 | 158.67 | 0 | ANNUAL | House 54 | RP_H54 |
| 646995.7 | 4076984 | 0.00086 | 152.34 | 0 | ANNUAL | House 55 | RP_H55 |
| 647317.2 | 4077031 | 0.0011 | 160.22 | 0 | ANNUAL | House 56 | RP_H56 |
| 647398.4 | 4077013 | 0.00113 | 161.26 | 0 | ANNUAL | House 57 | RP_H57 |
| 646978.9 | 4076904 | 0.00078 | 156.81 | 0 | ANNUAL | House 58 | RP_H58 |
| 647015.2 | 4076807 | 0.0007 | 156.21 | 0 | ANNUAL | House 59 | RP_H59 |
| 648045.4 | 4076018 | 0.00027 | 168.26 | 0 | ANNUAL | House 6 | RP_H6 |
| 647164 | 4076802 | 0.00074 | 154.38 | 0 | ANNUAL | House 60 | RP_H60 |
| 647310.6 | 4076940 | 0.00099 | 162.49 | 0 | ANNUAL | House 61 | RP_H61 |
| 647298.1 | 4076805 | 0.0008 | 158 | 0 | ANNUAL | House 62 | RP_H62 |
| 647446.6 | 4076900 | 0.00102 | 159.45 | 0 | ANNUAL | House 63 | RP_H63 |
| 647464.5 | 4076781 | 0.00085 | 159.32 | 0 | ANNUAL | House 64 | RP_H64 |
| 647512 | 4076536 | 0.00058 | 159 | 0 | ANNUAL | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00024 | 179.58 | 0 | ANNUAL | House 66 | RP_H66 |
| 647131 | 4077336 | 0.00118 | 146.77 | 0 | ANNUAL | House 67 | RP_H67 |
| 646798 | 4076740 | 0.00059 | 156.07 | 0 | ANNUAL | House 68 | RP_H68 |
| 646900 | 4076802 | 0.00066 | 159 | 0 | ANNUAL | House 69 | RP_H69 |
| 648126.3 | 4075955 | 0.00025 | 171.51 | 0 | ANNUAL | House 7 | RP_H7 |
| 647317 | 4076662 | 0.00066 | 159.9 | 0 | ANNUAL | House 70 | RP_H70 |
| 648249.3 | 4075970 | 0.00026 | 183.42 | 0 | ANNUAL | House 8 | RP_H8 |

09/29/21

* AERMET (21112): Future Flare SO2 (Grnd Lvl) 1-yr 2018

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|--------|-------------|-------|
| 648218.6 | 4076109 | 0.00032 | 182.28 | 0 | ANNUAL | House 9 | RP_H9 |

09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 3-hr 2018

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | Description | ID | |
|----------|---------|--------------|--------|-------|------|-----|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.02984 | 123.85 | 0 | 3-HR | ALL | AQ Monitoring Station | AQ_ST_1 | |
| 643903.7 | 4077719 | 0.02098 | 105.68 | 0 | 3-HR | ALL | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642056.8 | 4079416 | 0.02171 | 85.12 | 0 | 3-HR | ALL | Dunne Park | CR_PK_1 | |
| 642179.1 | 4079950 | 0.02114 | 117.99 | 0 | 3-HR | ALL | Vista Park Hill Park | CR_PK_2 | |
| 644733.1 | 4078753 | 0.02077 | 106.44 | 0 | 3-HR | ALL | Las Brisas Park | CR_PK_3 | |
| 645608.8 | 4078854 | 0.02679 | 112.86 | 0 | 3-HR | ALL | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238.1 | 4078807 | 0.02303 | 95.25 | 0 | 3-HR | ALL | Veterans Memorial Park | CR_PK_5 | |
| 645311.5 | 4076559 | 0.03418 | 134.61 | 0 | 3-HR | ALL | Park 6 | CR_PK_6 | |
| 649581.7 | 4073424 | 0.03 | 159.96 | 0 | 3-HR | ALL | Park 7 | CR_PK_7 | |
| 645145.1 | 4077181 | 0.02464 | 133 | 0 | 3-HR | ALL | Cerra Vista Elem School | CR_SC_1 | |
| 642904.7 | 4079955 | 0.01799 | 86 | 0 | 3-HR | ALL | San Andreas Continuation | CR_SC_10 | |
| 645850.7 | 4074015 | 0.01449 | 123 | 0 | 3-HR | ALL | SouthSide School | CR_SC_11 | |
| 642105.7 | 4078176 | 0.02075 | 91 | 0 | 3-HR | ALL | School 12 | CR_SC_12 | |
| 646058.9 | 4078443 | 0.03029 | 128.52 | 0 | 3-HR | ALL | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.02928 | 158 | 0 | 3-HR | ALL | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.01622 | 159 | 0 | 3-HR | ALL | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644109.6 | 4078389 | 0.02246 | 98.2 | 0 | 3-HR | ALL | Sunnyslope Elem School | CR_SC_2 | |
| 643920.1 | 4077304 | 0.01876 | 101.23 | 0 | 3-HR | ALL | Hollister Montessori School | CR_SC_3 | |
| 642961.1 | 4078621 | 0.0252 | 92 | 0 | 3-HR | ALL | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.02098 | 88 | 0 | 3-HR | ALL | Marguerite Maze Middle School | CR_SC_5 | |
| 641630.2 | 4079153 | 0.02384 | 85 | 0 | 3-HR | ALL | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.01939 | 98.22 | 0 | 3-HR | ALL | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.01801 | 87 | 0 | 3-HR | ALL | Gabilan Hills Elementary School | CR_SC_8 | |
| 642244.9 | 4078413 | 0.02105 | 90.17 | 0 | 3-HR | ALL | San Benito High School | CR_SC_9 | |
| 642083.4 | 4079794 | 0.02239 | 87.58 | 0 | 3-HR | ALL | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.03753 | 146.33 | 0 | 3-HR | ALL | Workplace | CR_WP_1 | MEIW |
| 648949 | 4077938 | 0.03432 | 189.45 | 0 | 3-HR | ALL | Nearest Workplace | CR_WP_2 | |
| 647744 | 4079173 | 0.03923 | 155.2 | 0 | 3-HR | ALL | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.01355 | 160 | 0 | 3-HR | ALL | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.11861 | 252.9 | 0 | 3-HR | ALL | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.02516 | 165.9 | 0 | 3-HR | ALL | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.03706 | 159.6 | 0 | 3-HR | ALL | Grid Receptor 12 | G12 | |

^{*} MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 3-hr 2018

08:26:38

- PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | Description | ID |
|--------|---------|--------------|-------|-------|------|-----|------------------|-----|
| 648144 | 4078373 | 0.04219 | 146.2 | 0 | 3-HR | ALL | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.05167 | 158.3 | 0 | 3-HR | ALL | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.06534 | 166.6 | 0 | 3-HR | ALL | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.09587 | 175.4 | 0 | 3-HR | ALL | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.09135 | 177.1 | 0 | 3-HR | ALL | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.06355 | 178 | 0 | 3-HR | ALL | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.02888 | 173 | 0 | 3-HR | ALL | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.03481 | 145.4 | 0 | 3-HR | ALL | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.03498 | 168.8 | 0 | 3-HR | ALL | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.02469 | 173.5 | 0 | 3-HR | ALL | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.02869 | 166.2 | 0 | 3-HR | ALL | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.03465 | 145.4 | 0 | 3-HR | ALL | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.0528 | 173.9 | 0 | 3-HR | ALL | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.07872 | 179.6 | 0 | 3-HR | ALL | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.10797 | 191 | 0 | 3-HR | ALL | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.17721 | 209.2 | 0 | 3-HR | ALL | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.06727 | 233.7 | 0 | 3-HR | ALL | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.02712 | 199.9 | 0 | 3-HR | ALL | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.04471 | 144.4 | 0 | 3-HR | ALL | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.02961 | 195.5 | 0 | 3-HR | ALL | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.03637 | 190.4 | 0 | 3-HR | ALL | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.03599 | 165.4 | 0 | 3-HR | ALL | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.03563 | 159.6 | 0 | 3-HR | ALL | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.03395 | 183.5 | 0 | 3-HR | ALL | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.05617 | 224 | 0 | 3-HR | ALL | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.06527 | 205 | 0 | 3-HR | ALL | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.03745 | 208.8 | 0 | 3-HR | ALL | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.04906 | 134.6 | 0 | 3-HR | ALL | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.01795 | 185.6 | 0 | 3-HR | ALL | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.0168 | 187.4 | 0 | 3-HR | ALL | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.01689 | 160.9 | 0 | 3-HR | ALL | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.02011 | 200.5 | 0 | 3-HR | ALL | Grid Receptor 43 | G43 |
| | | | | | | | | |

09/30/21

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08:26:38

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | Description | ID |
|--------|---------|--------------|-------|-------|------|-----|------------------|-----|
| 649344 | 4077973 | 0.02225 | 229 | 0 | 3-HR | ALL | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.15724 | 253.3 | 0 | 3-HR | ALL | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.32959 | 220.2 | 0 | 3-HR | ALL | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.08736 | 227.2 | 0 | 3-HR | ALL | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.05907 | 163.8 | 0 | 3-HR | ALL | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.05305 | 205.5 | 0 | 3-HR | ALL | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.01968 | 176.1 | 0 | 3-HR | ALL | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.02766 | 195 | 0 | 3-HR | ALL | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.03359 | 196.1 | 0 | 3-HR | ALL | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.03502 | 215.3 | 0 | 3-HR | ALL | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.02582 | 221.6 | 0 | 3-HR | ALL | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.17638 | 211.7 | 0 | 3-HR | ALL | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.13477 | 237.7 | 0 | 3-HR | ALL | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.0595 | 158.4 | 0 | 3-HR | ALL | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.07348 | 204.2 | 0 | 3-HR | ALL | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.03241 | 173 | 0 | 3-HR | ALL | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.02801 | 171 | 0 | 3-HR | ALL | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.02034 | 204.6 | 0 | 3-HR | ALL | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.03766 | 216.5 | 0 | 3-HR | ALL | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.15269 | 257.7 | 0 | 3-HR | ALL | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.08846 | 231.4 | 0 | 3-HR | ALL | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.18542 | 249.4 | 0 | 3-HR | ALL | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.05764 | 164.7 | 0 | 3-HR | ALL | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.08532 | 216.4 | 0 | 3-HR | ALL | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.02071 | 177 | 0 | 3-HR | ALL | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.01498 | 180.9 | 0 | 3-HR | ALL | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.03827 | 196.6 | 0 | 3-HR | ALL | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.05036 | 236.9 | 0 | 3-HR | ALL | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.16226 | 261.3 | 0 | 3-HR | ALL | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.35714 | 260.9 | 0 | 3-HR | ALL | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.10312 | 226.7 | 0 | 3-HR | ALL | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.06107 | 164 | 0 | 3-HR | ALL | Grid Receptor 8 | G8 |

09/30/21

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- PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | Description | ID |
|----------|---------|--------------|--------|-------|------|-----|-----------------------|-----|
| 650544 | 4075573 | 0.31908 | 268.2 | 0 | 3-HR | ALL | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.01888 | 181.3 | 0 | 3-HR | ALL | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.02969 | 178.4 | 0 | 3-HR | ALL | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.03938 | 214.8 | 0 | 3-HR | ALL | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.07313 | 249.9 | 0 | 3-HR | ALL | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.3328 | 276.5 | 0 | 3-HR | ALL | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.07201 | 225.6 | 0 | 3-HR | ALL | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.07997 | 219.8 | 0 | 3-HR | ALL | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.07254 | 209.2 | 0 | 3-HR | ALL | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.07405 | 216.6 | 0 | 3-HR | ALL | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.04536 | 160.7 | 0 | 3-HR | ALL | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.06177 | 243.2 | 0 | 3-HR | ALL | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.02598 | 191 | 0 | 3-HR | ALL | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.02687 | 181 | 0 | 3-HR | ALL | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.04447 | 214.3 | 0 | 3-HR | ALL | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.05892 | 248.4 | 0 | 3-HR | ALL | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.05025 | 213.2 | 0 | 3-HR | ALL | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.06017 | 213.6 | 0 | 3-HR | ALL | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.06476 | 203.5 | 0 | 3-HR | ALL | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.06252 | 205.6 | 0 | 3-HR | ALL | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.05505 | 205.8 | 0 | 3-HR | ALL | Grid Receptor 99 | G99 |
| 648584.2 | 4077523 | 0.08532 | 183.61 | 0 | 3-HR | ALL | Boundary Perimeter 1 | P1 |
| 649484.1 | 4077537 | 0.14949 | 254.01 | 0 | 3-HR | ALL | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.02871 | 235.3 | 0 | 3-HR | ALL | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.03028 | 221.29 | 0 | 3-HR | ALL | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.02226 | 222.37 | 0 | 3-HR | ALL | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.04669 | 233.6 | 0 | 3-HR | ALL | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.091 | 249.54 | 0 | 3-HR | ALL | Boundary Perimeter 15 | P15 |
| 650083.9 | 4077546 | 0.16603 | 258.89 | 0 | 3-HR | ALL | Boundary Perimeter 16 | P16 |
| 650183.9 | 4077548 | 0.17715 | 259.56 | 0 | 3-HR | ALL | Boundary Perimeter 17 | P17 |
| 650283.9 | 4077550 | 0.14126 | 256.77 | 0 | 3-HR | ALL | Boundary Perimeter 18 | P18 |
| 650383.8 | 4077552 | 0.06383 | 242.37 | 0 | 3-HR | ALL | Boundary Perimeter 19 | P19 |

09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 3-hr 2018

08:26:38

- PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | Description | ID |
|----------|---------|--------------|--------|-------|------|-----|-----------------------|-----|
| 648684.2 | 4077525 | 0.09716 | 197.16 | 0 | 3-HR | ALL | Boundary Perimeter 2 | P2 |
| 650483.8 | 4077554 | 0.06103 | 242.23 | 0 | 3-HR | ALL | Boundary Perimeter 20 | P20 |
| 650583.8 | 4077557 | 0.16323 | 259.71 | 0 | 3-HR | ALL | Boundary Perimeter 21 | P21 |
| 650683.8 | 4077559 | 0.14738 | 257.58 | 0 | 3-HR | ALL | Boundary Perimeter 22 | P22 |
| 650776.8 | 4077554 | 0.2681 | 267.9 | 0 | 3-HR | ALL | Boundary Perimeter 23 | P23 |
| 650778.9 | 4077454 | 0.29237 | 275.91 | 0 | 3-HR | ALL | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.1891 | 265.73 | 0 | 3-HR | ALL | Boundary Perimeter 25 | P25 |
| 650783.1 | 4077254 | 0.07881 | 251.08 | 0 | 3-HR | ALL | Boundary Perimeter 26 | P26 |
| 650785.2 | 4077154 | 0.09774 | 252.83 | 0 | 3-HR | ALL | Boundary Perimeter 27 | P27 |
| 650787.3 | 4077054 | 0.07816 | 246.1 | 0 | 3-HR | ALL | Boundary Perimeter 28 | P28 |
| 650789.4 | 4076954 | 0.07888 | 241.37 | 0 | 3-HR | ALL | Boundary Perimeter 29 | P29 |
| 648784.2 | 4077527 | 0.11583 | 209.74 | 0 | 3-HR | ALL | Boundary Perimeter 3 | Р3 |
| 650791.5 | 4076854 | 0.10349 | 246.79 | 0 | 3-HR | ALL | Boundary Perimeter 30 | P30 |
| 650793.6 | 4076754 | 0.08619 | 228.75 | 0 | 3-HR | ALL | Boundary Perimeter 31 | P31 |
| 650754.4 | 4076683 | 0.09199 | 217.76 | 0 | 3-HR | ALL | Boundary Perimeter 32 | P32 |
| 650660.2 | 4076650 | 0.09239 | 221.2 | 0 | 3-HR | ALL | Boundary Perimeter 33 | P33 |
| 650561.4 | 4076650 | 0.0977 | 220.83 | 0 | 3-HR | ALL | Boundary Perimeter 34 | P34 |
| 650462.7 | 4076666 | 0.10485 | 223.42 | 0 | 3-HR | ALL | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.10682 | 222.46 | 0 | 3-HR | ALL | Boundary Perimeter 36 | P36 |
| 650264.2 | 4076683 | 0.10725 | 223.19 | 0 | 3-HR | ALL | Boundary Perimeter 37 | P37 |
| 650164.7 | 4076674 | 0.11392 | 222.1 | 0 | 3-HR | ALL | Boundary Perimeter 38 | P38 |
| 650065.8 | 4076660 | 0.13034 | 217.03 | 0 | 3-HR | ALL | Boundary Perimeter 39 | P39 |
| 648884.2 | 4077529 | 0.09895 | 214.25 | 0 | 3-HR | ALL | Boundary Perimeter 4 | P4 |
| 649980.4 | 4076627 | 0.14412 | 214.82 | 0 | 3-HR | ALL | Boundary Perimeter 40 | P40 |
| 649920.3 | 4076547 | 0.12724 | 214.91 | 0 | 3-HR | ALL | Boundary Perimeter 41 | P41 |
| 649852.2 | 4076474 | 0.14137 | 214.09 | 0 | 3-HR | ALL | Boundary Perimeter 42 | P42 |
| 649770.7 | 4076417 | 0.17376 | 211.53 | 0 | 3-HR | ALL | Boundary Perimeter 43 | P43 |
| 649680.5 | 4076375 | 0.19547 | 210.17 | 0 | 3-HR | ALL | Boundary Perimeter 44 | P44 |
| 649580.9 | 4076368 | 0.23796 | 208.52 | 0 | 3-HR | ALL | Boundary Perimeter 45 | P45 |
| 649482.5 | 4076384 | 0.30842 | 207.5 | 0 | 3-HR | ALL | Boundary Perimeter 46 | P46 |
| 649391.6 | 4076425 | 0.30721 | 205.17 | 0 | 3-HR | ALL | Boundary Perimeter 47 | P47 |
| 649303.5 | 4076472 | 0.08857 | 202.16 | 0 | 3-HR | ALL | Boundary Perimeter 48 | P48 |

09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 3-hr 2018

08:26:38

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| | | ,- (,),- (, | 11- 1 - 1 | , -, , -,- |) -)) | - / | | |
|----------|---------|--------------|-----------|------------|--------|-----|-----------------------|--------|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | Description | ID |
| 649226.2 | 4076535 | 0.06743 | 196.38 | 0 | 3-HR | ALL | Boundary Perimeter 49 | P49 |
| 648984.1 | 4077530 | 0.05377 | 221.41 | 0 | 3-HR | ALL | Boundary Perimeter 5 | P5 |
| 649156.2 | 4076605 | 0.18562 | 195.87 | 0 | 3-HR | ALL | Boundary Perimeter 50 | P50 |
| 649068.3 | 4076653 | 0.30854 | 196.32 | 0 | 3-HR | ALL | Boundary Perimeter 51 | P51 |
| 648986.7 | 4076711 | 0.24511 | 192.42 | 0 | 3-HR | ALL | Boundary Perimeter 52 | P52 |
| 648936.5 | 4076759 | 0.239 | 192.46 | 0 | 3-HR | ALL | Boundary Perimeter 53 | P53 |
| 648868.6 | 4076833 | 0.21375 | 191.63 | 0 | 3-HR | ALL | Boundary Perimeter 54 | P54 |
| 648797.2 | 4076902 | 0.17925 | 186.32 | 0 | 3-HR | ALL | Boundary Perimeter 55 | P55 |
| 648710.6 | 4076952 | 0.16726 | 179.81 | 0 | 3-HR | ALL | Boundary Perimeter 56 | P56 |
| 648620.8 | 4076996 | 0.15426 | 176.23 | 0 | 3-HR | ALL | Boundary Perimeter 57 | P57 |
| 648607.2 | 4077051 | 0.13213 | 175.02 | 0 | 3-HR | ALL | Boundary Perimeter 58 | P58 |
| 648680.1 | 4077119 | 0.10688 | 180.62 | 0 | 3-HR | ALL | Boundary Perimeter 59 | P59 |
| 649084.1 | 4077532 | 0.04021 | 216.54 | 0 | 3-HR | ALL | Boundary Perimeter 6 | P6 |
| 648759.2 | 4077180 | 0.10178 | 183.47 | 0 | 3-HR | ALL | Boundary Perimeter 60 | P60 |
| 648791.4 | 4077262 | 0.14284 | 202.88 | 0 | 3-HR | ALL | Boundary Perimeter 61 | P61 |
| 648788.5 | 4077362 | 0.10613 | 178.21 | 0 | 3-HR | ALL | Boundary Perimeter 62 | P62 |
| 648691.3 | 4077361 | 0.10079 | 176.25 | 0 | 3-HR | ALL | Boundary Perimeter 63 | P63 |
| 648591.4 | 4077357 | 0.09393 | 176 | 0 | 3-HR | ALL | Boundary Perimeter 64 | P64 |
| 648525.7 | 4077371 | 0.09208 | 175.24 | 0 | 3-HR | ALL | Boundary Perimeter 65 | P65 |
| 648586.9 | 4077430 | 0.08114 | 175.13 | 0 | 3-HR | ALL | Boundary Perimeter 66 | P66 |
| 649184.1 | 4077534 | 0.03458 | 230.71 | 0 | 3-HR | ALL | Boundary Perimeter 7 | P7 |
| 649284.1 | 4077535 | 0.09458 | 248.08 | 0 | 3-HR | ALL | Boundary Perimeter 8 | P8 |
| 649384.1 | 4077536 | 0.36012 | 258.43 | 0 | 3-HR | ALL | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.02467 | 127.38 | 0 | 3-HR | ALL | New Development | RP_G1 |
| 645930 | 4078083 | 0.02739 | 127.58 | 0 | 3-HR | ALL | New Development | RP_G10 |
| 646030 | 4078083 | 0.02948 | 130.56 | 0 | 3-HR | ALL | New Development | RP_G11 |
| 646130 | 4078083 | 0.0313 | 134.35 | 0 | 3-HR | ALL | New Development | RP_G12 |
| 646230 | 4078083 | 0.0327 | 139.22 | 0 | 3-HR | ALL | New Development | RP_G13 |
| 646330 | 4078083 | 0.03354 | 144.65 | 0 | 3-HR | ALL | New Development | RP_G14 |
| 646430 | 4078083 | 0.03354 | 142.28 | 0 | 3-HR | ALL | New Development | RP_G15 |
| 646530 | 4078083 | 0.03396 | 146.76 | 0 | 3-HR | ALL | New Development | RP_G16 |
| 646630 | 4078083 | 0.03577 | 150.64 | 0 | 3-HR | ALL | New Development | RP_G17 |

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09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 3-hr 2018

08:26:38

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | Description | ID |
|----------|---------|--------------|--------|-------|------|-----|-----------------|--------|
| 646730 | 4078083 | 0.03693 | 155.4 | 0 | 3-HR | ALL | New Development | RP_G18 |
| 645930 | 4078183 | 0.02924 | 127.22 | 0 | 3-HR | ALL | New Development | RP_G19 |
| 646030 | 4077983 | 0.02656 | 131.21 | 0 | 3-HR | ALL | New Development | RP_G2 |
| 646030 | 4078183 | 0.03049 | 130.56 | 0 | 3-HR | ALL | New Development | RP_G20 |
| 646130 | 4078183 | 0.03126 | 133.89 | 0 | 3-HR | ALL | New Development | RP_G21 |
| 646230 | 4078183 | 0.03145 | 140.45 | 0 | 3-HR | ALL | New Development | RP_G22 |
| 646330 | 4078183 | 0.03228 | 146.94 | 0 | 3-HR | ALL | New Development | RP_G23 |
| 646430 | 4078183 | 0.03353 | 140.23 | 0 | 3-HR | ALL | New Development | RP_G24 |
| 646530 | 4078183 | 0.03485 | 147.25 | 0 | 3-HR | ALL | New Development | RP_G25 |
| 646630 | 4078183 | 0.03618 | 151.56 | 0 | 3-HR | ALL | New Development | RP_G26 |
| 646730 | 4078183 | 0.03793 | 157.78 | 0 | 3-HR | ALL | New Development | RP_G27 |
| 645930 | 4078283 | 0.02923 | 126.06 | 0 | 3-HR | ALL | New Development | RP_G28 |
| 646030 | 4078283 | 0.02946 | 129.56 | 0 | 3-HR | ALL | New Development | RP_G29 |
| 646130 | 4077983 | 0.02913 | 135.89 | 0 | 3-HR | ALL | New Development | RP_G3 |
| 646130 | 4078283 | 0.03055 | 132.89 | 0 | 3-HR | ALL | New Development | RP_G30 |
| 646230 | 4078283 | 0.03145 | 139.24 | 0 | 3-HR | ALL | New Development | RP_G31 |
| 646330 | 4078283 | 0.03284 | 142.68 | 0 | 3-HR | ALL | New Development | RP_G32 |
| 646430 | 4078283 | 0.03352 | 140.02 | 0 | 3-HR | ALL | New Development | RP_G33 |
| 646530 | 4078283 | 0.03549 | 147.22 | 0 | 3-HR | ALL | New Development | RP_G34 |
| 646630 | 4078283 | 0.03643 | 151.56 | 0 | 3-HR | ALL | New Development | RP_G35 |
| 646730 | 4078283 | 0.03611 | 156.78 | 0 | 3-HR | ALL | New Development | RP_G36 |
| 646230 | 4077983 | 0.03152 | 139.18 | 0 | 3-HR | ALL | New Development | RP_G4 |
| 646330 | 4077983 | 0.03357 | 140.76 | 0 | 3-HR | ALL | New Development | RP_G5 |
| 646430 | 4077983 | 0.03512 | 143.89 | 0 | 3-HR | ALL | New Development | RP_G6 |
| 646530 | 4077983 | 0.03593 | 145.22 | 0 | 3-HR | ALL | New Development | RP_G7 |
| 646630 | 4077983 | 0.03582 | 147.21 | 0 | 3-HR | ALL | New Development | RP_G8 |
| 646730 | 4077983 | 0.03598 | 148.3 | 0 | 3-HR | ALL | New Development | RP_G9 |
| 648659.3 | 4077241 | 0.12291 | 205.79 | 0 | 3-HR | ALL | House 1 | RP_H1 |
| 648071.2 | 4076116 | 0.04476 | 169.6 | 0 | 3-HR | ALL | House 10 | RP_H10 |
| 648247.4 | 4076278 | 0.04073 | 184.55 | 0 | 3-HR | ALL | House 11 | RP_H11 |
| 648027.2 | 4076255 | 0.04056 | 169.38 | 0 | 3-HR | ALL | House 12 | RP_H12 |
| 648065.8 | 4076359 | 0.06384 | 173.83 | 0 | 3-HR | ALL | House 13 | RP_H13 |

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- * FOR A TOTAL OF 289 RECEPTORS.
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | Description | ID |
|----------|---------|--------------|--------|-------|------|-----|-------------|--------|
| 648138.7 | 4076400 | 0.06474 | 178.22 | 0 | 3-HR | ALL | House 14 | RP_H14 |
| 648254.7 | 4076411 | 0.06348 | 191.28 | 0 | 3-HR | ALL | House 15 | RP_H15 |
| 647877.8 | 4076365 | 0.06421 | 165.39 | 0 | 3-HR | ALL | House 16 | RP_H16 |
| 647520 | 4076206 | 0.04955 | 159 | 0 | 3-HR | ALL | House 17 | RP_H17 |
| 647921 | 4076247 | 0.04484 | 164 | 0 | 3-HR | ALL | House 18 | RP_H18 |
| 647708.8 | 4076352 | 0.06168 | 163.52 | 0 | 3-HR | ALL | House 19 | RP_H19 |
| 648371.7 | 4075470 | 0.02958 | 173.69 | 0 | 3-HR | ALL | House 2 | RP_H2 |
| 647703.6 | 4076251 | 0.05397 | 162.17 | 0 | 3-HR | ALL | House 20 | RP_H20 |
| 647718.8 | 4076104 | 0.04311 | 159.35 | 0 | 3-HR | ALL | House 21 | RP_H21 |
| 647843.3 | 4076125 | 0.04413 | 163 | 0 | 3-HR | ALL | House 22 | RP_H22 |
| 647842.3 | 4076500 | 0.0592 | 167.93 | 0 | 3-HR | ALL | House 23 | RP_H23 |
| 647727.8 | 4076644 | 0.05849 | 164.15 | 0 | 3-HR | ALL | House 24 | RP_H24 |
| 647823.9 | 4076644 | 0.05984 | 168.29 | 0 | 3-HR | ALL | House 25 | RP_H25 |
| 647530 | 4076497 | 0.05508 | 159.56 | 0 | 3-HR | ALL | House 26 | RP_H26 |
| 647810.1 | 4076854 | 0.07258 | 162.9 | 0 | 3-HR | ALL | House 27 | RP_H27 |
| 647697.5 | 4076989 | 0.05724 | 161.42 | 0 | 3-HR | ALL | House 28 | RP_H28 |
| 648225.5 | 4076182 | 0.04377 | 183.22 | 0 | 3-HR | ALL | House 29 | RP_H29 |
| 647678.2 | 4075969 | 0.04586 | 159.5 | 0 | 3-HR | ALL | House 3 | RP_H3 |
| 645876.3 | 4077487 | 0.02644 | 127.13 | 0 | 3-HR | ALL | House 30 | RP_H30 |
| 650902 | 4076062 | 0.06031 | 215.24 | 0 | 3-HR | ALL | House 31 | RP_H31 |
| 651490 | 4076597 | 0.06148 | 205.5 | 0 | 3-HR | ALL | House 32 | RP_H32 |
| 651565 | 4077067 | 0.05494 | 213.93 | 0 | 3-HR | ALL | House 33 | RP_H33 |
| 648672.8 | 4075307 | 0.01405 | 225.91 | 0 | 3-HR | ALL | House 34 | RP_H34 |
| 648383.6 | 4075469 | 0.02861 | 174.44 | 0 | 3-HR | ALL | House 35 | RP_H35 |
| 646379.4 | 4077233 | 0.03389 | 146 | 0 | 3-HR | ALL | House 36 | RP_H36 |
| 651849.7 | 4075865 | 0.04855 | 201.97 | 0 | 3-HR | ALL | House 37 | RP_H37 |
| 652045.5 | 4076210 | 0.04472 | 196.88 | 0 | 3-HR | ALL | House 38 | RP_H38 |
| 652255.7 | 4076391 | 0.04101 | 197.06 | 0 | 3-HR | ALL | House 39 | RP_H39 |
| 647815.3 | 4075985 | 0.04475 | 162.04 | 0 | 3-HR | ALL | House 4 | RP_H4 |
| 646853.7 | 4077373 | 0.03937 | 145.99 | 0 | 3-HR | ALL | House 40 | RP_H40 |
| 647050.2 | 4077360 | 0.04283 | 145 | 0 | 3-HR | ALL | House 41 | RP_H41 |
| 647286.4 | 4077474 | 0.04771 | 149.68 | 0 | 3-HR | ALL | House 42 | RP_H42 |

09/30/21

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- PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | Description | ID |
|----------|---------|--------------|--------|-------|------|-----|-------------|--------|
| 647359.1 | 4077340 | 0.04381 | 154.45 | 0 | 3-HR | ALL | House 43 | RP_H43 |
| 647490.4 | 4077329 | 0.04882 | 162.28 | 0 | 3-HR | ALL | House 44 | RP_H44 |
| 647522.2 | 4077252 | 0.05035 | 164.3 | 0 | 3-HR | ALL | House 45 | RP_H45 |
| 647517.8 | 4077139 | 0.04827 | 164.01 | 0 | 3-HR | ALL | House 46 | RP_H46 |
| 646819 | 4077258 | 0.03356 | 151.53 | 0 | 3-HR | ALL | House 47 | RP_H47 |
| 646778.7 | 4077128 | 0.04045 | 158.51 | 0 | 3-HR | ALL | House 48 | RP_H48 |
| 646987.3 | 4077213 | 0.03555 | 146.44 | 0 | 3-HR | ALL | House 49 | RP_H49 |
| 647898.2 | 4076033 | 0.04526 | 163.83 | 0 | 3-HR | ALL | House 5 | RP_H5 |
| 647241.8 | 4077227 | 0.04405 | 154.85 | 0 | 3-HR | ALL | House 50 | RP_H50 |
| 646773.1 | 4077063 | 0.04047 | 159 | 0 | 3-HR | ALL | House 51 | RP_H51 |
| 647104.4 | 4077118 | 0.04358 | 148.99 | 0 | 3-HR | ALL | House 52 | RP_H52 |
| 647291.9 | 4077123 | 0.04243 | 158.62 | 0 | 3-HR | ALL | House 53 | RP_H53 |
| 646765.2 | 4076978 | 0.03756 | 158.67 | 0 | 3-HR | ALL | House 54 | RP_H54 |
| 646995.7 | 4076984 | 0.04365 | 152.34 | 0 | 3-HR | ALL | House 55 | RP_H55 |
| 647317.2 | 4077031 | 0.05187 | 160.22 | 0 | 3-HR | ALL | House 56 | RP_H56 |
| 647398.4 | 4077013 | 0.05419 | 161.26 | 0 | 3-HR | ALL | House 57 | RP_H57 |
| 646978.9 | 4076904 | 0.0431 | 156.81 | 0 | 3-HR | ALL | House 58 | RP_H58 |
| 647015.2 | 4076807 | 0.04565 | 156.21 | 0 | 3-HR | ALL | House 59 | RP_H59 |
| 648045.4 | 4076018 | 0.03972 | 168.26 | 0 | 3-HR | ALL | House 6 | RP_H6 |
| 647164 | 4076802 | 0.048 | 154.38 | 0 | 3-HR | ALL | House 60 | RP_H60 |
| 647310.6 | 4076940 | 0.05313 | 162.49 | 0 | 3-HR | ALL | House 61 | RP_H61 |
| 647298.1 | 4076805 | 0.05013 | 158 | 0 | 3-HR | ALL | House 62 | RP_H62 |
| 647446.6 | 4076900 | 0.05652 | 159.45 | 0 | 3-HR | ALL | House 63 | RP_H63 |
| 647464.5 | 4076781 | 0.05289 | 159.32 | 0 | 3-HR | ALL | House 64 | RP_H64 |
| 647512 | 4076536 | 0.05618 | 159 | 0 | 3-HR | ALL | House 65 | RP_H65 |
| 651131 | 4078767 | 0.02853 | 179.58 | 0 | 3-HR | ALL | House 66 | RP_H66 |
| 647131 | 4077336 | 0.04399 | 146.77 | 0 | 3-HR | ALL | House 67 | RP_H67 |
| 646798 | 4076740 | 0.04556 | 156.07 | 0 | 3-HR | ALL | House 68 | RP_H68 |
| 646900 | 4076802 | 0.04376 | 159 | 0 | 3-HR | ALL | House 69 | RP_H69 |
| 648126.3 | 4075955 | 0.02777 | 171.51 | 0 | 3-HR | ALL | House 7 | RP_H7 |
| 647317 | 4076662 | 0.05345 | 159.9 | 0 | 3-HR | ALL | House 70 | RP_H70 |
| 648249.3 | 4075970 | 0.02134 | 183.42 | 0 | 3-HR | ALL | House 8 | RP_H8 |

09/30/21

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08:26:38

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | GRP | Description | ID |
|----------|---------|--------------|--------|-------|------|-----|-------------|-------|
| 648218.6 | 4076109 | 0.04061 | 182.28 | 0 | 3-HR | ALL | House 9 | RP_H9 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2018

13:26:44

- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|----------|---------|--------------|--------|-------|-------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.00876 | 123.85 | 0 | 24-HR | AQ Monitoring Station | AQ_ST_1 | |
| 643903.7 | 4077719 | 0.00606 | 105.68 | 0 | 24-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642056.8 | 4079416 | 0.00559 | 85.12 | 0 | 24-HR | Dunne Park | CR_PK_1 | |
| 642179.1 | 4079950 | 0.00507 | 117.99 | 0 | 24-HR | Vista Park Hill Park | CR_PK_2 | |
| 644733.1 | 4078753 | 0.00815 | 106.44 | 0 | 24-HR | Las Brisas Park | CR_PK_3 | |
| 645608.8 | 4078854 | 0.00766 | 112.86 | 0 | 24-HR | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238.1 | 4078807 | 0.00779 | 95.25 | 0 | 24-HR | Veterans Memorial Park | CR_PK_5 | |
| 645311.5 | 4076559 | 0.0063 | 134.61 | 0 | 24-HR | Park 6 | CR_PK_6 | |
| 649581.7 | 4073424 | 0.00543 | 159.96 | 0 | 24-HR | Park 7 | CR_PK_7 | |
| 645145.1 | 4077181 | 0.00748 | 133 | 0 | 24-HR | Cerra Vista Elem School | CR_SC_1 | |
| 642904.7 | 4079955 | 0.0046 | 86 | 0 | 24-HR | San Andreas Continuation | CR_SC_10 | |
| 645850.7 | 4074015 | 0.00184 | 123 | 0 | 24-HR | SouthSide School | CR_SC_11 | |
| 642105.7 | 4078176 | 0.00561 | 91 | 0 | 24-HR | School 12 | CR_SC_12 | |
| 646058.9 | 4078443 | 0.0103 | 128.52 | 0 | 24-HR | Rancho Santana School | CR_SC_13 | - |
| 647269 | 4075575 | 0.00377 | 158 | 0 | 24-HR | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.00273 | 159 | 0 | 24-HR | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644109.6 | 4078389 | 0.00709 | 98.2 | 0 | 24-HR | Sunnyslope Elem School | CR_SC_2 | |
| 643920.1 | 4077304 | 0.00572 | 101.23 | 0 | 24-HR | Hollister Montessori School | CR_SC_3 | |
| 642961.1 | 4078621 | 0.00536 | 92 | 0 | 24-HR | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.00516 | 88 | 0 | 24-HR | Marguerite Maze Middle School | CR_SC_5 | |
| 641630.2 | 4079153 | 0.0049 | 85 | 0 | 24-HR | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.00544 | 98.22 | 0 | 24-HR | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.00561 | 87 | 0 | 24-HR | Gabilan Hills Elementary School | CR_SC_8 | |
| 642244.9 | 4078413 | 0.00493 | 90.17 | 0 | 24-HR | San Benito High School | CR_SC_9 | |
| 642083.4 | 4079794 | 0.00519 | 87.58 | 0 | 24-HR | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.01152 | 146.33 | 0 | 24-HR | Workplace | CR_WP_1 | MEIW |
| 648949 | 4077938 | 0.00435 | 189.45 | 0 | 24-HR | Nearest Workplace | CR_WP_2 | |
| 647744 | 4079173 | 0.01216 | 155.2 | 0 | 24-HR | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.00178 | 160 | 0 | 24-HR | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.02798 | 252.9 | 0 | 24-HR | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.00809 | 165.9 | 0 | 24-HR | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.01306 | 159.6 | 0 | 24-HR | Grid Receptor 12 | G12 | |

09/29/21

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13:26:44

- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|-------|------------------|-----|
| 648144 | 4078373 | 0.01706 | 146.2 | 0 | 24-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.01566 | 158.3 | 0 | 24-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.02195 | 166.6 | 0 | 24-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.04768 | 175.4 | 0 | 24-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.02747 | 177.1 | 0 | 24-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.02174 | 178 | 0 | 24-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.00402 | 173 | 0 | 24-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.01279 | 145.4 | 0 | 24-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.00446 | 168.8 | 0 | 24-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.00311 | 173.5 | 0 | 24-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.00423 | 166.2 | 0 | 24-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.00934 | 145.4 | 0 | 24-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.02139 | 173.9 | 0 | 24-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.02871 | 179.6 | 0 | 24-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.03648 | 191 | 0 | 24-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.06884 | 209.2 | 0 | 24-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.03129 | 233.7 | 0 | 24-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.00464 | 199.9 | 0 | 24-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.01288 | 144.4 | 0 | 24-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.0059 | 195.5 | 0 | 24-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.00457 | 190.4 | 0 | 24-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.00453 | 165.4 | 0 | 24-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.00449 | 159.6 | 0 | 24-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.0043 | 183.5 | 0 | 24-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.01285 | 224 | 0 | 24-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.01005 | 205 | 0 | 24-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.01017 | 208.8 | 0 | 24-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.0155 | 134.6 | 0 | 24-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00381 | 185.6 | 0 | 24-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00299 | 187.4 | 0 | 24-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.00285 | 160.9 | 0 | 24-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.00319 | 200.5 | 0 | 24-HR | Grid Receptor 43 | G43 |

09/29/21

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|-------|------------------|-----|
| 649344 | 4077973 | 0.00406 | 229 | 0 | 24-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.0355 | 253.3 | 0 | 24-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.07745 | 220.2 | 0 | 24-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.02283 | 227.2 | 0 | 24-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.02265 | 163.8 | 0 | 24-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.0135 | 205.5 | 0 | 24-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.00284 | 176.1 | 0 | 24-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00399 | 195 | 0 | 24-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00485 | 196.1 | 0 | 24-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.00508 | 215.3 | 0 | 24-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.00421 | 221.6 | 0 | 24-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.05769 | 211.7 | 0 | 24-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.04482 | 237.7 | 0 | 24-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.02505 | 158.4 | 0 | 24-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.02444 | 204.2 | 0 | 24-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.00466 | 173 | 0 | 24-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.00403 | 171 | 0 | 24-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00294 | 204.6 | 0 | 24-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.00829 | 216.5 | 0 | 24-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.02096 | 257.7 | 0 | 24-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.04795 | 231.4 | 0 | 24-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.04265 | 249.4 | 0 | 24-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.01914 | 164.7 | 0 | 24-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.02282 | 216.4 | 0 | 24-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00305 | 177 | 0 | 24-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.0035 | 180.9 | 0 | 24-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00889 | 196.6 | 0 | 24-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.01155 | 236.9 | 0 | 24-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.03207 | 261.3 | 0 | 24-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.05455 | 260.9 | 0 | 24-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.03047 | 226.7 | 0 | 24-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.01892 | 164 | 0 | 24-HR | Grid Receptor 8 | G8 |

09/29/21

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|-------|-----------------------|-----|
| 650544 | 4075573 | 0.08415 | 268.2 | 0 | 24-HR | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.00459 | 181.3 | 0 | 24-HR | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00722 | 178.4 | 0 | 24-HR | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00927 | 214.8 | 0 | 24-HR | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.01324 | 249.9 | 0 | 24-HR | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.0419 | 276.5 | 0 | 24-HR | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.02212 | 225.6 | 0 | 24-HR | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.02149 | 219.8 | 0 | 24-HR | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.03594 | 209.2 | 0 | 24-HR | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.02001 | 216.6 | 0 | 24-HR | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.00823 | 160.7 | 0 | 24-HR | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.0192 | 243.2 | 0 | 24-HR | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00653 | 191 | 0 | 24-HR | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00606 | 181 | 0 | 24-HR | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.00836 | 214.3 | 0 | 24-HR | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.02302 | 248.4 | 0 | 24-HR | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.01907 | 213.2 | 0 | 24-HR | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.01437 | 213.6 | 0 | 24-HR | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.02163 | 203.5 | 0 | 24-HR | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.0301 | 205.6 | 0 | 24-HR | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.01655 | 205.8 | 0 | 24-HR | Grid Receptor 99 | G99 |
| 648584.2 | 4077523 | 0.03087 | 183.61 | 0 | 24-HR | Boundary Perimeter 1 | P1 |
| 649484.1 | 4077537 | 0.04769 | 254.01 | 0 | 24-HR | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.00565 | 235.3 | 0 | 24-HR | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.00418 | 221.29 | 0 | 24-HR | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00514 | 222.37 | 0 | 24-HR | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.00991 | 233.6 | 0 | 24-HR | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.01996 | 249.54 | 0 | 24-HR | Boundary Perimeter 15 | P15 |
| 650083.9 | 4077546 | 0.0291 | 258.89 | 0 | 24-HR | Boundary Perimeter 16 | P16 |
| 650183.9 | 4077548 | 0.03051 | 259.56 | 0 | 24-HR | Boundary Perimeter 17 | P17 |
| 650283.9 | 4077550 | 0.02211 | 256.77 | 0 | 24-HR | Boundary Perimeter 18 | P18 |
| 650383.8 | 4077552 | 0.01159 | 242.37 | 0 | 24-HR | Boundary Perimeter 19 | P19 |

09/29/21

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|-------|-----------------------|-----|
| 648684.2 | 4077525 | 0.0384 | 197.16 | 0 | 24-HR | Boundary Perimeter 2 | P2 |
| 650483.8 | 4077554 | 0.0189 | 242.23 | 0 | 24-HR | Boundary Perimeter 20 | P20 |
| 650583.8 | 4077557 | 0.02889 | 259.71 | 0 | 24-HR | Boundary Perimeter 21 | P21 |
| 650683.8 | 4077559 | 0.03393 | 257.58 | 0 | 24-HR | Boundary Perimeter 22 | P22 |
| 650776.8 | 4077554 | 0.05327 | 267.9 | 0 | 24-HR | Boundary Perimeter 23 | P23 |
| 650778.9 | 4077454 | 0.03986 | 275.91 | 0 | 24-HR | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.05162 | 265.73 | 0 | 24-HR | Boundary Perimeter 25 | P25 |
| 650783.1 | 4077254 | 0.02919 | 251.08 | 0 | 24-HR | Boundary Perimeter 26 | P26 |
| 650785.2 | 4077154 | 0.03459 | 252.83 | 0 | 24-HR | Boundary Perimeter 27 | P27 |
| 650787.3 | 4077054 | 0.02776 | 246.1 | 0 | 24-HR | Boundary Perimeter 28 | P28 |
| 650789.4 | 4076954 | 0.02043 | 241.37 | 0 | 24-HR | Boundary Perimeter 29 | P29 |
| 648784.2 | 4077527 | 0.03964 | 209.74 | 0 | 24-HR | Boundary Perimeter 3 | Р3 |
| 650791.5 | 4076854 | 0.0245 | 246.79 | 0 | 24-HR | Boundary Perimeter 30 | P30 |
| 650793.6 | 4076754 | 0.02218 | 228.75 | 0 | 24-HR | Boundary Perimeter 31 | P31 |
| 650754.4 | 4076683 | 0.02715 | 217.76 | 0 | 24-HR | Boundary Perimeter 32 | P32 |
| 650660.2 | 4076650 | 0.0286 | 221.2 | 0 | 24-HR | Boundary Perimeter 33 | P33 |
| 650561.4 | 4076650 | 0.02847 | 220.83 | 0 | 24-HR | Boundary Perimeter 34 | P34 |
| 650462.7 | 4076666 | 0.02702 | 223.42 | 0 | 24-HR | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.0248 | 222.46 | 0 | 24-HR | Boundary Perimeter 36 | P36 |
| 650264.2 | 4076683 | 0.02783 | 223.19 | 0 | 24-HR | Boundary Perimeter 37 | P37 |
| 650164.7 | 4076674 | 0.03115 | 222.1 | 0 | 24-HR | Boundary Perimeter 38 | P38 |
| 650065.8 | 4076660 | 0.03643 | 217.03 | 0 | 24-HR | Boundary Perimeter 39 | P39 |
| 648884.2 | 4077529 | 0.0256 | 214.25 | 0 | 24-HR | Boundary Perimeter 4 | P4 |
| 649980.4 | 4076627 | 0.03996 | 214.82 | 0 | 24-HR | Boundary Perimeter 40 | P40 |
| 649920.3 | 4076547 | 0.05563 | 214.91 | 0 | 24-HR | Boundary Perimeter 41 | P41 |
| 649852.2 | 4076474 | 0.07142 | 214.09 | 0 | 24-HR | Boundary Perimeter 42 | P42 |
| 649770.7 | 4076417 | 0.07838 | 211.53 | 0 | 24-HR | Boundary Perimeter 43 | P43 |
| 649680.5 | 4076375 | 0.07074 | 210.17 | 0 | 24-HR | Boundary Perimeter 44 | P44 |
| 649580.9 | 4076368 | 0.09189 | 208.52 | 0 | 24-HR | Boundary Perimeter 45 | P45 |
| 649482.5 | 4076384 | 0.11063 | 207.5 | 0 | 24-HR | Boundary Perimeter 46 | P46 |
| 649391.6 | 4076425 | 0.09585 | 205.17 | 0 | 24-HR | Boundary Perimeter 47 | P47 |
| 649303.5 | 4076472 | 0.01556 | 202.16 | 0 | 24-HR | Boundary Perimeter 48 | P48 |

09/29/21

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|----------|---------|--------------|--------|-------|-------|-----------------------|-------|----|
| 649226.2 | 4076535 | 0.00995 | 196.38 | 0 | 24-HR | Boundary Perimeter 49 | P49 | |
| 648984.1 | 4077530 | 0.011 | 221.41 | 0 | 24-HR | Boundary Perimeter 5 | P5 | |
| 649156.2 | 4076605 | 0.04202 | 195.87 | 0 | 24-HR | Boundary Perimeter 50 | P50 | |
| 649068.3 | 4076653 | 0.12205 | 196.32 | 0 | 24-HR | Boundary Perimeter 51 | P51 | |
| 648986.7 | 4076711 | 0.12549 | 192.42 | 0 | 24-HR | Boundary Perimeter 52 | P52 | PM |
| 648936.5 | 4076759 | 0.11731 | 192.46 | 0 | 24-HR | Boundary Perimeter 53 | P53 | |
| 648868.6 | 4076833 | 0.08661 | 191.63 | 0 | 24-HR | Boundary Perimeter 54 | P54 | |
| 648797.2 | 4076902 | 0.06249 | 186.32 | 0 | 24-HR | Boundary Perimeter 55 | P55 | |
| 648710.6 | 4076952 | 0.06079 | 179.81 | 0 | 24-HR | Boundary Perimeter 56 | P56 | |
| 648620.8 | 4076996 | 0.06046 | 176.23 | 0 | 24-HR | Boundary Perimeter 57 | P57 | |
| 648607.2 | 4077051 | 0.04118 | 175.02 | 0 | 24-HR | Boundary Perimeter 58 | P58 | |
| 648680.1 | 4077119 | 0.03489 | 180.62 | 0 | 24-HR | Boundary Perimeter 59 | P59 | |
| 649084.1 | 4077532 | 0.00594 | 216.54 | 0 | 24-HR | Boundary Perimeter 6 | P6 | |
| 648759.2 | 4077180 | 0.03561 | 183.47 | 0 | 24-HR | Boundary Perimeter 60 | P60 | |
| 648791.4 | 4077262 | 0.04957 | 202.88 | 0 | 24-HR | Boundary Perimeter 61 | P61 | |
| 648788.5 | 4077362 | 0.04113 | 178.21 | 0 | 24-HR | Boundary Perimeter 62 | P62 | |
| 648691.3 | 4077361 | 0.03479 | 176.25 | 0 | 24-HR | Boundary Perimeter 63 | P63 | |
| 648591.4 | 4077357 | 0.02841 | 176 | 0 | 24-HR | Boundary Perimeter 64 | P64 | |
| 648525.7 | 4077371 | 0.02724 | 175.24 | 0 | 24-HR | Boundary Perimeter 65 | P65 | |
| 648586.9 | 4077430 | 0.0269 | 175.13 | 0 | 24-HR | Boundary Perimeter 66 | P66 | |
| 649184.1 | 4077534 | 0.00746 | 230.71 | 0 | 24-HR | Boundary Perimeter 7 | P7 | |
| 649284.1 | 4077535 | 0.0171 | 248.08 | 0 | 24-HR | Boundary Perimeter 8 | P8 | |
| 649384.1 | 4077536 | 0.06101 | 258.43 | 0 | 24-HR | Boundary Perimeter 9 | P9 | |
| 645930 | 4077983 | 0.01209 | 127.38 | 0 | 24-HR | New Development | RP_G1 | |
| 646030 | 4077983 | 0.01241 | 131.21 | 0 | 24-HR | New Development | RP_G2 | |
| 646130 | 4077983 | 0.01269 | 135.89 | 0 | 24-HR | New Development | RP_G3 | |
| 646230 | 4077983 | 0.01293 | 139.18 | 0 | 24-HR | New Development | RP_G4 | |
| 646330 | 4077983 | 0.01309 | 140.76 | 0 | 24-HR | New Development | RP_G5 | |
| 646430 | 4077983 | 0.01351 | 143.89 | 0 | 24-HR | New Development | RP_G6 | |
| 646530 | 4077983 | 0.01438 | 145.22 | 0 | 24-HR | New Development | RP_G7 | |
| 646630 | 4077983 | 0.01512 | 147.21 | 0 | 24-HR | New Development | RP_G8 | |
| 646730 | 4077983 | 0.01561 | 148.3 | 0 | 24-HR | New Development | RP_G9 | |

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| 648071.2 4076116 0.01092 169.6 0 24-HR House 10 RP_H10 648247.4 4076278 0.017 184.55 0 24-HR House 11 RP_H11 648027.2 4076255 0.01651 169.38 0 24-HR House 12 RP_H12 | X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|---|----------|---------|--------------|--------|-------|-------|-----------------|--------|
| 646130 4078083 0.01213 134.35 0 24-HR New Development RP_G12 646230 4078083 0.01223 139.22 0 24-HR New Development RP_G13 646330 4078083 0.01301 14465 0 24-HR New Development RP_G15 646330 4078083 0.0141 146.76 0 24-HR New Development RP_G16 646530 4078083 0.01439 150.64 0 24-HR New Development RP_G16 646730 4078083 0.01439 150.64 0 24-HR New Development RP_G16 646730 4078083 0.01433 155.4 0 24-HR New Development RP_G18 646730 4078183 0.01129 127.22 0 24-HR New Development RP_G19 646030 4078183 0.01167 133.89 0 24-HR New Development RP_G20 646330 4078183 0.01231 140.45 </td <td>645930</td> <td>4078083</td> <td>0.01184</td> <td>127.58</td> <td>0</td> <td>24-HR</td> <td>New Development</td> <td>RP_G10</td> | 645930 | 4078083 | 0.01184 | 127.58 | 0 | 24-HR | New Development | RP_G10 |
| 646230 4078083 0.01223 139.22 0 24-HR New Development RP_G13 646330 4078083 0.01301 144.65 0 24-HR New Development RP_G14 646330 4078083 0.0141 146.76 0 24-HR New Development RP_G15 646530 4078083 0.01439 150.64 0 24-HR New Development RP_G16 646730 4078083 0.01443 155.4 0 24-HR New Development RP_G17 646730 4078083 0.01129 127.22 0 24-HR New Development RP_G19 646730 4078183 0.01129 127.22 0 24-HR New Development RP_G19 646030 4078183 0.01167 133.89 0 24-HR New Development RP_G20 646330 4078183 0.01231 140.45 0 24-HR New Development RP_G22 646330 4078183 0.01231 140.45< | 646030 | 4078083 | 0.012 | 130.56 | 0 | 24-HR | New Development | RP_G11 |
| 646330 4078083 0.01301 144.65 0 24-HR New Development RP_G14 646430 4078083 0.01357 142.28 0 24-HR New Development RP_G16 646530 4078083 0.0141 146.76 0 24-HR New Development RP_G16 646630 4078083 0.01439 150.64 0 24-HR New Development RP_G17 646730 4078083 0.01433 155.4 0 24-HR New Development RP_G18 645930 4078183 0.01129 127.22 0 24-HR New Development RP_G20 646130 4078183 0.01167 133.89 0 24-HR New Development RP_G21 646230 4078183 0.01231 140.45 0 24-HR New Development RP_G21 646330 4078183 0.01284 146.94 0 24-HR New Development RP_G22 646530 4078183 0.01305 147.25< | 646130 | 4078083 | 0.01213 | 134.35 | 0 | 24-HR | New Development | RP_G12 |
| 646430 4078083 0.01357 142.28 0 24-HR New Development RP_G15 646530 4078083 0.0141 146.76 0 24-HR New Development RP_G16 646530 4078083 0.01439 150.64 0 24-HR New Development RP_G17 646730 4078083 0.01443 155.4 0 24-HR New Development RP_G18 645930 4078183 0.01129 127.22 0 24-HR New Development RP_G19 646030 4078183 0.01133 130.56 0 24-HR New Development RP_G21 646230 4078183 0.01167 133.89 0 24-HR New Development RP_G21 646230 4078183 0.01231 140.45 0 24-HR New Development RP_G22 646330 4078183 0.01284 146.94 0 24-HR New Development RP_G24 646530 4078183 0.01305 147.25< | 646230 | 4078083 | 0.01223 | 139.22 | 0 | 24-HR | New Development | RP_G13 |
| 646530 4078083 0.0141 146.76 0 24-HR New Development RP_G16 646630 4078083 0.01439 150.64 0 24-HR New Development RP_G17 646730 4078083 0.01443 155.4 0 24-HR New Development RP_G18 645930 4078183 0.01129 127.22 0 24-HR New Development RP_G20 646130 4078183 0.01167 133.89 0 24-HR New Development RP_G21 646230 4078183 0.01231 140.45 0 24-HR New Development RP_G22 646330 4078183 0.01284 146.94 0 24-HR New Development RP_G22 646530 4078183 0.01292 140.23 0 24-HR New Development RP_G24 646530 4078183 0.01388 151.56 0 24-HR New Development RP_G25 646630 4078183 0.01288 151.56< | 646330 | 4078083 | 0.01301 | 144.65 | 0 | 24-HR | New Development | RP_G14 |
| 646630 4078083 0.01439 150.64 0 24-HR New Development RP_G17 646730 4078083 0.01443 155.4 0 24-HR New Development RP_G18 645930 4078183 0.01129 127.22 0 24-HR New Development RP_G19 646030 4078183 0.01133 130.56 0 24-HR New Development RP_G21 646130 4078183 0.01167 133.89 0 24-HR New Development RP_G21 646230 4078183 0.01231 140.45 0 24-HR New Development RP_G22 646330 4078183 0.01292 140.23 0 24-HR New Development RP_G23 646530 4078183 0.01292 140.23 0 24-HR New Development RP_G24 646530 4078183 0.01288 151.56 0 24-HR New Development RP_G25 646630 4078183 0.01288 151.56 | 646430 | 4078083 | 0.01357 | 142.28 | 0 | 24-HR | New Development | RP_G15 |
| 646730 4078083 0.01443 155.4 0 24-HR New Development RP G18 64930 4078183 0.01129 127.22 0 24-HR New Development RP G19 646030 4078183 0.01133 130.56 0 24-HR New Development RP G20 646130 4078183 0.01167 133.89 0 24-HR New Development RP G21 646230 4078183 0.01231 140.45 0 24-HR New Development RP G22 646330 4078183 0.01284 146.94 0 24-HR New Development RP G23 646430 4078183 0.01292 140.23 0 24-HR New Development RP G25 646530 4078183 0.01288 151.56 0 24-HR New Development RP G25 646630 4078183 0.01288 151.56 0 24-HR New Development RP G25 646730 4078183 0.010247 157.78 | 646530 | 4078083 | 0.0141 | 146.76 | 0 | 24-HR | New Development | RP_G16 |
| 645930 4078183 0.01129 127.22 0 24-HR New Development RP G19 646030 4078183 0.01133 130.56 0 24-HR New Development RP G20 646130 4078183 0.01167 133.89 0 24-HR New Development RP G21 646230 4078183 0.01231 140.45 0 24-HR New Development RP G22 646330 4078183 0.01284 146.94 0 24-HR New Development RP G23 646430 4078183 0.01292 140.23 0 24-HR New Development RP G24 646530 4078183 0.01305 147.25 0 24-HR New Development RP G25 646630 4078183 0.01288 151.56 0 24-HR New Development RP G26 646730 4078183 0.01247 157.78 0 24-HR New Development RP G26 646730 4078283 0.01109 129.5 | 646630 | 4078083 | 0.01439 | 150.64 | 0 | 24-HR | New Development | RP_G17 |
| 646030 4078183 0.01133 130.56 0 24-HR New Development RP G20 646130 4078183 0.01167 133.89 0 24-HR New Development RP G21 646230 4078183 0.01231 140.45 0 24-HR New Development RP G22 646330 4078183 0.01284 146.94 0 24-HR New Development RP G23 646430 4078183 0.01292 140.23 0 24-HR New Development RP G25 646530 4078183 0.01305 147.25 0 24-HR New Development RP G25 646630 4078183 0.01288 151.56 0 24-HR New Development RP G26 646730 4078183 0.01247 157.78 0 24-HR New Development RP G27 64630 4078283 0.01058 126.06 0 24-HR New Development RP G28 64630 4078283 0.01119 129.56< | 646730 | 4078083 | 0.01443 | 155.4 | 0 | 24-HR | New Development | RP_G18 |
| 646130 4078183 0.01167 133.89 0 24-HR New Development RP_G21 646230 4078183 0.01231 140.45 0 24-HR New Development RP_G22 646330 4078183 0.01284 146.94 0 24-HR New Development RP_G23 646430 4078183 0.01292 140.23 0 24-HR New Development RP_G24 646530 4078183 0.01305 147.25 0 24-HR New Development RP_G25 646630 4078183 0.01288 151.56 0 24-HR New Development RP_G26 646730 4078183 0.01247 157.78 0 24-HR New Development RP_G26 646730 4078283 0.01058 126.06 0 24-HR New Development RP_G28 646030 4078283 0.01109 129.56 0 24-HR New Development RP_G30 646330 4078283 0.0115 132.89 | 645930 | 4078183 | 0.01129 | 127.22 | 0 | 24-HR | New Development | RP_G19 |
| 646230 4078183 0.01231 140.45 0 24-HR New Development RP_G22 646330 4078183 0.01284 146.94 0 24-HR New Development RP_G23 646430 4078183 0.01292 140.23 0 24-HR New Development RP_G24 646530 4078183 0.01305 147.25 0 24-HR New Development RP_G25 646630 4078183 0.01288 151.56 0 24-HR New Development RP_G26 646730 4078183 0.01247 157.78 0 24-HR New Development RP_G26 646730 4078283 0.01058 126.06 0 24-HR New Development RP_G28 646030 4078283 0.01109 129.56 0 24-HR New Development RP_G29 646130 4078283 0.0115 132.89 0 24-HR New Development RP_G30 646330 4078283 0.01193 142.68 | 646030 | 4078183 | 0.01133 | 130.56 | 0 | 24-HR | New Development | RP_G20 |
| 646330 4078183 0.01284 146.94 0 24-HR New Development RP_G23 646430 4078183 0.01292 140.23 0 24-HR New Development RP_G24 646530 4078183 0.01305 147.25 0 24-HR New Development RP_G25 646630 4078183 0.01288 151.56 0 24-HR New Development RP_G26 646730 4078183 0.01247 157.78 0 24-HR New Development RP_G27 645930 4078283 0.01058 126.06 0 24-HR New Development RP_G28 646030 4078283 0.01109 129.56 0 24-HR New Development RP_G29 646130 4078283 0.0115 132.89 0 24-HR New Development RP_G30 646330 4078283 0.01193 142.68 0 24-HR New Development RP_G32 646430 4078283 0.01172 140.02 | 646130 | 4078183 | 0.01167 | 133.89 | 0 | 24-HR | New Development | RP_G21 |
| 646430 4078183 0.01292 140.23 0 24-HR New Development RP_G24 646530 4078183 0.01305 147.25 0 24-HR New Development RP_G25 646630 4078183 0.01288 151.56 0 24-HR New Development RP_G26 646730 4078183 0.01247 157.78 0 24-HR New Development RP_G27 645930 4078283 0.01058 126.06 0 24-HR New Development RP_G28 646030 4078283 0.01109 129.56 0 24-HR New Development RP_G29 646130 4078283 0.0115 132.89 0 24-HR New Development RP_G30 646230 4078283 0.01182 139.24 0 24-HR New Development RP_G31 646430 4078283 0.01193 142.68 0 24-HR New Development RP_G32 646430 4078283 0.01172 140.02 | 646230 | 4078183 | 0.01231 | 140.45 | 0 | 24-HR | New Development | RP_G22 |
| 646530 4078183 0.01305 147.25 0 24-HR New Development RP_G25 646630 4078183 0.01288 151.56 0 24-HR New Development RP_G26 646730 4078183 0.01247 157.78 0 24-HR New Development RP_G27 645930 4078283 0.01058 126.06 0 24-HR New Development RP_G28 646030 4078283 0.01109 129.56 0 24-HR New Development RP_G29 646130 4078283 0.0115 132.89 0 24-HR New Development RP_G30 646230 4078283 0.01182 139.24 0 24-HR New Development RP_G32 646430 4078283 0.01193 142.68 0 24-HR New Development RP_G32 646530 4078283 0.01172 140.02 0 24-HR New Development RP_G33 646530 4078283 0.01146 147.22 | 646330 | 4078183 | 0.01284 | 146.94 | 0 | 24-HR | New Development | RP_G23 |
| 646630 4078183 0.01288 151.56 0 24-HR New Development RP G26 646730 4078183 0.01247 157.78 0 24-HR New Development RP G27 645930 4078283 0.01058 126.06 0 24-HR New Development RP G28 646030 4078283 0.01109 129.56 0 24-HR New Development RP G30 646130 4078283 0.0115 132.89 0 24-HR New Development RP G30 646230 4078283 0.01182 139.24 0 24-HR New Development RP G31 646330 4078283 0.01193 142.68 0 24-HR New Development RP G32 646430 4078283 0.01172 140.02 0 24-HR New Development RP G33 646530 4078283 0.01146 147.22 0 24-HR New Development RP G35 646730 4078283 0.01134 151.56 | 646430 | 4078183 | 0.01292 | 140.23 | 0 | 24-HR | New Development | RP_G24 |
| 646730 4078183 0.01247 157.78 0 24-HR New Development RP_G27 645930 4078283 0.01058 126.06 0 24-HR New Development RP_G28 646030 4078283 0.01109 129.56 0 24-HR New Development RP_G29 646130 4078283 0.0115 132.89 0 24-HR New Development RP_G30 646230 4078283 0.01182 139.24 0 24-HR New Development RP_G31 646330 4078283 0.01193 142.68 0 24-HR New Development RP_G32 646430 4078283 0.01172 140.02 0 24-HR New Development RP_G33 646530 4078283 0.01146 147.22 0 24-HR New Development RP_G34 646630 4078283 0.01134 151.56 0 24-HR New Development RP_G35 646730 4078283 0.01194 156.78 | 646530 | 4078183 | 0.01305 | 147.25 | 0 | 24-HR | New Development | RP_G25 |
| 64593040782830.01058126.06024-HRNew DevelopmentRP_G2864603040782830.01109129.56024-HRNew DevelopmentRP_G2964613040782830.0115132.89024-HRNew DevelopmentRP_G3064623040782830.01182139.24024-HRNew DevelopmentRP_G3164633040782830.01193142.68024-HRNew DevelopmentRP_G3264643040782830.01172140.02024-HRNew DevelopmentRP_G3364653040782830.01146147.22024-HRNew DevelopmentRP_G3464663040782830.01134151.56024-HRNew DevelopmentRP_G3564673040782830.01194156.78024-HRNew DevelopmentRP_G36648659.340772410.03669205.79024-HRHouse IRP_HI648071.240761160.01092169.6024-HRHouse 10RP_H10648247.440762780.017184.55024-HRHouse 11RP_H11648027.240762550.01651169.38024-HRHouse 12RP_H12 | 646630 | 4078183 | 0.01288 | 151.56 | 0 | 24-HR | New Development | RP_G26 |
| 646030 4078283 0.01109 129.56 0 24-HR New Development RP_G29 646130 4078283 0.0115 132.89 0 24-HR New Development RP_G30 646230 4078283 0.01182 139.24 0 24-HR New Development RP_G31 646330 4078283 0.01193 142.68 0 24-HR New Development RP_G32 646430 4078283 0.01172 140.02 0 24-HR New Development RP_G33 646530 4078283 0.01146 147.22 0 24-HR New Development RP_G34 646630 4078283 0.01134 151.56 0 24-HR New Development RP_G35 646730 4078283 0.01194 156.78 0 24-HR New Development RP_BG36 648659.3 4077241 0.03669 205.79 0 24-HR House 1 RP_H1 648247.4 4076278 0.017 184.55 | 646730 | 4078183 | 0.01247 | 157.78 | 0 | 24-HR | New Development | RP_G27 |
| 646130 4078283 0.0115 132.89 0 24-HR New Development RP_G30 646230 4078283 0.01182 139.24 0 24-HR New Development RP_G31 646330 4078283 0.01193 142.68 0 24-HR New Development RP_G32 646430 4078283 0.01172 140.02 0 24-HR New Development RP_G33 646530 4078283 0.01146 147.22 0 24-HR New Development RP_G34 646630 4078283 0.01134 151.56 0 24-HR New Development RP_G35 646730 4078283 0.01194 156.78 0 24-HR New Development RP_G36 648659.3 4077241 0.03669 205.79 0 24-HR House 1 RP_H1 648071.2 4076116 0.01092 169.6 0 24-HR House 10 RP_H10 648027.2 4076255 0.01651 169.38 | 645930 | 4078283 | 0.01058 | 126.06 | 0 | 24-HR | New Development | |
| 646230 4078283 0.01182 139.24 0 24-HR New Development RP_G31 646330 4078283 0.01193 142.68 0 24-HR New Development RP_G32 646430 4078283 0.01172 140.02 0 24-HR New Development RP_G33 646530 4078283 0.01146 147.22 0 24-HR New Development RP_G35 646630 4078283 0.01134 151.56 0 24-HR New Development RP_G35 646730 4078283 0.01194 156.78 0 24-HR New Development RP_G36 648659.3 4077241 0.03669 205.79 0 24-HR House 1 RP_H1 648071.2 4076116 0.01092 169.6 0 24-HR House 10 RP_H10 648247.4 4076278 0.017 184.55 0 24-HR House 11 RP_H11 648027.2 4076255 0.01651 169.38 <td< td=""><td>646030</td><td>4078283</td><td>0.01109</td><td>129.56</td><td>0</td><td>24-HR</td><td>New Development</td><td></td></td<> | 646030 | 4078283 | 0.01109 | 129.56 | 0 | 24-HR | New Development | |
| 646330 4078283 0.01193 142.68 0 24-HR New Development RP_G32 646430 4078283 0.01172 140.02 0 24-HR New Development RP_G33 646530 4078283 0.01146 147.22 0 24-HR New Development RP_G34 646630 4078283 0.01134 151.56 0 24-HR New Development RP_G35 646730 4078283 0.01194 156.78 0 24-HR New Development RP_G36 648659.3 4077241 0.03669 205.79 0 24-HR House 1 RP_H1 648071.2 4076116 0.01092 169.6 0 24-HR House 10 RP_H10 648247.4 4076278 0.01651 184.55 0 24-HR House 11 RP_H11 648027.2 4076255 0.01651 169.38 0 24-HR House 12 RP_H12 | 646130 | 4078283 | 0.0115 | 132.89 | 0 | 24-HR | New Development | RP_G30 |
| 646430 4078283 0.01172 140.02 0 24-HR New Development RP_G33 646530 4078283 0.01146 147.22 0 24-HR New Development RP_G34 646630 4078283 0.01134 151.56 0 24-HR New Development RP_G35 646730 4078283 0.01194 156.78 0 24-HR New Development RP_G36 648659.3 4077241 0.03669 205.79 0 24-HR House 1 RP_H1 648071.2 4076116 0.01092 169.6 0 24-HR House 10 RP_H10 648247.4 4076278 0.017 184.55 0 24-HR House 11 RP_H11 648027.2 4076255 0.01651 169.38 0 24-HR House 12 RP_H12 | 646230 | 4078283 | 0.01182 | 139.24 | 0 | 24-HR | New Development | RP_G31 |
| 646530 4078283 0.01146 147.22 0 24-HR New Development RP_G34 646630 4078283 0.01134 151.56 0 24-HR New Development RP_G35 646730 4078283 0.01194 156.78 0 24-HR New Development RP_G36 648659.3 4077241 0.03669 205.79 0 24-HR House 1 RP_H1 648071.2 4076116 0.01092 169.6 0 24-HR House 10 RP_H10 648247.4 4076278 0.017 184.55 0 24-HR House 11 RP_H11 648027.2 4076255 0.01651 169.38 0 24-HR House 12 RP_H12 | 646330 | 4078283 | 0.01193 | 142.68 | 0 | 24-HR | New Development | RP_G32 |
| 646630 4078283 0.01134 151.56 0 24-HR New Development RP_G35 646730 4078283 0.01194 156.78 0 24-HR New Development RP_G36 648659.3 4077241 0.03669 205.79 0 24-HR House 1 RP_H1 648071.2 4076116 0.01092 169.6 0 24-HR House 10 RP_H10 648247.4 4076278 0.017 184.55 0 24-HR House 11 RP_H11 648027.2 4076255 0.01651 169.38 0 24-HR House 12 RP_H12 | 646430 | 4078283 | 0.01172 | 140.02 | 0 | 24-HR | New Development | |
| 646730 4078283 0.01194 156.78 0 24-HR New Development RP_G36 648659.3 4077241 0.03669 205.79 0 24-HR House 1 RP_H1 648071.2 4076116 0.01092 169.6 0 24-HR House 10 RP_H10 648247.4 4076278 0.017 184.55 0 24-HR House 11 RP_H11 648027.2 4076255 0.01651 169.38 0 24-HR House 12 RP_H12 | 646530 | 4078283 | 0.01146 | 147.22 | 0 | 24-HR | New Development | |
| 648659.3 4077241 0.03669 205.79 0 24-HR House 1 RP_H1 648071.2 4076116 0.01092 169.6 0 24-HR House 10 RP_H10 648247.4 4076278 0.017 184.55 0 24-HR House 11 RP_H11 648027.2 4076255 0.01651 169.38 0 24-HR House 12 RP_H12 | | | | | 0 | | | |
| 648071.2 4076116 0.01092 169.6 0 24-HR House 10 RP_H10 648247.4 4076278 0.017 184.55 0 24-HR House 11 RP_H11 648027.2 4076255 0.01651 169.38 0 24-HR House 12 RP_H12 | | | | | 0 | | ` | |
| 648247.4 4076278 0.017 184.55 0 24-HR House 11 RP_H11 648027.2 4076255 0.01651 169.38 0 24-HR House 12 RP_H12 | 648659.3 | | 0.03669 | | 0 | | | RP_H1 |
| 648027.2 4076255 0.01651 169.38 0 24-HR House 12 RP_H12 | 648071.2 | | | | 0 | | | |
| - | 648247.4 | | | | 0 | | House 11 | |
| 648065.8 4076359 0.02091 173.83 0 24-HR House 13 RP_H13 | 648027.2 | | 0.01651 | 169.38 | 0 | | | |
| | 648065.8 | 4076359 | 0.02091 | 173.83 | 0 | 24-HR | House 13 | RP_H13 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2018

13:26:44

- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|-------|-------------|--------|
| 648138.7 | 4076400 | 0.0226 | 178.22 | 0 | 24-HR | House 14 | RP_H14 |
| 648254.7 | 4076411 | 0.02419 | 191.28 | 0 | 24-HR | House 15 | RP_H15 |
| 647877.8 | 4076365 | 0.01991 | 165.39 | 0 | 24-HR | House 16 | RP_H16 |
| 647520 | 4076206 | 0.01474 | 159 | 0 | 24-HR | House 17 | RP_H17 |
| 647921 | 4076247 | 0.01632 | 164 | 0 | 24-HR | House 18 | RP_H18 |
| 647708.8 | 4076352 | 0.01848 | 163.52 | 0 | 24-HR | House 19 | RP_H19 |
| 648371.7 | 4075470 | 0.00467 | 173.69 | 0 | 24-HR | House 2 | RP_H2 |
| 647703.6 | 4076251 | 0.01634 | 162.17 | 0 | 24-HR | House 20 | RP_H20 |
| 647718.8 | 4076104 | 0.01188 | 159.35 | 0 | 24-HR | House 21 | RP_H21 |
| 647843.3 | 4076125 | 0.01225 | 163 | 0 | 24-HR | House 22 | RP_H22 |
| 647842.3 | 4076500 | 0.01817 | 167.93 | 0 | 24-HR | House 23 | RP_H23 |
| 647727.8 | 4076644 | 0.01603 | 164.15 | 0 | 24-HR | House 24 | RP_H24 |
| 647823.9 | 4076644 | 0.01671 | 168.29 | 0 | 24-HR | House 25 | RP_H25 |
| 647530 | 4076497 | 0.0149 | 159.56 | 0 | 24-HR | House 26 | RP_H26 |
| 647810.1 | 4076854 | 0.02184 | 162.9 | 0 | 24-HR | House 27 | RP_H27 |
| 647697.5 | 4076989 | 0.01843 | 161.42 | 0 | 24-HR | House 28 | RP_H28 |
| 648225.5 | 4076182 | 0.01261 | 183.22 | 0 | 24-HR | House 29 | RP_H29 |
| 647678.2 | 4075969 | 0.00845 | 159.5 | 0 | 24-HR | House 3 | RP_H3 |
| 645876.3 | 4077487 | 0.00735 | 127.13 | 0 | 24-HR | House 30 | RP_H30 |
| 650902 | 4076062 | 0.01968 | 215.24 | 0 | 24-HR | House 31 | RP_H31 |
| 651490 | 4076597 | 0.02309 | 205.5 | 0 | 24-HR | House 32 | RP_H32 |
| 651565 | 4077067 | 0.01421 | 213.93 | 0 | 24-HR | House 33 | RP_H33 |
| 648672.8 | 4075307 | 0.00226 | 225.91 | 0 | 24-HR | House 34 | RP_H34 |
| 648383.6 | 4075469 | 0.00479 | 174.44 | 0 | 24-HR | House 35 | RP_H35 |
| 646379.4 | 4077233 | 0.00973 | 146 | 0 | 24-HR | House 36 | RP_H36 |
| 651849.7 | 4075865 | 0.0134 | 201.97 | 0 | 24-HR | House 37 | RP_H37 |
| 652045.5 | 4076210 | 0.01942 | 196.88 | 0 | 24-HR | House 38 | RP_H38 |
| 652255.7 | 4076391 | 0.02017 | 197.06 | 0 | 24-HR | House 39 | RP_H39 |
| 647815.3 | 4075985 | 0.00816 | 162.04 | 0 | 24-HR | House 4 | RP_H4 |
| 646853.7 | 4077373 | 0.01379 | 145.99 | 0 | 24-HR | House 40 | RP_H40 |
| 647050.2 | 4077360 | 0.01605 | 145 | 0 | 24-HR | House 41 | RP_H41 |
| 647286.4 | 4077474 | 0.02101 | 149.68 | 0 | 24-HR | House 42 | RP_H42 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2018

13:26:44

- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|-------|-------------|--------|
| 647359.1 | 4077340 | 0.02023 | 154.45 | 0 | 24-HR | House 43 | RP_H43 |
| 647490.4 | 4077329 | 0.02289 | 162.28 | 0 | 24-HR | House 44 | RP_H44 |
| 647522.2 | 4077252 | 0.02163 | 164.3 | 0 | 24-HR | House 45 | RP_H45 |
| 647517.8 | 4077139 | 0.01886 | 164.01 | 0 | 24-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.01092 | 151.53 | 0 | 24-HR | House 47 | RP_H47 |
| 646778.7 | 4077128 | 0.01194 | 158.51 | 0 | 24-HR | House 48 | RP_H48 |
| 646987.3 | 4077213 | 0.01186 | 146.44 | 0 | 24-HR | House 49 | RP_H49 |
| 647898.2 | 4076033 | 0.00912 | 163.83 | 0 | 24-HR | House 5 | RP_H5 |
| 647241.8 | 4077227 | 0.01549 | 154.85 | 0 | 24-HR | House 50 | RP_H50 |
| 646773.1 | 4077063 | 0.01218 | 159 | 0 | 24-HR | House 51 | RP_H51 |
| 647104.4 | 4077118 | 0.01306 | 148.99 | 0 | 24-HR | House 52 | RP_H52 |
| 647291.9 | 4077123 | 0.01445 | 158.62 | 0 | 24-HR | House 53 | RP_H53 |
| 646765.2 | 4076978 | 0.01187 | 158.67 | 0 | 24-HR | House 54 | RP_H54 |
| 646995.7 | 4076984 | 0.01346 | 152.34 | 0 | 24-HR | House 55 | RP_H55 |
| 647317.2 | 4077031 | 0.01549 | 160.22 | 0 | 24-HR | House 56 | RP_H56 |
| 647398.4 | 4077013 | 0.01623 | 161.26 | 0 | 24-HR | House 57 | RP_H57 |
| 646978.9 | 4076904 | 0.01318 | 156.81 | 0 | 24-HR | House 58 | RP_H58 |
| 647015.2 | 4076807 | 0.01406 | 156.21 | 0 | 24-HR | House 59 | RP_H59 |
| 648045.4 | 4076018 | 0.00712 | 168.26 | 0 | 24-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.01472 | 154.38 | 0 | 24-HR | House 60 | RP_H60 |
| 647310.6 | 4076940 | 0.01614 | 162.49 | 0 | 24-HR | House 61 | RP_H61 |
| 647298.1 | 4076805 | 0.01534 | 158 | 0 | 24-HR | House 62 | RP_H62 |
| 647446.6 | 4076900 | 0.01733 | 159.45 | 0 | 24-HR | House 63 | RP_H63 |
| 647464.5 | 4076781 | 0.01629 | 159.32 | 0 | 24-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.01361 | 159 | 0 | 24-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00703 | 179.58 | 0 | 24-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.01669 | 146.77 | 0 | 24-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.0127 | 156.07 | 0 | 24-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.01358 | 159 | 0 | 24-HR | House 69 | RP_H69 |
| 648126.3 | 4075955 | 0.00367 | 171.51 | 0 | 24-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.01405 | 159.9 | 0 | 24-HR | House 70 | RP_H70 |
| 648249.3 | 4075970 | 0.00294 | 183.42 | 0 | 24-HR | House 8 | RP_H8 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2018

13:26:44

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|----------|---------|--------------|--------|-------|-------|-------------|-------|
| 648218.6 | 4076109 | 0.009 | 182.28 | 0 | 24-HR | House 9 | RP_H9 |

09/29/21

AVE

* AERMET (19191): Future Flare (Ground Lvl) SO2 1-hr 2019

13:26:55

Description

ID

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

ZELEV

- PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

Y AVERAGE CONC

| ſ | 645996 | 4078698 | 0.05912 | 123.85 | 1-HR | AQ Monitoring Station | AQ_ST_1 | |
|---|--------|---------|---------|--------|------|------------------------------------|----------|----------|
| Γ | 643904 | 4077719 | 0.03661 | 105.68 | 1-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| | 642057 | 4079416 | 0.03468 | 85.12 | 1-HR | Dunne Park | CR_PK_1 | |
| | 642179 | 4079950 | 0.03451 | 117.99 | 1-HR | Vista Park Hill Park | CR_PK_2 | 1 |
| | 644733 | 4078753 | 0.03706 | 106.44 | 1-HR | Las Brisas Park | CR_PK_3 | |
| | 645609 | 4078854 | 0.06192 | 112.86 | 1-HR | Frank Klauer Memorial Park | CR_PK_4 | |
| | 644238 | 4078807 | 0.0325 | 95.25 | 1-HR | Veterans Memorial Park | CR_PK_5 | |
| | 645311 | 4076559 | 0.03156 | 134.61 | 1-HR | Park 6 | CR_PK_6 |] |
| | 649582 | 4073424 | 0.0359 | 159.96 | 1-HR | Park 7 | CR_PK_7 | |
| | 645145 | 4077181 | 0.04017 | 133 | 1-HR | Cerra Vista Elem School | CR_SC_1 |] |
| | 642905 | 4079955 | 0.04553 | 86 | 1-HR | San Andreas Continuation | CR_SC_10 | |
| | 645851 | 4074015 | 0.05586 | 123 | 1-HR | SouthSide School | CR_SC_11 | |
| | 642106 | 4078176 | 0.03324 | 91 | 1-HR | School 12 | CR_SC_12 | |
| | 646059 | 4078443 | 0.06332 | 128.52 | 1-HR | Rancho Santana School | CR_SC_13 | School 1 |
| | 647269 | 4075575 | 0.14609 | 158 | 1-HR | Future School | CR_SC_14 | School 2 |
| | 648466 | 4074106 | 0.06115 | 159 | 1-HR | Tres Pinos Union Elementary School | CR_SC_15 | |
| | 644110 | 4078389 | 0.03187 | 98.2 | 1-HR | Sunnyslope Elem School | CR_SC_2 | |
| | 643920 | 4077304 | 0.0314 | 101.23 | 1-HR | Hollister Montessori School | CR_SC_3 |] |
| | 642961 | 4078621 | 0.03244 | 92 | 1-HR | Rancho San Justo Middle School | CR_SC_4 | |
| | 643980 | 4079743 | 0.05888 | 88 | 1-HR | Marguerite Maze Middle School | CR_SC_5 | |
| | 641630 | 4079153 | 0.03496 | 85 | 1-HR | Hollister Prep Schoo | CR_SC_6 | |
| | 643350 | 4077181 | 0.03168 | 98.22 | 1-HR | Ladd Lane Elementary School | CR_SC_7 | |
| | 644003 | 4080079 | 0.04956 | 87 | 1-HR | Gabilan Hills Elementary School | CR_SC_8 | |
| | 642245 | 4078413 | 0.03325 | 90.17 | 1-HR | San Benito High School | CR_SC_9 | |
| | 642083 | 4079794 | 0.03398 | 87.58 | 1-HR | Jovenes De Antano | CR_SR_1 | |
| | 646402 | 4076879 | 0.04288 | 146.33 | 1-HR | Workplace | CR_WP_1 | |
| | 648949 | 4077938 | 0.24515 | 189.45 | 1-HR | Nearest Workplace | CR_WP_2 | MEIW |
| | 647744 | 4079173 | 0.09604 | 155.2 | 1-HR | Grid Receptor 1 | G1 | |
| | 647744 | 4075573 | 0.09264 | 160 | 1-HR | Grid Receptor 10 | G10 | |
| | 651344 | 4075573 | 0.20845 | 252.9 | 1-HR | Grid Receptor 100 | G100 | |
| | 648144 | 4079173 | 0.09675 | 165.9 | 1-HR | Grid Receptor 11 | G11 | |
| | 648144 | 4078773 | 0.09008 | 159.6 | 1-HR | Grid Receptor 12 | G12 | |
| | | | | | | | | |

09/29/21

* AERMET (19191): Future Flare (Ground Lvl) SO2 1-hr 2019

13:26:55

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | AVE | Description | ID |
|--------|---------|--------------|-------|------|------------------|-----|
| 648144 | 4078373 | 0.13286 | 146.2 | 1-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.16442 | 158.3 | 1-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.07942 | 166.6 | 1-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.08387 | 175.4 | 1-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.05457 | 177.1 | 1-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.10485 | 178 | 1-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.1692 | 173 | 1-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.1392 | 145.4 | 1-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.12324 | 168.8 | 1-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.16778 | 173.5 | 1-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.16846 | 166.2 | 1-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.1413 | 145.4 | 1-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.09783 | 173.9 | 1-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.16559 | 179.6 | 1-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.13828 | 191 | 1-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.11959 | 209.2 | 1-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.17094 | 233.7 | 1-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.15408 | 199.9 | 1-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.14077 | 144.4 | 1-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.09597 | 195.5 | 1-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.12369 | 190.4 | 1-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.14558 | 165.4 | 1-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.18105 | 159.6 | 1-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.23702 | 183.5 | 1-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.27239 | 224 | 1-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.10973 | 205 | 1-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.09843 | 208.8 | 1-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.07103 | 134.6 | 1-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.06975 | 185.6 | 1-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.10167 | 187.4 | 1-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.09469 | 160.9 | 1-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.12046 | 200.5 | 1-HR | Grid Receptor 43 | G43 |

09/29/21

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13:26:55

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | AVE | Description | ID |
|--------|---------|--------------|-------|------|------------------|-----|
| 649344 | 4077973 | 0.14424 | 229 | 1-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.38707 | 253.3 | 1-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.38937 | 220.2 | 1-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.25016 | 227.2 | 1-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.06465 | 163.8 | 1-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.14272 | 205.5 | 1-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.07966 | 176.1 | 1-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.08638 | 195 | 1-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.08068 | 196.1 | 1-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.08001 | 215.3 | 1-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.13752 | 221.6 | 1-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.2754 | 211.7 | 1-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.16619 | 237.7 | 1-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.07101 | 158.4 | 1-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.13405 | 204.2 | 1-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.09041 | 173 | 1-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.09096 | 171 | 1-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.07245 | 204.6 | 1-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.04709 | 216.5 | 1-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.40942 | 257.7 | 1-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.18726 | 231.4 | 1-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.28826 | 249.4 | 1-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.05403 | 164.7 | 1-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.10456 | 216.4 | 1-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.07617 | 177 | 1-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.05494 | 180.9 | 1-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.06721 | 196.6 | 1-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.1189 | 236.9 | 1-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.50354 | 261.3 | 1-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.53375 | 260.9 | 1-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.11482 | 226.7 | 1-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.069 | 164 | 1-HR | Grid Receptor 8 | G8 |

09/29/21

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13:26:55

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| | (,, (, | | -,,, | -,,, | | | |
|--------|---------|--------------|--------|------|-----------------------|-----|-----|
| X | Y | AVERAGE CONC | ZELEV | AVE | Description | ID | |
| 650544 | 4075573 | 0.54952 | 268.2 | 1-HR | Grid Receptor 80 | G80 | |
| 650944 | 4079173 | 0.04942 | 181.3 | 1-HR | Grid Receptor 81 | G81 | |
| 650944 | 4078773 | 0.07322 | 178.4 | 1-HR | Grid Receptor 82 | G82 | |
| 650944 | 4078373 | 0.12078 | 214.8 | 1-HR | Grid Receptor 83 | G83 | |
| 650944 | 4077973 | 0.20533 | 249.9 | 1-HR | Grid Receptor 84 | G84 | |
| 650944 | 4077573 | 0.59816 | 276.5 | 1-HR | Grid Receptor 85 | G85 | PMI |
| 650944 | 4077173 | 0.08658 | 225.6 | 1-HR | Grid Receptor 86 | G86 | |
| 650944 | 4076773 | 0.08489 | 219.8 | 1-HR | Grid Receptor 87 | G87 | |
| 650944 | 4076373 | 0.08556 | 209.2 | 1-HR | Grid Receptor 88 | G88 | |
| 650944 | 4075973 | 0.08837 | 216.6 | 1-HR | Grid Receptor 89 | G89 | |
| 647744 | 4075973 | 0.18903 | 160.7 | 1-HR | Grid Receptor 9 | G9 | |
| 650944 | 4075573 | 0.10476 | 243.2 | 1-HR | Grid Receptor 90 | G90 | |
| 651344 | 4079173 | 0.07936 | 191 | 1-HR | Grid Receptor 91 | G91 | |
| 651344 | 4078773 | 0.10454 | 181 | 1-HR | Grid Receptor 92 | G92 | |
| 651344 | 4078373 | 0.10267 | 214.3 | 1-HR | Grid Receptor 93 | G93 | |
| 651344 | 4077973 | 0.13937 | 248.4 | 1-HR | Grid Receptor 94 | G94 | |
| 651344 | 4077573 | 0.06527 | 213.2 | 1-HR | Grid Receptor 95 | G95 | |
| 651344 | 4077173 | 0.06927 | 213.6 | 1-HR | Grid Receptor 96 | G96 | |
| 651344 | 4076773 | 0.06555 | 203.5 | 1-HR | Grid Receptor 97 | G97 | |
| 651344 | 4076373 | 0.06761 | 205.6 | 1-HR | Grid Receptor 98 | G98 | |
| 651344 | 4075973 | 0.07506 | 205.8 | 1-HR | Grid Receptor 99 | G99 | |
| 648584 | 4077523 | 0.16373 | 183.61 | 1-HR | Boundary Perimeter 1 | P1 | |
| 649484 | 4077537 | 0.44927 | 254.01 | 1-HR | Boundary Perimeter 10 | P10 | |
| 649584 | 4077539 | 0.1119 | 235.3 | 1-HR | Boundary Perimeter 11 | P11 | |
| 649684 | 4077540 | 0.15616 | 221.29 | 1-HR | Boundary Perimeter 12 | P12 | |
| 649784 | 4077541 | 0.1107 | 222.37 | 1-HR | Boundary Perimeter 13 | P13 | |
| 649884 | 4077542 | 0.0457 | 233.6 | 1-HR | Boundary Perimeter 14 | P14 | |
| 649984 | 4077543 | 0.23279 | 249.54 | 1-HR | Boundary Perimeter 15 | P15 | |
| 650084 | 4077546 | 0.5074 | 258.89 | 1-HR | Boundary Perimeter 16 | P16 | |
| 650184 | 4077548 | 0.49043 | 259.56 | 1-HR | Boundary Perimeter 17 | P17 | |
| 650284 | 4077550 | 0.36493 | 256.77 | 1-HR | Boundary Perimeter 18 | P18 | |
| 650384 | 4077552 | 0.10911 | 242.37 | 1-HR | Boundary Perimeter 19 | P19 | |

09/29/21

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- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | AVE | Description | ID |
|--------|---------|--------------|--------|------|-----------------------|-----|
| 648684 | 4077525 | 0.1465 | 197.16 | 1-HR | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.10381 | 242.23 | 1-HR | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.44636 | 259.71 | 1-HR | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.39126 | 257.58 | 1-HR | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.56271 | 267.9 | 1-HR | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.55408 | 275.91 | 1-HR | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.5199 | 265.73 | 1-HR | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.21105 | 251.08 | 1-HR | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.25684 | 252.83 | 1-HR | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.14664 | 246.1 | 1-HR | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.09941 | 241.37 | 1-HR | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.15317 | 209.74 | 1-HR | Boundary Perimeter 3 | Р3 |
| 650791 | 4076854 | 0.14703 | 246.79 | 1-HR | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.09141 | 228.75 | 1-HR | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.08947 | 217.76 | 1-HR | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.09824 | 221.2 | 1-HR | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.10266 | 220.83 | 1-HR | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.10195 | 223.42 | 1-HR | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.108 | 222.46 | 1-HR | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.10991 | 223.19 | 1-HR | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.11037 | 222.1 | 1-HR | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.11756 | 217.03 | 1-HR | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.224 | 214.25 | 1-HR | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.11731 | 214.82 | 1-HR | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.21043 | 214.91 | 1-HR | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.24555 | 214.09 | 1-HR | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.3248 | 211.53 | 1-HR | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.30526 | 210.17 | 1-HR | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.2514 | 208.52 | 1-HR | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.30887 | 207.5 | 1-HR | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.34426 | 205.17 | 1-HR | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.19561 | 202.16 | 1-HR | Boundary Perimeter 48 | P48 |

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| X | Y | AVERAGE CONC | ZELEV | AVE | Description | ID |
|--------|---------|--------------|--------|------|-----------------------|-------|
| 649226 | 4076535 | 0.11273 | 196.38 | 1-HR | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.28153 | 221.41 | 1-HR | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.24983 | 195.87 | 1-HR | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.26989 | 196.32 | 1-HR | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.21261 | 192.42 | 1-HR | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.19057 | 192.46 | 1-HR | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.16548 | 191.63 | 1-HR | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.16138 | 186.32 | 1-HR | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.15178 | 179.81 | 1-HR | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.14838 | 176.23 | 1-HR | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.13326 | 175.02 | 1-HR | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.15872 | 180.62 | 1-HR | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.27106 | 216.54 | 1-HR | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.15948 | 183.47 | 1-HR | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.17759 | 202.88 | 1-HR | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.13641 | 178.21 | 1-HR | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.14114 | 176.25 | 1-HR | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.136 | 176 | 1-HR | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.12416 | 175.24 | 1-HR | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.15162 | 175.13 | 1-HR | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.19556 | 230.71 | 1-HR | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.25643 | 248.08 | 1-HR | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.5911 | 258.43 | 1-HR | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.03303 | 127.38 | 1-HR | New Development | RP_G1 |
| 646030 | 4077983 | 0.03413 | 131.21 | 1-HR | New Development | RP_G2 |
| 646130 | 4077983 | 0.03465 | 135.89 | 1-HR | New Development | RP_G3 |
| 646230 | 4077983 | 0.03754 | 139.18 | 1-HR | New Development | RP_G4 |
| 646330 | 4077983 | 0.04265 | 140.76 | 1-HR | New Development | RP_G5 |
| 646430 | 4077983 | 0.04736 | 143.89 | 1-HR | New Development | RP_G6 |
| 646530 | 4077983 | 0.05165 | 145.22 | 1-HR | New Development | RP_G7 |
| 646630 | 4077983 | 0.05532 | 147.21 | 1-HR | New Development | RP_G8 |
| 646730 | 4077983 | 0.05784 | 148.3 | 1-HR | New Development | RP_G9 |

09/29/21

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- * FOR A TOTAL OF 289 RECEPTORS.
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| X | Y | AVERAGE CONC | ZELEV | AVE | Description | ID |
|--------|---------|--------------|--------|------|-----------------|--------|
| 645930 | 4078083 | 0.03334 | 127.58 | 1-HR | New Development | RP_G10 |
| 646030 | 4078083 | 0.03737 | 130.56 | 1-HR | New Development | RP_G11 |
| 646130 | 4078083 | 0.04242 | 134.35 | 1-HR | New Development | RP_G12 |
| 646230 | 4078083 | 0.0476 | 139.22 | 1-HR | New Development | RP_G13 |
| 646330 | 4078083 | 0.0527 | 144.65 | 1-HR | New Development | RP_G14 |
| 646430 | 4078083 | 0.05639 | 142.28 | 1-HR | New Development | RP_G15 |
| 646530 | 4078083 | 0.05957 | 146.76 | 1-HR | New Development | RP_G16 |
| 646630 | 4078083 | 0.06149 | 150.64 | 1-HR | New Development | RP_G17 |
| 646730 | 4078083 | 0.06194 | 155.4 | 1-HR | New Development | RP_G18 |
| 645930 | 4078183 | 0.04203 | 127.22 | 1-HR | New Development | RP_G19 |
| 646030 | 4078183 | 0.04692 | 130.56 | 1-HR | New Development | RP_G20 |
| 646130 | 4078183 | 0.05167 | 133.89 | 1-HR | New Development | RP_G21 |
| 646230 | 4078183 | 0.05631 | 140.45 | 1-HR | New Development | RP_G22 |
| 646330 | 4078183 | 0.06038 | 146.94 | 1-HR | New Development | RP_G23 |
| 646430 | 4078183 | 0.06212 | 140.23 | 1-HR | New Development | RP_G24 |
| 646530 | 4078183 | 0.06348 | 147.25 | 1-HR | New Development | RP_G25 |
| 646630 | 4078183 | 0.06292 | 151.56 | 1-HR | New Development | RP_G26 |
| 646730 | 4078183 | 0.06081 | 157.78 | 1-HR | New Development | RP_G27 |
| 645930 | 4078283 | 0.05086 | 126.06 | 1-HR | New Development | RP_G28 |
| 646030 | 4078283 | 0.05516 | 129.56 | 1-HR | New Development | RP_G29 |
| 646130 | 4078283 | 0.05888 | 132.89 | 1-HR | New Development | RP_G30 |
| 646230 | 4078283 | 0.06205 | 139.24 | 1-HR | New Development | RP_G31 |
| 646330 | 4078283 | 0.06389 | 142.68 | 1-HR | New Development | RP_G32 |
| 646430 | 4078283 | 0.06375 | 140.02 | 1-HR | New Development | RP_G33 |
| 646530 | 4078283 | 0.06294 | 147.22 | 1-HR | New Development | RP_G34 |
| 646630 | 4078283 | 0.05979 | 151.56 | 1-HR | New Development | RP_G35 |
| 646730 | 4078283 | 0.0551 | 156.78 | 1-HR | New Development | RP_G36 |
| 648659 | 4077241 | 0.16911 | 205.79 | 1-HR | House 1 | RP_H1 |
| 648071 | 4076116 | 0.19581 | 169.6 | 1-HR | House 10 | RP_H10 |
| 648247 | 4076278 | 0.17009 | 184.55 | 1-HR | House 11 | RP_H11 |
| 648027 | 4076255 | 0.15045 | 169.38 | 1-HR | House 12 | RP_H12 |
| 648066 | 4076359 | 0.10367 | 173.83 | 1-HR | House 13 | RP_H13 |

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| X | Y | AVERAGE CONC | ZELEV | AVE | Description | ID |
|--------|---------|--------------|--------|------|-------------|--------|
| 648139 | 4076400 | 0.08988 | 178.22 | 1-HR | House 14 | RP_H14 |
| 648255 | 4076411 | 0.09747 | 191.28 | 1-HR | House 15 | RP_H15 |
| 647878 | 4076365 | 0.08218 | 165.39 | 1-HR | House 16 | RP_H16 |
| 647520 | 4076206 | 0.11025 | 159 | 1-HR | House 17 | RP_H17 |
| 647921 | 4076247 | 0.13974 | 164 | 1-HR | House 18 | RP_H18 |
| 647709 | 4076352 | 0.07428 | 163.52 | 1-HR | House 19 | RP_H19 |
| 648372 | 4075470 | 0.09922 | 173.69 | 1-HR | House 2 | RP_H2 |
| 647704 | 4076251 | 0.11314 | 162.17 | 1-HR | House 20 | RP_H20 |
| 647719 | 4076104 | 0.16667 | 159.35 | 1-HR | House 21 | RP_H21 |
| 647843 | 4076125 | 0.17534 | 163 | 1-HR | House 22 | RP_H22 |
| 647842 | 4076500 | 0.05415 | 167.93 | 1-HR | House 23 | RP_H23 |
| 647728 | 4076644 | 0.05165 | 164.15 | 1-HR | House 24 | RP_H24 |
| 647824 | 4076644 | 0.0528 | 168.29 | 1-HR | House 25 | RP_H25 |
| 647530 | 4076497 | 0.05038 | 159.56 | 1-HR | House 26 | RP_H26 |
| 647810 | 4076854 | 0.05736 | 162.9 | 1-HR | House 27 | RP_H27 |
| 647697 | 4076989 | 0.05506 | 161.42 | 1-HR | House 28 | RP_H28 |
| 648226 | 4076182 | 0.19945 | 183.22 | 1-HR | House 29 | RP_H29 |
| 647678 | 4075969 | 0.18598 | 159.5 | 1-HR | House 3 | RP_H3 |
| 645876 | 4077487 | 0.04361 | 127.13 | 1-HR | House 30 | RP_H30 |
| 650902 | 4076062 | 0.09083 | 215.24 | 1-HR | House 31 | RP_H31 |
| 651490 | 4076597 | 0.06312 | 205.5 | 1-HR | House 32 | RP_H32 |
| 651565 | 4077067 | 0.05926 | 213.93 | 1-HR | House 33 | RP_H33 |
| 648673 | 4075307 | 0.11216 | 225.91 | 1-HR | House 34 | RP_H34 |
| 648384 | 4075469 | 0.09757 | 174.44 | 1-HR | House 35 | RP_H35 |
| 646379 | 4077233 | 0.05174 | 146 | 1-HR | House 36 | RP_H36 |
| 651850 | 4075865 | 0.06848 | 201.97 | 1-HR | House 37 | RP_H37 |
| 652045 | 4076210 | 0.05979 | 196.88 | 1-HR | House 38 | RP_H38 |
| 652256 | 4076391 | 0.06896 | 197.06 | 1-HR | House 39 | RP_H39 |
| 647815 | 4075985 | 0.19134 | 162.04 | 1-HR | House 4 | RP_H4 |
| 646854 | 4077373 | 0.04322 | 145.99 | 1-HR | House 40 | RP_H40 |
| 647050 | 4077360 | 0.04367 | 145 | 1-HR | House 41 | RP_H41 |
| 647286 | 4077474 | 0.05308 | 149.68 | 1-HR | House 42 | RP_H42 |

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- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | AVE | Description | ID |
|--------|---------|--------------|--------|------|-------------|--------|
| 647359 | 4077340 | 0.05395 | 154.45 | 1-HR | House 43 | RP_H43 |
| 647490 | 4077329 | 0.05793 | 162.28 | 1-HR | House 44 | RP_H44 |
| 647522 | 4077252 | 0.0611 | 164.3 | 1-HR | House 45 | RP_H45 |
| 647518 | 4077139 | 0.05361 | 164.01 | 1-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.05002 | 151.53 | 1-HR | House 47 | RP_H47 |
| 646779 | 4077128 | 0.05556 | 158.51 | 1-HR | House 48 | RP_H48 |
| 646987 | 4077213 | 0.05041 | 146.44 | 1-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.19359 | 163.83 | 1-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.0495 | 154.85 | 1-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.05585 | 159 | 1-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.05437 | 148.99 | 1-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.05318 | 158.62 | 1-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.05393 | 158.67 | 1-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.05583 | 152.34 | 1-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.05743 | 160.22 | 1-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.05763 | 161.26 | 1-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.05321 | 156.81 | 1-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.04742 | 156.21 | 1-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.1917 | 168.26 | 1-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.04897 | 154.38 | 1-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.05832 | 162.49 | 1-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.05133 | 158 | 1-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.05782 | 159.45 | 1-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.05158 | 159.32 | 1-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.05063 | 159 | 1-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.09373 | 179.58 | 1-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.04504 | 146.77 | 1-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.04027 | 156.07 | 1-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.0456 | 159 | 1-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.16524 | 171.51 | 1-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.0471 | 159.9 | 1-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.14973 | 183.42 | 1-HR | House 8 | RP_H8 |

09/29/21

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- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | AVE | Description | ID | |
|--------|---------|--------------|--------|------|-------------|-------|------|
| 648219 | 4076109 | 0.20031 | 182.28 | 1-HR | House 9 | RP_H9 | MEIR |

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13:26:55

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| | ID | Description | AVE | ZFLAG | ZELEV | AVERAGE CONC | Y | X |
|----------|----------|------------------------------------|--------|-------|--------|--------------|---------|--------|
| | AQ_ST_1 | AQ Monitoring Station | ANNUAL | 0 | 123.85 | 0.00095 | 4078698 | 645996 |
| 1 | CR_HP_1 | Hazel Hawkins Memorial Hospital | ANNUAL | 0 | 105.68 | 0.00017 | 4077719 | 643904 |
| | CR_PK_1 | Dunne Park | ANNUAL | 0 | 85.12 | 0.00029 | 4079416 | 642057 |
| 1 | CR_PK_2 | Vista Park Hill Park | ANNUAL | 0 | 117.99 | 0.00041 | 4079950 | 642179 |
| | CR_PK_3 | Las Brisas Park | ANNUAL | 0 | 106.44 | 0.00051 | 4078753 | 644733 |
| 1 | CR_PK_4 | Frank Klauer Memorial Park | ANNUAL | 0 | 112.86 | 0.00084 | 4078854 | 645609 |
| | CR_PK_5 | Veterans Memorial Park | ANNUAL | 0 | 95.25 | 0.00043 | 4078807 | 644238 |
| 1 | CR_PK_6 | Park 6 | ANNUAL | 0 | 134.61 | 0.00011 | 4076559 | 645311 |
| | CR_PK_7 | Park 7 | ANNUAL | 0 | 159.96 | 0.00055 | 4073424 | 649582 |
| | CR_SC_1 | Cerra Vista Elem School | ANNUAL | 0 | 133 | 0.00015 | 4077181 | 645145 |
| | CR_SC_10 | San Andreas Continuation | ANNUAL | 0 | 86 | 0.0005 | 4079955 | 642905 |
| | CR_SC_11 | SouthSide School | ANNUAL | 0 | 123 | 0.00009 | 4074015 | 645851 |
| | CR_SC_12 | School 12 | ANNUAL | 0 | 91 | 0.00016 | 4078176 | 642106 |
| School 1 | CR_SC_13 | Rancho Santana School | ANNUAL | 0 | 128.52 | 0.00081 | 4078443 | 646059 |
| School 2 | CR_SC_14 | Future School | ANNUAL | 0 | 158 | 0.00015 | 4075575 | 647269 |
| | CR_SC_15 | Tres Pinos Union Elementary School | ANNUAL | 0 | 159 | 0.0002 | 4074106 | 648466 |
| | CR_SC_2 | Sunnyslope Elem School | ANNUAL | 0 | 98.2 | 0.0003 | 4078389 | 644110 |
| | CR_SC_3 | Hollister Montessori School | ANNUAL | 0 | 101.23 | 0.00013 | 4077304 | 643920 |
| | CR_SC_4 | Rancho San Justo Middle School | ANNUAL | 0 | 92 | 0.00025 | 4078621 | 642961 |
| | CR_SC_5 | Marguerite Maze Middle School | ANNUAL | 0 | 88 | 0.00064 | 4079743 | 643980 |
| | CR_SC_6 | Hollister Prep Schoo | ANNUAL | 0 | 85 | 0.00024 | 4079153 | 641630 |
| | CR_SC_7 | Ladd Lane Elementary School | ANNUAL | 0 | 98.22 | 0.00012 | 4077181 | 643350 |
| | CR_SC_8 | Gabilan Hills Elementary School | ANNUAL | 0 | 87 | 0.00074 | 4080079 | 644003 |
| | CR_SC_9 | San Benito High School | ANNUAL | 0 | 90.17 | 0.00019 | 4078413 | 642245 |
| | CR_SR_1 | Jovenes De Antano | ANNUAL | 0 | 87.58 | 0.00036 | 4079794 | 642083 |
| | CR_WP_1 | Workplace | ANNUAL | 0 | 146.33 | 0.00015 | 4076879 | 646402 |
| MEIW | CR_WP_2 | Nearest Workplace | ANNUAL | 0 | 189.45 | 0.00108 | 4077938 | 648949 |
| 1 | G1 | Grid Receptor 1 | ANNUAL | 0 | 155.2 | 0.00174 | 4079173 | 647744 |
| | G10 | Grid Receptor 10 | ANNUAL | 0 | 160 | 0.00016 | 4075573 | 647744 |
| | G100 | Grid Receptor 100 | ANNUAL | 0 | 252.9 | 0.00414 | 4075573 | 651344 |
| | G11 | Grid Receptor 11 | ANNUAL | 0 | 165.9 | 0.00129 | 4079173 | 648144 |
| 1 | G12 | Grid Receptor 12 | ANNUAL | 0 | 159.6 | 0.00181 | 4078773 | 648144 |

09/29/21

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PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|--------|------------------|-----|
| 648144 | 4078373 | 0.00242 | 146.2 | 0 | ANNUAL | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.003 | 158.3 | 0 | ANNUAL | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.00275 | 166.6 | 0 | ANNUAL | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.0012 | 175.4 | 0 | ANNUAL | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.00035 | 177.1 | 0 | ANNUAL | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.00026 | 178 | 0 | ANNUAL | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.00023 | 173 | 0 | ANNUAL | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.00211 | 145.4 | 0 | ANNUAL | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.00017 | 168.8 | 0 | ANNUAL | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.0007 | 173.5 | 0 | ANNUAL | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.00101 | 166.2 | 0 | ANNUAL | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.00161 | 145.4 | 0 | ANNUAL | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.00293 | 173.9 | 0 | ANNUAL | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.00447 | 179.6 | 0 | ANNUAL | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.00387 | 191 | 0 | ANNUAL | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.0008 | 209.2 | 0 | ANNUAL | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.00055 | 233.7 | 0 | ANNUAL | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.0003 | 199.9 | 0 | ANNUAL | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.00237 | 144.4 | 0 | ANNUAL | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.00022 | 195.5 | 0 | ANNUAL | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.00038 | 190.4 | 0 | ANNUAL | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.00044 | 165.4 | 0 | ANNUAL | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.00059 | 159.6 | 0 | ANNUAL | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.00101 | 183.5 | 0 | ANNUAL | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.00267 | 224 | 0 | ANNUAL | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.00083 | 205 | 0 | ANNUAL | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.00049 | 208.8 | 0 | ANNUAL | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.0022 | 134.6 | 0 | ANNUAL | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00033 | 185.6 | 0 | ANNUAL | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00025 | 187.4 | 0 | ANNUAL | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.00026 | 160.9 | 0 | ANNUAL | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.00032 | 200.5 | 0 | ANNUAL | Grid Receptor 43 | G43 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|--------|------------------|-----|
| 649344 | 4077973 | 0.00044 | 229 | 0 | ANNUAL | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.00186 | 253.3 | 0 | ANNUAL | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.00863 | 220.2 | 0 | ANNUAL | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.00157 | 227.2 | 0 | ANNUAL | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.00146 | 163.8 | 0 | ANNUAL | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.0007 | 205.5 | 0 | ANNUAL | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.00019 | 176.1 | 0 | ANNUAL | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00021 | 195 | 0 | ANNUAL | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00023 | 196.1 | 0 | ANNUAL | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.00029 | 215.3 | 0 | ANNUAL | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.00036 | 221.6 | 0 | ANNUAL | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.01667 | 211.7 | 0 | ANNUAL | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.01049 | 237.7 | 0 | ANNUAL | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.00057 | 158.4 | 0 | ANNUAL | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.00257 | 204.2 | 0 | ANNUAL | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.00018 | 173 | 0 | ANNUAL | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.00019 | 171 | 0 | ANNUAL | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00021 | 204.6 | 0 | ANNUAL | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.00022 | 216.5 | 0 | ANNUAL | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.00092 | 257.7 | 0 | ANNUAL | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.00559 | 231.4 | 0 | ANNUAL | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.01129 | 249.4 | 0 | ANNUAL | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.00024 | 164.7 | 0 | ANNUAL | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.00484 | 216.4 | 0 | ANNUAL | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00016 | 177 | 0 | ANNUAL | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00016 | 180.9 | 0 | ANNUAL | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00017 | 196.6 | 0 | ANNUAL | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.00028 | 236.9 | 0 | ANNUAL | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.0011 | 261.3 | 0 | ANNUAL | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.00643 | 260.9 | 0 | ANNUAL | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.00492 | 226.7 | 0 | ANNUAL | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.00019 | 164 | 0 | ANNUAL | Grid Receptor 8 | G8 |

* AERMET (19191): Future Flare (Grnd Lvl) SO2 1-yr 2019

13:26:55

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------------|-----|
| 650544 | 4075573 | 0.00948 | 268.2 | 0 | ANNUAL | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.00014 | 181.3 | 0 | ANNUAL | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00014 | 178.4 | 0 | ANNUAL | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00017 | 214.8 | 0 | ANNUAL | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.00055 | 249.9 | 0 | ANNUAL | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.00125 | 276.5 | 0 | ANNUAL | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.00069 | 225.6 | 0 | ANNUAL | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.00122 | 219.8 | 0 | ANNUAL | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.00209 | 209.2 | 0 | ANNUAL | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.0032 | 216.6 | 0 | ANNUAL | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.00019 | 160.7 | 0 | ANNUAL | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.00454 | 243.2 | 0 | ANNUAL | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00013 | 191 | 0 | ANNUAL | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00014 | 181 | 0 | ANNUAL | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.00019 | 214.3 | 0 | ANNUAL | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.0005 | 248.4 | 0 | ANNUAL | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.00044 | 213.2 | 0 | ANNUAL | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.00074 | 213.6 | 0 | ANNUAL | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.00107 | 203.5 | 0 | ANNUAL | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.00163 | 205.6 | 0 | ANNUAL | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.00232 | 205.8 | 0 | ANNUAL | Grid Receptor 99 | G99 |
| 648584 | 4077523 | 0.00478 | 183.61 | 0 | ANNUAL | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 0.00154 | 254.01 | 0 | ANNUAL | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.00054 | 235.3 | 0 | ANNUAL | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.00039 | 221.29 | 0 | ANNUAL | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00034 | 222.37 | 0 | ANNUAL | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.00036 | 233.6 | 0 | ANNUAL | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.00065 | 249.54 | 0 | ANNUAL | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 0.00096 | 258.89 | 0 | ANNUAL | Boundary Perimeter 16 | P16 |
| 650184 | 4077548 | 0.0011 | 259.56 | 0 | ANNUAL | Boundary Perimeter 17 | P17 |
| 650284 | 4077550 | 0.00101 | 256.77 | 0 | ANNUAL | Boundary Perimeter 18 | P18 |
| 650384 | 4077552 | 0.0005 | 242.37 | 0 | ANNUAL | Boundary Perimeter 19 | P19 |

09/29/21

* AERMET (19191): Future Flare (Grnd Lvl) SO2 1-yr 2019

13:26:55

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------------|-----|
| 648684 | 4077525 | 0.00522 | 197.16 | 0 | ANNUAL | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.0005 | 242.23 | 0 | ANNUAL | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.00103 | 259.71 | 0 | ANNUAL | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.00094 | 257.58 | 0 | ANNUAL | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.00122 | 267.9 | 0 | ANNUAL | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.00142 | 275.91 | 0 | ANNUAL | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.00155 | 265.73 | 0 | ANNUAL | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.00111 | 251.08 | 0 | ANNUAL | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.00136 | 252.83 | 0 | ANNUAL | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.00126 | 246.1 | 0 | ANNUAL | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.00129 | 241.37 | 0 | ANNUAL | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.0053 | 209.74 | 0 | ANNUAL | Boundary Perimeter 3 | Р3 |
| 650791 | 4076854 | 0.00179 | 246.79 | 0 | ANNUAL | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.00138 | 228.75 | 0 | ANNUAL | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.00143 | 217.76 | 0 | ANNUAL | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.00157 | 221.2 | 0 | ANNUAL | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.00164 | 220.83 | 0 | ANNUAL | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.00168 | 223.42 | 0 | ANNUAL | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.00168 | 222.46 | 0 | ANNUAL | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.00176 | 223.19 | 0 | ANNUAL | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.00188 | 222.1 | 0 | ANNUAL | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.00206 | 217.03 | 0 | ANNUAL | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.00405 | 214.25 | 0 | ANNUAL | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.00253 | 214.82 | 0 | ANNUAL | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.00402 | 214.91 | 0 | ANNUAL | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.00699 | 214.09 | 0 | ANNUAL | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.01263 | 211.53 | 0 | ANNUAL | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.02105 | 210.17 | 0 | ANNUAL | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.02959 | 208.52 | 0 | ANNUAL | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.03376 | 207.5 | 0 | ANNUAL | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.02209 | 205.17 | 0 | ANNUAL | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.00228 | 202.16 | 0 | ANNUAL | Boundary Perimeter 48 | P48 |

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09/29/21

* AERMET (19191): Future Flare (Grnd Lvl) SO2 1-yr 2019

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- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------------|--------|
| 649226 | 4076535 | 0.0008 | 196.38 | 0 | ANNUAL | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.00242 | 221.41 | 0 | ANNUAL | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.00278 | 195.87 | 0 | ANNUAL | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.00347 | 196.32 | 0 | ANNUAL | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.00357 | 192.42 | 0 | ANNUAL | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.00388 | 192.46 | 0 | ANNUAL | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.00427 | 191.63 | 0 | ANNUAL | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.00416 | 186.32 | 0 | ANNUAL | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.00336 | 179.81 | 0 | ANNUAL | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.00273 | 176.23 | 0 | ANNUAL | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.00323 | 175.02 | 0 | ANNUAL | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.00505 | 180.62 | 0 | ANNUAL | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.00136 | 216.54 | 0 | ANNUAL | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.00657 | 183.47 | 0 | ANNUAL | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.00747 | 202.88 | 0 | ANNUAL | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.00577 | 178.21 | 0 | ANNUAL | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.00555 | 176.25 | 0 | ANNUAL | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.00491 | 176 | 0 | ANNUAL | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.00444 | 175.24 | 0 | ANNUAL | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.00485 | 175.13 | 0 | ANNUAL | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.00091 | 230.71 | 0 | ANNUAL | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.00158 | 248.08 | 0 | ANNUAL | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.00223 | 258.43 | 0 | ANNUAL | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.00047 | 127.38 | 0 | ANNUAL | New Development | RP_G1 |
| 645930 | 4078083 | 0.00053 | 127.58 | 0 | ANNUAL | New Development | RP_G10 |
| 646030 | 4078083 | 0.00056 | 130.56 | 0 | ANNUAL | New Development | RP_G11 |
| 646130 | 4078083 | 0.0006 | 134.35 | 0 | ANNUAL | New Development | RP_G12 |
| 646230 | 4078083 | 0.00065 | 139.22 | 0 | ANNUAL | New Development | RP_G13 |
| 646330 | 4078083 | 0.00069 | 144.65 | 0 | ANNUAL | New Development | RP_G14 |
| 646430 | 4078083 | 0.00074 | 142.28 | 0 | ANNUAL | New Development | RP_G15 |
| 646530 | 4078083 | 0.0008 | 146.76 | 0 | ANNUAL | New Development | RP_G16 |
| 646630 | 4078083 | 0.00087 | 150.64 | 0 | ANNUAL | New Development | RP_G17 |

09/29/21

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------|--------|
| 646730 | 4078083 | 0.00095 | 155.4 | 0 | ANNUAL | New Development | RP G18 |
| 645930 | 4078183 | 0.00059 | 127.22 | 0 | ANNUAL | New Development | RP G19 |
| 646030 | 4077983 | 0.0005 | 131.21 | 0 | ANNUAL | New Development | RP G2 |
| 646030 | 4078183 | 0.00063 | 130.56 | 0 | ANNUAL | New Development | RP G20 |
| 646130 | 4078183 | 0.00067 | 133.89 | 0 | ANNUAL | New Development | RP G21 |
| 646230 | 4078183 | 0.00072 | 140.45 | 0 | ANNUAL | New Development | RP G22 |
| 646330 | 4078183 | 0.00077 | 146.94 | 0 | ANNUAL | New Development | RP G23 |
| 646430 | 4078183 | 0.00082 | 140.23 | 0 | ANNUAL | New Development | RP G24 |
| 646530 | 4078183 | 0.00089 | 147.25 | 0 | ANNUAL | New Development | RP G25 |
| 646630 | 4078183 | 0.00097 | 151.56 | 0 | ANNUAL | New Development | RP G26 |
| 646730 | 4078183 | 0.00106 | 157.78 | 0 | ANNUAL | New Development | RP G27 |
| 645930 | 4078283 | 0.00065 | 126.06 | 0 | ANNUAL | New Development | RP G28 |
| 646030 | 4078283 | 0.00069 | 129.56 | 0 | ANNUAL | New Development | RP G29 |
| 646130 | 4077983 | 0.00053 | 135.89 | 0 | ANNUAL | New Development | RP G3 |
| 646130 | 4078283 | 0.00074 | 132.89 | 0 | ANNUAL | New Development | RP_G30 |
| 646230 | 4078283 | 0.00079 | 139.24 | 0 | ANNUAL | New Development | RP_G31 |
| 646330 | 4078283 | 0.00085 | 142.68 | 0 | ANNUAL | New Development | RP_G32 |
| 646430 | 4078283 | 0.00091 | 140.02 | 0 | ANNUAL | New Development | RP_G33 |
| 646530 | 4078283 | 0.00099 | 147.22 | 0 | ANNUAL | New Development | RP_G34 |
| 646630 | 4078283 | 0.00107 | 151.56 | 0 | ANNUAL | New Development | RP_G35 |
| 646730 | 4078283 | 0.00117 | 156.78 | 0 | ANNUAL | New Development | RP_G36 |
| 646230 | 4077983 | 0.00057 | 139.18 | 0 | ANNUAL | New Development | RP_G4 |
| 646330 | 4077983 | 0.00062 | 140.76 | 0 | ANNUAL | New Development | RP_G5 |
| 646430 | 4077983 | 0.00066 | 143.89 | 0 | ANNUAL | New Development | RP_G6 |
| 646530 | 4077983 | 0.00072 | 145.22 | 0 | ANNUAL | New Development | RP_G7 |
| 646630 | 4077983 | 0.00077 | 147.21 | 0 | ANNUAL | New Development | RP_G8 |
| 646730 | 4077983 | 0.00084 | 148.3 | 0 | ANNUAL | New Development | RP_G9 |
| 648659 | 4077241 | 0.00628 | 205.79 | 0 | ANNUAL | House 1 | RP_H1 |
| 648071 | 4076116 | 0.00024 | 169.6 | 0 | ANNUAL | House 10 | RP_H10 |
| 648247 | 4076278 | 0.00029 | 184.55 | 0 | ANNUAL | House 11 | RP_H11 |
| 648027 | 4076255 | 0.00023 | 169.38 | 0 | ANNUAL | House 12 | RP_H12 |
| 648066 | 4076359 | 0.00024 | 173.83 | 0 | ANNUAL | House 13 | RP_H13 |

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09/29/21

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|--------|
| 648139 | 4076400 | 0.00026 | 178.22 | 0 | ANNUAL | House 14 | RP_H14 |
| 648255 | 4076411 | 0.0003 | 191.28 | 0 | ANNUAL | House 15 | RP_H15 |
| 647878 | 4076365 | 0.00021 | 165.39 | 0 | ANNUAL | House 16 | RP_H16 |
| 647520 | 4076206 | 0.00017 | 159 | 0 | ANNUAL | House 17 | RP_H17 |
| 647921 | 4076247 | 0.00022 | 164 | 0 | ANNUAL | House 18 | RP_H18 |
| 647709 | 4076352 | 0.00019 | 163.52 | 0 | ANNUAL | House 19 | RP_H19 |
| 648372 | 4075470 | 0.00018 | 173.69 | 0 | ANNUAL | House 2 | RP_H2 |
| 647704 | 4076251 | 0.00019 | 162.17 | 0 | ANNUAL | House 20 | RP_H20 |
| 647719 | 4076104 | 0.00019 | 159.35 | 0 | ANNUAL | House 21 | RP_H21 |
| 647843 | 4076125 | 0.00021 | 163 | 0 | ANNUAL | House 22 | RP_H22 |
| 647842 | 4076500 | 0.00021 | 167.93 | 0 | ANNUAL | House 23 | RP_H23 |
| 647728 | 4076644 | 0.0002 | 164.15 | 0 | ANNUAL | House 24 | RP_H24 |
| 647824 | 4076644 | 0.00022 | 168.29 | 0 | ANNUAL | House 25 | RP_H25 |
| 647530 | 4076497 | 0.00017 | 159.56 | 0 | ANNUAL | House 26 | RP_H26 |
| 647810 | 4076854 | 0.00029 | 162.9 | 0 | ANNUAL | House 27 | RP_H27 |
| 647697 | 4076989 | 0.00034 | 161.42 | 0 | ANNUAL | House 28 | RP_H28 |
| 648226 | 4076182 | 0.00027 | 183.22 | 0 | ANNUAL | House 29 | RP_H29 |
| 647678 | 4075969 | 0.00019 | 159.5 | 0 | ANNUAL | House 3 | RP_H3 |
| 645876 | 4077487 | 0.00025 | 127.13 | 0 | ANNUAL | House 30 | RP_H30 |
| 650902 | 4076062 | 0.00309 | 215.24 | 0 | ANNUAL | House 31 | RP_H31 |
| 651490 | 4076597 | 0.00124 | 205.5 | 0 | ANNUAL | House 32 | RP_H32 |
| 651565 | 4077067 | 0.00085 | 213.93 | 0 | ANNUAL | House 33 | RP_H33 |
| 648673 | 4075307 | 0.00028 | 225.91 | 0 | ANNUAL | House 34 | RP_H34 |
| 648384 | 4075469 | 0.00018 | 174.44 | 0 | ANNUAL | House 35 | RP_H35 |
| 646379 | 4077233 | 0.00023 | 146 | 0 | ANNUAL | House 36 | RP_H36 |
| 651850 | 4075865 | 0.00186 | 201.97 | 0 | ANNUAL | House 37 | RP_H37 |
| 652045 | 4076210 | 0.00137 | 196.88 | 0 | ANNUAL | House 38 | RP_H38 |
| 652256 | 4076391 | 0.00114 | 197.06 | 0 | ANNUAL | House 39 | RP_H39 |
| 647815 | 4075985 | 0.0002 | 162.04 | 0 | ANNUAL | House 4 | RP_H4 |
| 646854 | 4077373 | 0.00036 | 145.99 | 0 | ANNUAL | House 40 | RP_H40 |
| 647050 | 4077360 | 0.00041 | 145 | 0 | ANNUAL | House 41 | RP_H41 |
| 647286 | 4077474 | 0.00065 | 149.68 | 0 | ANNUAL | House 42 | RP_H42 |

09/29/21

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|--------|
| 647359 | 4077340 | 0.00053 | 154.45 | 0 | ANNUAL | House 43 | RP_H43 |
| 647490 | 4077329 | 0.00061 | 162.28 | 0 | ANNUAL | House 44 | RP_H44 |
| 647522 | 4077252 | 0.00053 | 164.3 | 0 | ANNUAL | House 45 | RP_H45 |
| 647518 | 4077139 | 0.0004 | 164.01 | 0 | ANNUAL | House 46 | RP_H46 |
| 646819 | 4077258 | 0.00029 | 151.53 | 0 | ANNUAL | House 47 | RP_H47 |
| 646779 | 4077128 | 0.00024 | 158.51 | 0 | ANNUAL | House 48 | RP_H48 |
| 646987 | 4077213 | 0.0003 | 146.44 | 0 | ANNUAL | House 49 | RP_H49 |
| 647898 | 4076033 | 0.00021 | 163.83 | 0 | ANNUAL | House 5 | RP_H5 |
| 647242 | 4077227 | 0.00037 | 154.85 | 0 | ANNUAL | House 50 | RP_H50 |
| 646773 | 4077063 | 0.00022 | 159 | 0 | ANNUAL | House 51 | RP_H51 |
| 647104 | 4077118 | 0.00027 | 148.99 | 0 | ANNUAL | House 52 | RP_H52 |
| 647292 | 4077123 | 0.00032 | 158.62 | 0 | ANNUAL | House 53 | RP_H53 |
| 646765 | 4076978 | 0.00019 | 158.67 | 0 | ANNUAL | House 54 | RP_H54 |
| 646996 | 4076984 | 0.00021 | 152.34 | 0 | ANNUAL | House 55 | RP_H55 |
| 647317 | 4077031 | 0.00027 | 160.22 | 0 | ANNUAL | House 56 | RP_H56 |
| 647398 | 4077013 | 0.00028 | 161.26 | 0 | ANNUAL | House 57 | RP_H57 |
| 646979 | 4076904 | 0.00019 | 156.81 | 0 | ANNUAL | House 58 | RP_H58 |
| 647015 | 4076807 | 0.00017 | 156.21 | 0 | ANNUAL | House 59 | RP_H59 |
| 648045 | 4076018 | 0.00022 | 168.26 | 0 | ANNUAL | House 6 | RP_H6 |
| 647164 | 4076802 | 0.00018 | 154.38 | 0 | ANNUAL | House 60 | RP_H60 |
| 647311 | 4076940 | 0.00023 | 162.49 | 0 | ANNUAL | House 61 | RP_H61 |
| 647298 | 4076805 | 0.00019 | 158 | 0 | ANNUAL | House 62 | RP_H62 |
| 647447 | 4076900 | 0.00024 | 159.45 | 0 | ANNUAL | House 63 | RP_H63 |
| 647464 | 4076781 | 0.0002 | 159.32 | 0 | ANNUAL | House 64 | RP_H64 |
| 647512 | 4076536 | 0.00017 | 159 | 0 | ANNUAL | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00014 | 179.58 | 0 | ANNUAL | House 66 | RP_H66 |
| 647131 | 4077336 | 0.00042 | 146.77 | 0 | ANNUAL | House 67 | RP_H67 |
| 646798 | 4076740 | 0.00015 | 156.07 | 0 | ANNUAL | House 68 | RP_H68 |
| 646900 | 4076802 | 0.00016 | 159 | 0 | ANNUAL | House 69 | RP_H69 |
| 648126 | 4075955 | 0.00022 | 171.51 | 0 | ANNUAL | House 7 | RP_H7 |
| 647317 | 4076662 | 0.00017 | 159.9 | 0 | ANNUAL | House 70 | RP_H70 |
| 648249 | 4075970 | 0.00024 | 183.42 | 0 | ANNUAL | House 8 | RP_H8 |

09/29/21

* AERMET (19191): Future Flare (Grnd Lvl) SO2 1-yr 2019

13:26:55

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|-------|
| 648219 | 4076109 | 0.00026 | 182.28 | 0 | ANNUAL | House 9 | RP_H9 |

09/30/21

* AERMET (19191): Future Flare (Ground Lvl) SO2 3-hr 2019

08:26:49

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.02832 | 123.85 | 0 | 3-HR | AQ Monitoring Station | AQ_ST_1 | |
| 643904 | 4077719 | 0.01235 | 105.68 | 0 | 3-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642057 | 4079416 | 0.01402 | 85.12 | 0 | 3-HR | Dunne Park | CR_PK_1 | |
| 642179 | 4079950 | 0.02191 | 117.99 | 0 | 3-HR | Vista Park Hill Park | CR_PK_2 | |
| 644733 | 4078753 | 0.02233 | 106.44 | 0 | 3-HR | Las Brisas Park | CR_PK_3 | |
| 645609 | 4078854 | 0.02458 | 112.86 | 0 | 3-HR | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238 | 4078807 | 0.02163 | 95.25 | 0 | 3-HR | Veterans Memorial Park | CR_PK_5 | |
| 645311 | 4076559 | 0.01288 | 134.61 | 0 | 3-HR | Park 6 | CR_PK_6 | |
| 649582 | 4073424 | 0.02974 | 159.96 | 0 | 3-HR | Park 7 | CR_PK_7 | |
| 645145 | 4077181 | 0.01358 | 133 | 0 | 3-HR | Cerra Vista Elem School | CR_SC_1 | |
| 642905 | 4079955 | 0.02308 | 86 | 0 | 3-HR | San Andreas Continuation | CR_SC_10 | |
| 645851 | 4074015 | 0.01884 | 123 | 0 | 3-HR | SouthSide School | CR_SC_11 | |
| 642106 | 4078176 | 0.01127 | 91 | 0 | 3-HR | School 12 | CR_SC_12 | |
| 646059 | 4078443 | 0.02799 | 128.52 | 0 | 3-HR | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.04877 | 158 | 0 | 3-HR | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.02282 | 159 | 0 | 3-HR | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644110 | 4078389 | 0.01795 | 98.2 | 0 | 3-HR | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.01061 | 101.23 | 0 | 3-HR | Hollister Montessori School | CR_SC_3 | |
| 642961 | 4078621 | 0.0138 | 92 | 0 | 3-HR | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.02404 | 88 | 0 | 3-HR | Marguerite Maze Middle School | CR_SC_5 | |
| 641630 | 4079153 | 0.01212 | 85 | 0 | 3-HR | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.01062 | 98.22 | 0 | 3-HR | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.02073 | 87 | 0 | 3-HR | Gabilan Hills Elementary School | CR_SC_8 | |
| 642245 | 4078413 | 0.01109 | 90.17 | 0 | 3-HR | San Benito High School | CR_SC_9 | |
| 642083 | 4079794 | 0.0192 | 87.58 | 0 | 3-HR | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.01473 | 146.33 | 0 | 3-HR | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 0.08764 | 189.45 | 0 | 3-HR | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 0.0498 | 155.2 | 0 | 3-HR | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.03132 | 160 | 0 | 3-HR | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.08872 | 252.9 | 0 | 3-HR | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.04538 | 165.9 | 0 | 3-HR | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.05109 | 159.6 | 0 | 3-HR | Grid Receptor 12 | G12 | |
| | | | | | | | | |

09/30/21

* AERMET (19191): Future Flare (Ground Lvl) SO2 3-hr 2019

08:26:49

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 648144 | 4078373 | 0.04877 | 146.2 | 0 | 3-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.06479 | 158.3 | 0 | 3-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.06985 | 166.6 | 0 | 3-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.06745 | 175.4 | 0 | 3-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.02254 | 177.1 | 0 | 3-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.03506 | 178 | 0 | 3-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.0565 | 173 | 0 | 3-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.05158 | 145.4 | 0 | 3-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.04158 | 168.8 | 0 | 3-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.06162 | 173.5 | 0 | 3-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.06546 | 166.2 | 0 | 3-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.06008 | 145.4 | 0 | 3-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.07411 | 173.9 | 0 | 3-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.08493 | 179.6 | 0 | 3-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.11219 | 191 | 0 | 3-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.07287 | 209.2 | 0 | 3-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.05715 | 233.7 | 0 | 3-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.05211 | 199.9 | 0 | 3-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.05598 | 144.4 | 0 | 3-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.0326 | 195.5 | 0 | 3-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.04191 | 190.4 | 0 | 3-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.04969 | 165.4 | 0 | 3-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.06272 | 159.6 | 0 | 3-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.08461 | 183.5 | 0 | 3-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.15228 | 224 | 0 | 3-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.05999 | 205 | 0 | 3-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.0397 | 208.8 | 0 | 3-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.0477 | 134.6 | 0 | 3-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.04085 | 185.6 | 0 | 3-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.03608 | 187.4 | 0 | 3-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.0319 | 160.9 | 0 | 3-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.04058 | 200.5 | 0 | 3-HR | Grid Receptor 43 | G43 |

09/30/21

* AERMET (19191): Future Flare (Ground Lvl) SO2 3-hr 2019

08:26:49

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 649344 | 4077973 | 0.04856 | 229 | 0 | 3-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.13191 | 253.3 | 0 | 3-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.28261 | 220.2 | 0 | 3-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.16373 | 227.2 | 0 | 3-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.05377 | 163.8 | 0 | 3-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.1108 | 205.5 | 0 | 3-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.027 | 176.1 | 0 | 3-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.02931 | 195 | 0 | 3-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.0275 | 196.1 | 0 | 3-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.02672 | 215.3 | 0 | 3-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.0459 | 221.6 | 0 | 3-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.20917 | 211.7 | 0 | 3-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.10572 | 237.7 | 0 | 3-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.04109 | 158.4 | 0 | 3-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.08023 | 204.2 | 0 | 3-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.03036 | 173 | 0 | 3-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.03057 | 171 | 0 | 3-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.02445 | 204.6 | 0 | 3-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.01807 | 216.5 | 0 | 3-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.13651 | 257.7 | 0 | 3-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.143 | 231.4 | 0 | 3-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.1501 | 249.4 | 0 | 3-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.02076 | 164.7 | 0 | 3-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.06486 | 216.4 | 0 | 3-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.02561 | 177 | 0 | 3-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.01861 | 180.9 | 0 | 3-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.02332 | 196.6 | 0 | 3-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.0406 | 236.9 | 0 | 3-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.16791 | 261.3 | 0 | 3-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.17817 | 260.9 | 0 | 3-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.09992 | 226.7 | 0 | 3-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.02309 | 164 | 0 | 3-HR | Grid Receptor 8 | G8 |

09/30/21

* AERMET (19191): Future Flare (Ground Lvl) SO2 3-hr 2019

08:26:49

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|-----------------------|-----|----|
| 650544 | 4075573 | 0.33297 | 268.2 | 0 | 3-HR | Grid Receptor 80 | G80 | PM |
| 650944 | 4079173 | 0.01673 | 181.3 | 0 | 3-HR | Grid Receptor 81 | G81 | |
| 650944 | 4078773 | 0.02514 | 178.4 | 0 | 3-HR | Grid Receptor 82 | G82 | |
| 650944 | 4078373 | 0.04111 | 214.8 | 0 | 3-HR | Grid Receptor 83 | G83 | |
| 650944 | 4077973 | 0.06851 | 249.9 | 0 | 3-HR | Grid Receptor 84 | G84 | |
| 650944 | 4077573 | 0.19954 | 276.5 | 0 | 3-HR | Grid Receptor 85 | G85 | |
| 650944 | 4077173 | 0.07106 | 225.6 | 0 | 3-HR | Grid Receptor 86 | G86 | |
| 650944 | 4076773 | 0.07143 | 219.8 | 0 | 3-HR | Grid Receptor 87 | G87 | |
| 650944 | 4076373 | 0.07967 | 209.2 | 0 | 3-HR | Grid Receptor 88 | G88 | |
| 650944 | 4075973 | 0.08399 | 216.6 | 0 | 3-HR | Grid Receptor 89 | G89 | |
| 647744 | 4075973 | 0.06309 | 160.7 | 0 | 3-HR | Grid Receptor 9 | G9 | |
| 650944 | 4075573 | 0.06511 | 243.2 | 0 | 3-HR | Grid Receptor 90 | G90 | |
| 651344 | 4079173 | 0.02711 | 191 | 0 | 3-HR | Grid Receptor 91 | G91 | |
| 651344 | 4078773 | 0.03554 | 181 | 0 | 3-HR | Grid Receptor 92 | G92 | |
| 651344 | 4078373 | 0.035 | 214.3 | 0 | 3-HR | Grid Receptor 93 | G93 | |
| 651344 | 4077973 | 0.05677 | 248.4 | 0 | 3-HR | Grid Receptor 94 | G94 | |
| 651344 | 4077573 | 0.04371 | 213.2 | 0 | 3-HR | Grid Receptor 95 | G95 | |
| 651344 | 4077173 | 0.05613 | 213.6 | 0 | 3-HR | Grid Receptor 96 | G96 | |
| 651344 | 4076773 | 0.05815 | 203.5 | 0 | 3-HR | Grid Receptor 97 | G97 | |
| 651344 | 4076373 | 0.06347 | 205.6 | 0 | 3-HR | Grid Receptor 98 | G98 | |
| 651344 | 4075973 | 0.06656 | 205.8 | 0 | 3-HR | Grid Receptor 99 | G99 | |
| 648584 | 4077523 | 0.09168 | 183.61 | 0 | 3-HR | Boundary Perimeter 1 | P1 | |
| 649484 | 4077537 | 0.14994 | 254.01 | 0 | 3-HR | Boundary Perimeter 10 | P10 | |
| 649584 | 4077539 | 0.03736 | 235.3 | 0 | 3-HR | Boundary Perimeter 11 | P11 | |
| 649684 | 4077540 | 0.05212 | 221.29 | 0 | 3-HR | Boundary Perimeter 12 | P12 | |
| 649784 | 4077541 | 0.03696 | 222.37 | 0 | 3-HR | Boundary Perimeter 13 | P13 | |
| 649884 | 4077542 | 0.02219 | 233.6 | 0 | 3-HR | Boundary Perimeter 14 | P14 | |
| 649984 | 4077543 | 0.07763 | 249.54 | 0 | 3-HR | Boundary Perimeter 15 | P15 | |
| 650084 | 4077546 | 0.16919 | 258.89 | 0 | 3-HR | Boundary Perimeter 16 | P16 | |
| 650184 | 4077548 | 0.16355 | 259.56 | 0 | 3-HR | Boundary Perimeter 17 | P17 | |
| 650284 | 4077550 | 0.12177 | 256.77 | 0 | 3-HR | Boundary Perimeter 18 | P18 | |
| 650384 | 4077552 | 0.04126 | 242.37 | 0 | 3-HR | Boundary Perimeter 19 | P19 | |
| | | | | | | | | |

09/30/21

* AERMET (19191): Future Flare (Ground Lvl) SO2 3-hr 2019

08:26:49

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| 648684 407 | 7525 0.11257 | 197.16 | 0 | | | |
|------------|--------------|--------|---|------|-----------------------|-----|
| | | 177.10 | 0 | 3-HR | Boundary Perimeter 2 | P2 |
| 650484 407 | 7554 0.03803 | 242.23 | 0 | 3-HR | Boundary Perimeter 20 | P20 |
| 650584 407 | 7557 0.15369 | 259.71 | 0 | 3-HR | Boundary Perimeter 21 | P21 |
| 650684 407 | 7559 0.14257 | 257.58 | 0 | 3-HR | Boundary Perimeter 22 | P22 |
| 650777 407 | 7554 0.18771 | 267.9 | 0 | 3-HR | Boundary Perimeter 23 | P23 |
| 650779 407 | 7454 0.18485 | 275.91 | 0 | 3-HR | Boundary Perimeter 24 | P24 |
| 650781 407 | 7354 0.17336 | 265.73 | 0 | 3-HR | Boundary Perimeter 25 | P25 |
| 650783 407 | 7254 0.07041 | 251.08 | 0 | 3-HR | Boundary Perimeter 26 | P26 |
| 650785 407 | 7154 0.08566 | 252.83 | 0 | 3-HR | Boundary Perimeter 27 | P27 |
| 650787 407 | 7054 0.07166 | 246.1 | 0 | 3-HR | Boundary Perimeter 28 | P28 |
| 650789 407 | 6954 0.0713 | 241.37 | 0 | 3-HR | Boundary Perimeter 29 | P29 |
| 648784 407 | 7527 0.14646 | 209.74 | 0 | 3-HR | Boundary Perimeter 3 | Р3 |
| 650791 407 | 0.07134 | 246.79 | 0 | 3-HR | Boundary Perimeter 30 | P30 |
| 650794 407 | 6754 0.0749 | 228.75 | 0 | 3-HR | Boundary Perimeter 31 | P31 |
| | 0.06949 | 217.76 | 0 | 3-HR | Boundary Perimeter 32 | P32 |
| 650660 407 | 0.06928 | 221.2 | 0 | 3-HR | Boundary Perimeter 33 | P33 |
| 650561 407 | 0.07016 | 220.83 | 0 | 3-HR | Boundary Perimeter 34 | P34 |
| 650463 407 | 0.07274 | 223.42 | 0 | 3-HR | Boundary Perimeter 35 | P35 |
| 650364 407 | 6682 0.07499 | 222.46 | 0 | 3-HR | Boundary Perimeter 36 | P36 |
| 650264 407 | 6683 0.07684 | 223.19 | 0 | 3-HR | Boundary Perimeter 37 | P37 |
| | 0.08854 | | 0 | 3-HR | Boundary Perimeter 38 | P38 |
| | 6660 0.10123 | 217.03 | 0 | 3-HR | Boundary Perimeter 39 | P39 |
| | 7529 0.14847 | 214.25 | 0 | 3-HR | Boundary Perimeter 4 | P4 |
| 649980 407 | 6627 0.10893 | 214.82 | 0 | 3-HR | Boundary Perimeter 40 | P40 |
| 649920 407 | 0.15565 | 214.91 | 0 | 3-HR | Boundary Perimeter 41 | P41 |
| 649852 407 | 6474 0.14336 | 214.09 | 0 | 3-HR | Boundary Perimeter 42 | P42 |
| | 6417 0.24844 | 211.53 | 0 | 3-HR | Boundary Perimeter 43 | P43 |
| | 6375 0.22286 | 210.17 | 0 | 3-HR | Boundary Perimeter 44 | P44 |
| | 6368 0.23898 | 208.52 | 0 | 3-HR | Boundary Perimeter 45 | P45 |
| | 6384 0.29015 | 207.5 | 0 | 3-HR | Boundary Perimeter 46 | P46 |
| | 6425 0.27226 | 205.17 | 0 | 3-HR | Boundary Perimeter 47 | P47 |
| 649304 407 | 6472 0.10166 | 202.16 | 0 | 3-HR | Boundary Perimeter 48 | P48 |

09/30/21

* AERMET (19191): Future Flare (Ground Lvl) SO2 3-hr 2019

08:26:49

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|--------|
| 649226 | 4076535 | 0.05539 | 196.38 | 0 | 3-HR | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.15119 | 221.41 | 0 | 3-HR | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.17693 | 195.87 | 0 | 3-HR | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.17007 | 196.32 | 0 | 3-HR | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.17361 | 192.42 | 0 | 3-HR | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.17789 | 192.46 | 0 | 3-HR | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.15074 | 191.63 | 0 | 3-HR | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.12264 | 186.32 | 0 | 3-HR | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.10773 | 179.81 | 0 | 3-HR | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.09995 | 176.23 | 0 | 3-HR | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.10972 | 175.02 | 0 | 3-HR | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.14864 | 180.62 | 0 | 3-HR | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.09591 | 216.54 | 0 | 3-HR | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.13614 | 183.47 | 0 | 3-HR | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.16035 | 202.88 | 0 | 3-HR | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.12492 | 178.21 | 0 | 3-HR | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.11079 | 176.25 | 0 | 3-HR | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.10194 | 176 | 0 | 3-HR | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.10255 | 175.24 | 0 | 3-HR | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.10092 | 175.13 | 0 | 3-HR | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.06673 | 230.71 | 0 | 3-HR | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.10357 | 248.08 | 0 | 3-HR | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.19719 | 258.43 | 0 | 3-HR | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.03088 | 127.38 | 0 | 3-HR | New Development | RP_G1 |
| 645930 | 4078083 | 0.03126 | 127.58 | 0 | 3-HR | New Development | RP_G10 |
| 646030 | 4078083 | 0.03134 | 130.56 | 0 | 3-HR | New Development | RP_G11 |
| 646130 | 4078083 | 0.03086 | 134.35 | 0 | 3-HR | New Development | RP_G12 |
| 646230 | 4078083 | 0.02978 | 139.22 | 0 | 3-HR | New Development | RP_G13 |
| 646330 | 4078083 | 0.02853 | 144.65 | 0 | 3-HR | New Development | RP_G14 |
| 646430 | 4078083 | 0.03055 | 142.28 | 0 | 3-HR | New Development | RP_G15 |
| 646530 | 4078083 | 0.03212 | 146.76 | 0 | 3-HR | New Development | RP_G16 |
| 646630 | 4078083 | 0.03297 | 150.64 | 0 | 3-HR | New Development | RP_G17 |

0.15839

09/30/21

* AERMET (19191): Future Flare (Ground Lvl) SO2 3-hr 2019

08:26:49

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| | () | -,- (,),- (, | 11- 1 - 1 | - | , -, , | | |
|--------|---------|---------------|-----------|-------|--------|-----------------|--------|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
| 646730 | 4078083 | 0.03293 | 155.4 | 0 | 3-HR | New Development | RP_G18 |
| 645930 | 4078183 | 0.02932 | 127.22 | 0 | 3-HR | New Development | RP_G19 |
| 646030 | 4077983 | 0.03207 | 131.21 | 0 | 3-HR | New Development | RP_G2 |
| 646030 | 4078183 | 0.02833 | 130.56 | 0 | 3-HR | New Development | RP_G20 |
| 646130 | 4078183 | 0.02689 | 133.89 | 0 | 3-HR | New Development | RP_G21 |
| 646230 | 4078183 | 0.02884 | 140.45 | 0 | 3-HR | New Development | RP_G22 |
| 646330 | 4078183 | 0.03041 | 146.94 | 0 | 3-HR | New Development | RP_G23 |
| 646430 | 4078183 | 0.03128 | 140.23 | 0 | 3-HR | New Development | RP_G24 |
| 646530 | 4078183 | 0.03154 | 147.25 | 0 | 3-HR | New Development | RP_G25 |
| 646630 | 4078183 | 0.03091 | 151.56 | 0 | 3-HR | New Development | RP_G26 |
| 646730 | 4078183 | 0.03335 | 157.78 | 0 | 3-HR | New Development | RP_G27 |
| 645930 | 4078283 | 0.02561 | 126.06 | 0 | 3-HR | New Development | RP_G28 |
| 646030 | 4078283 | 0.0272 | 129.56 | 0 | 3-HR | New Development | RP_G29 |
| 646130 | 4077983 | 0.03281 | 135.89 | 0 | 3-HR | New Development | RP_G3 |
| 646130 | 4078283 | 0.02868 | 132.89 | 0 | 3-HR | New Development | RP_G30 |
| 646230 | 4078283 | 0.02972 | 139.24 | 0 | 3-HR | New Development | RP_G31 |
| 646330 | 4078283 | 0.03015 | 142.68 | 0 | 3-HR | New Development | RP_G32 |
| 646430 | 4078283 | 0.02981 | 140.02 | 0 | 3-HR | New Development | RP_G33 |
| 646530 | 4078283 | 0.03113 | 147.22 | 0 | 3-HR | New Development | RP_G34 |
| 646630 | 4078283 | 0.03314 | 151.56 | 0 | 3-HR | New Development | RP_G35 |
| 646730 | 4078283 | 0.03419 | 156.78 | 0 | 3-HR | New Development | RP_G36 |
| 646230 | 4077983 | 0.03298 | 139.18 | 0 | 3-HR | New Development | RP_G4 |
| 646330 | 4077983 | 0.03248 | 140.76 | 0 | 3-HR | New Development | RP_G5 |
| 646430 | 4077983 | 0.03127 | 143.89 | 0 | 3-HR | New Development | RP_G6 |
| 646530 | 4077983 | 0.0302 | 145.22 | 0 | 3-HR | New Development | RP_G7 |
| 646630 | 4077983 | 0.03239 | 147.21 | 0 | 3-HR | New Development | RP_G8 |
| 646730 | 4077983 | 0.03391 | 148.3 | 0 | 3-HR | New Development | RP_G9 |
| 648659 | 4077241 | 0.15839 | 205.79 | 0 | 3-HR | House 1 | RP_H1 |
| 648071 | 4076116 | 0.06537 | 169.6 | 0 | 3-HR | House 10 | RP_H10 |
| 648247 | 4076278 | 0.05682 | 184.55 | 0 | 3-HR | House 11 | RP_H11 |
| 648027 | 4076255 | 0.05025 | 169.38 | 0 | 3-HR | House 12 | RP_H12 |
| 648066 | 4076359 | 0.03466 | 173.83 | 0 | 3-HR | House 13 | RP_H13 |

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09/30/21

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- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 648139 | 4076400 | 0.03007 | 178.22 | 0 | 3-HR | House 14 | RP_H14 |
| 648255 | 4076411 | 0.03262 | 191.28 | 0 | 3-HR | House 15 | RP_H15 |
| 647878 | 4076365 | 0.02749 | 165.39 | 0 | 3-HR | House 16 | RP_H16 |
| 647520 | 4076206 | 0.03683 | 159 | 0 | 3-HR | House 17 | RP_H17 |
| 647921 | 4076247 | 0.04667 | 164 | 0 | 3-HR | House 18 | RP_H18 |
| 647709 | 4076352 | 0.02484 | 163.52 | 0 | 3-HR | House 19 | RP_H19 |
| 648372 | 4075470 | 0.0336 | 173.69 | 0 | 3-HR | House 2 | RP_H2 |
| 647704 | 4076251 | 0.0378 | 162.17 | 0 | 3-HR | House 20 | RP_H20 |
| 647719 | 4076104 | 0.05564 | 159.35 | 0 | 3-HR | House 21 | RP_H21 |
| 647843 | 4076125 | 0.05853 | 163 | 0 | 3-HR | House 22 | RP_H22 |
| 647842 | 4076500 | 0.02388 | 167.93 | 0 | 3-HR | House 23 | RP_H23 |
| 647728 | 4076644 | 0.02246 | 164.15 | 0 | 3-HR | House 24 | RP_H24 |
| 647824 | 4076644 | 0.02327 | 168.29 | 0 | 3-HR | House 25 | RP_H25 |
| 647530 | 4076497 | 0.02147 | 159.56 | 0 | 3-HR | House 26 | RP_H26 |
| 647810 | 4076854 | 0.02517 | 162.9 | 0 | 3-HR | House 27 | RP_H27 |
| 647697 | 4076989 | 0.03618 | 161.42 | 0 | 3-HR | House 28 | RP_H28 |
| 648226 | 4076182 | 0.0666 | 183.22 | 0 | 3-HR | House 29 | RP_H29 |
| 647678 | 4075969 | 0.06207 | 159.5 | 0 | 3-HR | House 3 | RP_H3 |
| 645876 | 4077487 | 0.02234 | 127.13 | 0 | 3-HR | House 30 | RP_H30 |
| 650902 | 4076062 | 0.08782 | 215.24 | 0 | 3-HR | House 31 | RP_H31 |
| 651490 | 4076597 | 0.04865 | 205.5 | 0 | 3-HR | House 32 | RP_H32 |
| 651565 | 4077067 | 0.05483 | 213.93 | 0 | 3-HR | House 33 | RP_H33 |
| 648673 | 4075307 | 0.07036 | 225.91 | 0 | 3-HR | House 34 | RP_H34 |
| 648384 | 4075469 | 0.03305 | 174.44 | 0 | 3-HR | House 35 | RP_H35 |
| 646379 | 4077233 | 0.01923 | 146 | 0 | 3-HR | House 36 | RP_H36 |
| 651850 | 4075865 | 0.0501 | 201.97 | 0 | 3-HR | House 37 | RP_H37 |
| 652045 | 4076210 | 0.04377 | 196.88 | 0 | 3-HR | House 38 | RP_H38 |
| 652256 | 4076391 | 0.03833 | 197.06 | 0 | 3-HR | House 39 | RP_H39 |
| 647815 | 4075985 | 0.06386 | 162.04 | 0 | 3-HR | House 4 | RP_H4 |
| 646854 | 4077373 | 0.03669 | 145.99 | 0 | 3-HR | House 40 | RP_H40 |
| 647050 | 4077360 | 0.03878 | 145 | 0 | 3-HR | House 41 | RP_H41 |
| 647286 | 4077474 | 0.04088 | 149.68 | 0 | 3-HR | House 42 | RP_H42 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 647359 | 4077340 | 0.03819 | 154.45 | 0 | 3-HR | House 43 | RP_H43 |
| 647490 | 4077329 | 0.04096 | 162.28 | 0 | 3-HR | House 44 | RP_H44 |
| 647522 | 4077252 | 0.04083 | 164.3 | 0 | 3-HR | House 45 | RP_H45 |
| 647518 | 4077139 | 0.04303 | 164.01 | 0 | 3-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.03149 | 151.53 | 0 | 3-HR | House 47 | RP_H47 |
| 646779 | 4077128 | 0.02098 | 158.51 | 0 | 3-HR | House 48 | RP_H48 |
| 646987 | 4077213 | 0.03319 | 146.44 | 0 | 3-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.06462 | 163.83 | 0 | 3-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.04036 | 154.85 | 0 | 3-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.02019 | 159 | 0 | 3-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.02924 | 148.99 | 0 | 3-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.03584 | 158.62 | 0 | 3-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.01888 | 158.67 | 0 | 3-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.02103 | 152.34 | 0 | 3-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.02758 | 160.22 | 0 | 3-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.02836 | 161.26 | 0 | 3-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.01893 | 156.81 | 0 | 3-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.01642 | 156.21 | 0 | 3-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.064 | 168.26 | 0 | 3-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.01692 | 154.38 | 0 | 3-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.02314 | 162.49 | 0 | 3-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.01808 | 158 | 0 | 3-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.02347 | 159.45 | 0 | 3-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.01843 | 159.32 | 0 | 3-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.0215 | 159 | 0 | 3-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.03196 | 179.58 | 0 | 3-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.03954 | 146.77 | 0 | 3-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.01657 | 156.07 | 0 | 3-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.01611 | 159 | 0 | 3-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.05518 | 171.51 | 0 | 3-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.01973 | 159.9 | 0 | 3-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.05002 | 183.42 | 0 | 3-HR | House 8 | RP_H8 |

09/30/21

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- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|-------|
| 648219 | 4076109 | 0.06688 | 182.28 | 0 | 3-HR | House 9 | RP_H9 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2019

13:27:06

- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|-------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.00739 | 123.85 | 0 | 24-HR | AQ Monitoring Station | AQ_ST_1 | |
| 643904 | 4077719 | 0.00442 | 105.68 | 0 | 24-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642057 | 4079416 | 0.00357 | 85.12 | 0 | 24-HR | Dunne Park | CR_PK_1 | |
| 642179 | 4079950 | 0.00475 | 117.99 | 0 | 24-HR | Vista Park Hill Park | CR_PK_2 | |
| 644733 | 4078753 | 0.0077 | 106.44 | 0 | 24-HR | Las Brisas Park | CR_PK_3 | |
| 645609 | 4078854 | 0.00764 | 112.86 | 0 | 24-HR | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238 | 4078807 | 0.00611 | 95.25 | 0 | 24-HR | Veterans Memorial Park | CR_PK_5 | |
| 645311 | 4076559 | 0.00369 | 134.61 | 0 | 24-HR | Park 6 | CR_PK_6 | |
| 649582 | 4073424 | 0.00594 | 159.96 | 0 | 24-HR | Park 7 | CR_PK_7 | |
| 645145 | 4077181 | 0.0031 | 133 | 0 | 24-HR | Cerra Vista Elem School | CR_SC_1 | |
| 642905 | 4079955 | 0.00568 | 86 | 0 | 24-HR | San Andreas Continuation | CR_SC_10 | |
| 645851 | 4074015 | 0.00306 | 123 | 0 | 24-HR | SouthSide School | CR_SC_11 | |
| 642106 | 4078176 | 0.00441 | 91 | 0 | 24-HR | School 12 | CR_SC_12 | |
| 646059 | 4078443 | 0.01001 | 128.52 | 0 | 24-HR | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.00274 | 158 | 0 | 24-HR | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.00464 | 159 | 0 | 24-HR | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644110 | 4078389 | 0.00473 | 98.2 | 0 | 24-HR | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.00291 | 101.23 | 0 | 24-HR | Hollister Montessori School | CR_SC_3 | |
| 642961 | 4078621 | 0.0045 | 92 | 0 | 24-HR | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.00586 | 88 | 0 | 24-HR | Marguerite Maze Middle School | CR_SC_5 | |
| 641630 | 4079153 | 0.00384 | 85 | 0 | 24-HR | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.00294 | 98.22 | 0 | 24-HR | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.00434 | 87 | 0 | 24-HR | Gabilan Hills Elementary School | CR_SC_8 | |
| 642245 | 4078413 | 0.00479 | 90.17 | 0 | 24-HR | San Benito High School | CR_SC_9 | |
| 642083 | 4079794 | 0.00418 | 87.58 | 0 | 24-HR | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.00359 | 146.33 | 0 | 24-HR | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 0.011 | 189.45 | 0 | 24-HR | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 0.01057 | 155.2 | 0 | 24-HR | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.00321 | 160 | 0 | 24-HR | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.022 | 252.9 | 0 | 24-HR | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.00701 | 165.9 | 0 | 24-HR | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.00919 | 159.6 | 0 | 24-HR | Grid Receptor 12 | G12 | |

09/29/21

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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|-------|------------------|-----|
| 648144 | 4078373 | 0.01474 | 146.2 | 0 | 24-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.01658 | 158.3 | 0 | 24-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.01748 | 166.6 | 0 | 24-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.02109 | 175.4 | 0 | 24-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.01328 | 177.1 | 0 | 24-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.00393 | 178 | 0 | 24-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.00387 | 173 | 0 | 24-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.0128 | 145.4 | 0 | 24-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.00552 | 168.8 | 0 | 24-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.00714 | 173.5 | 0 | 24-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.00844 | 166.2 | 0 | 24-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.00958 | 145.4 | 0 | 24-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.01315 | 173.9 | 0 | 24-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.02187 | 179.6 | 0 | 24-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.02233 | 191 | 0 | 24-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.04007 | 209.2 | 0 | 24-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.00849 | 233.7 | 0 | 24-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.00479 | 199.9 | 0 | 24-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.01307 | 144.4 | 0 | 24-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.00915 | 195.5 | 0 | 24-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.0049 | 190.4 | 0 | 24-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.00445 | 165.4 | 0 | 24-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.00627 | 159.6 | 0 | 24-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.01049 | 183.5 | 0 | 24-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.01913 | 224 | 0 | 24-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.00791 | 205 | 0 | 24-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.03287 | 208.8 | 0 | 24-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.01359 | 134.6 | 0 | 24-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00835 | 185.6 | 0 | 24-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00299 | 187.4 | 0 | 24-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.00283 | 160.9 | 0 | 24-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.00326 | 200.5 | 0 | 24-HR | Grid Receptor 43 | G43 |

09/29/21

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|-------|------------------|-----|
| 649344 | 4077973 | 0.00405 | 229 | 0 | 24-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.03577 | 253.3 | 0 | 24-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.09254 | 220.2 | 0 | 24-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.03999 | 227.2 | 0 | 24-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.01046 | 163.8 | 0 | 24-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.01802 | 205.5 | 0 | 24-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.00329 | 176.1 | 0 | 24-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00363 | 195 | 0 | 24-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00365 | 196.1 | 0 | 24-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.0033 | 215.3 | 0 | 24-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.0033 | 221.6 | 0 | 24-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.09743 | 211.7 | 0 | 24-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.04615 | 237.7 | 0 | 24-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.01889 | 158.4 | 0 | 24-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.01898 | 204.2 | 0 | 24-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.00375 | 173 | 0 | 24-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.0029 | 171 | 0 | 24-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00265 | 204.6 | 0 | 24-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.00297 | 216.5 | 0 | 24-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.03486 | 257.7 | 0 | 24-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.04842 | 231.4 | 0 | 24-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.04747 | 249.4 | 0 | 24-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.00758 | 164.7 | 0 | 24-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.02054 | 216.4 | 0 | 24-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00221 | 177 | 0 | 24-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00233 | 180.9 | 0 | 24-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00234 | 196.6 | 0 | 24-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.00481 | 236.9 | 0 | 24-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.02864 | 261.3 | 0 | 24-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.04907 | 260.9 | 0 | 24-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.03669 | 226.7 | 0 | 24-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.00332 | 164 | 0 | 24-HR | Grid Receptor 8 | G8 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2019

13:27:06

- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-----------------------|-----|
| 650544 | 4075573 | 0.07774 | 268.2 | 0 | 24-HR | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.00198 | 181.3 | 0 | 24-HR | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00187 | 178.4 | 0 | 24-HR | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00237 | 214.8 | 0 | 24-HR | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.01327 | 249.9 | 0 | 24-HR | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.02894 | 276.5 | 0 | 24-HR | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.01325 | 225.6 | 0 | 24-HR | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.01929 | 219.8 | 0 | 24-HR | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.0334 | 209.2 | 0 | 24-HR | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.026 | 216.6 | 0 | 24-HR | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.00301 | 160.7 | 0 | 24-HR | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.02417 | 243.2 | 0 | 24-HR | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00162 | 191 | 0 | 24-HR | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00174 | 181 | 0 | 24-HR | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.00418 | 214.3 | 0 | 24-HR | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.00659 | 248.4 | 0 | 24-HR | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.01263 | 213.2 | 0 | 24-HR | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.01167 | 213.6 | 0 | 24-HR | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.01534 | 203.5 | 0 | 24-HR | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.02807 | 205.6 | 0 | 24-HR | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.01422 | 205.8 | 0 | 24-HR | Grid Receptor 99 | G99 |
| 648584 | 4077523 | 0.02283 | 183.61 | 0 | 24-HR | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 0.04555 | 254.01 | 0 | 24-HR | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.00339 | 235.3 | 0 | 24-HR | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.00313 | 221.29 | 0 | 24-HR | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00347 | 222.37 | 0 | 24-HR | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.00342 | 233.6 | 0 | 24-HR | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.02436 | 249.54 | 0 | 24-HR | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 0.0476 | 258.89 | 0 | 24-HR | Boundary Perimeter 16 | P16 |
| 650184 | 4077548 | 0.04435 | 259.56 | 0 | 24-HR | Boundary Perimeter 17 | P17 |
| 650284 | 4077550 | 0.03658 | 256.77 | 0 | 24-HR | Boundary Perimeter 18 | P18 |
| 650384 | 4077552 | 0.00842 | 242.37 | 0 | 24-HR | Boundary Perimeter 19 | P19 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2019

13:27:06

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-----------------------|-----|
| 648684 | 4077525 | 0.0227 | 197.16 | 0 | 24-HR | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.00938 | 242.23 | 0 | 24-HR | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.02049 | 259.71 | 0 | 24-HR | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.01386 | 257.58 | 0 | 24-HR | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.02711 | 267.9 | 0 | 24-HR | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.02701 | 275.91 | 0 | 24-HR | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.02639 | 265.73 | 0 | 24-HR | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.01801 | 251.08 | 0 | 24-HR | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.01993 | 252.83 | 0 | 24-HR | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.01989 | 246.1 | 0 | 24-HR | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.01651 | 241.37 | 0 | 24-HR | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.01968 | 209.74 | 0 | 24-HR | Boundary Perimeter 3 | Р3 |
| 650791 | 4076854 | 0.02023 | 246.79 | 0 | 24-HR | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.02082 | 228.75 | 0 | 24-HR | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.02216 | 217.76 | 0 | 24-HR | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.02369 | 221.2 | 0 | 24-HR | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.02488 | 220.83 | 0 | 24-HR | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.02558 | 223.42 | 0 | 24-HR | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.026 | 222.46 | 0 | 24-HR | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.02729 | 223.19 | 0 | 24-HR | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.0292 | 222.1 | 0 | 24-HR | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.03196 | 217.03 | 0 | 24-HR | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.02004 | 214.25 | 0 | 24-HR | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.0371 | 214.82 | 0 | 24-HR | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.05578 | 214.91 | 0 | 24-HR | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.0755 | 214.09 | 0 | 24-HR | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.06984 | 211.53 | 0 | 24-HR | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.1015 | 210.17 | 0 | 24-HR | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.09761 | 208.52 | 0 | 24-HR | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.1134 | 207.5 | 0 | 24-HR | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.10338 | 205.17 | 0 | 24-HR | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.02621 | 202.16 | 0 | 24-HR | Boundary Perimeter 48 | P48 |

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09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2019

13:27:06

- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-----------------------|--------|
| 649226 | 4076535 | 0.02293 | 196.38 | 0 | 24-HR | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.01901 | 221.41 | 0 | 24-HR | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.03192 | 195.87 | 0 | 24-HR | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.05821 | 196.32 | 0 | 24-HR | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.05815 | 192.42 | 0 | 24-HR | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.05074 | 192.46 | 0 | 24-HR | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.03842 | 191.63 | 0 | 24-HR | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.02928 | 186.32 | 0 | 24-HR | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.02623 | 179.81 | 0 | 24-HR | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.02453 | 176.23 | 0 | 24-HR | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.02263 | 175.02 | 0 | 24-HR | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.02869 | 180.62 | 0 | 24-HR | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.01467 | 216.54 | 0 | 24-HR | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.03157 | 183.47 | 0 | 24-HR | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.03113 | 202.88 | 0 | 24-HR | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.02249 | 178.21 | 0 | 24-HR | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.02506 | 176.25 | 0 | 24-HR | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.02559 | 176 | 0 | 24-HR | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.02488 | 175.24 | 0 | 24-HR | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.02389 | 175.13 | 0 | 24-HR | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.00846 | 230.71 | 0 | 24-HR | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.01984 | 248.08 | 0 | 24-HR | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.05491 | 258.43 | 0 | 24-HR | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.00802 | 127.38 | 0 | 24-HR | New Development | RP_G1 |
| 645930 | 4078083 | 0.0092 | 127.58 | 0 | 24-HR | New Development | RP_G10 |
| 646030 | 4078083 | 0.00993 | 130.56 | 0 | 24-HR | New Development | RP_G11 |
| 646130 | 4078083 | 0.01063 | 134.35 | 0 | 24-HR | New Development | RP_G12 |
| 646230 | 4078083 | 0.01125 | 139.22 | 0 | 24-HR | New Development | RP_G13 |
| 646330 | 4078083 | 0.01175 | 144.65 | 0 | 24-HR | New Development | RP_G14 |
| 646430 | 4078083 | 0.01202 | 142.28 | 0 | 24-HR | New Development | RP_G15 |
| 646530 | 4078083 | 0.01207 | 146.76 | 0 | 24-HR | New Development | RP_G16 |
| 646630 | 4078083 | 0.01183 | 150.64 | 0 | 24-HR | New Development | RP_G17 |

09/29/21

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* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-----------------|--------|
| 646730 | 4078083 | 0.01131 | 155.4 | 0 | 24-HR | New Development | RP G18 |
| 645930 | 4078183 | 0.01015 | 127.22 | 0 | 24-HR | New Development | RP G19 |
| 646030 | 4077983 | 0.00875 | 131.21 | 0 | 24-HR | New Development | RP G2 |
| 646030 | 4078183 | 0.01072 | 130.56 | 0 | 24-HR | New Development | RP G20 |
| 646130 | 4078183 | 0.01117 | 133.89 | 0 | 24-HR | New Development | RP G21 |
| 646230 | 4078183 | 0.01148 | 140.45 | 0 | 24-HR | New Development | RP G22 |
| 646330 | 4078183 | 0.01159 | 146.94 | 0 | 24-HR | New Development | RP G23 |
| 646430 | 4078183 | 0.01144 | 140.23 | 0 | 24-HR | New Development | RP G24 |
| 646530 | 4078183 | 0.01105 | 147.25 | 0 | 24-HR | New Development | RP G25 |
| 646630 | 4078183 | 0.01042 | 151.56 | 0 | 24-HR | New Development | RP G26 |
| 646730 | 4078183 | 0.00958 | 157.78 | 0 | 24-HR | New Development | RP G27 |
| 645930 | 4078283 | 0.01064 | 126.06 | 0 | 24-HR | New Development | RP G28 |
| 646030 | 4078283 | 0.01094 | 129.56 | 0 | 24-HR | New Development | RP G29 |
| 646130 | 4077983 | 0.00954 | 135.89 | 0 | 24-HR | New Development | RP G3 |
| 646130 | 4078283 | 0.01107 | 132.89 | 0 | 24-HR | New Development | RP G30 |
| 646230 | 4078283 | 0.01101 | 139.24 | 0 | 24-HR | New Development | RP G31 |
| 646330 | 4078283 | 0.01074 | 142.68 | 0 | 24-HR | New Development | RP G32 |
| 646430 | 4078283 | 0.01024 | 140.02 | 0 | 24-HR | New Development | RP G33 |
| 646530 | 4078283 | 0.00956 | 147.22 | 0 | 24-HR | New Development | RP G34 |
| 646630 | 4078283 | 0.00871 | 151.56 | 0 | 24-HR | New Development | RP G35 |
| 646730 | 4078283 | 0.00775 | 156.78 | 0 | 24-HR | New Development | RP G36 |
| 646230 | 4077983 | 0.01035 | 139.18 | 0 | 24-HR | New Development | RP G4 |
| 646330 | 4077983 | 0.01112 | 140.76 | 0 | 24-HR | New Development | RP G5 |
| 646430 | 4077983 | 0.01179 | 143.89 | 0 | 24-HR | New Development | RP G6 |
| 646530 | 4077983 | 0.01229 | 145.22 | 0 | 24-HR | New Development | RP G7 |
| 646630 | 4077983 | 0.01256 | 147.21 | 0 | 24-HR | New Development | RP G8 |
| 646730 | 4077983 | 0.01253 | 148.3 | 0 | 24-HR | New Development | RP G9 |
| 648659 | 4077241 | 0.0346 | 205.79 | 0 | 24-HR | House 1 | RP H1 |
| 648071 | 4076116 | 0.00349 | 169.6 | 0 | 24-HR | House 10 | RP H10 |
| 648247 | 4076278 | 0.00399 | 184.55 | 0 | 24-HR | House 11 | RP H11 |
| 648027 | 4076255 | 0.00362 | 169.38 | 0 | 24-HR | House 12 | RP H12 |
| 648066 | 4076359 | 0.00374 | 173.83 | 0 | 24-HR | House 13 | RP H13 |

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09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2019

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- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|--------|
| 648139 | 4076400 | 0.00397 | 178.22 | 0 | 24-HR | House 14 | RP_H14 |
| 648255 | 4076411 | 0.00434 | 191.28 | 0 | 24-HR | House 15 | RP_H15 |
| 647878 | 4076365 | 0.00345 | 165.39 | 0 | 24-HR | House 16 | RP_H16 |
| 647520 | 4076206 | 0.003 | 159 | 0 | 24-HR | House 17 | RP_H17 |
| 647921 | 4076247 | 0.00346 | 164 | 0 | 24-HR | House 18 | RP_H18 |
| 647709 | 4076352 | 0.00324 | 163.52 | 0 | 24-HR | House 19 | RP_H19 |
| 648372 | 4075470 | 0.00731 | 173.69 | 0 | 24-HR | House 2 | RP_H2 |
| 647704 | 4076251 | 0.00319 | 162.17 | 0 | 24-HR | House 20 | RP_H20 |
| 647719 | 4076104 | 0.00319 | 159.35 | 0 | 24-HR | House 21 | RP_H21 |
| 647843 | 4076125 | 0.00333 | 163 | 0 | 24-HR | House 22 | RP_H22 |
| 647842 | 4076500 | 0.00364 | 167.93 | 0 | 24-HR | House 23 | RP_H23 |
| 647728 | 4076644 | 0.00442 | 164.15 | 0 | 24-HR | House 24 | RP_H24 |
| 647824 | 4076644 | 0.00469 | 168.29 | 0 | 24-HR | House 25 | RP_H25 |
| 647530 | 4076497 | 0.00329 | 159.56 | 0 | 24-HR | House 26 | RP_H26 |
| 647810 | 4076854 | 0.01154 | 162.9 | 0 | 24-HR | House 27 | RP_H27 |
| 647697 | 4076989 | 0.015 | 161.42 | 0 | 24-HR | House 28 | RP_H28 |
| 648226 | 4076182 | 0.00381 | 183.22 | 0 | 24-HR | House 29 | RP_H29 |
| 647678 | 4075969 | 0.00298 | 159.5 | 0 | 24-HR | House 3 | RP_H3 |
| 645876 | 4077487 | 0.00575 | 127.13 | 0 | 24-HR | House 30 | RP_H30 |
| 650902 | 4076062 | 0.02299 | 215.24 | 0 | 24-HR | House 31 | RP_H31 |
| 651490 | 4076597 | 0.02104 | 205.5 | 0 | 24-HR | House 32 | RP_H32 |
| 651565 | 4077067 | 0.01259 | 213.93 | 0 | 24-HR | House 33 | RP_H33 |
| 648673 | 4075307 | 0.01039 | 225.91 | 0 | 24-HR | House 34 | RP_H34 |
| 648384 | 4075469 | 0.00726 | 174.44 | 0 | 24-HR | House 35 | RP_H35 |
| 646379 | 4077233 | 0.00633 | 146 | 0 | 24-HR | House 36 | RP_H36 |
| 651850 | 4075865 | 0.01186 | 201.97 | 0 | 24-HR | House 37 | RP_H37 |
| 652045 | 4076210 | 0.01899 | 196.88 | 0 | 24-HR | House 38 | RP_H38 |
| 652256 | 4076391 | 0.01949 | 197.06 | 0 | 24-HR | House 39 | RP_H39 |
| 647815 | 4075985 | 0.00306 | 162.04 | 0 | 24-HR | House 4 | RP_H4 |
| 646854 | 4077373 | 0.0101 | 145.99 | 0 | 24-HR | House 40 | RP_H40 |
| 647050 | 4077360 | 0.01148 | 145 | 0 | 24-HR | House 41 | RP_H41 |
| 647286 | 4077474 | 0.01269 | 149.68 | 0 | 24-HR | House 42 | RP_H42 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2019

13:27:06

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|--------|
| 647359 | 4077340 | 0.01406 | 154.45 | 0 | 24-HR | House 43 | RP H43 |
| 647490 | 4077329 | 0.01526 | 162.28 | 0 | 24-HR | House 44 | RP H44 |
| 647522 | 4077252 | 0.01607 | 164.3 | 0 | 24-HR | House 45 | RP H45 |
| 647518 | 4077139 | 0.01536 | 164.01 | 0 | 24-HR | House 46 | RP H46 |
| 646819 | 4077258 | 0.00917 | 151.53 | 0 | 24-HR | House 47 | RP H47 |
| 646779 | 4077128 | 0.00752 | 158.51 | 0 | 24-HR | House 48 | RP H48 |
| 646987 | 4077213 | 0.01001 | 146.44 | 0 | 24-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.0032 | 163.83 | 0 | 24-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.01266 | 154.85 | 0 | 24-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.00666 | 159 | 0 | 24-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.00984 | 148.99 | 0 | 24-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.01198 | 158.62 | 0 | 24-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.00554 | 158.67 | 0 | 24-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.00682 | 152.34 | 0 | 24-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.0105 | 160.22 | 0 | 24-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.01105 | 161.26 | 0 | 24-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.00555 | 156.81 | 0 | 24-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.00449 | 156.21 | 0 | 24-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.00344 | 168.26 | 0 | 24-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.00494 | 154.38 | 0 | 24-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.00838 | 162.49 | 0 | 24-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.00554 | 158 | 0 | 24-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.00861 | 159.45 | 0 | 24-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.00592 | 159.32 | 0 | 24-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.00332 | 159 | 0 | 24-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00164 | 179.58 | 0 | 24-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.01209 | 146.77 | 0 | 24-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.0034 | 156.07 | 0 | 24-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.00411 | 159 | 0 | 24-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.00385 | 171.51 | 0 | 24-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.0037 | 159.9 | 0 | 24-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.00416 | 183.42 | 0 | 24-HR | House 8 | RP_H8 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2019

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|-------|
| 648219 | 4076109 | 0.00371 | 182.28 | 0 | 24-HR | House 9 | RP H9 |

09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 1-hr 2020

08:27:03

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.06523 | 123.85 | 0 | 1-HR | AQ Monitoring Station | AQ_ST_1 | |
| 643904 | 4077719 | 0.05935 | 105.68 | 0 | 1-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642057 | 4079416 | 0.03346 | 85.12 | 0 | 1-HR | Dunne Park | CR_PK_1 | |
| 642179 | 4079950 | 0.06241 | 117.99 | 0 | 1-HR | Vista Park Hill Park | CR_PK_2 | |
| 644733 | 4078753 | 0.08244 | 106.44 | 0 | 1-HR | Las Brisas Park | CR_PK_3 | |
| 645609 | 4078854 | 0.0621 | 112.86 | 0 | 1-HR | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238 | 4078807 | 0.06764 | 95.25 | 0 | 1-HR | Veterans Memorial Park | CR_PK_5 | |
| 645311 | 4076559 | 0.04491 | 134.61 | 0 | 1-HR | Park 6 | CR_PK_6 | |
| 649582 | 4073424 | 0.07337 | 159.96 | 0 | 1-HR | Park 7 | CR_PK_7 | |
| 645145 | 4077181 | 0.06396 | 133 | 0 | 1-HR | Cerra Vista Elem School | CR_SC_1 | |
| 642905 | 4079955 | 0.06445 | 86 | 0 | 1-HR | San Andreas Continuation | CR_SC_10 | |
| 645851 | 4074015 | 0.06288 | 123 | 0 | 1-HR | SouthSide School | CR_SC_11 | |
| 642106 | 4078176 | 0.04721 | 91 | 0 | 1-HR | School 12 | CR_SC_12 | |
| 646059 | 4078443 | 0.08629 | 128.52 | 0 | 1-HR | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.04735 | 158 | 0 | 1-HR | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.04473 | 159 | 0 | 1-HR | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644110 | 4078389 | 0.03835 | 98.2 | 0 | 1-HR | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.04643 | 101.23 | 0 | 1-HR | Hollister Montessori School | CR_SC_3 | |
| 642961 | 4078621 | 0.03779 | 92 | 0 | 1-HR | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.05345 | 88 | 0 | 1-HR | Marguerite Maze Middle School | CR_SC_5 | |
| 641630 | 4079153 | 0.03383 | 85 | 0 | 1-HR | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.0332 | 98.22 | 0 | 1-HR | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.04733 | 87 | 0 | 1-HR | Gabilan Hills Elementary School | CR_SC_8 | |
| 642245 | 4078413 | 0.04574 | 90.17 | 0 | 1-HR | San Benito High School | CR_SC_9 | |
| 642083 | 4079794 | 0.05245 | 87.58 | 0 | 1-HR | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.07248 | 146.33 | 0 | 1-HR | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 0.07455 | 189.45 | 0 | 1-HR | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 0.1122 | 155.2 | 0 | 1-HR | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.05874 | 160 | 0 | 1-HR | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.21575 | 252.9 | 0 | 1-HR | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.10637 | 165.9 | 0 | 1-HR | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.12784 | 159.6 | 0 | 1-HR | Grid Receptor 12 | G12 | |

09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 1-hr 2020

08:27:03

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 648144 | 4078373 | 0.11565 | 146.2 | 0 | 1-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.07403 | 158.3 | 0 | 1-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.08315 | 166.6 | 0 | 1-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.11144 | 175.4 | 0 | 1-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.13788 | 177.1 | 0 | 1-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.07325 | 178 | 0 | 1-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.06471 | 173 | 0 | 1-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.09738 | 145.4 | 0 | 1-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.12803 | 168.8 | 0 | 1-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.06059 | 173.5 | 0 | 1-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.06997 | 166.2 | 0 | 1-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.10469 | 145.4 | 0 | 1-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.14176 | 173.9 | 0 | 1-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.10178 | 179.6 | 0 | 1-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.13551 | 191 | 0 | 1-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.14756 | 209.2 | 0 | 1-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.08863 | 233.7 | 0 | 1-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.10775 | 199.9 | 0 | 1-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.0607 | 144.4 | 0 | 1-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.16554 | 195.5 | 0 | 1-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.1134 | 190.4 | 0 | 1-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.10173 | 165.4 | 0 | 1-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.08745 | 159.6 | 0 | 1-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.06905 | 183.5 | 0 | 1-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.12231 | 224 | 0 | 1-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.11671 | 205 | 0 | 1-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.2529 | 208.8 | 0 | 1-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.05893 | 134.6 | 0 | 1-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.04653 | 185.6 | 0 | 1-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.06778 | 187.4 | 0 | 1-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.06341 | 160.9 | 0 | 1-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.07221 | 200.5 | 0 | 1-HR | Grid Receptor 43 | G43 |

09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 1-hr 2020

08:27:03

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 289 RECEPTORS.

* FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 649344 | 4077973 | 0.07952 | 229 | 0 | 1-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.44928 | 253.3 | 0 | 1-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.41292 | 220.2 | 0 | 1-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.13505 | 227.2 | 0 | 1-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.09005 | 163.8 | 0 | 1-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.09531 | 205.5 | 0 | 1-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.0734 | 176.1 | 0 | 1-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.08365 | 195 | 0 | 1-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.08371 | 196.1 | 0 | 1-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.07488 | 215.3 | 0 | 1-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.05017 | 221.6 | 0 | 1-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.2844 | 211.7 | 0 | 1-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.1828 | 237.7 | 0 | 1-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.09213 | 158.4 | 0 | 1-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.12557 | 204.2 | 0 | 1-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.08462 | 173 | 0 | 1-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.06525 | 171 | 0 | 1-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.05813 | 204.6 | 0 | 1-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.03611 | 216.5 | 0 | 1-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.45053 | 257.7 | 0 | 1-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.17127 | 231.4 | 0 | 1-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.30494 | 249.4 | 0 | 1-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.11792 | 164.7 | 0 | 1-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.11172 | 216.4 | 0 | 1-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.04923 | 177 | 0 | 1-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.03051 | 180.9 | 0 | 1-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.03565 | 196.6 | 0 | 1-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.04138 | 236.9 | 0 | 1-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.39121 | 261.3 | 0 | 1-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.58305 | 260.9 | 0 | 1-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.13478 | 226.7 | 0 | 1-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.06128 | 164 | 0 | 1-HR | Grid Receptor 8 | G8 |

09/30/21

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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| | (11,12) | .,5(174,1 15.5),5(174,1 0.2),5 | | | | | | - |
|--------|---------|--------------------------------|--------|-------|------|-----------------------|-----|-----|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
| 650544 | 4075573 | 0.62096 | 268.2 | 0 | 1-HR | Grid Receptor 80 | G80 | |
| 650944 | 4079173 | 0.02861 | 181.3 | 0 | 1-HR | Grid Receptor 81 | G81 | |
| 650944 | 4078773 | 0.03279 | 178.4 | 0 | 1-HR | Grid Receptor 82 | G82 | |
| 650944 | 4078373 | 0.03599 | 214.8 | 0 | 1-HR | Grid Receptor 83 | G83 | |
| 650944 | 4077973 | 0.17762 | 249.9 | 0 | 1-HR | Grid Receptor 84 | G84 | |
| 650944 | 4077573 | 0.68859 | 276.5 | 0 | 1-HR | Grid Receptor 85 | G85 | PMI |
| 650944 | 4077173 | 0.08459 | 225.6 | 0 | 1-HR | Grid Receptor 86 | G86 | |
| 650944 | 4076773 | 0.09036 | 219.8 | 0 | 1-HR | Grid Receptor 87 | G87 | |
| 650944 | 4076373 | 0.09155 | 209.2 | 0 | 1-HR | Grid Receptor 88 | G88 | |
| 650944 | 4075973 | 0.11494 | 216.6 | 0 | 1-HR | Grid Receptor 89 | G89 | |
| 647744 | 4075973 | 0.06012 | 160.7 | 0 | 1-HR | Grid Receptor 9 | G9 | |
| 650944 | 4075573 | 0.16701 | 243.2 | 0 | 1-HR | Grid Receptor 90 | G90 | |
| 651344 | 4079173 | 0.03101 | 191 | 0 | 1-HR | Grid Receptor 91 | G91 | |
| 651344 | 4078773 | 0.03395 | 181 | 0 | 1-HR | Grid Receptor 92 | G92 | |
| 651344 | 4078373 | 0.073 | 214.3 | 0 | 1-HR | Grid Receptor 93 | G93 | |
| 651344 | 4077973 | 0.15468 | 248.4 | 0 | 1-HR | Grid Receptor 94 | G94 | |
| 651344 | 4077573 | 0.06982 | 213.2 | 0 | 1-HR | Grid Receptor 95 | G95 | |
| 651344 | 4077173 | 0.07019 | 213.6 | 0 | 1-HR | Grid Receptor 96 | G96 | |
| 651344 | 4076773 | 0.06869 | 203.5 | 0 | 1-HR | Grid Receptor 97 | G97 | |
| 651344 | 4076373 | 0.06932 | 205.6 | 0 | 1-HR | Grid Receptor 98 | G98 | |
| 651344 | 4075973 | 0.10706 | 205.8 | 0 | 1-HR | Grid Receptor 99 | G99 | |
| 648584 | 4077523 | 0.10934 | 183.61 | 0 | 1-HR | Boundary Perimeter 1 | P1 | |
| 649484 | 4077537 | 0.47899 | 254.01 | 0 | 1-HR | Boundary Perimeter 10 | P10 | |
| 649584 | 4077539 | 0.06487 | 235.3 | 0 | 1-HR | Boundary Perimeter 11 | P11 | |
| 649684 | 4077540 | 0.05222 | 221.29 | 0 | 1-HR | Boundary Perimeter 12 | P12 | |
| 649784 | 4077541 | 0.04778 | 222.37 | 0 | 1-HR | Boundary Perimeter 13 | P13 | |
| 649884 | 4077542 | 0.04239 | 233.6 | 0 | 1-HR | Boundary Perimeter 14 | P14 | |
| 649984 | 4077543 | 0.28122 | 249.54 | 0 | 1-HR | Boundary Perimeter 15 | P15 | |
| 650084 | 4077546 | 0.51551 | 258.89 | 0 | 1-HR | Boundary Perimeter 16 | P16 | |
| 650184 | 4077548 | 0.50731 | 259.56 | 0 | 1-HR | Boundary Perimeter 17 | P17 |] |
| 650284 | 4077550 | 0.44277 | 256.77 | 0 | 1-HR | Boundary Perimeter 18 | P18 | |
| 650384 | 4077552 | 0.11841 | 242.37 | 0 | 1-HR | Boundary Perimeter 19 | P19 |] |
| | | | | | | | | |

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- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|-----|
| 648684 | 4077525 | 0.13443 | 197.16 | 0 | 1-HR | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.10983 | 242.23 | 0 | 1-HR | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.30859 | 259.71 | 0 | 1-HR | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.3271 | 257.58 | 0 | 1-HR | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.64501 | 267.9 | 0 | 1-HR | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.62417 | 275.91 | 0 | 1-HR | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.5338 | 265.73 | 0 | 1-HR | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.25467 | 251.08 | 0 | 1-HR | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.29134 | 252.83 | 0 | 1-HR | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.15673 | 246.1 | 0 | 1-HR | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.10115 | 241.37 | 0 | 1-HR | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.1537 | 209.74 | 0 | 1-HR | Boundary Perimeter 3 | Р3 |
| 650791 | 4076854 | 0.17515 | 246.79 | 0 | 1-HR | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.09841 | 228.75 | 0 | 1-HR | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.10752 | 217.76 | 0 | 1-HR | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.11247 | 221.2 | 0 | 1-HR | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.12036 | 220.83 | 0 | 1-HR | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.13628 | 223.42 | 0 | 1-HR | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.14936 | 222.46 | 0 | 1-HR | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.16151 | 223.19 | 0 | 1-HR | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.17666 | 222.1 | 0 | 1-HR | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.19598 | 217.03 | 0 | 1-HR | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.14468 | 214.25 | 0 | 1-HR | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.22048 | 214.82 | 0 | 1-HR | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.24752 | 214.91 | 0 | 1-HR | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.24195 | 214.09 | 0 | 1-HR | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.25533 | 211.53 | 0 | 1-HR | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.37051 | 210.17 | 0 | 1-HR | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.27353 | 208.52 | 0 | 1-HR | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.31448 | 207.5 | 0 | 1-HR | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.37192 | 205.17 | 0 | 1-HR | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.20151 | 202.16 | 0 | 1-HR | Boundary Perimeter 48 | P48 |

09/30/21

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|--------|
| 649226 | 4076535 | 0.12849 | 196.38 | 0 | 1-HR | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.14432 | 221.41 | 0 | 1-HR | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.25173 | 195.87 | 0 | 1-HR | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.25432 | 196.32 | 0 | 1-HR | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.22844 | 192.42 | 0 | 1-HR | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.1971 | 192.46 | 0 | 1-HR | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.21488 | 191.63 | 0 | 1-HR | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.21266 | 186.32 | 0 | 1-HR | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.17318 | 179.81 | 0 | 1-HR | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.1355 | 176.23 | 0 | 1-HR | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.15281 | 175.02 | 0 | 1-HR | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.15626 | 180.62 | 0 | 1-HR | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.13565 | 216.54 | 0 | 1-HR | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.14733 | 183.47 | 0 | 1-HR | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.17045 | 202.88 | 0 | 1-HR | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.12817 | 178.21 | 0 | 1-HR | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.13216 | 176.25 | 0 | 1-HR | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.12041 | 176 | 0 | 1-HR | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.11608 | 175.24 | 0 | 1-HR | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.1139 | 175.13 | 0 | 1-HR | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.08391 | 230.71 | 0 | 1-HR | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.25004 | 248.08 | 0 | 1-HR | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.6757 | 258.43 | 0 | 1-HR | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.08238 | 127.38 | 0 | 1-HR | New Development | RP_G1 |
| 645930 | 4078083 | 0.09333 | 127.58 | 0 | 1-HR | New Development | RP_G10 |
| 646030 | 4078083 | 0.09877 | 130.56 | 0 | 1-HR | New Development | RP_G11 |
| 646130 | 4078083 | 0.10342 | 134.35 | 0 | 1-HR | New Development | RP_G12 |
| 646230 | 4078083 | 0.10708 | 139.22 | 0 | 1-HR | New Development | RP_G13 |
| 646330 | 4078083 | 0.10938 | 144.65 | 0 | 1-HR | New Development | RP_G14 |
| 646430 | 4078083 | 0.10794 | 142.28 | 0 | 1-HR | New Development | RP_G15 |
| 646530 | 4078083 | 0.10609 | 146.76 | 0 | 1-HR | New Development | RP_G16 |
| 646630 | 4078083 | 0.10194 | 150.64 | 0 | 1-HR | New Development | RP_G17 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------|--------|
| 646730 | 4078083 | 0.09584 | 155.4 | 0 | 1-HR | New Development | RP_G18 |
| 645930 | 4078183 | 0.09968 | 127.22 | 0 | 1-HR | New Development | RP_G19 |
| 646030 | 4077983 | 0.08956 | 131.21 | 0 | 1-HR | New Development | RP_G2 |
| 646030 | 4078183 | 0.10278 | 130.56 | 0 | 1-HR | New Development | RP_G20 |
| 646130 | 4078183 | 0.10453 | 133.89 | 0 | 1-HR | New Development | RP_G21 |
| 646230 | 4078183 | 0.1054 | 140.45 | 0 | 1-HR | New Development | RP_G22 |
| 646330 | 4078183 | 0.10454 | 146.94 | 0 | 1-HR | New Development | RP_G23 |
| 646430 | 4078183 | 0.09874 | 140.23 | 0 | 1-HR | New Development | RP_G24 |
| 646530 | 4078183 | 0.09411 | 147.25 | 0 | 1-HR | New Development | RP_G25 |
| 646630 | 4078183 | 0.0871 | 151.56 | 0 | 1-HR | New Development | RP_G26 |
| 646730 | 4078183 | 0.0789 | 157.78 | 0 | 1-HR | New Development | RP_G27 |
| 645930 | 4078283 | 0.10057 | 126.06 | 0 | 1-HR | New Development | RP_G28 |
| 646030 | 4078283 | 0.10091 | 129.56 | 0 | 1-HR | New Development | RP_G29 |
| 646130 | 4077983 | 0.09652 | 135.89 | 0 | 1-HR | New Development | RP_G3 |
| 646130 | 4078283 | 0.09966 | 132.89 | 0 | 1-HR | New Development | RP_G30 |
| 646230 | 4078283 | 0.09737 | 139.24 | 0 | 1-HR | New Development | RP_G31 |
| 646330 | 4078283 | 0.09279 | 142.68 | 0 | 1-HR | New Development | RP_G32 |
| 646430 | 4078283 | 0.08542 | 140.02 | 0 | 1-HR | New Development | RP_G33 |
| 646530 | 4078283 | 0.07849 | 147.22 | 0 | 1-HR | New Development | RP_G34 |
| 646630 | 4078283 | 0.07606 | 151.56 | 0 | 1-HR | New Development | RP_G35 |
| 646730 | 4078283 | 0.07856 | 156.78 | 0 | 1-HR | New Development | RP_G36 |
| 646230 | 4077983 | 0.10255 | 139.18 | 0 | 1-HR | New Development | RP_G4 |
| 646330 | 4077983 | 0.10712 | 140.76 | 0 | 1-HR | New Development | RP_G5 |
| 646430 | 4077983 | 0.11059 | 143.89 | 0 | 1-HR | New Development | RP_G6 |
| 646530 | 4077983 | 0.11181 | 145.22 | 0 | 1-HR | New Development | RP_G7 |
| 646630 | 4077983 | 0.11106 | 147.21 | 0 | 1-HR | New Development | RP_G8 |
| 646730 | 4077983 | 0.10771 | 148.3 | 0 | 1-HR | New Development | RP_G9 |
| 648659 | 4077241 | 0.16669 | 205.79 | 0 | 1-HR | House 1 | RP_H1 |
| 648071 | 4076116 | 0.06882 | 169.6 | 0 | 1-HR | House 10 | RP_H10 |
| 648247 | 4076278 | 0.07803 | 184.55 | 0 | 1-HR | House 11 | RP_H11 |
| 648027 | 4076255 | 0.07219 | 169.38 | 0 | 1-HR | House 12 | RP_H12 |
| 648066 | 4076359 | 0.07135 | 173.83 | 0 | 1-HR | House 13 | RP_H13 |

09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 1-hr 2020

08:27:03

- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|-------------|--------|------|
| 648139 | 4076400 | 0.07172 | 178.22 | 0 | 1-HR | House 14 | RP_H14 | |
| 648255 | 4076411 | 0.07596 | 191.28 | 0 | 1-HR | House 15 | RP_H15 | |
| 647878 | 4076365 | 0.06518 | 165.39 | 0 | 1-HR | House 16 | RP_H16 | |
| 647520 | 4076206 | 0.06107 | 159 | 0 | 1-HR | House 17 | RP_H17 | |
| 647921 | 4076247 | 0.06943 | 164 | 0 | 1-HR | House 18 | RP_H18 | |
| 647709 | 4076352 | 0.0614 | 163.52 | 0 | 1-HR | House 19 | RP_H19 | |
| 648372 | 4075470 | 0.17081 | 173.69 | 0 | 1-HR | House 2 | RP_H2 | MEIR |
| 647704 | 4076251 | 0.06451 | 162.17 | 0 | 1-HR | House 20 | RP_H20 | |
| 647719 | 4076104 | 0.06447 | 159.35 | 0 | 1-HR | House 21 | RP_H21 | |
| 647843 | 4076125 | 0.0669 | 163 | 0 | 1-HR | House 22 | RP_H22 | |
| 647842 | 4076500 | 0.05556 | 167.93 | 0 | 1-HR | House 23 | RP_H23 | |
| 647728 | 4076644 | 0.08381 | 164.15 | 0 | 1-HR | House 24 | RP_H24 | |
| 647824 | 4076644 | 0.08865 | 168.29 | 0 | 1-HR | House 25 | RP_H25 | |
| 647530 | 4076497 | 0.04924 | 159.56 | 0 | 1-HR | House 26 | RP_H26 | |
| 647810 | 4076854 | 0.13124 | 162.9 | 0 | 1-HR | House 27 | RP_H27 | |
| 647697 | 4076989 | 0.12595 | 161.42 | 0 | 1-HR | House 28 | RP_H28 | |
| 648226 | 4076182 | 0.07428 | 183.22 | 0 | 1-HR | House 29 | RP_H29 | |
| 647678 | 4075969 | 0.05972 | 159.5 | 0 | 1-HR | House 3 | RP_H3 | |
| 645876 | 4077487 | 0.07995 | 127.13 | 0 | 1-HR | House 30 | RP_H30 | |
| 650902 | 4076062 | 0.11531 | 215.24 | 0 | 1-HR | House 31 | RP_H31 | |
| 651490 | 4076597 | 0.06495 | 205.5 | 0 | 1-HR | House 32 | RP_H32 | |
| 651565 | 4077067 | 0.06529 | 213.93 | 0 | 1-HR | House 33 | RP_H33 | |
| 648673 | 4075307 | 0.08083 | 225.91 | 0 | 1-HR | House 34 | RP_H34 | |
| 648384 | 4075469 | 0.16967 | 174.44 | 0 | 1-HR | House 35 | RP_H35 | |
| 646379 | 4077233 | 0.09589 | 146 | 0 | 1-HR | House 36 | RP_H36 | |
| 651850 | 4075865 | 0.09541 | 201.97 | 0 | 1-HR | House 37 | RP_H37 | |
| 652045 | 4076210 | 0.0575 | 196.88 | 0 | 1-HR | House 38 | RP_H38 | |
| 652256 | 4076391 | 0.04425 | 197.06 | 0 | 1-HR | House 39 | RP_H39 | |
| 647815 | 4075985 | 0.06087 | 162.04 | 0 | 1-HR | House 4 | RP_H4 | |
| 646854 | 4077373 | 0.08499 | 145.99 | 0 | 1-HR | House 40 | RP_H40 | |
| 647050 | 4077360 | 0.08109 | 145 | 0 | 1-HR | House 41 | RP_H41 | |
| 647286 | 4077474 | 0.1127 | 149.68 | 0 | 1-HR | House 42 | RP_H42 | |

09/30/21

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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 647359 | 4077340 | 0.09478 | 154.45 | 0 | 1-HR | House 43 | RP_H43 |
| 647490 | 4077329 | 0.10679 | 162.28 | 0 | 1-HR | House 44 | RP_H44 |
| 647522 | 4077252 | 0.09168 | 164.3 | 0 | 1-HR | House 45 | RP_H45 |
| 647518 | 4077139 | 0.10782 | 164.01 | 0 | 1-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.09979 | 151.53 | 0 | 1-HR | House 47 | RP_H47 |
| 646779 | 4077128 | 0.1072 | 158.51 | 0 | 1-HR | House 48 | RP_H48 |
| 646987 | 4077213 | 0.10224 | 146.44 | 0 | 1-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.06359 | 163.83 | 0 | 1-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.09876 | 154.85 | 0 | 1-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.10592 | 159 | 0 | 1-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.11042 | 148.99 | 0 | 1-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.11306 | 158.62 | 0 | 1-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.09976 | 158.67 | 0 | 1-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.10739 | 152.34 | 0 | 1-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.1202 | 160.22 | 0 | 1-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.12249 | 161.26 | 0 | 1-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.0999 | 156.81 | 0 | 1-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.08694 | 156.21 | 0 | 1-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.06225 | 168.26 | 0 | 1-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.09226 | 154.38 | 0 | 1-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.11908 | 162.49 | 0 | 1-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.09991 | 158 | 0 | 1-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.12039 | 159.45 | 0 | 1-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.1038 | 159.32 | 0 | 1-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.0482 | 159 | 0 | 1-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.0328 | 179.58 | 0 | 1-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.08241 | 146.77 | 0 | 1-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.06707 | 156.07 | 0 | 1-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.08184 | 159 | 0 | 1-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.06477 | 171.51 | 0 | 1-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.07124 | 159.9 | 0 | 1-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.07089 | 183.42 | 0 | 1-HR | House 8 | RP_H8 |

09/30/21

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- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|-------|
| 648219 | 4076109 | 0.06909 | 182.28 | 0 | 1-HR | House 9 | RP_H9 |

09/29/21

* AERMET (21112): Future Flare (Grnd Lvl) SO2 1-yr 2020

13:27:06

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|--------|------------------------------------|----------|----------|
| 645996 | 4078698 | 0.00071 | 123.85 | 0 | ANNUAL | AQ Monitoring Station | AQ_ST_1 | |
| 643904 | 4077719 | 0.00019 | 105.68 | 0 | ANNUAL | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642057 | 4079416 | 0.00026 | 85.12 | 0 | ANNUAL | Dunne Park | CR_PK_1 | |
| 642179 | 4079950 | 0.00034 | 117.99 | 0 | ANNUAL | Vista Park Hill Park | CR_PK_2 | |
| 644733 | 4078753 | 0.00041 | 106.44 | 0 | ANNUAL | Las Brisas Park | CR_PK_3 | |
| 645609 | 4078854 | 0.00065 | 112.86 | 0 | ANNUAL | Frank Klauer Memorial Park | CR_PK_4 | |
| 644238 | 4078807 | 0.00035 | 95.25 | 0 | ANNUAL | Veterans Memorial Park | CR_PK_5 | |
| 645311 | 4076559 | 0.00016 | 134.61 | 0 | ANNUAL | Park 6 | CR_PK_6 | |
| 649582 | 4073424 | 0.00072 | 159.96 | 0 | ANNUAL | Park 7 | CR_PK_7 | |
| 645145 | 4077181 | 0.00019 | 133 | 0 | ANNUAL | Cerra Vista Elem School | CR_SC_1 | |
| 642905 | 4079955 | 0.00043 | 86 | 0 | ANNUAL | San Andreas Continuation | CR_SC_10 | |
| 645851 | 4074015 | 0.00012 | 123 | 0 | ANNUAL | SouthSide School | CR_SC_11 | |
| 642106 | 4078176 | 0.00018 | 91 | 0 | ANNUAL | School 12 | CR_SC_12 | |
| 646059 | 4078443 | 0.00062 | 128.52 | 0 | ANNUAL | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.00017 | 158 | 0 | ANNUAL | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.00022 | 159 | 0 | ANNUAL | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644110 | 4078389 | 0.00027 | 98.2 | 0 | ANNUAL | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.00018 | 101.23 | 0 | ANNUAL | Hollister Montessori School | CR_SC_3 | |
| 642961 | 4078621 | 0.00023 | 92 | 0 | ANNUAL | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.00054 | 88 | 0 | ANNUAL | Marguerite Maze Middle School | CR_SC_5 | |
| 641630 | 4079153 | 0.00023 | 85 | 0 | ANNUAL | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.00017 | 98.22 | 0 | ANNUAL | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.00061 | 87 | 0 | ANNUAL | Gabilan Hills Elementary School | CR_SC_8 | |
| 642245 | 4078413 | 0.00019 | 90.17 | 0 | ANNUAL | San Benito High School | CR_SC_9 | |
| 642083 | 4079794 | 0.0003 | 87.58 | 0 | ANNUAL | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.00021 | 146.33 | 0 | ANNUAL | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 0.00069 | 189.45 | 0 | ANNUAL | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 0.00106 | 155.2 | 0 | ANNUAL | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.00021 | 160 | 0 | ANNUAL | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.00393 | 252.9 | 0 | ANNUAL | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.00069 | 165.9 | 0 | ANNUAL | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.00095 | 159.6 | 0 | ANNUAL | Grid Receptor 12 | G12 | |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|--------|------------------|-----|
| 648144 | 4078373 | 0.00136 | 146.2 | 0 | ANNUAL | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.0018 | 158.3 | 0 | ANNUAL | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.00173 | 166.6 | 0 | ANNUAL | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.001 | 175.4 | 0 | ANNUAL | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.00049 | 177.1 | 0 | ANNUAL | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.00033 | 178 | 0 | ANNUAL | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.00028 | 173 | 0 | ANNUAL | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.00134 | 145.4 | 0 | ANNUAL | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.00026 | 168.8 | 0 | ANNUAL | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.00044 | 173.5 | 0 | ANNUAL | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.00056 | 166.2 | 0 | ANNUAL | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.00077 | 145.4 | 0 | ANNUAL | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.00134 | 173.9 | 0 | ANNUAL | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.00239 | 179.6 | 0 | ANNUAL | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.00255 | 191 | 0 | ANNUAL | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.00106 | 209.2 | 0 | ANNUAL | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.00071 | 233.7 | 0 | ANNUAL | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.00046 | 199.9 | 0 | ANNUAL | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.00154 | 144.4 | 0 | ANNUAL | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.00035 | 195.5 | 0 | ANNUAL | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.00029 | 190.4 | 0 | ANNUAL | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.00034 | 165.4 | 0 | ANNUAL | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.00044 | 159.6 | 0 | ANNUAL | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.00066 | 183.5 | 0 | ANNUAL | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.00131 | 224 | 0 | ANNUAL | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.00136 | 205 | 0 | ANNUAL | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.0008 | 208.8 | 0 | ANNUAL | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.00143 | 134.6 | 0 | ANNUAL | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00047 | 185.6 | 0 | ANNUAL | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00022 | 187.4 | 0 | ANNUAL | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.00024 | 160.9 | 0 | ANNUAL | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.0003 | 200.5 | 0 | ANNUAL | Grid Receptor 43 | G43 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|--------|------------------|-----|
| 649344 | 4077973 | 0.00043 | 229 | 0 | ANNUAL | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.0023 | 253.3 | 0 | ANNUAL | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.01236 | 220.2 | 0 | ANNUAL | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.00233 | 227.2 | 0 | ANNUAL | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.00099 | 163.8 | 0 | ANNUAL | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.00106 | 205.5 | 0 | ANNUAL | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.0002 | 176.1 | 0 | ANNUAL | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00022 | 195 | 0 | ANNUAL | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00025 | 196.1 | 0 | ANNUAL | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.0003 | 215.3 | 0 | ANNUAL | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.00039 | 221.6 | 0 | ANNUAL | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.01559 | 211.7 | 0 | ANNUAL | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.01267 | 237.7 | 0 | ANNUAL | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.00056 | 158.4 | 0 | ANNUAL | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.00303 | 204.2 | 0 | ANNUAL | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.00018 | 173 | 0 | ANNUAL | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.00019 | 171 | 0 | ANNUAL | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00021 | 204.6 | 0 | ANNUAL | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.00024 | 216.5 | 0 | ANNUAL | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.00125 | 257.7 | 0 | ANNUAL | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.0051 | 231.4 | 0 | ANNUAL | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.01128 | 249.4 | 0 | ANNUAL | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.00033 | 164.7 | 0 | ANNUAL | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.00539 | 216.4 | 0 | ANNUAL | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00016 | 177 | 0 | ANNUAL | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00016 | 180.9 | 0 | ANNUAL | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00017 | 196.6 | 0 | ANNUAL | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.00029 | 236.9 | 0 | ANNUAL | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.00099 | 261.3 | 0 | ANNUAL | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.00675 | 260.9 | 0 | ANNUAL | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.00412 | 226.7 | 0 | ANNUAL | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.00025 | 164 | 0 | ANNUAL | Grid Receptor 8 | G8 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------------|-----|
| 650544 | 4075573 | 0.01034 | 268.2 | 0 | ANNUAL | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.00013 | 181.3 | 0 | ANNUAL | Grid Receptor 81 | G81 |
| 650944 | 4078773 | 0.00014 | 178.4 | 0 | ANNUAL | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00017 | 214.8 | 0 | ANNUAL | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.00056 | 249.9 | 0 | ANNUAL | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.00096 | 276.5 | 0 | ANNUAL | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.00058 | 225.6 | 0 | ANNUAL | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.00106 | 219.8 | 0 | ANNUAL | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.0019 | 209.2 | 0 | ANNUAL | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.00262 | 216.6 | 0 | ANNUAL | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.00021 | 160.7 | 0 | ANNUAL | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.00429 | 243.2 | 0 | ANNUAL | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00012 | 191 | 0 | ANNUAL | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00014 | 181 | 0 | ANNUAL | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.0002 | 214.3 | 0 | ANNUAL | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.00038 | 248.4 | 0 | ANNUAL | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.00038 | 213.2 | 0 | ANNUAL | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.00059 | 213.6 | 0 | ANNUAL | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.00094 | 203.5 | 0 | ANNUAL | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.0015 | 205.6 | 0 | ANNUAL | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.00194 | 205.8 | 0 | ANNUAL | Grid Receptor 99 | G99 |
| 648584 | 4077523 | 0.00252 | 183.61 | 0 | ANNUAL | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 0.00174 | 254.01 | 0 | ANNUAL | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.00053 | 235.3 | 0 | ANNUAL | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.00042 | 221.29 | 0 | ANNUAL | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00039 | 222.37 | 0 | ANNUAL | Boundary Perimeter 13 | P13 |
| 649884 | 4077542 | 0.00043 | 233.6 | 0 | ANNUAL | Boundary Perimeter 14 | P14 |
| 649984 | 4077543 | 0.00103 | 249.54 | 0 | ANNUAL | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 0.0015 | 258.89 | 0 | ANNUAL | Boundary Perimeter 16 | P16 |
| 650184 | 4077548 | 0.00125 | 259.56 | 0 | ANNUAL | Boundary Perimeter 17 | P17 |
| 650284 | 4077550 | 0.0011 | 256.77 | 0 | ANNUAL | Boundary Perimeter 18 | P18 |
| 650384 | 4077552 | 0.00051 | 242.37 | 0 | ANNUAL | Boundary Perimeter 19 | P19 |

09/29/21

* AERMET (21112): Future Flare (Grnd Lvl) SO2 1-yr 2020

13:27:06

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------------|-----|
| 648684 | 4077525 | 0.00241 | 197.16 | 0 | ANNUAL | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.00048 | 242.23 | 0 | ANNUAL | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.00084 | 259.71 | 0 | ANNUAL | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.0007 | 257.58 | 0 | ANNUAL | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.00089 | 267.9 | 0 | ANNUAL | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.00107 | 275.91 | 0 | ANNUAL | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.00133 | 265.73 | 0 | ANNUAL | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.00104 | 251.08 | 0 | ANNUAL | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.00132 | 252.83 | 0 | ANNUAL | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.0012 | 246.1 | 0 | ANNUAL | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.00122 | 241.37 | 0 | ANNUAL | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.00213 | 209.74 | 0 | ANNUAL | Boundary Perimeter 3 | P3 |
| 650791 | 4076854 | 0.00181 | 246.79 | 0 | ANNUAL | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.00122 | 228.75 | 0 | ANNUAL | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.00133 | 217.76 | 0 | ANNUAL | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.00149 | 221.2 | 0 | ANNUAL | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.00156 | 220.83 | 0 | ANNUAL | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.00159 | 223.42 | 0 | ANNUAL | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.00158 | 222.46 | 0 | ANNUAL | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.00166 | 223.19 | 0 | ANNUAL | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.0018 | 222.1 | 0 | ANNUAL | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.00201 | 217.03 | 0 | ANNUAL | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.00163 | 214.25 | 0 | ANNUAL | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.00254 | 214.82 | 0 | ANNUAL | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.00417 | 214.91 | 0 | ANNUAL | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.00697 | 214.09 | 0 | ANNUAL | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.01197 | 211.53 | 0 | ANNUAL | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.01993 | 210.17 | 0 | ANNUAL | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.02906 | 208.52 | 0 | ANNUAL | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.03607 | 207.5 | 0 | ANNUAL | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.02818 | 205.17 | 0 | ANNUAL | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.0041 | 202.16 | 0 | ANNUAL | Boundary Perimeter 48 | P48 |

PMI

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| 649226 4076535 0.00188 196.38 0 ANNUAL Boundary Perimeter 49 P49 648984 4077530 0.00127 221.41 0 ANNUAL Boundary Perimeter 5 P5 649156 4076605 0.00433 195.87 0 ANNUAL Boundary Perimeter 50 P50 649068 4076653 0.00448 196.32 0 ANNUAL Boundary Perimeter 51 P51 648987 4076711 0.00404 192.42 0 ANNUAL Boundary Perimeter 52 P52 648869 4076833 0.00397 192.46 0 ANNUAL Boundary Perimeter 53 P53 648797 4076902 0.00338 186.32 0 ANNUAL Boundary Perimeter 55 P55 648711 4076952 0.00266 179.81 0 ANNUAL Boundary Perimeter 56 P56 648621 4076996 0.00214 176.23 0 ANNUAL Boundary Perimeter 57 P57 648607 4077051 | Boundary Perimeter 5 Boundary Perimeter 50 Boundary Perimeter 51 Boundary Perimeter 52 Boundary Perimeter 53 Boundary Perimeter 54 Boundary Perimeter 55 Boundary Perimeter 55 | ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL | 0 0 0 0 0 | 221.41 195.87 196.32 | 0.00127 0.00433 0.00448 | 4077530 4076605 | 648984 649156 |
|---|--|--|-----------------------|----------------------------|-------------------------------|--------------------|------------------|
| 649156 4076605 0.00433 195.87 0 ANNUAL Boundary Perimeter 50 P50 649068 4076653 0.00448 196.32 0 ANNUAL Boundary Perimeter 51 P51 648987 4076711 0.00404 192.42 0 ANNUAL Boundary Perimeter 52 P52 648937 4076759 0.00397 192.46 0 ANNUAL Boundary Perimeter 53 P53 648869 4076833 0.00381 191.63 0 ANNUAL Boundary Perimeter 54 P54 648797 4076902 0.00338 186.32 0 ANNUAL Boundary Perimeter 55 P55 648711 4076952 0.00266 179.81 0 ANNUAL Boundary Perimeter 56 P56 648621 4076996 0.00214 176.23 0 ANNUAL Boundary Perimeter 57 P57 648607 4077119 0.00233 175.02 0 ANNUAL Boundary Perimeter 58 P58 648780 4077180 | Boundary Perimeter 50 Boundary Perimeter 51 Boundary Perimeter 52 Boundary Perimeter 53 Boundary Perimeter 54 Boundary Perimeter 55 Boundary Perimeter 55 | ANNUAL ANNUAL ANNUAL ANNUAL ANNUAL | 0 0 0 0 | 195.87 196.32 | 0.00433 0.00448 | 4076605 | 649156 |
| 649068 4076653 0.00448 196.32 0 ANNUAL Boundary Perimeter 51 P51 648987 4076711 0.00404 192.42 0 ANNUAL Boundary Perimeter 52 P52 648937 4076759 0.00397 192.46 0 ANNUAL Boundary Perimeter 53 P53 648869 4076833 0.00381 191.63 0 ANNUAL Boundary Perimeter 54 P54 648797 4076902 0.00338 186.32 0 ANNUAL Boundary Perimeter 55 P55 648711 4076952 0.00266 179.81 0 ANNUAL Boundary Perimeter 56 P56 648621 4076996 0.00214 176.23 0 ANNUAL Boundary Perimeter 58 P58 648607 4077051 0.00233 175.02 0 ANNUAL Boundary Perimeter 59 P59 649084 4077119 0.0033 180.62 0 ANNUAL Boundary Perimeter 69 P6 648759 4077180 | Boundary Perimeter 51 Boundary Perimeter 52 Boundary Perimeter 53 Boundary Perimeter 54 Boundary Perimeter 55 Boundary Perimeter 55 | ANNUAL ANNUAL ANNUAL | 0 0 0 | 196.32 | 0.00448 | | |
| 648987 4076711 0.00404 192.42 0 ANNUAL Boundary Perimeter 52 P52 648937 4076759 0.00397 192.46 0 ANNUAL Boundary Perimeter 53 P53 648869 4076833 0.00381 191.63 0 ANNUAL Boundary Perimeter 54 P54 648797 4076902 0.00338 186.32 0 ANNUAL Boundary Perimeter 55 P55 648711 4076952 0.00266 179.81 0 ANNUAL Boundary Perimeter 56 P56 648621 4076996 0.00214 176.23 0 ANNUAL Boundary Perimeter 57 P57 648607 4077051 0.00233 175.02 0 ANNUAL Boundary Perimeter 58 P58 648680 4077119 0.0033 180.62 0 ANNUAL Boundary Perimeter 69 P69 648759 4077180 0.00382 183.47 0 ANNUAL Boundary Perimeter 60 P60 648781 4077361 | Boundary Perimeter 52 Boundary Perimeter 53 Boundary Perimeter 54 Boundary Perimeter 55 Boundary Perimeter 56 | ANNUAL ANNUAL ANNUAL | 0 | | | 4076653 | (400(0 |
| 648937 4076759 0.00397 192.46 0 ANNUAL Boundary Perimeter 53 P53 648869 4076833 0.00381 191.63 0 ANNUAL Boundary Perimeter 54 P54 648797 4076902 0.00338 186.32 0 ANNUAL Boundary Perimeter 55 P55 648711 4076952 0.00266 179.81 0 ANNUAL Boundary Perimeter 56 P56 648621 4076996 0.00214 176.23 0 ANNUAL Boundary Perimeter 57 P57 648607 4077051 0.00233 175.02 0 ANNUAL Boundary Perimeter 58 P58 648680 4077119 0.0033 180.62 0 ANNUAL Boundary Perimeter 59 P59 649084 4077532 0.00098 216.54 0 ANNUAL Boundary Perimeter 6 P6 648759 4077180 0.00382 183.47 0 ANNUAL Boundary Perimeter 61 P61 648788 4077362 < | Boundary Perimeter 53 Boundary Perimeter 54 Boundary Perimeter 55 Boundary Perimeter 56 | ANNUAL ANNUAL | 0 | 192.42 | | | 649068 |
| 648869 4076833 0.00381 191.63 0 ANNUAL Boundary Perimeter 54 P54 648797 4076902 0.00338 186.32 0 ANNUAL Boundary Perimeter 55 P55 648711 4076952 0.00266 179.81 0 ANNUAL Boundary Perimeter 56 P56 648621 4076996 0.00214 176.23 0 ANNUAL Boundary Perimeter 57 P57 648607 4077051 0.00233 175.02 0 ANNUAL Boundary Perimeter 58 P58 648680 4077119 0.0033 180.62 0 ANNUAL Boundary Perimeter 59 P59 649084 4077532 0.00098 216.54 0 ANNUAL Boundary Perimeter 6 P6 648759 4077180 0.00382 183.47 0 ANNUAL Boundary Perimeter 60 P60 648781 4077362 0.00272 178.21 0 ANNUAL Boundary Perimeter 62 P62 648691 4077361 < | Boundary Perimeter 54 Boundary Perimeter 55 Boundary Perimeter 56 | ANNUAL | | | 0.00404 | 4076711 | 648987 |
| 648797 4076902 0.00338 186.32 0 ANNUAL Boundary Perimeter 55 P55 648711 4076952 0.00266 179.81 0 ANNUAL Boundary Perimeter 56 P56 648621 4076996 0.00214 176.23 0 ANNUAL Boundary Perimeter 57 P57 648607 4077051 0.00233 175.02 0 ANNUAL Boundary Perimeter 58 P58 648680 4077119 0.0033 180.62 0 ANNUAL Boundary Perimeter 59 P59 649084 4077532 0.00098 216.54 0 ANNUAL Boundary Perimeter 6 P6 648759 4077180 0.00382 183.47 0 ANNUAL Boundary Perimeter 60 P60 648791 4077262 0.0037 202.88 0 ANNUAL Boundary Perimeter 61 P61 648691 4077361 0.00295 176.25 0 ANNUAL Boundary Perimeter 63 P63 648526 4077371 <t< td=""><td>Boundary Perimeter 55 Boundary Perimeter 56</td><td></td><td></td><td>192.46</td><td>0.00397</td><td>4076759</td><td>648937</td></t<> | Boundary Perimeter 55 Boundary Perimeter 56 | | | 192.46 | 0.00397 | 4076759 | 648937 |
| 648711 4076952 0.00266 179.81 0 ANNUAL Boundary Perimeter 56 P56 648621 4076996 0.00214 176.23 0 ANNUAL Boundary Perimeter 57 P57 648607 4077051 0.00233 175.02 0 ANNUAL Boundary Perimeter 58 P58 648680 4077119 0.0033 180.62 0 ANNUAL Boundary Perimeter 59 P59 649084 4077532 0.00098 216.54 0 ANNUAL Boundary Perimeter 6 P6 648759 4077180 0.00382 183.47 0 ANNUAL Boundary Perimeter 60 P60 648791 4077262 0.0037 202.88 0 ANNUAL Boundary Perimeter 61 P61 648788 4077362 0.00272 178.21 0 ANNUAL Boundary Perimeter 62 P62 648591 4077357 0.00287 176 0 ANNUAL Boundary Perimeter 64 P64 648526 4077371 0 | Boundary Perimeter 56 | ANNUAL | 0 | 191.63 | 0.00381 | 4076833 | 648869 |
| 648621 4076996 0.00214 176.23 0 ANNUAL Boundary Perimeter 57 P57 648607 4077051 0.00233 175.02 0 ANNUAL Boundary Perimeter 58 P58 648680 4077119 0.0033 180.62 0 ANNUAL Boundary Perimeter 59 P59 649084 4077532 0.00098 216.54 0 ANNUAL Boundary Perimeter 6 P6 648759 4077180 0.00382 183.47 0 ANNUAL Boundary Perimeter 60 P60 648791 4077262 0.0037 202.88 0 ANNUAL Boundary Perimeter 61 P61 648788 4077362 0.00272 178.21 0 ANNUAL Boundary Perimeter 62 P62 648691 4077361 0.00295 176.25 0 ANNUAL Boundary Perimeter 63 P63 648526 4077371 0.00267 175.24 0 ANNUAL Boundary Perimeter 65 P65 648587 4077430 <t< td=""><td></td><td></td><td>0</td><td>186.32</td><td>0.00338</td><td>4076902</td><td>648797</td></t<> | | | 0 | 186.32 | 0.00338 | 4076902 | 648797 |
| 648607 4077051 0.00233 175.02 0 ANNUAL Boundary Perimeter 58 P58 648680 4077119 0.0033 180.62 0 ANNUAL Boundary Perimeter 59 P59 649084 4077532 0.00098 216.54 0 ANNUAL Boundary Perimeter 6 P6 648759 4077180 0.00382 183.47 0 ANNUAL Boundary Perimeter 60 P60 648791 4077262 0.0037 202.88 0 ANNUAL Boundary Perimeter 61 P61 648788 4077362 0.00272 178.21 0 ANNUAL Boundary Perimeter 62 P62 648691 4077361 0.00295 176.25 0 ANNUAL Boundary Perimeter 63 P63 648591 4077357 0.00287 176 0 ANNUAL Boundary Perimeter 64 P64 648526 4077371 0.00267 175.24 0 ANNUAL Boundary Perimeter 65 P65 648587 4077430 0 | | ANNUAL | 0 | 179.81 | 0.00266 | 4076952 | 648711 |
| 648680 4077119 0.0033 180.62 0 ANNUAL Boundary Perimeter 59 P59 649084 4077532 0.00098 216.54 0 ANNUAL Boundary Perimeter 6 P6 648759 4077180 0.00382 183.47 0 ANNUAL Boundary Perimeter 60 P60 648791 4077262 0.0037 202.88 0 ANNUAL Boundary Perimeter 61 P61 648788 4077362 0.00272 178.21 0 ANNUAL Boundary Perimeter 62 P62 648691 4077361 0.00295 176.25 0 ANNUAL Boundary Perimeter 63 P63 648591 4077357 0.00287 176 0 ANNUAL Boundary Perimeter 64 P64 648526 4077371 0.00267 175.24 0 ANNUAL Boundary Perimeter 65 P65 648587 4077430 0.00272 175.13 0 ANNUAL Boundary Perimeter 66 P66 | Boundary Perimeter 57 | ANNUAL | 0 | 176.23 | 0.00214 | 4076996 | 648621 |
| 649084 4077532 0.00098 216.54 0 ANNUAL Boundary Perimeter 6 P6 648759 4077180 0.00382 183.47 0 ANNUAL Boundary Perimeter 60 P60 648791 4077262 0.0037 202.88 0 ANNUAL Boundary Perimeter 61 P61 648788 4077362 0.00272 178.21 0 ANNUAL Boundary Perimeter 62 P62 648691 4077361 0.00295 176.25 0 ANNUAL Boundary Perimeter 63 P63 648591 4077357 0.00287 176 0 ANNUAL Boundary Perimeter 64 P64 648526 4077371 0.00267 175.24 0 ANNUAL Boundary Perimeter 65 P65 648587 4077430 0.00272 175.13 0 ANNUAL Boundary Perimeter 66 P66 | Boundary Perimeter 58 | ANNUAL | 0 | 175.02 | 0.00233 | 4077051 | 648607 |
| 648759 4077180 0.00382 183.47 0 ANNUAL Boundary Perimeter 60 P60 648791 4077262 0.0037 202.88 0 ANNUAL Boundary Perimeter 61 P61 648788 4077362 0.00272 178.21 0 ANNUAL Boundary Perimeter 62 P62 648691 4077361 0.00295 176.25 0 ANNUAL Boundary Perimeter 63 P63 648591 4077357 0.00287 176 0 ANNUAL Boundary Perimeter 64 P64 648526 4077371 0.00267 175.24 0 ANNUAL Boundary Perimeter 65 P65 648587 4077430 0.00272 175.13 0 ANNUAL Boundary Perimeter 66 P66 | Boundary Perimeter 59 | ANNUAL | 0 | 180.62 | 0.0033 | 4077119 | 648680 |
| 648791 4077262 0.0037 202.88 0 ANNUAL Boundary Perimeter 61 P61 648788 4077362 0.00272 178.21 0 ANNUAL Boundary Perimeter 62 P62 648691 4077361 0.00295 176.25 0 ANNUAL Boundary Perimeter 63 P63 648591 4077357 0.00287 176 0 ANNUAL Boundary Perimeter 64 P64 648526 4077371 0.00267 175.24 0 ANNUAL Boundary Perimeter 65 P65 648587 4077430 0.00272 175.13 0 ANNUAL Boundary Perimeter 66 P66 | Boundary Perimeter 6 | ANNUAL | 0 | 216.54 | 0.00098 | 4077532 | 649084 |
| 648788 4077362 0.00272 178.21 0 ANNUAL Boundary Perimeter 62 P62 648691 4077361 0.00295 176.25 0 ANNUAL Boundary Perimeter 63 P63 648591 4077357 0.00287 176 0 ANNUAL Boundary Perimeter 64 P64 648526 4077371 0.00267 175.24 0 ANNUAL Boundary Perimeter 65 P65 648587 4077430 0.00272 175.13 0 ANNUAL Boundary Perimeter 66 P66 | Boundary Perimeter 60 | ANNUAL | 0 | 183.47 | 0.00382 | 4077180 | 648759 |
| 648691 4077361 0.00295 176.25 0 ANNUAL Boundary Perimeter 63 P63 648591 4077357 0.00287 176 0 ANNUAL Boundary Perimeter 64 P64 648526 4077371 0.00267 175.24 0 ANNUAL Boundary Perimeter 65 P65 648587 4077430 0.00272 175.13 0 ANNUAL Boundary Perimeter 66 P66 | Boundary Perimeter 61 | ANNUAL | 0 | 202.88 | 0.0037 | 4077262 | 648791 |
| 648591 4077357 0.00287 176 0 ANNUAL Boundary Perimeter 64 P64 648526 4077371 0.00267 175.24 0 ANNUAL Boundary Perimeter 65 P65 648587 4077430 0.00272 175.13 0 ANNUAL Boundary Perimeter 66 P66 | Boundary Perimeter 62 | ANNUAL | 0 | 178.21 | 0.00272 | 4077362 | 648788 |
| 648526 4077371 0.00267 175.24 0 ANNUAL Boundary Perimeter 65 P65 648587 4077430 0.00272 175.13 0 ANNUAL Boundary Perimeter 66 P66 | Boundary Perimeter 63 | ANNUAL | 0 | 176.25 | 0.00295 | 4077361 | 648691 |
| 648587 4077430 0.00272 175.13 0 ANNUAL Boundary Perimeter 66 P66 | Boundary Perimeter 64 | ANNUAL | 0 | 176 | 0.00287 | 4077357 | 648591 |
| · | Boundary Perimeter 65 | ANNUAL | 0 | 175.24 | 0.00267 | 4077371 | 648526 |
| | Boundary Perimeter 66 | ANNUAL | 0 | 175.13 | 0.00272 | 4077430 | 648587 |
| 649184 4077534 0.00086 230.71 0 ANNUAL Boundary Perimeter 7 P7 | Boundary Perimeter 7 | ANNUAL | 0 | 230.71 | 0.00086 | 4077534 | 649184 |
| 649284 4077535 0.00172 248.08 0 ANNUAL Boundary Perimeter 8 P8 | Boundary Perimeter 8 | ANNUAL | 0 | 248.08 | 0.00172 | 4077535 | 649284 |
| 649384 4077536 0.00306 258.43 0 ANNUAL Boundary Perimeter 9 P9 | Boundary Perimeter 9 | ANNUAL | 0 | 258.43 | 0.00306 | 4077536 | 649384 |
| 645930 4077983 0.00038 127.38 0 ANNUAL New Development RP_G | New Development | ANNUAL | 0 | 127.38 | 0.00038 | 4077983 | 645930 |
| 645930 4078083 0.00042 127.58 0 ANNUAL New Development RP_G1 | New Development | ANNUAL | 0 | 127.58 | 0.00042 | 4078083 | 645930 |
| 646030 4078083 0.00045 130.56 0 ANNUAL New Development RP_G1 | New Development | ANNUAL | 0 | 130.56 | 0.00045 | 4078083 | 646030 |
| 646130 4078083 0.00048 134.35 0 ANNUAL New Development RP_G1 | New Development | | 0 | 134.35 | 0.00048 | 4078083 | |
| 646230 4078083 0.00051 139.22 0 ANNUAL New Development RP_G1 | New Development | ANNUAL | 0 | 139.22 | 0.00051 | 4078083 | 646230 |
| 646330 4078083 0.00055 144.65 0 ANNUAL New Development RP_G1 | New Development | | 0 | 144.65 | | 4078083 | |
| 646430 4078083 0.00058 142.28 0 ANNUAL New Development RP_G1 | New Development | ANNUAL | 0 | 142.28 | 0.00058 | 4078083 | 646430 |
| 646530 4078083 0.00062 146.76 0 ANNUAL New Development RP_G1 | New Development | | | | | 4078083 | |
| 646630 4078083 0.00066 150.64 0 ANNUAL New Development RP_G1 | New Development | ANNUAL | 0 | 150.64 | 0.00066 | 4078083 | 646630 |

09/29/21

* AERMET (21112): Future Flare (Grnd Lvl) SO2 1-yr 2020

13:27:06

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-----------------|--------|
| 646730 | 4078083 | 0.0007 | 155.4 | 0 | ANNUAL | New Development | RP G18 |
| 645930 | 4078183 | 0.00047 | 127.22 | 0 | ANNUAL | New Development | RP G19 |
| 646030 | 4077983 | 0.00041 | 131.21 | 0 | ANNUAL | New Development | RP_G2 |
| 646030 | 4078183 | 0.0005 | 130.56 | 0 | ANNUAL | New Development | RP_G20 |
| 646130 | 4078183 | 0.00053 | 133.89 | 0 | ANNUAL | New Development | RP_G21 |
| 646230 | 4078183 | 0.00056 | 140.45 | 0 | ANNUAL | New Development | RP_G22 |
| 646330 | 4078183 | 0.0006 | 146.94 | 0 | ANNUAL | New Development | RP_G23 |
| 646430 | 4078183 | 0.00063 | 140.23 | 0 | ANNUAL | New Development | RP_G24 |
| 646530 | 4078183 | 0.00067 | 147.25 | 0 | ANNUAL | New Development | RP_G25 |
| 646630 | 4078183 | 0.00071 | 151.56 | 0 | ANNUAL | New Development | RP_G26 |
| 646730 | 4078183 | 0.00075 | 157.78 | 0 | ANNUAL | New Development | RP_G27 |
| 645930 | 4078283 | 0.00052 | 126.06 | 0 | ANNUAL | New Development | RP_G28 |
| 646030 | 4078283 | 0.00055 | 129.56 | 0 | ANNUAL | New Development | RP_G29 |
| 646130 | 4077983 | 0.00043 | 135.89 | 0 | ANNUAL | New Development | RP_G3 |
| 646130 | 4078283 | 0.00058 | 132.89 | 0 | ANNUAL | New Development | RP_G30 |
| 646230 | 4078283 | 0.00061 | 139.24 | 0 | ANNUAL | New Development | RP_G31 |
| 646330 | 4078283 | 0.00064 | 142.68 | 0 | ANNUAL | New Development | RP_G32 |
| 646430 | 4078283 | 0.00068 | 140.02 | 0 | ANNUAL | New Development | RP_G33 |
| 646530 | 4078283 | 0.00072 | 147.22 | 0 | ANNUAL | New Development | RP_G34 |
| 646630 | 4078283 | 0.00076 | 151.56 | 0 | ANNUAL | New Development | RP_G35 |
| 646730 | 4078283 | 0.00081 | 156.78 | 0 | ANNUAL | New Development | RP_G36 |
| 646230 | 4077983 | 0.00046 | 139.18 | 0 | ANNUAL | New Development | RP_G4 |
| 646330 | 4077983 | 0.00049 | 140.76 | 0 | ANNUAL | New Development | RP_G5 |
| 646430 | 4077983 | 0.00053 | 143.89 | 0 | ANNUAL | New Development | RP_G6 |
| 646530 | 4077983 | 0.00056 | 145.22 | 0 | ANNUAL | New Development | RP_G7 |
| 646630 | 4077983 | 0.0006 | 147.21 | 0 | ANNUAL | New Development | RP_G8 |
| 646730 | 4077983 | 0.00064 | 148.3 | 0 | ANNUAL | New Development | RP_G9 |
| 648659 | 4077241 | 0.00363 | 205.79 | 0 | ANNUAL | House 1 | RP_H1 |
| 648071 | 4076116 | 0.00027 | 169.6 | 0 | ANNUAL | House 10 | RP_H10 |
| 648247 | 4076278 | 0.00035 | 184.55 | 0 | ANNUAL | House 11 | RP_H11 |
| 648027 | 4076255 | 0.00028 | 169.38 | 0 | ANNUAL | House 12 | RP_H12 |
| 648066 | 4076359 | 0.00031 | 173.83 | 0 | ANNUAL | House 13 | RP_H13 |

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09/29/21

* AERMET (21112): Future Flare (Grnd Lvl) SO2 1-yr 2020

13:27:06

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|--------|
| 648139 | 4076400 | 0.00034 | 178.22 | 0 | ANNUAL | House 14 | RP_H14 |
| 648255 | 4076411 | 0.00039 | 191.28 | 0 | ANNUAL | House 15 | RP_H15 |
| 647878 | 4076365 | 0.00027 | 165.39 | 0 | ANNUAL | House 16 | RP_H16 |
| 647520 | 4076206 | 0.0002 | 159 | 0 | ANNUAL | House 17 | RP_H17 |
| 647921 | 4076247 | 0.00025 | 164 | 0 | ANNUAL | House 18 | RP_H18 |
| 647709 | 4076352 | 0.00024 | 163.52 | 0 | ANNUAL | House 19 | RP_H19 |
| 648372 | 4075470 | 0.00029 | 173.69 | 0 | ANNUAL | House 2 | RP_H2 |
| 647704 | 4076251 | 0.00022 | 162.17 | 0 | ANNUAL | House 20 | RP_H20 |
| 647719 | 4076104 | 0.00021 | 159.35 | 0 | ANNUAL | House 21 | RP_H21 |
| 647843 | 4076125 | 0.00023 | 163 | 0 | ANNUAL | House 22 | RP_H22 |
| 647842 | 4076500 | 0.00029 | 167.93 | 0 | ANNUAL | House 23 | RP_H23 |
| 647728 | 4076644 | 0.0003 | 164.15 | 0 | ANNUAL | House 24 | RP_H24 |
| 647824 | 4076644 | 0.00032 | 168.29 | 0 | ANNUAL | House 25 | RP_H25 |
| 647530 | 4076497 | 0.00024 | 159.56 | 0 | ANNUAL | House 26 | RP_H26 |
| 647810 | 4076854 | 0.00038 | 162.9 | 0 | ANNUAL | House 27 | RP_H27 |
| 647697 | 4076989 | 0.00041 | 161.42 | 0 | ANNUAL | House 28 | RP_H28 |
| 648226 | 4076182 | 0.00033 | 183.22 | 0 | ANNUAL | House 29 | RP_H29 |
| 647678 | 4075969 | 0.0002 | 159.5 | 0 | ANNUAL | House 3 | RP_H3 |
| 645876 | 4077487 | 0.00026 | 127.13 | 0 | ANNUAL | House 30 | RP_H30 |
| 650902 | 4076062 | 0.00257 | 215.24 | 0 | ANNUAL | House 31 | RP_H31 |
| 651490 | 4076597 | 0.00117 | 205.5 | 0 | ANNUAL | House 32 | RP_H32 |
| 651565 | 4077067 | 0.00069 | 213.93 | 0 | ANNUAL | House 33 | RP_H33 |
| 648673 | 4075307 | 0.00038 | 225.91 | 0 | ANNUAL | House 34 | RP_H34 |
| 648384 | 4075469 | 0.00029 | 174.44 | 0 | ANNUAL | House 35 | RP_H35 |
| 646379 | 4077233 | 0.00026 | 146 | 0 | ANNUAL | House 36 | RP_H36 |
| 651850 | 4075865 | 0.00158 | 201.97 | 0 | ANNUAL | House 37 | RP_H37 |
| 652045 | 4076210 | 0.00122 | 196.88 | 0 | ANNUAL | House 38 | RP_H38 |
| 652256 | 4076391 | 0.00107 | 197.06 | 0 | ANNUAL | House 39 | RP_H39 |
| 647815 | 4075985 | 0.00022 | 162.04 | 0 | ANNUAL | House 4 | RP_H4 |
| 646854 | 4077373 | 0.00035 | 145.99 | 0 | ANNUAL | House 40 | RP_H40 |
| 647050 | 4077360 | 0.00039 | 145 | 0 | ANNUAL | House 41 | RP_H41 |
| 647286 | 4077474 | 0.00055 | 149.68 | 0 | ANNUAL | House 42 | RP_H42 |

* AERMET (21112): Future Flare (Grnd Lvl) SO2 1-yr 2020

13:27:06

- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|--------|
| 647359 | 4077340 | 0.00049 | 154.45 | 0 | ANNUAL | House 43 | RP_H43 |
| 647490 | 4077329 | 0.00055 | 162.28 | 0 | ANNUAL | House 44 | RP_H44 |
| 647522 | 4077252 | 0.0005 | 164.3 | 0 | ANNUAL | House 45 | RP_H45 |
| 647518 | 4077139 | 0.00043 | 164.01 | 0 | ANNUAL | House 46 | RP_H46 |
| 646819 | 4077258 | 0.00031 | 151.53 | 0 | ANNUAL | House 47 | RP_H47 |
| 646779 | 4077128 | 0.00028 | 158.51 | 0 | ANNUAL | House 48 | RP_H48 |
| 646987 | 4077213 | 0.00032 | 146.44 | 0 | ANNUAL | House 49 | RP_H49 |
| 647898 | 4076033 | 0.00023 | 163.83 | 0 | ANNUAL | House 5 | RP_H5 |
| 647242 | 4077227 | 0.00038 | 154.85 | 0 | ANNUAL | House 50 | RP_H50 |
| 646773 | 4077063 | 0.00026 | 159 | 0 | ANNUAL | House 51 | RP_H51 |
| 647104 | 4077118 | 0.00031 | 148.99 | 0 | ANNUAL | House 52 | RP_H52 |
| 647292 | 4077123 | 0.00036 | 158.62 | 0 | ANNUAL | House 53 | RP_H53 |
| 646765 | 4076978 | 0.00025 | 158.67 | 0 | ANNUAL | House 54 | RP_H54 |
| 646996 | 4076984 | 0.00027 | 152.34 | 0 | ANNUAL | House 55 | RP_H55 |
| 647317 | 4077031 | 0.00033 | 160.22 | 0 | ANNUAL | House 56 | RP_H56 |
| 647398 | 4077013 | 0.00034 | 161.26 | 0 | ANNUAL | House 57 | RP_H57 |
| 646979 | 4076904 | 0.00025 | 156.81 | 0 | ANNUAL | House 58 | RP_H58 |
| 647015 | 4076807 | 0.00024 | 156.21 | 0 | ANNUAL | House 59 | RP_H59 |
| 648045 | 4076018 | 0.00026 | 168.26 | 0 | ANNUAL | House 6 | RP_H6 |
| 647164 | 4076802 | 0.00025 | 154.38 | 0 | ANNUAL | House 60 | RP_H60 |
| 647311 | 4076940 | 0.0003 | 162.49 | 0 | ANNUAL | House 61 | RP_H61 |
| 647298 | 4076805 | 0.00027 | 158 | 0 | ANNUAL | House 62 | RP_H62 |
| 647447 | 4076900 | 0.00031 | 159.45 | 0 | ANNUAL | House 63 | RP_H63 |
| 647464 | 4076781 | 0.00028 | 159.32 | 0 | ANNUAL | House 64 | RP_H64 |
| 647512 | 4076536 | 0.00025 | 159 | 0 | ANNUAL | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00013 | 179.58 | 0 | ANNUAL | House 66 | RP_H66 |
| 647131 | 4077336 | 0.0004 | 146.77 | 0 | ANNUAL | House 67 | RP_H67 |
| 646798 | 4076740 | 0.00022 | 156.07 | 0 | ANNUAL | House 68 | RP_H68 |
| 646900 | 4076802 | 0.00023 | 159 | 0 | ANNUAL | House 69 | RP_H69 |
| 648126 | 4075955 | 0.00028 | 171.51 | 0 | ANNUAL | House 7 | RP_H7 |
| 647317 | 4076662 | 0.00025 | 159.9 | 0 | ANNUAL | House 70 | RP_H70 |
| 648249 | 4075970 | 0.00032 | 183.42 | 0 | ANNUAL | House 8 | RP_H8 |

09/29/21

* AERMET (21112): Future Flare (Grnd Lvl) SO2 1-yr 2020

13:27:06

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 1 YEARS FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|--------|-------------|-------|
| 648219 | 4076109 | 0.00032 | 182.28 | 0 | ANNUAL | House 9 | RP_H9 |

09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 3-hr 2020

08:27:03

Description

ID

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

AVERAGE CONC ZELEV ZFLAG AVE

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| | 645996 | 4078698 | 0.02359 | 123.85 | 0 | 3-HR | AQ Monitoring Station | AQ_ST_1 | |
|---|--------|---------|---------|--------|---|------|------------------------------------|----------|----------|
| ľ | 643904 | 4077719 | 0.02207 | 105.68 | 0 | 3-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| | 642057 | 4079416 | 0.01119 | 85.12 | 0 | 3-HR | Dunne Park | CR_PK_1 | 1 |
| ľ | 642179 | 4079950 | 0.02101 | 117.99 | 0 | 3-HR | Vista Park Hill Park | CR_PK_2 | |
| | 644733 | 4078753 | 0.02778 | 106.44 | 0 | 3-HR | Las Brisas Park | CR_PK_3 | |
| ľ | 645609 | 4078854 | 0.02335 | 112.86 | 0 | 3-HR | Frank Klauer Memorial Park | CR_PK_4 | |
| | 644238 | 4078807 | 0.02282 | 95.25 | 0 | 3-HR | Veterans Memorial Park | CR_PK_5 | |
| | 645311 | 4076559 | 0.01985 | 134.61 | 0 | 3-HR | Park 6 | CR_PK_6 | |
| | 649582 | 4073424 | 0.03321 | 159.96 | 0 | 3-HR | Park 7 | CR_PK_7 | |
| | 645145 | 4077181 | 0.02364 | 133 | 0 | 3-HR | Cerra Vista Elem School | CR_SC_1 | |
| | 642905 | 4079955 | 0.0217 | 86 | 0 | 3-HR | San Andreas Continuation | CR_SC_10 | |
| | 645851 | 4074015 | 0.02129 | 123 | 0 | 3-HR | SouthSide School | CR_SC_11 | |
| | 642106 | 4078176 | 0.01751 | 91 | 0 | 3-HR | School 12 | CR_SC_12 | |
| | 646059 | 4078443 | 0.02917 | 128.52 | 0 | 3-HR | Rancho Santana School | CR_SC_13 | School 1 |
| | 647269 | 4075575 | 0.02093 | 158 | 0 | 3-HR | Future School | CR_SC_14 | School 2 |
| | 648466 | 4074106 | 0.02272 | 159 | 0 | 3-HR | Tres Pinos Union Elementary School | CR_SC_15 | |
| | 644110 | 4078389 | 0.01739 | 98.2 | 0 | 3-HR | Sunnyslope Elem School | CR_SC_2 | |
| | 643920 | 4077304 | 0.01706 | 101.23 | 0 | 3-HR | Hollister Montessori School | CR_SC_3 | |
| | 642961 | 4078621 | 0.01598 | 92 | 0 | 3-HR | Rancho San Justo Middle School | CR_SC_4 | |
| | 643980 | 4079743 | 0.022 | 88 | 0 | 3-HR | Marguerite Maze Middle School | CR_SC_5 | |
| | 641630 | 4079153 | 0.01395 | 85 | 0 | 3-HR | Hollister Prep Schoo | CR_SC_6 | |
| | 643350 | 4077181 | 0.01536 | 98.22 | 0 | 3-HR | Ladd Lane Elementary School | CR_SC_7 | |
| | 644003 | 4080079 | 0.02751 | 87 | 0 | 3-HR | Gabilan Hills Elementary School | CR_SC_8 | |
| | 642245 | 4078413 | 0.01739 | 90.17 | 0 | 3-HR | San Benito High School | CR_SC_9 | |
| | 642083 | 4079794 | 0.01768 | 87.58 | 0 | 3-HR | Jovenes De Antano | CR_SR_1 | |
| | 646402 | 4076879 | 0.02706 | 146.33 | 0 | 3-HR | Workplace | CR_WP_1 | |
| | 648949 | 4077938 | 0.03499 | 189.45 | 0 | 3-HR | Nearest Workplace | CR_WP_2 | MEIW |
| | 647744 | 4079173 | 0.05959 | 155.2 | 0 | 3-HR | Grid Receptor 1 | G1 | |
| | 647744 | 4075573 | 0.02442 | 160 | 0 | 3-HR | Grid Receptor 10 | G10 | |
| | 651344 | 4075573 | 0.10703 | 252.9 | 0 | 3-HR | Grid Receptor 100 | G100 | |
| | 648144 | 4079173 | 0.05468 | 165.9 | 0 | 3-HR | Grid Receptor 11 | G11 | |
| | 648144 | 4078773 | 0.06686 | 159.6 | 0 | 3-HR | Grid Receptor 12 | G12 | |
| | | | | | | | | | |

09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 3-hr 2020

08:27:03

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 648144 | 4078373 | 0.06525 | 146.2 | 0 | 3-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.0457 | 158.3 | 0 | 3-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.0625 | 166.6 | 0 | 3-HR | Grid Receptor 15 | G15 |
| 648144 | 4077173 | 0.06184 | 175.4 | 0 | 3-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.05411 | 177.1 | 0 | 3-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.02649 | 178 | 0 | 3-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.02914 | 173 | 0 | 3-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.05033 | 145.4 | 0 | 3-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.04268 | 168.8 | 0 | 3-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.03287 | 173.5 | 0 | 3-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.03887 | 166.2 | 0 | 3-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.05735 | 145.4 | 0 | 3-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.07963 | 173.9 | 0 | 3-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.0671 | 179.6 | 0 | 3-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.10956 | 191 | 0 | 3-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.07123 | 209.2 | 0 | 3-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.04046 | 233.7 | 0 | 3-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.03592 | 199.9 | 0 | 3-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.03625 | 144.4 | 0 | 3-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.05518 | 195.5 | 0 | 3-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.03888 | 190.4 | 0 | 3-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.03517 | 165.4 | 0 | 3-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.0308 | 159.6 | 0 | 3-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.03425 | 183.5 | 0 | 3-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.06222 | 224 | 0 | 3-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.04329 | 205 | 0 | 3-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.16234 | 208.8 | 0 | 3-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.04593 | 134.6 | 0 | 3-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.03656 | 185.6 | 0 | 3-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.02361 | 187.4 | 0 | 3-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.02226 | 160.9 | 0 | 3-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.02547 | 200.5 | 0 | 3-HR | Grid Receptor 43 | G43 |

09/30/21

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------|------------------|-----|
| 649344 | 4077973 | 0.02717 | 229 | 0 | 3-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.28499 | 253.3 | 0 | 3-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.32 | 220.2 | 0 | 3-HR | Grid Receptor 48 | G48 |
| 649344 | 4075973 | 0.10834 | 227.2 | 0 | 3-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.03938 | 163.8 | 0 | 3-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.05455 | 205.5 | 0 | 3-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.02592 | 176.1 | 0 | 3-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.02788 | 195 | 0 | 3-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.0279 | 196.1 | 0 | 3-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.02496 | 215.3 | 0 | 3-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.01744 | 221.6 | 0 | 3-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.20805 | 211.7 | 0 | 3-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.11449 | 237.7 | 0 | 3-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.03953 | 158.4 | 0 | 3-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.06636 | 204.2 | 0 | 3-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.02961 | 173 | 0 | 3-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.02216 | 171 | 0 | 3-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.01987 | 204.6 | 0 | 3-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.01426 | 216.5 | 0 | 3-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.22829 | 257.7 | 0 | 3-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.09167 | 231.4 | 0 | 3-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.15871 | 249.4 | 0 | 3-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.04509 | 164.7 | 0 | 3-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.06301 | 216.4 | 0 | 3-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.01678 | 177 | 0 | 3-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.01028 | 180.9 | 0 | 3-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.01197 | 196.6 | 0 | 3-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.01417 | 236.9 | 0 | 3-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.13045 | 261.3 | 0 | 3-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.2114 | 260.9 | 0 | 3-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.10447 | 226.7 | 0 | 3-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.02207 | 164 | 0 | 3-HR | Grid Receptor 8 | G8 |

09/30/21

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08:27:03

- PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|-----------------------|-----|----|
| 650544 | 4075573 | 0.42138 | 268.2 | 0 | 3-HR | Grid Receptor 80 | G80 | PM |
| 650944 | 4079173 | 0.00955 | 181.3 | 0 | 3-HR | Grid Receptor 81 | G81 | |
| 650944 | 4078773 | 0.011 | 178.4 | 0 | 3-HR | Grid Receptor 82 | G82 | |
| 650944 | 4078373 | 0.01207 | 214.8 | 0 | 3-HR | Grid Receptor 83 | G83 | |
| 650944 | 4077973 | 0.05925 | 249.9 | 0 | 3-HR | Grid Receptor 84 | G84 | |
| 650944 | 4077573 | 0.23005 | 276.5 | 0 | 3-HR | Grid Receptor 85 | G85 | |
| 650944 | 4077173 | 0.06012 | 225.6 | 0 | 3-HR | Grid Receptor 86 | G86 | |
| 650944 | 4076773 | 0.0698 | 219.8 | 0 | 3-HR | Grid Receptor 87 | G87 | |
| 650944 | 4076373 | 0.07616 | 209.2 | 0 | 3-HR | Grid Receptor 88 | G88 | |
| 650944 | 4075973 | 0.06501 | 216.6 | 0 | 3-HR | Grid Receptor 89 | G89 | |
| 647744 | 4075973 | 0.0216 | 160.7 | 0 | 3-HR | Grid Receptor 9 | G9 | |
| 650944 | 4075573 | 0.06436 | 243.2 | 0 | 3-HR | Grid Receptor 90 | G90 | |
| 651344 | 4079173 | 0.0104 | 191 | 0 | 3-HR | Grid Receptor 91 | G91 | |
| 651344 | 4078773 | 0.01132 | 181 | 0 | 3-HR | Grid Receptor 92 | G92 | |
| 651344 | 4078373 | 0.02434 | 214.3 | 0 | 3-HR | Grid Receptor 93 | G93 | |
| 651344 | 4077973 | 0.05158 | 248.4 | 0 | 3-HR | Grid Receptor 94 | G94 | |
| 651344 | 4077573 | 0.04655 | 213.2 | 0 | 3-HR | Grid Receptor 95 | G95 | |
| 651344 | 4077173 | 0.04891 | 213.6 | 0 | 3-HR | Grid Receptor 96 | G96 | |
| 651344 | 4076773 | 0.05636 | 203.5 | 0 | 3-HR | Grid Receptor 97 | G97 | |
| 651344 | 4076373 | 0.06082 | 205.6 | 0 | 3-HR | Grid Receptor 98 | G98 | |
| 651344 | 4075973 | 0.05285 | 205.8 | 0 | 3-HR | Grid Receptor 99 | G99 | |
| 648584 | 4077523 | 0.06881 | 183.61 | 0 | 3-HR | Boundary Perimeter 1 | P1 | |
| 649484 | 4077537 | 0.26497 | 254.01 | 0 | 3-HR | Boundary Perimeter 10 | P10 | |
| 649584 | 4077539 | 0.02372 | 235.3 | 0 | 3-HR | Boundary Perimeter 11 | P11 | |
| 649684 | 4077540 | 0.0196 | 221.29 | 0 | 3-HR | Boundary Perimeter 12 | P12 | |
| 649784 | 4077541 | 0.02095 | 222.37 | 0 | 3-HR | Boundary Perimeter 13 | P13 | |
| 649884 | 4077542 | 0.02531 | 233.6 | 0 | 3-HR | Boundary Perimeter 14 | P14 | |
| 649984 | 4077543 | 0.13506 | 249.54 | 0 | 3-HR | Boundary Perimeter 15 | P15 | |
| 650084 | 4077546 | 0.31794 | 258.89 | 0 | 3-HR | Boundary Perimeter 16 | P16 | |
| 650184 | 4077548 | 0.16942 | 259.56 | 0 | 3-HR | Boundary Perimeter 17 | P17 | |
| 650284 | 4077550 | 0.14768 | 256.77 | 0 | 3-HR | Boundary Perimeter 18 | P18 | |
| 650384 | 4077552 | 0.03947 | 242.37 | 0 | 3-HR | Boundary Perimeter 19 | P19 | |
| | | | | | | | | |

09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 3-hr 2020

08:27:03

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|-----|
| 648684 | 4077525 | 0.08562 | 197.16 | 0 | 3-HR | Boundary Perimeter 2 | P2 |
| 650484 | 4077554 | 0.03663 | 242.23 | 0 | 3-HR | Boundary Perimeter 20 | P20 |
| 650584 | 4077557 | 0.10298 | 259.71 | 0 | 3-HR | Boundary Perimeter 21 | P21 |
| 650684 | 4077559 | 0.10908 | 257.58 | 0 | 3-HR | Boundary Perimeter 22 | P22 |
| 650777 | 4077554 | 0.21506 | 267.9 | 0 | 3-HR | Boundary Perimeter 23 | P23 |
| 650779 | 4077454 | 0.20852 | 275.91 | 0 | 3-HR | Boundary Perimeter 24 | P24 |
| 650781 | 4077354 | 0.19187 | 265.73 | 0 | 3-HR | Boundary Perimeter 25 | P25 |
| 650783 | 4077254 | 0.08493 | 251.08 | 0 | 3-HR | Boundary Perimeter 26 | P26 |
| 650785 | 4077154 | 0.09718 | 252.83 | 0 | 3-HR | Boundary Perimeter 27 | P27 |
| 650787 | 4077054 | 0.06014 | 246.1 | 0 | 3-HR | Boundary Perimeter 28 | P28 |
| 650789 | 4076954 | 0.06902 | 241.37 | 0 | 3-HR | Boundary Perimeter 29 | P29 |
| 648784 | 4077527 | 0.09336 | 209.74 | 0 | 3-HR | Boundary Perimeter 3 | P3 |
| 650791 | 4076854 | 0.07527 | 246.79 | 0 | 3-HR | Boundary Perimeter 30 | P30 |
| 650794 | 4076754 | 0.07381 | 228.75 | 0 | 3-HR | Boundary Perimeter 31 | P31 |
| 650754 | 4076683 | 0.07681 | 217.76 | 0 | 3-HR | Boundary Perimeter 32 | P32 |
| 650660 | 4076650 | 0.08193 | 221.2 | 0 | 3-HR | Boundary Perimeter 33 | P33 |
| 650561 | 4076650 | 0.08514 | 220.83 | 0 | 3-HR | Boundary Perimeter 34 | P34 |
| 650463 | 4076666 | 0.08599 | 223.42 | 0 | 3-HR | Boundary Perimeter 35 | P35 |
| 650364 | 4076682 | 0.08417 | 222.46 | 0 | 3-HR | Boundary Perimeter 36 | P36 |
| 650264 | 4076683 | 0.0844 | 223.19 | 0 | 3-HR | Boundary Perimeter 37 | P37 |
| 650165 | 4076674 | 0.08709 | 222.1 | 0 | 3-HR | Boundary Perimeter 38 | P38 |
| 650066 | 4076660 | 0.09301 | 217.03 | 0 | 3-HR | Boundary Perimeter 39 | P39 |
| 648884 | 4077529 | 0.08051 | 214.25 | 0 | 3-HR | Boundary Perimeter 4 | P4 |
| 649980 | 4076627 | 0.104 | 214.82 | 0 | 3-HR | Boundary Perimeter 40 | P40 |
| 649920 | 4076547 | 0.15971 | 214.91 | 0 | 3-HR | Boundary Perimeter 41 | P41 |
| 649852 | 4076474 | 0.15702 | 214.09 | 0 | 3-HR | Boundary Perimeter 42 | P42 |
| 649771 | 4076417 | 0.17491 | 211.53 | 0 | 3-HR | Boundary Perimeter 43 | P43 |
| 649680 | 4076375 | 0.27157 | 210.17 | 0 | 3-HR | Boundary Perimeter 44 | P44 |
| 649581 | 4076368 | 0.24817 | 208.52 | 0 | 3-HR | Boundary Perimeter 45 | P45 |
| 649482 | 4076384 | 0.29063 | 207.5 | 0 | 3-HR | Boundary Perimeter 46 | P46 |
| 649392 | 4076425 | 0.33766 | 205.17 | 0 | 3-HR | Boundary Perimeter 47 | P47 |
| 649304 | 4076472 | 0.12311 | 202.16 | 0 | 3-HR | Boundary Perimeter 48 | P48 |

09/30/21

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- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-----------------------|--------|
| 649226 | 4076535 | 0.0903 | 196.38 | 0 | 3-HR | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.0556 | 221.41 | 0 | 3-HR | Boundary Perimeter 5 | P5 |
| 649156 | 4076605 | 0.15554 | 195.87 | 0 | 3-HR | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.20034 | 196.32 | 0 | 3-HR | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.16547 | 192.42 | 0 | 3-HR | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.15023 | 192.46 | 0 | 3-HR | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.15552 | 191.63 | 0 | 3-HR | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.15858 | 186.32 | 0 | 3-HR | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.13132 | 179.81 | 0 | 3-HR | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.10444 | 176.23 | 0 | 3-HR | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.11936 | 175.02 | 0 | 3-HR | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.11144 | 180.62 | 0 | 3-HR | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.04918 | 216.54 | 0 | 3-HR | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.09419 | 183.47 | 0 | 3-HR | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.10229 | 202.88 | 0 | 3-HR | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.07867 | 178.21 | 0 | 3-HR | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.06592 | 176.25 | 0 | 3-HR | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.0823 | 176 | 0 | 3-HR | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.09006 | 175.24 | 0 | 3-HR | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.06012 | 175.13 | 0 | 3-HR | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.03204 | 230.71 | 0 | 3-HR | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.11761 | 248.08 | 0 | 3-HR | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.36751 | 258.43 | 0 | 3-HR | Boundary Perimeter 9 | Р9 |
| 645930 | 4077983 | 0.02787 | 127.38 | 0 | 3-HR | New Development | RP_G1 |
| 645930 | 4078083 | 0.03152 | 127.58 | 0 | 3-HR | New Development | RP_G10 |
| 646030 | 4078083 | 0.03334 | 130.56 | 0 | 3-HR | New Development | RP_G11 |
| 646130 | 4078083 | 0.0349 | 134.35 | 0 | 3-HR | New Development | RP_G12 |
| 646230 | 4078083 | 0.03614 | 139.22 | 0 | 3-HR | New Development | RP_G13 |
| 646330 | 4078083 | 0.03692 | 144.65 | 0 | 3-HR | New Development | RP_G14 |
| 646430 | 4078083 | 0.03644 | 142.28 | 0 | 3-HR | New Development | RP_G15 |
| 646530 | 4078083 | 0.03584 | 146.76 | 0 | 3-HR | New Development | RP_G16 |
| 646630 | 4078083 | 0.03447 | 150.64 | 0 | 3-HR | New Development | RP_G17 |

09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 3-hr 2020

08:27:03

* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
|--------|---------|--------------|--------|-------|------|-----------------|--------|---|
| 646730 | 4078083 | 0.03343 | 155.4 | 0 | 3-HR | New Development | RP_G18 | |
| 645930 | 4078183 | 0.03363 | 127.22 | 0 | 3-HR | New Development | RP_G19 | |
| 646030 | 4077983 | 0.03027 | 131.21 | 0 | 3-HR | New Development | RP_G2 | |
| 646030 | 4078183 | 0.03468 | 130.56 | 0 | 3-HR | New Development | RP_G20 | П |
| 646130 | 4078183 | 0.03527 | 133.89 | 0 | 3-HR | New Development | RP_G21 | |
| 646230 | 4078183 | 0.03557 | 140.45 | 0 | 3-HR | New Development | RP_G22 | |
| 646330 | 4078183 | 0.0353 | 146.94 | 0 | 3-HR | New Development | RP_G23 | |
| 646430 | 4078183 | 0.03337 | 140.23 | 0 | 3-HR | New Development | RP_G24 | |
| 646530 | 4078183 | 0.03185 | 147.25 | 0 | 3-HR | New Development | RP_G25 | |
| 646630 | 4078183 | 0.03148 | 151.56 | 0 | 3-HR | New Development | RP_G26 | |
| 646730 | 4078183 | 0.03067 | 157.78 | 0 | 3-HR | New Development | RP_G27 | |
| 645930 | 4078283 | 0.03392 | 126.06 | 0 | 3-HR | New Development | RP_G28 | |
| 646030 | 4078283 | 0.03405 | 129.56 | 0 | 3-HR | New Development | RP_G29 | |
| 646130 | 4077983 | 0.03261 | 135.89 | 0 | 3-HR | New Development | RP_G3 | |
| 646130 | 4078283 | 0.03364 | 132.89 | 0 | 3-HR | New Development | RP_G30 | |
| 646230 | 4078283 | 0.03289 | 139.24 | 0 | 3-HR | New Development | RP_G31 | |
| 646330 | 4078283 | 0.03137 | 142.68 | 0 | 3-HR | New Development | RP_G32 | |
| 646430 | 4078283 | 0.02988 | 140.02 | 0 | 3-HR | New Development | RP_G33 | |
| 646530 | 4078283 | 0.02939 | 147.22 | 0 | 3-HR | New Development | RP_G34 | |
| 646630 | 4078283 | 0.0282 | 151.56 | 0 | 3-HR | New Development | RP_G35 | |
| 646730 | 4078283 | 0.02884 | 156.78 | 0 | 3-HR | New Development | RP_G36 | |
| 646230 | 4077983 | 0.03463 | 139.18 | 0 | 3-HR | New Development | RP_G4 | |
| 646330 | 4077983 | 0.03617 | 140.76 | 0 | 3-HR | New Development | RP_G5 | |
| 646430 | 4077983 | 0.03734 | 143.89 | 0 | 3-HR | New Development | RP_G6 | |
| 646530 | 4077983 | 0.03776 | 145.22 | 0 | 3-HR | New Development | RP_G7 | |
| 646630 | 4077983 | 0.03752 | 147.21 | 0 | 3-HR | New Development | RP_G8 | |
| 646730 | 4077983 | 0.03642 | 148.3 | 0 | 3-HR | New Development | RP_G9 | |
| 648659 | 4077241 | 0.12436 | 205.79 | 0 | 3-HR | House 1 | RP_H1 |] |
| 648071 | 4076116 | 0.02484 | 169.6 | 0 | 3-HR | House 10 | RP_H10 | |
| 648247 | 4076278 | 0.02821 | 184.55 | 0 | 3-HR | House 11 | RP_H11 | |
| 648027 | 4076255 | 0.02596 | 169.38 | 0 | 3-HR | House 12 | RP_H12 | |
| 648066 | 4076359 | 0.02575 | 173.83 | 0 | 3-HR | House 13 | RP_H13 | |

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09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 3-hr 2020

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- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 648139 | 4076400 | 0.02598 | 178.22 | 0 | 3-HR | House 14 | RP_H14 |
| 648255 | 4076411 | 0.0276 | 191.28 | 0 | 3-HR | House 15 | RP_H15 |
| 647878 | 4076365 | 0.02349 | 165.39 | 0 | 3-HR | House 16 | RP_H16 |
| 647520 | 4076206 | 0.02181 | 159 | 0 | 3-HR | House 17 | RP_H17 |
| 647921 | 4076247 | 0.02492 | 164 | 0 | 3-HR | House 18 | RP_H18 |
| 647709 | 4076352 | 0.02208 | 163.52 | 0 | 3-HR | House 19 | RP_H19 |
| 648372 | 4075470 | 0.05694 | 173.69 | 0 | 3-HR | House 2 | RP_H2 |
| 647704 | 4076251 | 0.0231 | 162.17 | 0 | 3-HR | House 20 | RP_H20 |
| 647719 | 4076104 | 0.02306 | 159.35 | 0 | 3-HR | House 21 | RP_H21 |
| 647843 | 4076125 | 0.02398 | 163 | 0 | 3-HR | House 22 | RP_H22 |
| 647842 | 4076500 | 0.02055 | 167.93 | 0 | 3-HR | House 23 | RP_H23 |
| 647728 | 4076644 | 0.03232 | 164.15 | 0 | 3-HR | House 24 | RP_H24 |
| 647824 | 4076644 | 0.03428 | 168.29 | 0 | 3-HR | House 25 | RP_H25 |
| 647530 | 4076497 | 0.02106 | 159.56 | 0 | 3-HR | House 26 | RP_H26 |
| 647810 | 4076854 | 0.05062 | 162.9 | 0 | 3-HR | House 27 | RP_H27 |
| 647697 | 4076989 | 0.04937 | 161.42 | 0 | 3-HR | House 28 | RP_H28 |
| 648226 | 4076182 | 0.02689 | 183.22 | 0 | 3-HR | House 29 | RP_H29 |
| 647678 | 4075969 | 0.02142 | 159.5 | 0 | 3-HR | House 3 | RP_H3 |
| 645876 | 4077487 | 0.0308 | 127.13 | 0 | 3-HR | House 30 | RP_H30 |
| 650902 | 4076062 | 0.05949 | 215.24 | 0 | 3-HR | House 31 | RP_H31 |
| 651490 | 4076597 | 0.05638 | 205.5 | 0 | 3-HR | House 32 | RP_H32 |
| 651565 | 4077067 | 0.04547 | 213.93 | 0 | 3-HR | House 33 | RP_H33 |
| 648673 | 4075307 | 0.05088 | 225.91 | 0 | 3-HR | House 34 | RP_H34 |
| 648384 | 4075469 | 0.05656 | 174.44 | 0 | 3-HR | House 35 | RP_H35 |
| 646379 | 4077233 | 0.03632 | 146 | 0 | 3-HR | House 36 | RP_H36 |
| 651850 | 4075865 | 0.04427 | 201.97 | 0 | 3-HR | House 37 | RP_H37 |
| 652045 | 4076210 | 0.0393 | 196.88 | 0 | 3-HR | House 38 | RP_H38 |
| 652256 | 4076391 | 0.04147 | 197.06 | 0 | 3-HR | House 39 | RP_H39 |
| 647815 | 4075985 | 0.02191 | 162.04 | 0 | 3-HR | House 4 | RP_H4 |
| 646854 | 4077373 | 0.03427 | 145.99 | 0 | 3-HR | House 40 | RP_H40 |
| 647050 | 4077360 | 0.03339 | 145 | 0 | 3-HR | House 41 | RP_H41 |
| 647286 | 4077474 | 0.03833 | 149.68 | 0 | 3-HR | House 42 | RP_H42 |

09/30/21

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|--------|
| 647359 | 4077340 | 0.03228 | 154.45 | 0 | 3-HR | House 43 | RP_H43 |
| 647490 | 4077329 | 0.03633 | 162.28 | 0 | 3-HR | House 44 | RP_H44 |
| 647522 | 4077252 | 0.03541 | 164.3 | 0 | 3-HR | House 45 | RP_H45 |
| 647518 | 4077139 | 0.04333 | 164.01 | 0 | 3-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.0388 | 151.53 | 0 | 3-HR | House 47 | RP_H47 |
| 646779 | 4077128 | 0.04065 | 158.51 | 0 | 3-HR | House 48 | RP_H48 |
| 646987 | 4077213 | 0.03987 | 146.44 | 0 | 3-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.0229 | 163.83 | 0 | 3-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.03959 | 154.85 | 0 | 3-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.03989 | 159 | 0 | 3-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.04254 | 148.99 | 0 | 3-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.04414 | 158.62 | 0 | 3-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.03738 | 158.67 | 0 | 3-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.0405 | 152.34 | 0 | 3-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.04613 | 160.22 | 0 | 3-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.04709 | 161.26 | 0 | 3-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.03752 | 156.81 | 0 | 3-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.03269 | 156.21 | 0 | 3-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.02578 | 168.26 | 0 | 3-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.03478 | 154.38 | 0 | 3-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.04516 | 162.49 | 0 | 3-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.03774 | 158 | 0 | 3-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.04578 | 159.45 | 0 | 3-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.03936 | 159.32 | 0 | 3-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.02223 | 159 | 0 | 3-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.011 | 179.58 | 0 | 3-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.034 | 146.77 | 0 | 3-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.02527 | 156.07 | 0 | 3-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.03073 | 159 | 0 | 3-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.029 | 171.51 | 0 | 3-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.02718 | 159.9 | 0 | 3-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.03124 | 183.42 | 0 | 3-HR | House 8 | RP_H8 |

09/30/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 3-hr 2020

08:27:03

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF HIGH 1ST HIGH 3-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|------|-------------|-------|
| 648219 | 4076109 | 0.02764 | 182.28 | 0 | 3-HR | House 9 | RP_H9 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2020

13:27:06

- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.

| 101 | CIVII I I . (1 1, 12 | 1,5(171,1 15.5),5(171,1 0.2 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 110,211,115,5 | 21,710,271,10 | 7 | | _ |
|--------|----------------------|-----------------------------|---|---------------|---------------|------------------------------------|----------|----------|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | |
| 645996 | 4078698 | 0.00739 | 123.85 | 0 | 24-HR | AQ Monitoring Station | AQ_ST_1 | |
| 643904 | 4077719 | 0.00442 | 105.68 | 0 | 24-HR | Hazel Hawkins Memorial Hospital | CR_HP_1 | |
| 642057 | 4079416 | 0.00357 | 85.12 | 0 | 24-HR | Dunne Park | CR_PK_1 | |
| 642179 | 4079950 | 0.00475 | 117.99 | 0 | 24-HR | Vista Park Hill Park | CR_PK_2 |] |
| 644733 | 4078753 | 0.0077 | 106.44 | 0 | 24-HR | Las Brisas Park | CR_PK_3 | |
| 645609 | 4078854 | 0.00764 | 112.86 | 0 | 24-HR | Frank Klauer Memorial Park | CR_PK_4 |] |
| 644238 | 4078807 | 0.00611 | 95.25 | 0 | 24-HR | Veterans Memorial Park | CR_PK_5 | |
| 645311 | 4076559 | 0.00369 | 134.61 | 0 | 24-HR | Park 6 | CR_PK_6 | |
| 649582 | 4073424 | 0.00594 | 159.96 | 0 | 24-HR | Park 7 | CR_PK_7 | |
| 645145 | 4077181 | 0.0031 | 133 | 0 | 24-HR | Cerra Vista Elem School | CR_SC_1 | |
| 642905 | 4079955 | 0.00568 | 86 | 0 | 24-HR | San Andreas Continuation | CR_SC_10 | |
| 645851 | 4074015 | 0.00306 | 123 | 0 | 24-HR | SouthSide School | CR_SC_11 | |
| 642106 | 4078176 | 0.00441 | 91 | 0 | 24-HR | School 12 | CR_SC_12 | |
| 646059 | 4078443 | 0.01001 | 128.52 | 0 | 24-HR | Rancho Santana School | CR_SC_13 | School 1 |
| 647269 | 4075575 | 0.00274 | 158 | 0 | 24-HR | Future School | CR_SC_14 | School 2 |
| 648466 | 4074106 | 0.00464 | 159 | 0 | 24-HR | Tres Pinos Union Elementary School | CR_SC_15 | |
| 644110 | 4078389 | 0.00473 | 98.2 | 0 | 24-HR | Sunnyslope Elem School | CR_SC_2 | |
| 643920 | 4077304 | 0.00291 | 101.23 | 0 | 24-HR | Hollister Montessori School | CR_SC_3 | |
| 642961 | 4078621 | 0.0045 | 92 | 0 | 24-HR | Rancho San Justo Middle School | CR_SC_4 | |
| 643980 | 4079743 | 0.00586 | 88 | 0 | 24-HR | Marguerite Maze Middle School | CR_SC_5 | |
| 641630 | 4079153 | 0.00384 | 85 | 0 | 24-HR | Hollister Prep Schoo | CR_SC_6 | |
| 643350 | 4077181 | 0.00294 | 98.22 | 0 | 24-HR | Ladd Lane Elementary School | CR_SC_7 | |
| 644003 | 4080079 | 0.00434 | 87 | 0 | 24-HR | Gabilan Hills Elementary School | CR_SC_8 | |
| 642245 | 4078413 | 0.00479 | 90.17 | 0 | 24-HR | San Benito High School | CR_SC_9 | |
| 642083 | 4079794 | 0.00418 | 87.58 | 0 | 24-HR | Jovenes De Antano | CR_SR_1 | |
| 646402 | 4076879 | 0.00359 | 146.33 | 0 | 24-HR | Workplace | CR_WP_1 | |
| 648949 | 4077938 | 0.011 | 189.45 | 0 | 24-HR | Nearest Workplace | CR_WP_2 | MEIW |
| 647744 | 4079173 | 0.01057 | 155.2 | 0 | 24-HR | Grid Receptor 1 | G1 | |
| 647744 | 4075573 | 0.00321 | 160 | 0 | 24-HR | Grid Receptor 10 | G10 | |
| 651344 | 4075573 | 0.022 | 252.9 | 0 | 24-HR | Grid Receptor 100 | G100 | |
| 648144 | 4079173 | 0.00701 | 165.9 | 0 | 24-HR | Grid Receptor 11 | G11 | |
| 648144 | 4078773 | 0.00919 | 159.6 | 0 | 24-HR | Grid Receptor 12 | G12 | |

09/29/21

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13:27:06

- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------------------------|------------------|-----|
| 648144 | 4078373 | 0.01474 | 146.2 | 0 | 24-HR | Grid Receptor 13 | G13 |
| 648144 | 4077973 | 0.01658 | 158.3 | 0 | 24-HR | Grid Receptor 14 | G14 |
| 648144 | 4077573 | 0.01748 | 166.6 | 0 | 24-HR Grid Receptor 15 | | G15 |
| 648144 | 4077173 | 0.02109 | 175.4 | 0 | 24-HR | Grid Receptor 16 | G16 |
| 648144 | 4076773 | 0.01328 | 177.1 | 0 | 24-HR | Grid Receptor 17 | G17 |
| 648144 | 4076373 | 0.00393 | 178 | 0 | 24-HR | Grid Receptor 18 | G18 |
| 648144 | 4075973 | 0.00387 | 173 | 0 | 24-HR | Grid Receptor 19 | G19 |
| 647744 | 4078773 | 0.0128 | 145.4 | 0 | 24-HR | Grid Receptor 2 | G2 |
| 648144 | 4075573 | 0.00552 | 168.8 | 0 | 24-HR | Grid Receptor 20 | G20 |
| 648544 | 4079173 | 0.00714 | 173.5 | 0 | 24-HR | Grid Receptor 21 | G21 |
| 648544 | 4078773 | 0.00844 | 166.2 | 0 | 24-HR | Grid Receptor 22 | G22 |
| 648544 | 4078373 | 0.00958 | 145.4 | 0 | 24-HR | Grid Receptor 23 | G23 |
| 648544 | 4077973 | 0.01315 | 173.9 | 0 | 24-HR | Grid Receptor 24 | G24 |
| 648544 | 4077573 | 0.02187 | 179.6 | 0 | 24-HR | Grid Receptor 25 | G25 |
| 648544 | 4077173 | 0.02233 | 191 | 0 | 24-HR | Grid Receptor 26 | G26 |
| 648544 | 4076773 | 0.04007 | 209.2 | 0 | 24-HR | Grid Receptor 27 | G27 |
| 648544 | 4076373 | 0.00849 | 233.7 | 0 | 24-HR | Grid Receptor 28 | G28 |
| 648544 | 4075973 | 0.00479 | 199.9 | 0 | 24-HR | Grid Receptor 29 | G29 |
| 647744 | 4078373 | 0.01307 | 144.4 | 0 | 24-HR | Grid Receptor 3 | G3 |
| 648544 | 4075573 | 0.00915 | 195.5 | 0 | 24-HR | Grid Receptor 30 | G30 |
| 648944 | 4079173 | 0.0049 | 190.4 | 0 | 24-HR | Grid Receptor 31 | G31 |
| 648944 | 4078773 | 0.00445 | 165.4 | 0 | 24-HR | Grid Receptor 32 | G32 |
| 648944 | 4078373 | 0.00627 | 159.6 | 0 | 24-HR | Grid Receptor 33 | G33 |
| 648944 | 4077973 | 0.01049 | 183.5 | 0 | 24-HR | Grid Receptor 34 | G34 |
| 648944 | 4077573 | 0.01913 | 224 | 0 | 24-HR | Grid Receptor 35 | G35 |
| 648944 | 4076373 | 0.00791 | 205 | 0 | 24-HR | Grid Receptor 38 | G38 |
| 648944 | 4075973 | 0.03287 | 208.8 | 0 | 24-HR | Grid Receptor 39 | G39 |
| 647744 | 4077973 | 0.01359 | 134.6 | 0 | 24-HR | Grid Receptor 4 | G4 |
| 648944 | 4075573 | 0.00835 | 185.6 | 0 | 24-HR | Grid Receptor 40 | G40 |
| 649344 | 4079173 | 0.00299 | 187.4 | 0 | 24-HR | Grid Receptor 41 | G41 |
| 649344 | 4078773 | 0.00283 | 160.9 | 0 | 24-HR | Grid Receptor 42 | G42 |
| 649344 | 4078373 | 0.00326 | 200.5 | 0 | 24-HR | Grid Receptor 43 | G43 |

09/29/21

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|-------|-------|------------------------|------------------|-----|
| 649344 | 4077973 | 0.00405 | 229 | 0 | 24-HR | Grid Receptor 44 | G44 |
| 649344 | 4077573 | 0.03577 | 253.3 | 0 | 24-HR | Grid Receptor 45 | G45 |
| 649344 | 4076373 | 0.09254 | 220.2 | 0 | 24-HR Grid Receptor 48 | | G48 |
| 649344 | 4075973 | 0.03999 | 227.2 | 0 | 24-HR | Grid Receptor 49 | G49 |
| 647744 | 4077573 | 0.01046 | 163.8 | 0 | 24-HR | Grid Receptor 5 | G5 |
| 649344 | 4075573 | 0.01802 | 205.5 | 0 | 24-HR | Grid Receptor 50 | G50 |
| 649744 | 4079173 | 0.00329 | 176.1 | 0 | 24-HR | Grid Receptor 51 | G51 |
| 649744 | 4078773 | 0.00363 | 195 | 0 | 24-HR | Grid Receptor 52 | G52 |
| 649744 | 4078373 | 0.00365 | 196.1 | 0 | 24-HR | Grid Receptor 53 | G53 |
| 649744 | 4077973 | 0.0033 | 215.3 | 0 | 24-HR | Grid Receptor 54 | G54 |
| 649744 | 4077573 | 0.0033 | 221.6 | 0 | 24-HR | Grid Receptor 55 | G55 |
| 649744 | 4076373 | 0.09743 | 211.7 | 0 | 24-HR | Grid Receptor 58 | G58 |
| 649744 | 4075973 | 0.04615 | 237.7 | 0 | 24-HR | Grid Receptor 59 | G59 |
| 647744 | 4077173 | 0.01889 | 158.4 | 0 | 24-HR | Grid Receptor 6 | G6 |
| 649744 | 4075573 | 0.01898 | 204.2 | 0 | 24-HR | Grid Receptor 60 | G60 |
| 650144 | 4079173 | 0.00375 | 173 | 0 | 24-HR | Grid Receptor 61 | G61 |
| 650144 | 4078773 | 0.0029 | 171 | 0 | 24-HR | Grid Receptor 62 | G62 |
| 650144 | 4078373 | 0.00265 | 204.6 | 0 | 24-HR | Grid Receptor 63 | G63 |
| 650144 | 4077973 | 0.00297 | 216.5 | 0 | 24-HR | Grid Receptor 64 | G64 |
| 650144 | 4077573 | 0.03486 | 257.7 | 0 | 24-HR | Grid Receptor 65 | G65 |
| 650144 | 4076373 | 0.04842 | 231.4 | 0 | 24-HR | Grid Receptor 68 | G68 |
| 650144 | 4075973 | 0.04747 | 249.4 | 0 | 24-HR | Grid Receptor 69 | G69 |
| 647744 | 4076773 | 0.00758 | 164.7 | 0 | 24-HR | Grid Receptor 7 | G7 |
| 650144 | 4075573 | 0.02054 | 216.4 | 0 | 24-HR | Grid Receptor 70 | G70 |
| 650544 | 4079173 | 0.00221 | 177 | 0 | 24-HR | Grid Receptor 71 | G71 |
| 650544 | 4078773 | 0.00233 | 180.9 | 0 | 24-HR | Grid Receptor 72 | G72 |
| 650544 | 4078373 | 0.00234 | 196.6 | 0 | 24-HR | Grid Receptor 73 | G73 |
| 650544 | 4077973 | 0.00481 | 236.9 | 0 | 24-HR | Grid Receptor 74 | G74 |
| 650544 | 4077573 | 0.02864 | 261.3 | 0 | 24-HR | Grid Receptor 75 | G75 |
| 650544 | 4076373 | 0.04907 | 260.9 | 0 | 24-HR | Grid Receptor 78 | G78 |
| 650544 | 4075973 | 0.03669 | 226.7 | 0 | 24-HR | Grid Receptor 79 | G79 |
| 647744 | 4076373 | 0.00332 | 164 | 0 | 24-HR | Grid Receptor 8 | G8 |

09/29/21

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-----------------------------|-----------------------------|------------|
| 650544 | 4075573 | 0.07774 | 268.2 | 0 | 24-HR | Grid Receptor 80 | G80 |
| 650944 | 4079173 | 0.00198 | 181.3 | 0 | 24-HR | 24-HR Grid Receptor 81 | |
| 650944 | 4078773 | 0.00187 | 178.4 | 0 | 24-HR | Grid Receptor 82 | G82 |
| 650944 | 4078373 | 0.00237 | 214.8 | 0 | 24-HR | Grid Receptor 83 | G83 |
| 650944 | 4077973 | 0.01327 | 249.9 | 0 | 24-HR | Grid Receptor 84 | G84 |
| 650944 | 4077573 | 0.02894 | 276.5 | 0 | 24-HR | Grid Receptor 85 | G85 |
| 650944 | 4077173 | 0.01325 | 225.6 | 0 | 24-HR | Grid Receptor 86 | G86 |
| 650944 | 4076773 | 0.01929 | 219.8 | 0 | 24-HR | Grid Receptor 87 | G87 |
| 650944 | 4076373 | 0.0334 | 209.2 | 0 | 24-HR | Grid Receptor 88 | G88 |
| 650944 | 4075973 | 0.026 | 216.6 | 0 | 24-HR | Grid Receptor 89 | G89 |
| 647744 | 4075973 | 0.00301 | 160.7 | 0 | 24-HR | Grid Receptor 9 | G9 |
| 650944 | 4075573 | 0.02417 | 243.2 | 0 | 24-HR | Grid Receptor 90 | G90 |
| 651344 | 4079173 | 0.00162 | 191 | 0 | 24-HR | Grid Receptor 91 | G91 |
| 651344 | 4078773 | 0.00174 | 181 | 0 | 24-HR | Grid Receptor 92 | G92 |
| 651344 | 4078373 | 0.00418 | 214.3 | 0 | 24-HR | Grid Receptor 93 | G93 |
| 651344 | 4077973 | 0.00659 | 248.4 | 0 | 24-HR | Grid Receptor 94 | G94 |
| 651344 | 4077573 | 0.01263 | 213.2 | 0 | 24-HR | Grid Receptor 95 | G95 |
| 651344 | 4077173 | 0.01167 | 213.6 | 0 | 24-HR | Grid Receptor 96 | G96 |
| 651344 | 4076773 | 0.01534 | 203.5 | 0 | 24-HR | Grid Receptor 97 | G97 |
| 651344 | 4076373 | 0.02807 | 205.6 | 0 | 24-HR | Grid Receptor 98 | G98 |
| 651344 | 4075973 | 0.01422 | 205.8 | 0 | 24-HR | Grid Receptor 99 | G99 |
| 648584 | 4077523 | 0.02283 | 183.61 | 0 | 24-HR | Boundary Perimeter 1 | P1 |
| 649484 | 4077537 | 0.04555 | 254.01 | 0 | 24-HR | Boundary Perimeter 10 | P10 |
| 649584 | 4077539 | 0.00339 | 235.3 | 0 | 24-HR | Boundary Perimeter 11 | P11 |
| 649684 | 4077540 | 0.00313 | 221.29 | 0 | 24-HR | Boundary Perimeter 12 | P12 |
| 649784 | 4077541 | 0.00347 | 222.37 | 0 | 24-HR | Boundary Perimeter 13 | P13 P14 |
| 649884 | 4077542 | 0.00342 | 233.6 | 0 | | 24-HR Boundary Perimeter 14 | |
| 649984 | 4077543 | 0.02436 | 249.54 | 0 | 24-HR | Boundary Perimeter 15 | P15 |
| 650084 | 4077546 | 0.0476 | 258.89 | 0 | 24-HR | Boundary Perimeter 16 | P16 |
| 650184 | 4077548 | 0.04435 | 259.56 | 0 | 24-HR Boundary Perimeter 17 | | P17 |
| 650284 | 4077550 | 0.03658 | 256.77 | 0 | 24-HR Boundary Perimeter 18 | | P18 |
| 650384 | 4077552 | 0.00842 | 242.37 | 0 | 24-HR | Boundary Perimeter 19 | P19 |

09/29/21

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* PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

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| FORWA1.(A,1A,3(1A,F13.3),3(1A,F6.2),3A,A3,2A,A6,2A,A3,3A,A6,2A,16) | | | | | | | | | | |
|--|---------|--------------|--------|-------|-------|-----------------------|-----|--|--|--|
| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID | | | |
| 648684 | 4077525 | 0.0227 | 197.16 | 0 | 24-HR | Boundary Perimeter 2 | P2 | | | |
| 650484 | 4077554 | 0.00938 | 242.23 | 0 | 24-HR | Boundary Perimeter 20 | P20 | | | |
| 650584 | 4077557 | 0.02049 | 259.71 | 0 | 24-HR | Boundary Perimeter 21 | P21 | | | |
| 650684 | 4077559 | 0.01386 | 257.58 | 0 | 24-HR | Boundary Perimeter 22 | P22 | | | |
| 650777 | 4077554 | 0.02711 | 267.9 | 0 | 24-HR | Boundary Perimeter 23 | P23 | | | |
| 650779 | 4077454 | 0.02701 | 275.91 | 0 | 24-HR | Boundary Perimeter 24 | P24 | | | |
| 650781 | 4077354 | 0.02639 | 265.73 | 0 | 24-HR | Boundary Perimeter 25 | P25 | | | |
| 650783 | 4077254 | 0.01801 | 251.08 | 0 | 24-HR | Boundary Perimeter 26 | P26 | | | |
| 650785 | 4077154 | 0.01993 | 252.83 | 0 | 24-HR | Boundary Perimeter 27 | P27 | | | |
| 650787 | 4077054 | 0.01989 | 246.1 | 0 | 24-HR | Boundary Perimeter 28 | P28 | | | |
| 650789 | 4076954 | 0.01651 | 241.37 | 0 | 24-HR | Boundary Perimeter 29 | P29 | | | |
| 648784 | 4077527 | 0.01968 | 209.74 | 0 | 24-HR | Boundary Perimeter 3 | Р3 | | | |
| 650791 | 4076854 | 0.02023 | 246.79 | 0 | 24-HR | Boundary Perimeter 30 | P30 | | | |
| 650794 | 4076754 | 0.02082 | 228.75 | 0 | 24-HR | Boundary Perimeter 31 | P31 | | | |
| 650754 | 4076683 | 0.02216 | 217.76 | 0 | 24-HR | Boundary Perimeter 32 | P32 | | | |
| 650660 | 4076650 | 0.02369 | 221.2 | 0 | 24-HR | Boundary Perimeter 33 | P33 | | | |
| 650561 | 4076650 | 0.02488 | 220.83 | 0 | 24-HR | Boundary Perimeter 34 | P34 | | | |
| 650463 | 4076666 | 0.02558 | 223.42 | 0 | 24-HR | Boundary Perimeter 35 | P35 | | | |
| 650364 | 4076682 | 0.026 | 222.46 | 0 | 24-HR | Boundary Perimeter 36 | P36 | | | |
| 650264 | 4076683 | 0.02729 | 223.19 | 0 | 24-HR | Boundary Perimeter 37 | P37 | | | |
| 650165 | 4076674 | 0.0292 | 222.1 | 0 | 24-HR | Boundary Perimeter 38 | P38 | | | |
| 650066 | 4076660 | 0.03196 | 217.03 | 0 | 24-HR | Boundary Perimeter 39 | P39 | | | |
| 648884 | 4077529 | 0.02004 | 214.25 | 0 | 24-HR | Boundary Perimeter 4 | P4 | | | |
| 649980 | 4076627 | 0.0371 | 214.82 | 0 | 24-HR | Boundary Perimeter 40 | P40 | | | |
| 649920 | 4076547 | 0.05578 | 214.91 | 0 | 24-HR | Boundary Perimeter 41 | P41 | | | |
| 649852 | 4076474 | 0.0755 | 214.09 | 0 | 24-HR | Boundary Perimeter 42 | P42 | | | |
| 649771 | 4076417 | 0.06984 | 211.53 | 0 | 24-HR | Boundary Perimeter 43 | P43 | | | |
| 649680 | 4076375 | 0.1015 | 210.17 | 0 | 24-HR | Boundary Perimeter 44 | P44 | | | |
| 649581 | 4076368 | 0.09761 | 208.52 | 0 | 24-HR | Boundary Perimeter 45 | P45 | | | |
| 649482 | 4076384 | 0.1134 | 207.5 | 0 | 24-HR | Boundary Perimeter 46 | P46 | | | |
| 649392 | 4076425 | 0.10338 | 205.17 | 0 | 24-HR | Boundary Perimeter 47 | P47 | | | |
| 649304 | 4076472 | 0.02621 | 202.16 | 0 | 24-HR | Boundary Perimeter 48 | P48 | | | |

PMI

09/29/21

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-----------------------|---------------------------|--------|
| 649226 | 4076535 | 0.02293 | 196.38 | 0 | 24-HR | Boundary Perimeter 49 | P49 |
| 648984 | 4077530 | 0.01901 | 221.41 | 0 | 24-HR | 4-HR Boundary Perimeter 5 | |
| 649156 | 4076605 | 0.03192 | 195.87 | 0 | 24-HR | Boundary Perimeter 50 | P50 |
| 649068 | 4076653 | 0.05821 | 196.32 | 0 | 24-HR | Boundary Perimeter 51 | P51 |
| 648987 | 4076711 | 0.05815 | 192.42 | 0 | 24-HR | Boundary Perimeter 52 | P52 |
| 648937 | 4076759 | 0.05074 | 192.46 | 0 | 24-HR | Boundary Perimeter 53 | P53 |
| 648869 | 4076833 | 0.03842 | 191.63 | 0 | 24-HR | Boundary Perimeter 54 | P54 |
| 648797 | 4076902 | 0.02928 | 186.32 | 0 | 24-HR | Boundary Perimeter 55 | P55 |
| 648711 | 4076952 | 0.02623 | 179.81 | 0 | 24-HR | Boundary Perimeter 56 | P56 |
| 648621 | 4076996 | 0.02453 | 176.23 | 0 | 24-HR | Boundary Perimeter 57 | P57 |
| 648607 | 4077051 | 0.02263 | 175.02 | 0 | 24-HR | Boundary Perimeter 58 | P58 |
| 648680 | 4077119 | 0.02869 | 180.62 | 0 | 24-HR | Boundary Perimeter 59 | P59 |
| 649084 | 4077532 | 0.01467 | 216.54 | 0 | 24-HR | Boundary Perimeter 6 | P6 |
| 648759 | 4077180 | 0.03157 | 183.47 | 0 | 24-HR | Boundary Perimeter 60 | P60 |
| 648791 | 4077262 | 0.03113 | 202.88 | 0 | 24-HR | Boundary Perimeter 61 | P61 |
| 648788 | 4077362 | 0.02249 | 178.21 | 0 | 24-HR | Boundary Perimeter 62 | P62 |
| 648691 | 4077361 | 0.02506 | 176.25 | 0 | 24-HR | Boundary Perimeter 63 | P63 |
| 648591 | 4077357 | 0.02559 | 176 | 0 | 24-HR | Boundary Perimeter 64 | P64 |
| 648526 | 4077371 | 0.02488 | 175.24 | 0 | 24-HR | Boundary Perimeter 65 | P65 |
| 648587 | 4077430 | 0.02389 | 175.13 | 0 | 24-HR | Boundary Perimeter 66 | P66 |
| 649184 | 4077534 | 0.00846 | 230.71 | 0 | 24-HR | Boundary Perimeter 7 | P7 |
| 649284 | 4077535 | 0.01984 | 248.08 | 0 | 24-HR | Boundary Perimeter 8 | P8 |
| 649384 | 4077536 | 0.05491 | 258.43 | 0 | 24-HR | Boundary Perimeter 9 | P9 |
| 645930 | 4077983 | 0.00802 | 127.38 | 0 | 24-HR | New Development | RP_G1 |
| 645930 | 4078083 | 0.0092 | 127.58 | 0 | 24-HR | New Development | RP_G10 |
| 646030 | 4078083 | 0.00993 | 130.56 | 0 | 24-HR | New Development | RP_G11 |
| 646130 | 4078083 | 0.01063 | 134.35 | 0 | 24-HR | • | |
| 646230 | 4078083 | 0.01125 | 139.22 | 0 | 24-HR New Development | | RP_G13 |
| 646330 | 4078083 | 0.01175 | 144.65 | 0 | 1 | | RP_G14 |
| 646430 | 4078083 | 0.01202 | 142.28 | 0 | * | | RP_G15 |
| 646530 | 4078083 | 0.01207 | 146.76 | 0 | * | | RP_G16 |
| 646630 | 4078083 | 0.01183 | 150.64 | 0 | 24-HR | New Development | RP_G17 |

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| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-----------------|--------|
| 646730 | 4078083 | 0.01131 | 155.4 | 0 | 24-HR | New Development | RP G18 |
| 645930 | 4078183 | 0.01015 | 127.22 | 0 | 24-HR | New Development | RP G19 |
| 646030 | 4077983 | 0.00875 | 131.21 | 0 | 24-HR | New Development | RP G2 |
| 646030 | 4078183 | 0.01072 | 130.56 | 0 | 24-HR | New Development | RP G20 |
| 646130 | 4078183 | 0.01117 | 133.89 | 0 | 24-HR | New Development | RP G21 |
| 646230 | 4078183 | 0.01148 | 140.45 | 0 | 24-HR | New Development | RP G22 |
| 646330 | 4078183 | 0.01159 | 146.94 | 0 | 24-HR | New Development | RP G23 |
| 646430 | 4078183 | 0.01144 | 140.23 | 0 | 24-HR | New Development | RP G24 |
| 646530 | 4078183 | 0.01105 | 147.25 | 0 | 24-HR | New Development | RP G25 |
| 646630 | 4078183 | 0.01042 | 151.56 | 0 | 24-HR | New Development | RP G26 |
| 646730 | 4078183 | 0.00958 | 157.78 | 0 | 24-HR | New Development | RP G27 |
| 645930 | 4078283 | 0.01064 | 126.06 | 0 | 24-HR | New Development | RP G28 |
| 646030 | 4078283 | 0.01094 | 129.56 | 0 | 24-HR | New Development | RP G29 |
| 646130 | 4077983 | 0.00954 | 135.89 | 0 | 24-HR | New Development | RP_G3 |
| 646130 | 4078283 | 0.01107 | 132.89 | 0 | 24-HR | New Development | RP_G30 |
| 646230 | 4078283 | 0.01101 | 139.24 | 0 | 24-HR | New Development | RP_G31 |
| 646330 | 4078283 | 0.01074 | 142.68 | 0 | 24-HR | New Development | RP_G32 |
| 646430 | 4078283 | 0.01024 | 140.02 | 0 | 24-HR | New Development | RP_G33 |
| 646530 | 4078283 | 0.00956 | 147.22 | 0 | 24-HR | New Development | RP_G34 |
| 646630 | 4078283 | 0.00871 | 151.56 | 0 | 24-HR | New Development | RP_G35 |
| 646730 | 4078283 | 0.00775 | 156.78 | 0 | 24-HR | New Development | RP_G36 |
| 646230 | 4077983 | 0.01035 | 139.18 | 0 | 24-HR | New Development | RP_G4 |
| 646330 | 4077983 | 0.01112 | 140.76 | 0 | 24-HR | New Development | RP_G5 |
| 646430 | 4077983 | 0.01179 | 143.89 | 0 | 24-HR | New Development | RP_G6 |
| 646530 | 4077983 | 0.01229 | 145.22 | 0 | 24-HR | New Development | RP_G7 |
| 646630 | 4077983 | 0.01256 | 147.21 | 0 | 24-HR | New Development | RP_G8 |
| 646730 | 4077983 | 0.01253 | 148.3 | 0 | 24-HR | New Development | RP_G9 |
| 648659 | 4077241 | 0.0346 | 205.79 | 0 | 24-HR | House 1 | RP_H1 |
| 648071 | 4076116 | 0.00349 | 169.6 | 0 | 24-HR | House 10 | RP_H10 |
| 648247 | 4076278 | 0.00399 | 184.55 | 0 | 24-HR | House 11 | RP_H11 |
| 648027 | 4076255 | 0.00362 | 169.38 | 0 | 24-HR | House 12 | RP_H12 |
| 648066 | 4076359 | 0.00374 | 173.83 | 0 | 24-HR | House 13 | RP_H13 |

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* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2020

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- PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|--------|
| 648139 | 4076400 | 0.00397 | 178.22 | 0 | 24-HR | House 14 | RP_H14 |
| 648255 | 4076411 | 0.00434 | 191.28 | 0 | 24-HR | House 15 | RP_H15 |
| 647878 | 4076365 | 0.00345 | 165.39 | 0 | 24-HR | House 16 | RP_H16 |
| 647520 | 4076206 | 0.003 | 159 | 0 | 24-HR | House 17 | RP_H17 |
| 647921 | 4076247 | 0.00346 | 164 | 0 | 24-HR | House 18 | RP_H18 |
| 647709 | 4076352 | 0.00324 | 163.52 | 0 | 24-HR | House 19 | RP_H19 |
| 648372 | 4075470 | 0.00731 | 173.69 | 0 | 24-HR | House 2 | RP_H2 |
| 647704 | 4076251 | 0.00319 | 162.17 | 0 | 24-HR | House 20 | RP_H20 |
| 647719 | 4076104 | 0.00319 | 159.35 | 0 | 24-HR | House 21 | RP_H21 |
| 647843 | 4076125 | 0.00333 | 163 | 0 | 24-HR | House 22 | RP_H22 |
| 647842 | 4076500 | 0.00364 | 167.93 | 0 | 24-HR | House 23 | RP_H23 |
| 647728 | 4076644 | 0.00442 | 164.15 | 0 | 24-HR | House 24 | RP_H24 |
| 647824 | 4076644 | 0.00469 | 168.29 | 0 | 24-HR | House 25 | RP_H25 |
| 647530 | 4076497 | 0.00329 | 159.56 | 0 | 24-HR | House 26 | RP_H26 |
| 647810 | 4076854 | 0.01154 | 162.9 | 0 | 24-HR | House 27 | RP_H27 |
| 647697 | 4076989 | 0.015 | 161.42 | 0 | 24-HR | House 28 | RP_H28 |
| 648226 | 4076182 | 0.00381 | 183.22 | 0 | 24-HR | House 29 | RP_H29 |
| 647678 | 4075969 | 0.00298 | 159.5 | 0 | 24-HR | House 3 | RP_H3 |
| 645876 | 4077487 | 0.00575 | 127.13 | 0 | 24-HR | House 30 | RP_H30 |
| 650902 | 4076062 | 0.02299 | 215.24 | 0 | 24-HR | House 31 | RP_H31 |
| 651490 | 4076597 | 0.02104 | 205.5 | 0 | 24-HR | House 32 | RP_H32 |
| 651565 | 4077067 | 0.01259 | 213.93 | 0 | 24-HR | House 33 | RP_H33 |
| 648673 | 4075307 | 0.01039 | 225.91 | 0 | 24-HR | House 34 | RP_H34 |
| 648384 | 4075469 | 0.00726 | 174.44 | 0 | 24-HR | House 35 | RP_H35 |
| 646379 | 4077233 | 0.00633 | 146 | 0 | 24-HR | House 36 | RP_H36 |
| 651850 | 4075865 | 0.01186 | 201.97 | 0 | 24-HR | House 37 | RP_H37 |
| 652045 | 4076210 | 0.01899 | 196.88 | 0 | 24-HR | House 38 | RP_H38 |
| 652256 | 4076391 | 0.01949 | 197.06 | 0 | 24-HR | House 39 | RP_H39 |
| 647815 | 4075985 | 0.00306 | 162.04 | 0 | 24-HR | House 4 | RP_H4 |
| 646854 | 4077373 | 0.0101 | 145.99 | 0 | 24-HR | House 40 | RP_H40 |
| 647050 | 4077360 | 0.01148 | 145 | 0 | 24-HR | House 41 | RP_H41 |
| 647286 | 4077474 | 0.01269 | 149.68 | 0 | 24-HR | House 42 | RP_H42 |

09/29/21

* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2020

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- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|--------|
| 647359 | 4077340 | 0.01406 | 154.45 | 0 | 24-HR | House 43 | RP_H43 |
| 647490 | 4077329 | 0.01526 | 162.28 | 0 | 24-HR | House 44 | RP_H44 |
| 647522 | 4077252 | 0.01607 | 164.3 | 0 | 24-HR | House 45 | RP_H45 |
| 647518 | 4077139 | 0.01536 | 164.01 | 0 | 24-HR | House 46 | RP_H46 |
| 646819 | 4077258 | 0.00917 | 151.53 | 0 | 24-HR | House 47 | RP_H47 |
| 646779 | 4077128 | 0.00752 | 158.51 | 0 | 24-HR | House 48 | RP_H48 |
| 646987 | 4077213 | 0.01001 | 146.44 | 0 | 24-HR | House 49 | RP_H49 |
| 647898 | 4076033 | 0.0032 | 163.83 | 0 | 24-HR | House 5 | RP_H5 |
| 647242 | 4077227 | 0.01266 | 154.85 | 0 | 24-HR | House 50 | RP_H50 |
| 646773 | 4077063 | 0.00666 | 159 | 0 | 24-HR | House 51 | RP_H51 |
| 647104 | 4077118 | 0.00984 | 148.99 | 0 | 24-HR | House 52 | RP_H52 |
| 647292 | 4077123 | 0.01198 | 158.62 | 0 | 24-HR | House 53 | RP_H53 |
| 646765 | 4076978 | 0.00554 | 158.67 | 0 | 24-HR | House 54 | RP_H54 |
| 646996 | 4076984 | 0.00682 | 152.34 | 0 | 24-HR | House 55 | RP_H55 |
| 647317 | 4077031 | 0.0105 | 160.22 | 0 | 24-HR | House 56 | RP_H56 |
| 647398 | 4077013 | 0.01105 | 161.26 | 0 | 24-HR | House 57 | RP_H57 |
| 646979 | 4076904 | 0.00555 | 156.81 | 0 | 24-HR | House 58 | RP_H58 |
| 647015 | 4076807 | 0.00449 | 156.21 | 0 | 24-HR | House 59 | RP_H59 |
| 648045 | 4076018 | 0.00344 | 168.26 | 0 | 24-HR | House 6 | RP_H6 |
| 647164 | 4076802 | 0.00494 | 154.38 | 0 | 24-HR | House 60 | RP_H60 |
| 647311 | 4076940 | 0.00838 | 162.49 | 0 | 24-HR | House 61 | RP_H61 |
| 647298 | 4076805 | 0.00554 | 158 | 0 | 24-HR | House 62 | RP_H62 |
| 647447 | 4076900 | 0.00861 | 159.45 | 0 | 24-HR | House 63 | RP_H63 |
| 647464 | 4076781 | 0.00592 | 159.32 | 0 | 24-HR | House 64 | RP_H64 |
| 647512 | 4076536 | 0.00332 | 159 | 0 | 24-HR | House 65 | RP_H65 |
| 651131 | 4078767 | 0.00164 | 179.58 | 0 | 24-HR | House 66 | RP_H66 |
| 647131 | 4077336 | 0.01209 | 146.77 | 0 | 24-HR | House 67 | RP_H67 |
| 646798 | 4076740 | 0.0034 | 156.07 | 0 | 24-HR | House 68 | RP_H68 |
| 646900 | 4076802 | 0.00411 | 159 | 0 | 24-HR | House 69 | RP_H69 |
| 648126 | 4075955 | 0.00385 | 171.51 | 0 | 24-HR | House 7 | RP_H7 |
| 647317 | 4076662 | 0.0037 | 159.9 | 0 | 24-HR | House 70 | RP_H70 |
| 648249 | 4075970 | 0.00416 | 183.42 | 0 | 24-HR | House 8 | RP_H8 |

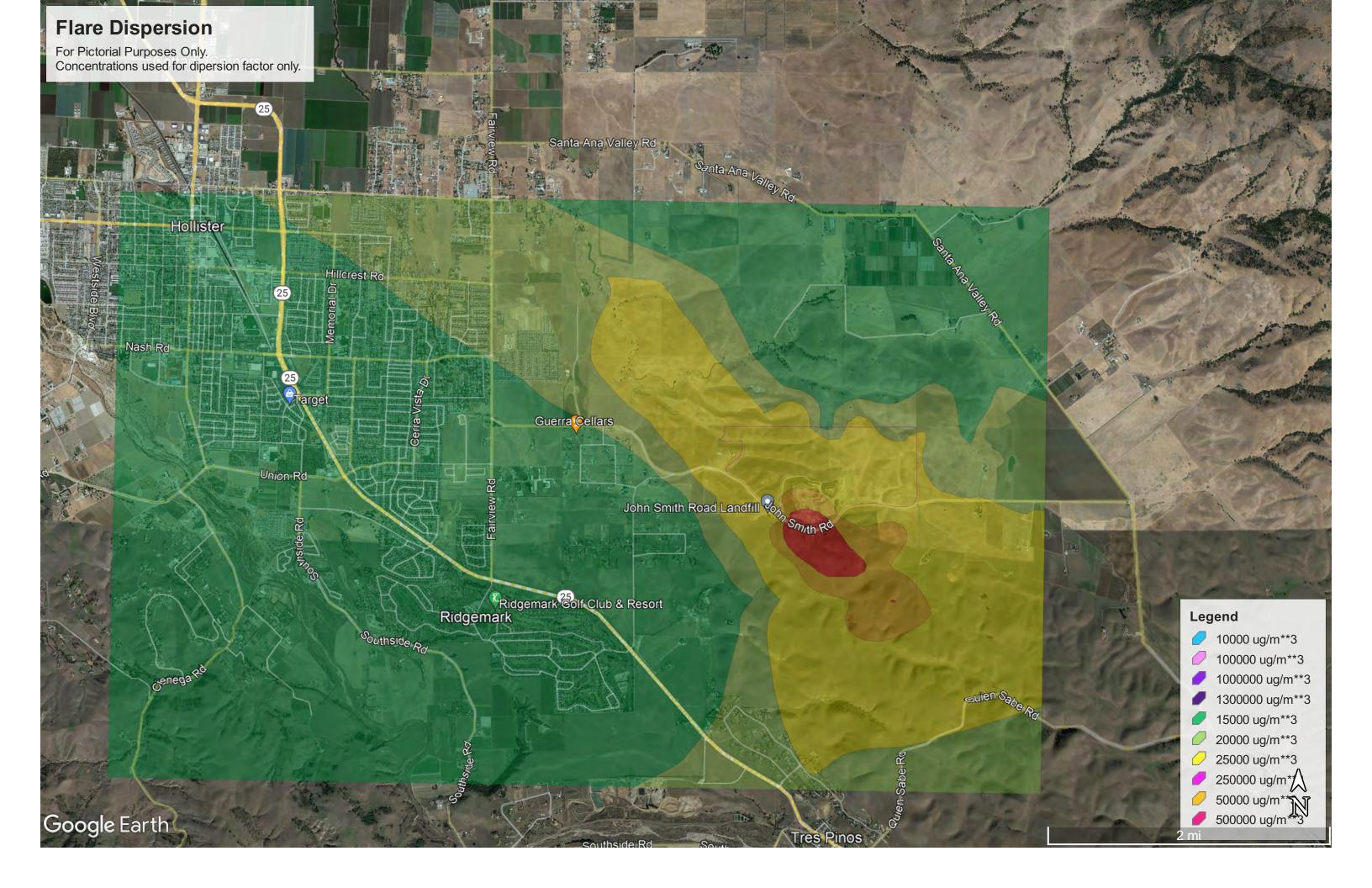
09/29/21

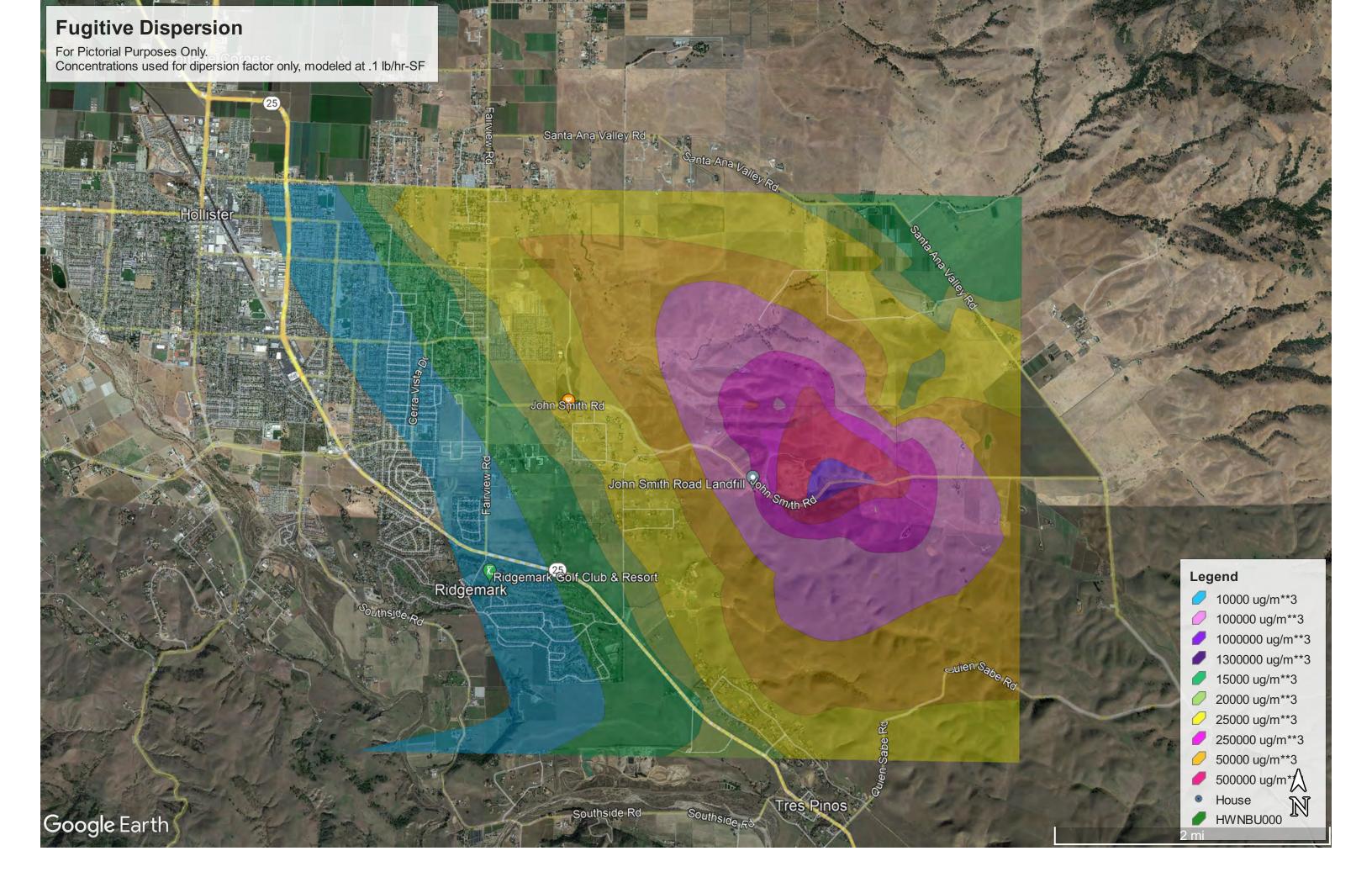
* AERMET (21112): Future Flare (Ground Lvl) SO2 24-hr 2020

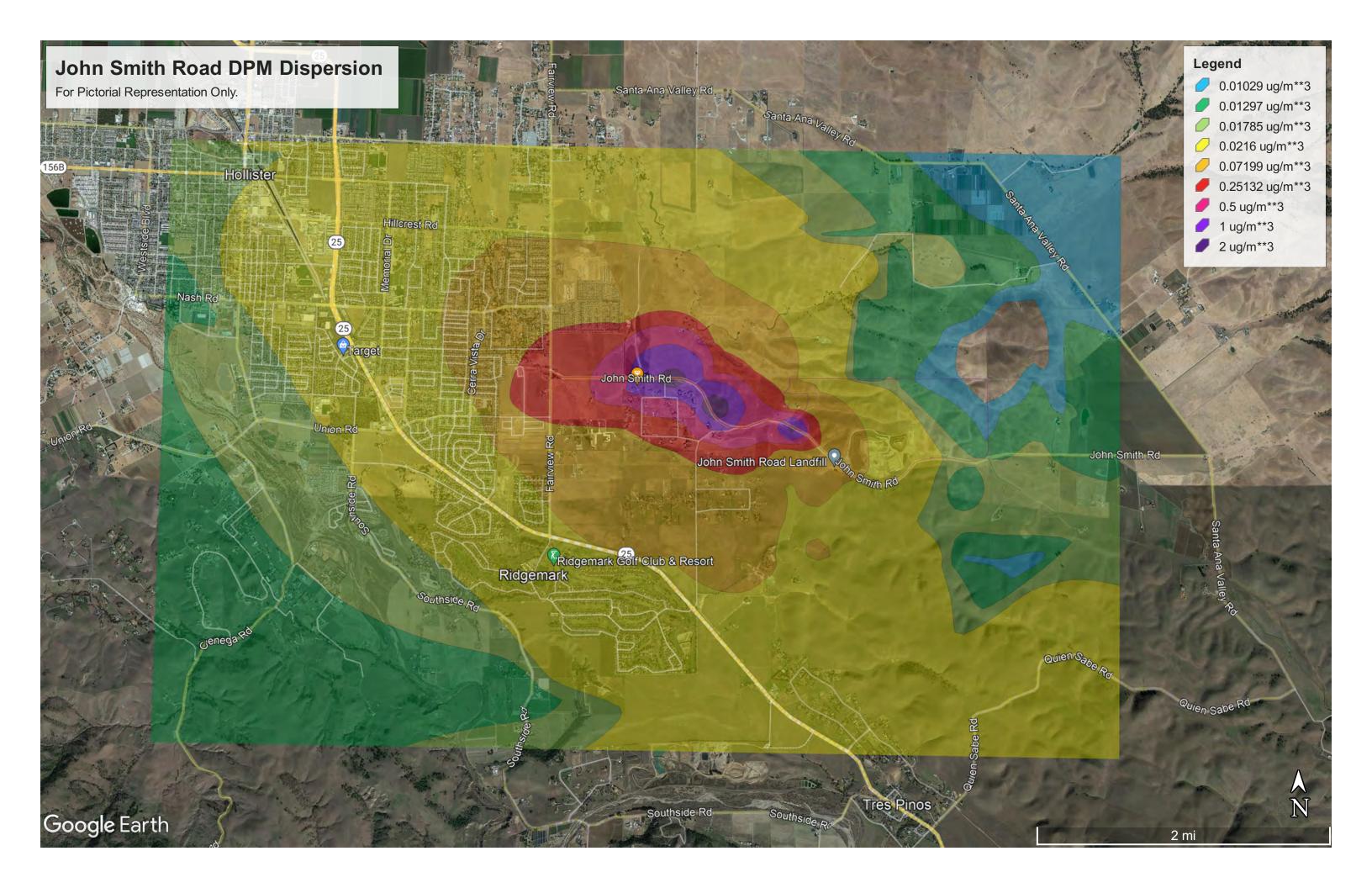
13:27:06

- * MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
- * PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
- * FOR A TOTAL OF 289 RECEPTORS.
- * FORMAT: (A,1X,3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

| X | Y | AVERAGE CONC | ZELEV | ZFLAG | AVE | Description | ID |
|--------|---------|--------------|--------|-------|-------|-------------|-------|
| 648219 | 4076109 | 0.00371 | 182.28 | 0 | 24-HR | House 9 | RP_H9 |







John Smith Road Landfill

Attachment R - Estimate of Long Term DPM Emissions

Table R-1 Summary - Average Life DPM

| Project | DPM Total | Units |
|--|-----------|------------------|
| Entrance Area Project | 6.92 | lb/lifetime/item |
| 29 module vonstruction projects | 52.28 | lb/lifetime/item |
| Four final closure projects | 4.54 | lb/lifetime/item |
| LFG Installaion | 2.50 | lb/lifetime/item |
| Operations | 1,343.71 | lb/lifetime/item |
| Total | 1,409.94 | lb/lifetime/item |
| Total/64 years | 44.06 | Total/yr |
| Total Divided by Surface Area / 365 / 24 | 4.57E-10 | lb/hr/sf |

| | | _ |
|----|------|---|
| en | | |

| Operating Life (form start of Project) | 63 | Years |
|--|-----------|-------|
| Averaging Life | 64 | Years |
| Start Year | 2023 | |
| End year | 2086 | |
| In-County Only Years | 2071-2086 | |
| Operating Days per Year | 361 | Days |
| Percnt of PM2.5 that is DPM | 8% | |
| Landfill Footprint Area | 252.74 | Acres |

Entrance Duimensions

| Excavation | 230,000 CY |
|--------------------------|------------|
| Structiral fill | 230,000 CY |
| Entrance Excavation Area | 24 Acres |
| Entrance Area Stockpile | 6.00 Acres |
| Entrance Area Paving | 4.00 Acres |
| Averaheg Haul Path | 1,400 Feet |

Modul Constrictin Dimensions

| Modul Constrictin Dimensions | |
|---|-------------------|
| Total Soil Excavation | 11,538,000 CY |
| Soil excavated for waste burial before excavation | 6,838,000 CY |
| Soil excavated for entrance | 230,000 CY |
| Remainder | 4,470,000 CY |
| Soil excavated per module project | 154,138 CY |
| Soil for Structural Fill | 1,329,000 CY |
| Structral Fill per Project | 45,828 CY |
| Soil for Clay | 217,000 CY |
| Clay per Project | 7,483 CY |
| Soil for Operations Layer | 436,000 CY |
| Operations per Project | 15,034 CY |
| Gravel per project | 7,483 CY |
| Pavement per project | 7,510 SF |
| Average Haul Path (secenariois 2-3) | 1,688 Ft, one way |
| Area | 195.23 Acres |
| Projects | 29 Each |
| Area/project | 6.73 Acres |
| Prokects 2023 to 2045 | 11 |
| Projects 2045 to 2087 | 18 |
| | |

Closure Dimensions

| 2,087,000 CY |
|--------------|
| 253 Acres |
| 4 Each |
| 521,750 CY |
| 63.25 Acres |
| |

Operations Dimensions

| Average Paved Road Length (scenario 2 -5) | 6,798 Ft, one way |
|--|-------------------|
| Average Gravel Road Length (scenario 2-5) | 829 Ft, one way |
| Average Unpaved Road Length (scenario 2-5) | 825 Ft, one way |

Table R-2 Entrance Area Project Work Days

JSRL DEIR Appendix B
Attachment R
Page 1 of 6
Lawrence & Associates

| | Task | Week Days | Calendar Days | Production | Units |
|----|---|-----------|---------------|------------|-----------------------------------|
| 1. | Mobilization in which the contractor moves their equipment onto the site – a few days. | 3 | 4.2 | | |
| 2. | Clearing in which the contractor strips and stockpiles topsoil and grass – less than a week. | 5 | 7 | | |
| 3. | Bulk excavation in which the contractor commonly moves over 100,000 cubic yards of soil to a stockpile – one to two | | | | |
| | months. | 38.33 | 53.67 | 6,000 | CY/WkDay |
| 4. | Underground utilities & drainage, assume three weeks | 15.00 | 21.00 | | |
| 5. | Concrete (scale & scalhouse footings) | 10.00 | 14.00 | | |
| 6. | Base and Paving | 7.00 | 9.80 | 1 | Acre/WkDay each for base & paving |
| 7. | Fencing | 10.00 | 14.00 | | |
| 8. | Building Placement | 5.00 | 7.00 | | |
| 9. | Erosion Control | 12.90 | 18.06 | 2 | Acre/WkDay |
| | Totals | 106.23 | 148.73 | | |
| | | | 4.89 | | Months |

Table R-3 Module Construction Project Phases Work Days, per Project

| | Task | Week Days | Calendar Days | Production | Units |
|-----|---|-----------|---------------|------------|---------------------|
| 1. | Mobilization in which the contractor moves their equipment onto the site – a few days. | 3 | 4.2 | | |
| 2. | Clearing in which the contractor strips and stockpiles topsoil and grass – less than a week. | 5 | 7 | | |
| 3. | Bulk excavation in which the contractor commonly moves over 100,000 cubic yards of soil to a stockpile - one to two | | | | |
| | months. | 25.69 | 35.97 | 6,000 | CY/WkDay |
| 4. | Structral fill concurrently with bulk excavation | 11.46 | 16.04 | 4,000 | CY/WkDay |
| 5. | Concurrently with bulk excavation, the contractor screens some of the excavated soil for use in the liner components. | | | | |
| | | 30.07 | 42.10 | 500 | CY/WkDay |
| 6. | Clay liner installation – a week or two. | 14.97 | 20.95 | 500 | CY/WkDay |
| 7. | Geocomposite clay liner - a week. | 5.33 | 7.46 | 55,000 | SF./dy |
| 8. | Geomembrane liner - a week. | 5.33 | 7.46 | 55,000 | SF/dy (5 rolls/day) |
| 9. | Leachate collection piping, gravel leachate drainage layer, and geotextile separator fabric – two weeks. | 14.97 | 20.95 | 500 | CY/WkDay |
| 10. | Soil operation layer installation. | 15.03 | 21.05 | 1,000 | |
| 11. | Base and Paving (concrrently with erosion control) | 3.76 | 5.26 | 4,000 | SF/Day x 2 |
| 12. | Draiange installation (concurrently with erosion control) | 6.73 | 9.42 | | |
| 13. | Erosion Control | 6.73 | 9.42 | 2 | Acre/Day |
| | Totals exceluding concurrent constriction | 126.12 | 176.57 | | |
| | | | 5.84 | Months | |

Table R-4 Closure Cap Work Days, per Project

| | Task | Week Days | Calendar Days | Production | Units |
|----|---|-----------|---------------|------------|-------------|
| 1. | Mobilization in which the contractor moves their equipment onto the site – a few days. | 3 | 4.20 | | |
| 2. | Clearing in which the contractor strips and stockpiles topsoil and grass – less than a week. | 5 | 7.00 | | |
| 3. | Temorarily remove LFG piping | 10 | 14.00 | | |
| 4. | Bulk excavation in which the contractor commonly moves over 100,000 cubic yards of soil to a stockpile – one to two | 52.18 | 73.05 | 10,000 | CY/WkDay |
| 5. | Drainage Installation | 10.00 | 14.00 | | |
| 6. | Reinstall LFG piping | 10.00 | 14.00 | | |
| 7. | Erosion Control (capping area x 1.25), Assume 2 crews | 19.77 | 27.67 | 4 | Acres/WkDay |
| | Total | 109.94 | 153.92 | | |
| | | | 5.06 | Months | |

Table R5 - LFG Installation Work Days (lifetime)

| | Task | | | | | | Units |
|---|------|------|-----------|--------|--------|---|---------------|
| 1. Mobilization in which the contractor moves their | | | | | | | |
| | | | | 195 | 273.00 | | |
| 2. Vertuical Well Drilling, well per two acres | 98 | each | | 98 | 137.20 | 1 | well/wkdy |
| 3. Horizontal Collectors, collector per two acres | 98 | each | | 98 | 137.20 | 1 | well/wkdy |
| 4. Piping, assume one days per well or collector | 196 | days | | 196.00 | 274.40 | 1 | Day/well |
| | | | Total | 587.00 | 821.80 | | Days Totals |
| | | | Years | 64.00 | 64.00 | | |
| | · | | Days/year | 9.17 | 12.84 | | Days per year |

JSRL DEIR Appendix B
Attachment R
Page 2 of 6
Lawrence & Associates

Entrance

Table R6 - On-Road Support Vehicles Entrance Construction

| Vehicle Properties | Vehicle Properties | | | | | | | | | |
|--|--------------------|-------------------|--------------------|--------------------------|----|----|--|--|--|--|
| On-Road Vehicles | Vehicle Category | Miles 2023 - 2045 | Miles 2045 to 2087 | Load Factor ⁵ | NA | NA | 2025 Exhaust Emissions Factor PM2.5 (g/mile) | 2025 Exhaust Emissions PM2.5 (lbs/project) | 2050 Exhaust Emissions Factor PM2.5 (g/mile) | 40% of 2045 to 2087 Exhaust Emissions PM2.5 (lbs/day) |
| Ford Mechanic Truck (DSL) | LHD1 | 340 | 0 | 1 | | | 3.19E-02 | 0.024 | 7.06E-03 | 0.000 |
| Ford F450 Flat Bed (DSL) | LHD2 | 340 | 0 | 1 | | | 2.84E-02 | 0.021 | 1.70E-02 | 0.000 |
| Water Truck (DSL) ¹ | T6 CAIRP heavy | 10,883 | 0 | 1 | | | 1.42E-02 | 0.340 | 7.60E-04 | 0.000 |
| Support Light Heavy Duty Trucks (2, DSL) | LHD1 | 680 | 0 | 1 | | | 3.19E-02 | 0.048 | 1.74E-02 | 0.000 |
| Tractor Trailer Delivery (DSL) (inc, concerete & base) | T7 CAIRP | 112 | 0 | 1 | | | 1.78E-02 | 0.004 | 2.19E-02 | 0.000 |
| Carpool Vehicles (2, Gas) | LDT1 | 352 | 0 | 1 | | | NA | 0.000 | 4.81E-03 | 0.000 |
| | | | | | | | Total 2023-2045 | 0.437 | Total 2026-2087 | 0.000 |
| | | | | | | | DPM | 3.50E-02 | | 0.00E+00 |

Table R7 - Emissions from Off-Road Vehicles Entrance Construction

Assuming 2020 Model Year or Better

| Vehicle Properties | Vehicle Properties | | | | | | | | Air Quality Emission Factors and Calculations | |
|--------------------------------------|---|------------------------------|-----------------------|-------|-------------|----------------------------|-------------------|--|--|--|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/ Model/ Fuel | Model Year (motor) | HP | Load Factor | Operating Hours per Day | Days of Operation | Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Emissions PM2.5 (lbs/project) ⁹ | |
| Dozer | Crawler Tractors | Caterpillar D8T Diesel | 2020 | 310 | 0.43 | 8 | 43.33 | 0.130 | 13.24 | |
| Dozer (Stockpile Area) | Crawler Tractors | Caterpillar D6R Diesel | 2020 | 140 | 0.43 | 8 | 38.33 | 0.250 | 10.18 | |
| Grader for roads | Graders | Caterpillar 140G Diesel | 2020 | 150 | 0.41 | 8 | 18.72 | 0.284 | 5.77 | |
| Loader for Mic. Work | Rubber Tired Loaders | Caterpillar 938M Diesel | 2020 | 190 | 0.36 | 8 | 42.00 | 0.104 | 5.27 | |
| Pad-Foot Compactor - Structural Fill | Rollers | Caterpillar 826C Diesel | 2020 | 341 | 0.38 | 9 | 38.33 | 0.101 | 9.95 | |
| Smooth Drum Roller Pavment & Base | Rollers | Caterpillar CS34 Diesel | 2020 | 74 | 0.38 | 8 | 7.00 | 0.228 | 0.79 | |
| Backhoe for underground | Tractors/Loaders/ Backhoes | Caterpillar 426C Diesel | 2020 | 88 | 0.37 | 6 | 25.69 | 0.193 | 2.14 | |
| Excavator for bulk excavation (2) | Excavators | John Deere 350 Diesel | 2020 | 271 | 0.38 | 18 | 25.69 | 0.048 | 5.04 | |
| Extended Loader for buildings | Tractors/Loaders/ Backhoes | JCB 20TC | 2020 | 74 | 0.37 | 2 | 5.00 | 0.193 | 0.12 | |
| Off-Road Dump/haul truck (3) | Off-Highway Trucks | Caterpillar 740 diesel | 2020 | 453 | 0.38 | 27 | 38.33 | 0.079 | 31.03 | |
| Crane | Cranes | | 2020 | 0.274 | 0.29 | 2 | 2 | 0.274 | 0.00 | |
| Paving Mahine | Paving Equipment | | 2020 | 175 | 0.36 | 8 | 3.5 | 0.118 | 0.46 | |
| Hydroseeder | Other | | 2020 | 200 | 0.42 | 8 | 12.90 | 0.106 | 2.03 | |
| | | | | | | | | Total | 86.01 | |
| | | | | | | | | DPM | 6.88 | |

MODULE CONSTRUCTION

Table R8 - On-Road Module Construction Support Vehicles

| | Vehicle Propertie | s | | | | | Air Quality Emission | on Factors and Calcul | ations | |
|--|-------------------|-------------------|--------------------|--------------------------|----------|--|---|---|--|---|
| On-Road Vehicles | Vehicle Category | Miles 2023 - 2045 | Miles 2045 to 2087 | Load Factor ⁵ | | 2045 Exhaust Emissions Factor PM2.5 (g/mile) | 2023 to 2045 Acerage Exhaust Emissions Factor PM2.5 (g/mile) | 2023 to 2045 Exhaust Emissions PM2.5 (lbs/day) ⁸ | 2050 Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | 40% of 2045 to 2087 Exhaust Emissions PM2.5 (lbs/day) ⁸ |
| Ford Mechanic Truck (DSL) | LHD1 | 4,442 | 7,268 | 1 | 3.45E-02 | 8.68E-03 | 2.16E-02 | 0.212 | 7.06E-03 | 0.045 |
| Ford F450 Flat Bed (DSL) | LHD2 | 4,442 | 7,268 | 1 | 2.94E-02 | 1.83E-02 | 2.39E-02 | 0.234 | 1.70E-02 | 0.109 |
| Water Truck (DSL) ¹ | T6 CAIRP heavy | 142,129 | 232,574 | 1 | 1.29E-02 | 1.99E-02 | 1.64E-02 | 5.135 | 7.60E-04 | 0.156 |
| Support Light Heavy Duty Trucks (2, DSL) | LHD1 | 8,883 | 14,536 | 1 | 3.45E-02 | 8.68E-03 | 2.16E-02 | 0.423 | 1.74E-02 | 0.223 |
| Tractor Trailer Delivery (DSL) | T7 CAIRP | 903 | 1,477 | 1 | 2.99E-02 | 2.68E-02 | 2.83E-02 | 0.056 | 2.19E-02 | 0.029 |
| Carpool Vehicles (2, Gas) | LDT1 | 903 | 1,477 | 1 | NA | | | 0.000 | 4.81E-03 | 0.006 |
| | | | _ | _ | | | Total 2023-2045 | 6.060 | Total 2026-2087 | 0.568 |
| | | | | | | | DPM | 4.85E-01 | | 4.54E-02 |

Table R9 - Emissions from Off-Road Vehicles Module Construction

CalEEMode Table 4.3 goes up to 2040

| Vehicle Properties | | | | | | | | | A | ir Quality Emission | Factors and Calculations | | |
|--------------------------------------|---|------------------------------|-----------------------|-----|-------------|----------------------------|-------------------|--|---|--|--|--|---|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/ Model/ Fuel | Model Year (motor) | НР | Load Factor | Operating Hours per Day | Days of Operation | 2020 Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | 2040 Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Avrrage 2020 - 2045 Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | 2023 - 2045 Average Emissions PM2.5 (lbs/11 projects) ⁹ | 40% of 2046-2086 Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | 40% of 2046-2086 Emissions PM2.5 (lbs/18 projects) ⁹ |
| Dozer, LGP, Gravel & Ops | Crawler Tractors | Caterpillar D6W Diesel | | 140 | 0.43 | 8 | 30.00 | 0.130 | 0.032 | 0.081 | 28.38 | 0.032 | 7.34 |
| Dozer | Crawler Tractors | Caterpillar D8T Diesel | | 310 | 0.43 | 8 | 25.69 | 0.130 | 0.074 | 0.102 | 67.77 | 0.074 | 32.18 |
| Dozer (Stockpile Area) | Crawler Tractors | Caterpillar D6R Diesel | | 140 | 0.43 | 8 | 25.69 | 0.130 | 0.032 | 0.081 | 24.30 | 0.032 | 6.28 |
| Grader for roads | Graders | Caterpillar 140G Diesel | | 150 | 0.41 | 8 | 19.97 | 0.130 | 0.017 | 0.074 | 17.51 | 0.017 | 2.65 |
| Loader for Mic. Work | Rubber Tired Loaders | Caterpillar 938M Diesel | | 190 | 0.36 | 8 | 30.07 | 0.130 | 0.013 | 0.072 | 28.53 | 0.013 | 3.40 |
| Pad-Foot Compactor - Structural Fill | Rollers | Caterpillar 826C Diesel | | 341 | 0.38 | 9 | 11.46 | 0.130 | 0.012 | 0.071 | 23.01 | 0.012 | 2.55 |
| Smooth Drum Roller Pavment & Base | Rollers | Caterpillar CS34 Diesel | | 74 | 0.38 | 8 | 9.09 | 0.130 | 0.021 | 0.076 | 3.74 | 0.021 | 0.68 |
| Backhoe for underground | Tractors/Loaders/ Backhoes | Caterpillar 426C Diesel | | 88 | 0.37 | 6 | 6.73 | 0.130 | 0.016 | 0.073 | 2.33 | 0.016 | 0.33 |
| Excavator for bulk excavation (2) | Excavators | John Deere 350 Diesel | | 271 | 0.38 | 18 | 25.69 | 0.130 | 0.011 | 0.071 | 81.41 | 0.011 | 8.31 |
| Extended Loader for linber | Tractors/Loaders/ Backhoes | JCB 20TC | | 74 | 0.37 | 2 | 10.66 | 0.130 | 0.016 | 0.073 | 1.03 | 0.016 | 0.15 |
| Off-Road Dump/haul truck (3) | Off-Highway Trucks | Caterpillar 740 diesel | | 453 | 0.38 | 27 | 25.69 | 0.130 | 0.012 | 0.071 | 205.58 | 0.012 | 22.74 |
| Crane | Cranes | | | 175 | 0.29 | 2 | 0 | 0.130 | 0.016 | 0.073 | 0.00 | 0.016 | 0.00 |
| Paving Mahine | Paving Equipment | | | 175 | 0.36 | 8 | 97.5 | 0.130 | 0.024 | 0.077 | 91.76 | 0.024 | 18.72 |
| Screening Plant | Other | | | 175 | 0.43 | | 30.07 | 0.130 | 0.011 | 0.071 | 0.00 | 0.011 | 0.00 |
| Hydroseeder | Other | | | 200 | 0.42 | 8 | 6.73 | 0.130 | 0.011 | 0.071 | 7.73 | 0.011 | 0.79 |
| Totals | | · | | | | | | | | Total 2023-2045 | 554.71 | Total 2046-2086 | 98.79 |
| | | | | | | | | | | DPM | 44.38 | DPM | 7.90 |

CLOSURE CAP

Table R10 - On-Road Closure Cap Constrcuton Support Vehicles

Assum same as module contruction project on a per closure project basis.

| | Vehicle Propertie | S | | | | | Air Quality Emissio | n Factors and Calcul | ations | |
|--|-------------------|-------------------|--------------------|-------------|----------|--|---|---|--|---|
| On-Road Vehicles | Vehicle Category | Miles 2023 - 2045 | Miles 2045 to 2087 | Load Factor | | 2045 Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | 2023 to 2045 Average Emissions Factor PM2.5 (g/mile) ¹⁰ | 2023 to 2045 Exhaust Emissions PM2.5 (lbs/day) ⁸ | 2050 Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | 40% of 2046 to 2086 Exhaust Emissions PM2.5 (lbs/day) ⁸ |
| Ford Mechanic Truck (DSL) | LHD1 | 404 | 1,211 | 1 | 3.45E-02 | 8.68E-03 | 2.16E-02 | 0.019 | 7.06E-03 | 0.008 |
| Ford F450 Flat Bed (DSL) | LHD2 | 404 | 1,211 | 1 | 2.94E-02 | 1.83E-02 | 2.39E-02 | 0.021 | 1.70E-02 | 0.018 |
| Water Truck (DSL) ¹ | T6 CAIRP heavy | 1,175 | 6,460 | 1 | 1.29E-02 | 1.99E-02 | 1.64E-02 | 0.042 | 7.60E-04 | 0.004 |
| Support Light Heavy Duty Trucks (2, DSL) | LHD1 | 73 | 404 | 1 | 3.45E-02 | 8.68E-03 | 2.16E-02 | 0.003 | 1.74E-02 | 0.006 |
| Tractor Trailer Delivery (DSL) | T7 CAIRP | 48 | 195 | 1 | 2.99E-02 | 2.68E-02 | 2.83E-02 | 0.003 | 2.19E-02 | 0.004 |
| Carpool Vehicles (2, Gas) | LDT1 | 48 | 585 | 1 | NA | | | | | |
| | | | | | | | Total 2023-2045 | 0.089 | Total 2026-2087 | 0.040 |
| | | | | | | | DPM | 7.15E-03 | | 3.20E-03 |

Table Q4 - Emissions from Off-Road Vehicles Closure Construction

CalEEMode Table 4.3 goes up to 2040

| | | Vehicle Prope | rties | | | | | | Ai | r Quality Emission I | Factors and Calculations | | |
|--|---|------------------------------|-----------------------|-----|-------------|----------------------------|----------------------------------|--|---|--|---|--|---|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/ Model/ Fuel | Model Year (motor) | НР | Load Factor | Operating Hours per Day | Days of Operation per Project | 2020 Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | 2040 Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Avrrage 2020 - 2040 Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | 2023 - 2045 Average Emissions PM2.5 (lbs/ 1 project) ⁹ | 2040 Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | 2046-2087 Emissions PM2.5 (lbs/3 projects) ⁹ |
| Dozer, LGP, soil spreading | Crawler Tractors | Caterpillar D6W Diesel | | 140 | 0.43 | 8 | 52.18 | 0.130 | 0.032 | 0.081 | 4.49 | 0.032 | 2.84 |
| Dozer | Crawler Tractors | Caterpillar D8T Diesel | | 310 | 0.43 | 8 | 52.18 | 0.130 | 0.074 | 0.102 | 12.51 | 0.074 | 14.52 |
| Dozer - Not Used | Crawler Tractors | Caterpillar D6R Diesel | | 140 | 0.43 | 8 | 52.18 | 0.130 | 0.032 | 0.081 | 4.49 | 0.032 | 2.84 |
| Grader for roads and smothe top grading | Graders | Caterpillar 140G Diesel | | 150 | 0.41 | 8 | 57.18 | 0.130 | 0.017 | 0.074 | 4.56 | 0.017 | 1.69 |
| Loader for Mic. Work | Rubber Tired Loaders | Caterpillar 938M Diesel | | 190 | 0.36 | 8 | 101.94 | 0.130 | 0.013 | 0.072 | 8.79 | 0.013 | 2.56 |
| Pad-Foot Compactor - Not used for ET Cap | Rollers | Caterpillar 826C Diesel | | 341 | 0.38 | 9 | 0.00 | 0.130 | 0.012 | 0.071 | 0.00 | 0.012 | 0.00 |
| Smooth Drum Roller Pavment & Base | Rollers | Caterpillar CS34 Diesel | | 74 | 0.38 | 8 | 0.00 | 0.130 | 0.275 | 0.203 | 0.00 | 0.275 | 0.00 |
| Backhoe for LFG lines | Tractors/Loaders/ Backhoes | Caterpillar 426C Diesel | | 88 | 0.37 | 6 | 49.77 | 0.130 | 0.016 | 0.073 | 1.56 | 0.016 | 0.55 |
| Excavator for bulk excavation (0) | Excavators | John Deere 350 Diesel | | 271 | 0.38 | 18 | 0.00 | 0.130 | 0.011 | 0.071 | 0.00 | 0.011 | 0.00 |
| Extended Loader for liner | Tractors/Loaders/ Backhoes | JCB 20TC | | 74 | 0.37 | 2 | 0.00 | 0.130 | 0.016 | 0.073 | 0.00 | 0.016 | 0.00 |
| Off-Road Dump/haul truck (0) - assume scrapers | Off-Highway Trucks | Caterpillar 740 diesel | | 453 | 0.38 | 27 | 0.00 | 0.130 | 0.012 | 0.071 | 0.00 | 0.012 | 0.00 |
| Scrapers (4) | Scrapers | | | 850 | | 48 | 52.18 | | | | 0.00 | | 0.00 |
| Crane - Not used | Cranes | | | 175 | 0.29 | 2 | 0 | 0.130 | 0.016 | 0.073 | 0.00 | 0.016 | 0.00 |
| Paving Machine - Assume already paved | Paving Equipment | | | 175 | 0.36 | 8 | 0 | 0.130 | 0.024 | 0.077 | 0.00 | 0.024 | 0.00 |
| Screening Plant - Not Usesd | Other | | | 175 | 0.43 | 0 | 0.00 | 0.130 | 0.011 | 0.071 | 0.00 | 0.011 | 0.00 |
| Hydroseeder | Other | | | 200 | 0.42 | 8 | 19.77 | 0.130 | 0.011 | 0.071 | 2.06 | 0.011 | 0.52 |
| Totals | | | | | | | | | | Total 2023-2045 | 33.98 | Total 2046-2087 | 22.67 |
| | | | | | | | | | | DPM | | DPM | |

LFG INSTALLATIONS

Table R11 - On-Road LFG Construction Support Vehicles

| | Vehicle Properties | s | | | | Air Quality Emission Factors and Calculations | | | | | | | |
|--|--------------------|-------------------|--------------------|-------------|----------|--|------------------|---|--|---|--|--|--|
| On-Road Vehicles | Vehicle Category | Miles 2023 - 2045 | Miles 2045 to 2087 | Load Factor | | 2045 Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | Emissions Factor | 2023 to 2045 Exhaust Emissions PM2.5 (lbs/day) ⁸ | 2050 Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | 40% of 2045 to 2087 Exhaust Emissions PM2.5 (lbs/day) ⁸ | | | |
| Ford Mechanic Truck (DSL) | LHD1 | 646 | 1,233 | 1 | 3.45E-02 | 8.68E-03 | 2.16E-02 | 0.031 | 7.06E-03 | 0.008 | | | |
| Ford F450 Flat Bed (DSL) | LHD2 | 646 | 1,233 | 1 | 2.94E-02 | 1.83E-02 | 2.39E-02 | 0.034 | 1.70E-02 | 0.019 | | | |
| Water Truck (DSL) ¹ | T6 CAIRP heavy | 0 | 0 | 1 | 1.29E-02 | 1.99E-02 | 1.64E-02 | 0.000 | 7.60E-04 | 0.000 | | | |
| Support Light Heavy Duty Trucks (2, DSL) | LHD1 | 646 | 1,233 | 1 | 3.45E-02 | 8.68E-03 | 2.16E-02 | 0.031 | 1.74E-02 | 0.019 | | | |
| Tractor Trailer Delivery (DSL) | T7 CAIRP | 646 | 1,233 | 1 | 2.99E-02 | 2.68E-02 | 2.83E-02 | 0.040 | 2.19E-02 | 0.024 | | | |
| Carpool Vehicles (2, Gas) | LDT1 | 646 | 1,233 | 1 | NA | | | | · | | | | |
| | | | | | | | Total 2023-2045 | 0.136 | Total 2026-2086 | 0.069 | | | |
| | | | | | | | DPM | 1.09E-02 | DPM | 5.51E-03 | | | |

Table R12 - Emissions from Off-Road Vehicles LFG Installation

CalEEMode Table 4.3 goes up to 2040

| | | Vehicle Propo | erties | | | | | | A | ir Quality Emission | Factors and Calculations | i | |
|---------------------------------|---|------------------------------|-----------------------|-----|-------------|----------------------------|----------------------------------|--|---|--|---|-----------------|--|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/ Model/ Fuel | Model Year (motor) | НР | Load Factor | Operating Hours per Day | Days of Operation per Project | 2020 Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | 2040 Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | Avrrage 2020 - 2040 Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | 2023 - 2045 Average Emissions PM2.5 (lbs/ 22 projects) ⁹ | | 2045 - 2086 Emissions PM2.: (lbs/ 41 projects) |
| Loader for Mic. Work | Rubber Tired Loaders | Caterpillar 938M Diesel | NA | 190 | 0.36 | 2 | 9.17 | 0.130 | 0.013 | 0.072 | 4.35 | 0.013 | 0.59 |
| Backhoe for LFG lines | Tractors/Loaders/ Backhoes | Caterpillar 426C Diesel | NA | 88 | 0.37 | 4 | 9.17 | 0.130 | 0.016 | 0.073 | 4.23 | 0.016 | 0.69 |
| Excavator for Well Installation | Excavators | John Deere 350 Diesel | NA | 271 | 0.38 | 2 | 9.17 | 0.130 | 0.011 | 0.071 | 6.46 | 0.011 | 0.75 |
| Well Drilling Machine | Bore/Drill Rigs | | NA | 500 | 0.5 | 8 | 4.59 | 0.038 | 0.010 | 0.024 | 10.68 | 0.010 | 3.32 |
| Totals | | | | _ | _ | | | | | Total 2023-2045 | 25.72 | Total 2046-2086 | 5.35 |
| | | | | | | | | | | DDM | 2.06 | DDM | 0.43 |

OPERATIONS

Table R12 - Emissions from On-Road Support and Waste Dleivery Vehicles for Operations

| | Vehicle P | roperties | | | | | | Air Quality Emissi | on Factors and Calculat | ions | |
|---|---|-------------------|--------------------|-----------------------------------|-------------|--|--|---|---|--|--|
| On-Road Vehicles | Vehicle Category | Miles 2023 - 2045 | Miles 2046 to 2070 | Miles 2072 to 2086 (in County) | Load Factor | 2023 Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | 2045 Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | 2023 to 2045 Average Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | 2023 to 2045 Exhaust Emissions PM2.5 (lbs/day) ⁸ | 2050 Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | 40% of 2045 to 2086 Exhaust Emissions PM2.5 (lbs/day) ⁸ |
| Support | | | | | | | | | | | |
| Ford Mechanic Truck (DSL) 2010 | LHD1 | 158,840 | 180,500 | 108,300 | 1 | 3.45E-02 | 8.68E-03 | 2.16E-02 | 7.566 | 7.06E-03 | 1.797 |
| Fuel Truck (DSL) 2010 | LHD2 | 79,420 | 90,250 | 54,150 | 1 | 2.94E-02 | 1.83E-02 | 2.39E-02 | 4.182 | 1.70E-02 | 2.169 |
| Roll-Off Truck (DSL) 2010 | T7 CAIRP | 158,840 | 180,500 | 108,300 | 1 | 2.68E-02 | 2.83E-02 | 2.76E-02 | 9.656 | 7.60E-04 | 0.194 |
| Water Truck, (DSL) 2010 | T7 CAIRP | 397,100 | 451,250 | 270,750 | 1 | 2.68E-02 | 2.83E-02 | 2.76E-02 | 24.140 | 1.74E-02 | 11.056 |
| Water Truck DSL (Backup), 2006 | T6 CAIRP Heavy | 397,100 | 451,250 | 270,750 | 1 | 1.99E-02 | 1.64E-02 | 1.82E-02 | 15.891 | 2.19E-02 | 13.945 |
| Waste Delivery | | | | | | | | | | | |
| In-County Commercial Diesel ¹¹ | T7-SWCV (Dsl) | 696,176 | 791,109 | 62,200 | 1 | 0.018 | 0.017 | 1.76E-02 | 27.087 | 1.76E-02 | 13.280 |
| Out of County Commercial ¹² | Heavy-Heavy Duty Trucks (T7 CAIRP - Dsl) | 2,415,511 | 2,744,899 | 0 | 1 | 1.99E-02 | 1.64E-02 | 1.82E-02 | 96.663 | 1.74E-02 | 42.034 |
| | | | • | | | | | Total 2023-2045 | 185.18 | Total 2046-2086 | 84.47 |

Table R13 - Emissions from Off-Road Vehicles for Operations

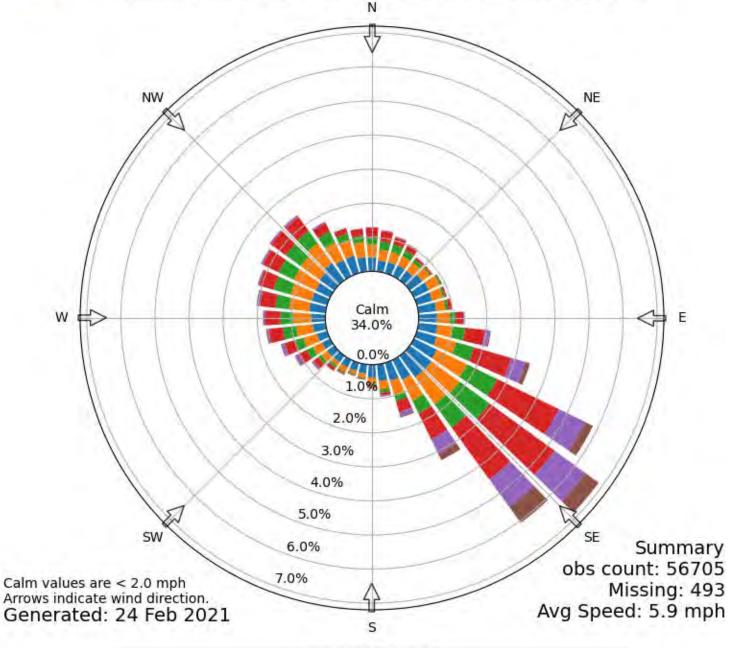
| | | Vehicle Prope | rties | | | | | Operation | on Properties | | Air Q | uality Emission Factors | s and Calculations | | |
|--------------------|---|--|-----------------------|-----------------|---------------|-------------------|--------------------------|-----------------------------------|--|--|---|-------------------------|---|-----------------|---|
| Off-Road Equipment | Off-Road Equipment Equivalent ¹ | Manufacturer/Model/ Fuel ² | Model Year (motor) | HP ³ | Miles Per Day | Tier ⁴ | Load Factor ⁵ | Average Hours Day ⁶ | Days of Operation/Year ⁶ | 2020 Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | 2040 Emissions Factor PM2.5 (g/bhp-hr) ¹¹ | PM2 5 (a/bbn bu)11 | 2023 - 2045 Average Emissions PM2.5 (lbs/ 22 yrs) | | 2045- 2086 Emissions PM2.5 (lbs/ yrs) ⁹ |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D6T LGP | 2025 | 255 | 10 | 4 (Final) | 0.43 | 8 | 361 | 0.130 | 0.032 | 0.081 | 1244.08 | 0.074 | 847.26 |
| Dozer (Mainline) | Crawler Tractors | Caterpillar D8T Diesel | 2025 | 310 | 10 | 4 (Final) | 0.43 | 8 | 361 | 0.130 | 0.074 | 0.102 | 1904.52 | 0.074 | 1030.00 |
| Dozer (Support) | Crawler Tractors | Caterpillar D6R Diesel | 2025 | 200 | 3 | 4 (Final) | 0.43 | 2 | 361 | 0.130 | 0.032 | 0.081 | 243.94 | 0.088 | 197.56 |
| Grader | Graders | Caterpillar 140G Diesel | 2025 | 150 | 6 | 4 (Final) | 0.41 | 2 | 361 | 0.130 | 0.017 | 0.074 | 158.29 | 0.140 | 224.76 |
| Loader | Rubber Tired Loaders | Caterpillar 938M Diesel | 2025 | 182 | 5 | 4 (Final) | 0.36 | 2 | 361 | 0.130 | 0.013 | 0.072 | 164.05 | 0.104 | 177.88 |
| Compactor | Rollers | Caterpillar 826K Diesel | 2025 | 426 | 9 | 4 (Final) | 0.38 | 8 | 361 | 0.130 | 0.012 | 0.071 | 1609.93 | 0.083 | 1402.96 |
| Compactor | Rollers | Caterpillar 826K Diesel | 2025 | 426 | 5 | 4 (Final) | 0.38 | 4 | 361 | 0.130 | 0.153 | 0.142 | 1604.26 | 0.083 | 701.48 |
| Backhoe | Tractors/Loaders/Backho | Caterpillar 426C Diesel | 2025 | 81.8 | 0 | 4 (Final) | 0.37 | 2 | 361 | 0.130 | 0.016 | 0.073 | 77.37 | 0.079 | 62.42 |
| Excavator | Excavators | John Deere 350 Diesel | 2025 | 283 | 0 | 4 (Final) | 0.38 | 6 | 361 | 0.130 | 0.011 | 0.071 | 796.48 | 0.024 | 202.12 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2025 | 380 | 22 | 4 (Final) | 0.38 | 8 | 361 | 0.130 | 0.016 | 0.073 | 1476.54 | 0.035 | 527.73 |
| Dump/Haul Truck | Off-Highway Trucks | John Deere 350 Diesel | 2025 | 380 | 11 | 4 (Final) | 0.38 | 4 | 361 | 0.130 | 0.012 | 0.071 | 718.04 | 0.035 | 263.86 |
| Truck Tipper | Other Construction Equipment | Columbia | 2025 | 156 | NA | 4 (Final) | 0.42 | 8 | 361 | 0.200 | 0.011 | 0.106 | 968.23 | 0.103 | 704.67 |
| Street Sweeper | Other Construction Equipment | Elgin 2019 | 2025 | 74 | NA | 4 (Final) | 0.42 | 4 | 361 | 0.130 | 0.016 | 0.073 | 158.90 | 0.187 | 303.44 |
| | <u> </u> | | | | | | | | • | - | • | Total 2023-2045 | 9,880.54 | Total 2046-2086 | 6,646.14 |
| | | | | | | | | | | | | DPM | 790.44 | DPM | 531.69 |



[CVH] Hollister

Windrose Plot [Time Domain: Jan,]

Time Bounds: 01 Jan 1973 12:00 AM - 31 Jan 2021 11:55 PM America/Los_Angeles



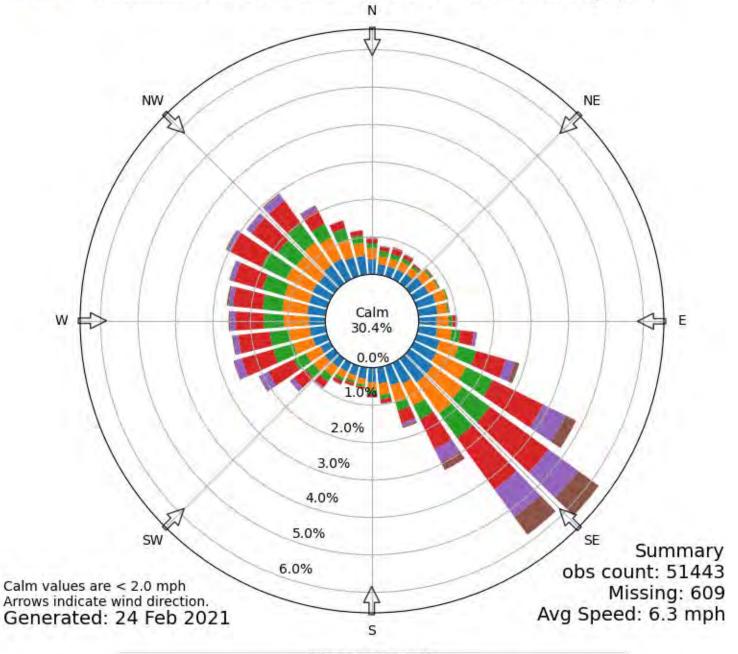




[CVH] Hollister

Windrose Plot [Time Domain: Feb,]

Time Bounds: 01 Feb 1973 12:00 AM - 24 Feb 2021 12:35 AM America/Los_Angeles



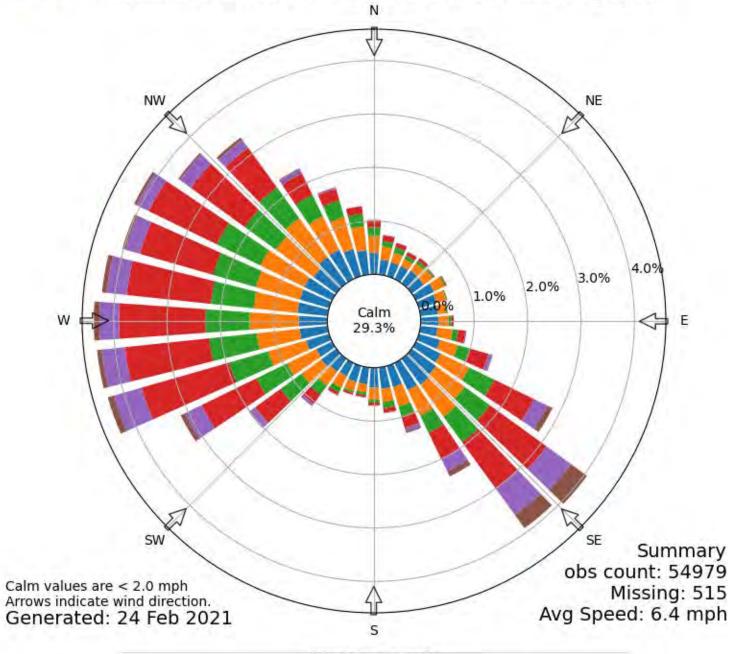
Wind Speed [mph]

5-7 7-10 10-15 15-20 20+



Windrose Plot [Time Domain: Mar,]

Time Bounds: 01 Mar 1973 12:00 AM - 31 Mar 2020 11:55 PM America/Los_Angeles



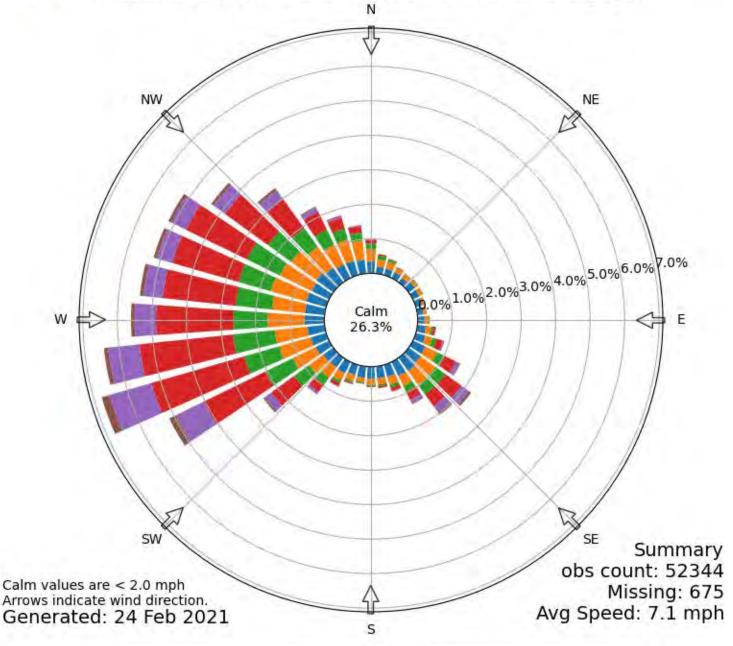
Wind Speed [mph]

5-7 7 7-10 10-15 15-20 20+



Windrose Plot [Time Domain: Apr,]

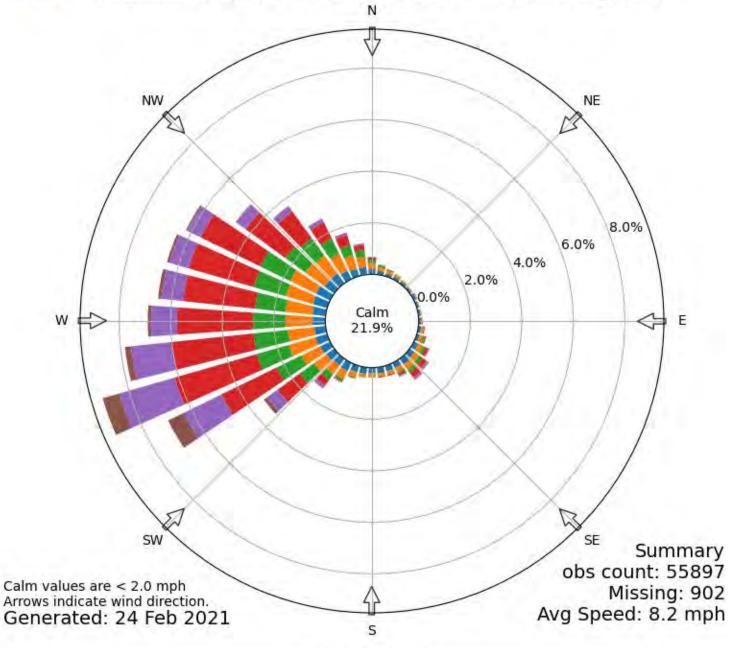
Time Bounds: 01 Apr 1973 12:00 AM - 30 Apr 2020 11:55 PM America/Los_Angeles







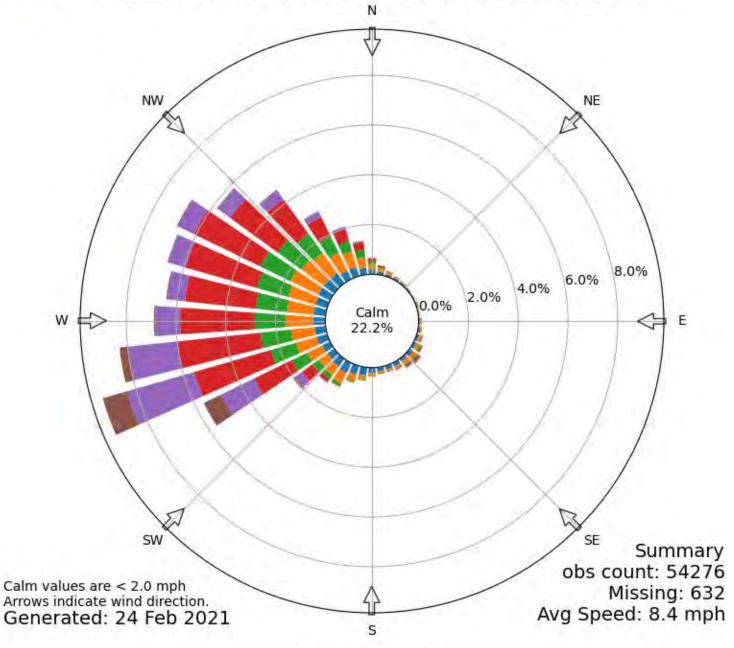
Windrose Plot [Time Domain: May,] Time Bounds: 01 May 1973 12:00 AM - 31 May 2020 11:55 PM America/Los_Angeles







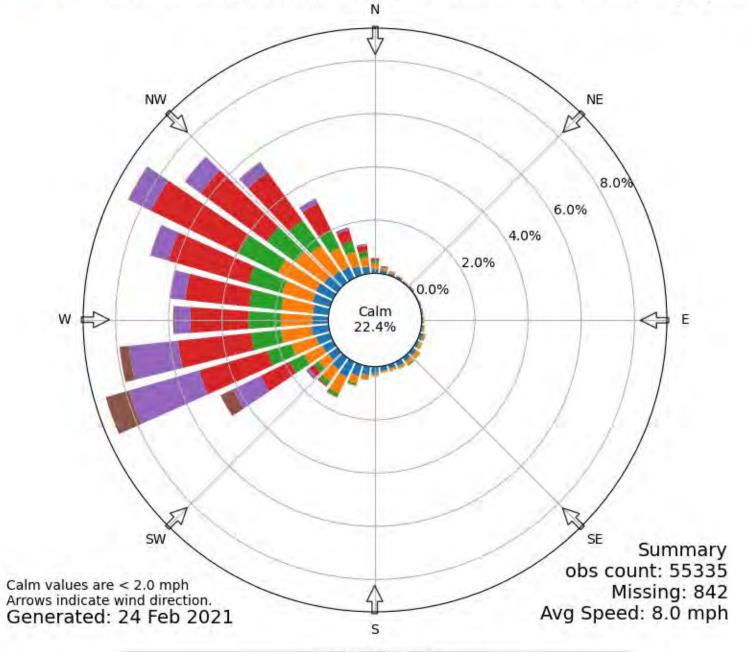
Windrose Plot [Time Domain: Jun,] Time Bounds: 01 Jun 1973 12:00 AM - 30 Jun 2020 11:55 PM America/Los_Angeles







Windrose Plot [Time Domain: Jul,] Time Bounds: 01 Jul 1973 12:00 AM - 31 Jul 2020 11:55 PM America/Los_Angeles



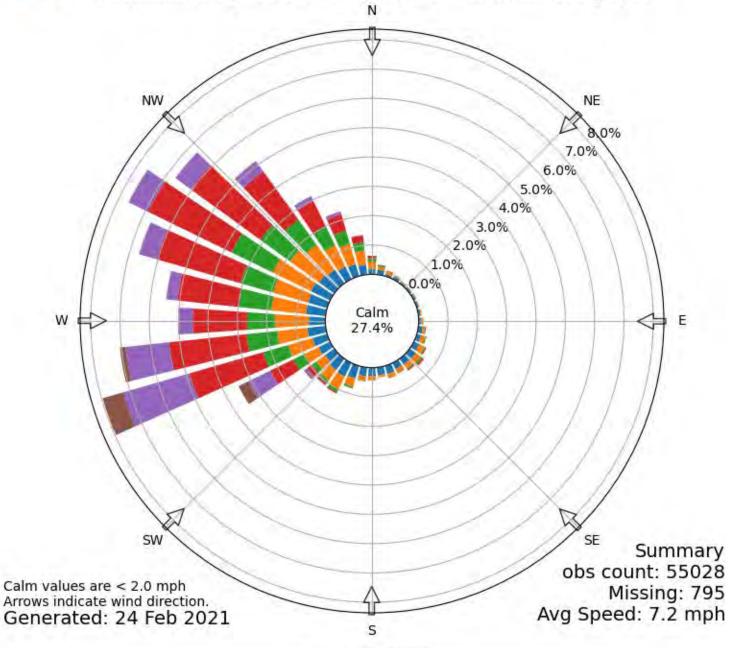
Wind Speed [mph]

5-7 7-10 10-15 15-20 20+



Windrose Plot [Time Domain: Aug,]

Time Bounds: 01 Aug 1973 12:00 AM - 31 Aug 2020 11:55 PM America/Los_Angeles



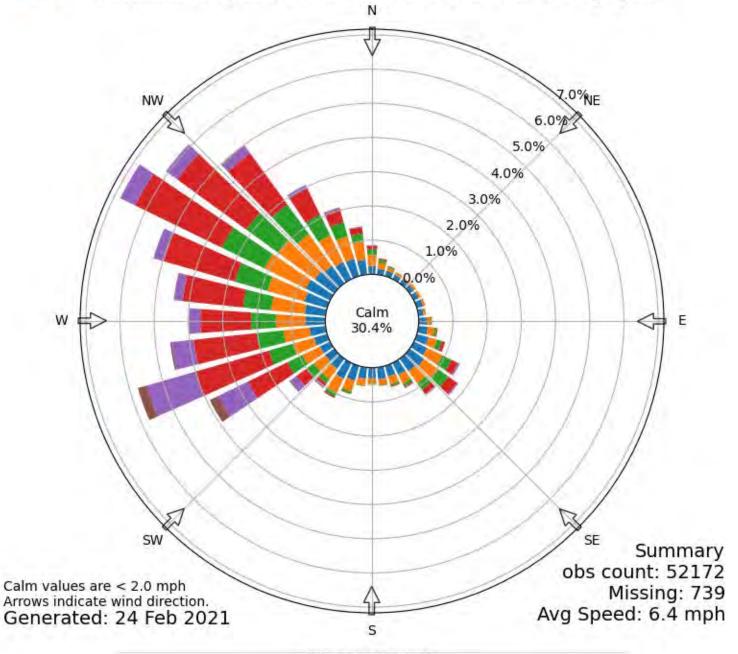
Wind Speed [mph]

■ 5-7 ■■ 7-10 ■■ 10-15 ■■ 15-20 ■■ 20+



Windrose Plot [Time Domain: Sep,]

Time Bounds: 01 Sep 1973 12:00 AM - 30 Sep 2020 11:55 PM America/Los_Angeles



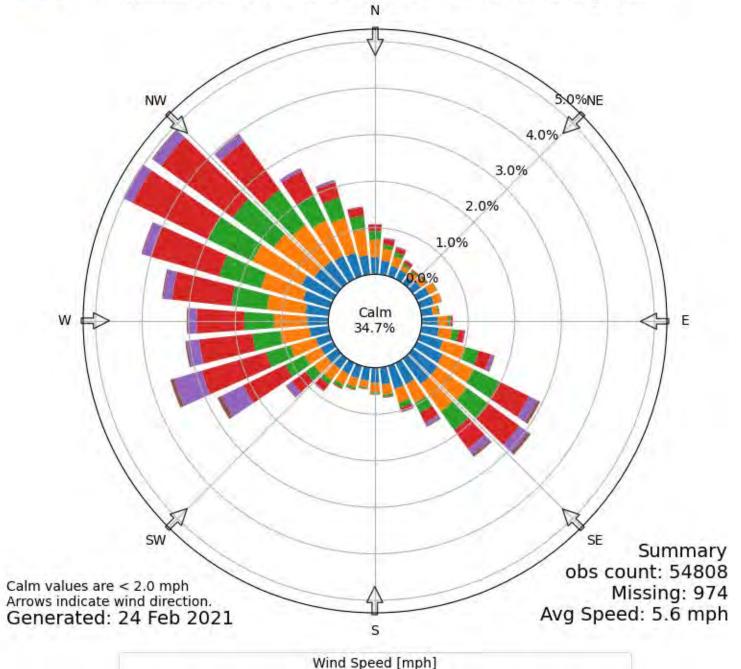
Wind Speed [mph]

5-7 7-10 10-15 15-20 20+



Windrose Plot [Time Domain: Oct,]

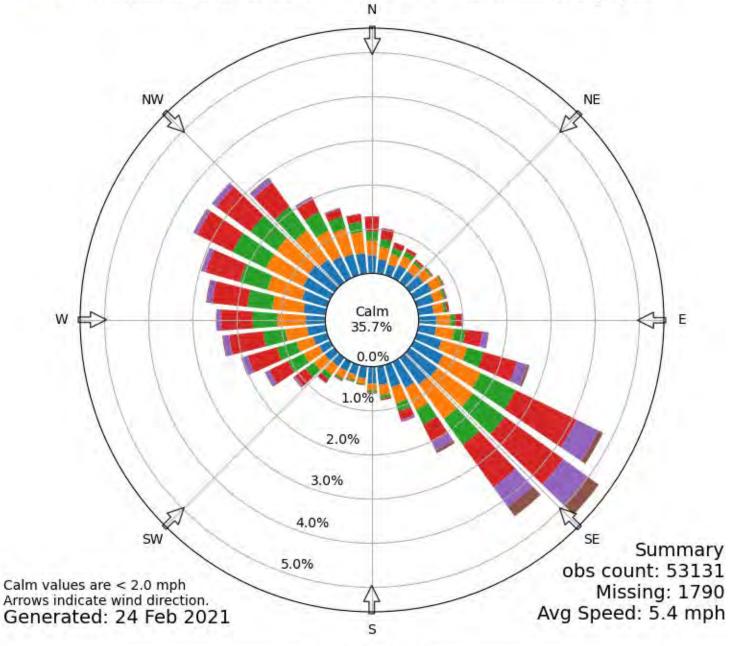
Time Bounds: 01 Oct 1973 12:00 AM - 31 Oct 2020 11:55 PM America/Los_Angeles



5-7 7-10 10-15 15-20 20+



Windrose Plot [Time Domain: Nov,] Time Bounds: 01 Nov 1973 12:00 AM - 30 Nov 2020 11:55 PM America/Los_Angeles

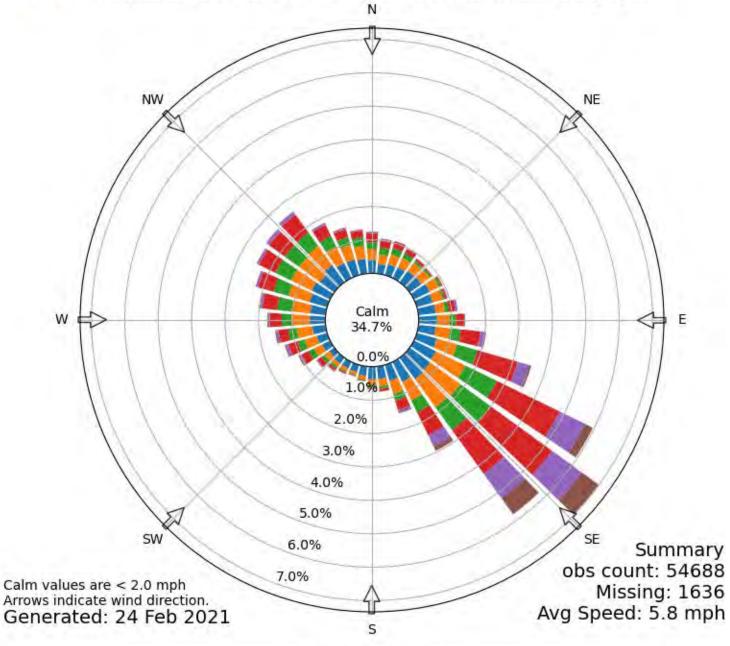






Windrose Plot [Time Domain: Dec,]

Time Bounds: 01 Dec 1973 12:00 AM - 31 Dec 2020 11:55 PM America/Los_Angeles







Emission Reductions and Environmental and Energy Benefits for Landfill Gas Energy Projects



Last Updated: October 2020

Instructions: This calculator estimates the direct methane, avoided carbon dioxide and total GHG reductions attributable to an LFG energy project for the current year, calculated from the project size entered by the user. Estimates can be calculated for two types of LFG energy projects: (1) Electricity and (2) Direct-use. For electricity projects, users may either select the AVERT region where the project is located or use the national average value. Additional information about the AVERT regions and national average value as well as equations and references for all calculations in this tool are available in the final two tabs of this file.

| For electricity generation projects, | | | For direct-use projects, | million standard cubic feet per day (mmscfd) |
|---|------------|--------|---|--|
| enter megawatt (MW) capacity: | 2.56 | - OR - | enter landfill gas utilized by project: | or |
| | | | | standard cubic feet per minute (scfm) |
| Select the AVERT region for the location of the | | | | |
| electricity project. As an alternative, you may | | | | |
| use the national average value. (See 'CO ₂ | | | | |
| Emission Factors' tab for map and names of | | | | |
| AVERT regions.): | California | a | | |

| Direct Equivalent E | missions Reduced | Avoided Equivalent | Emissions Reduced | Total Equivalent Emissions Reduced | | | |
|--|--------------------------------|---|------------------------------------|--|-----------------------------|------------------------------------|--|
| [Reduction of methane emitt | ed directly from the landfill] | [Offset of carbon dioxide from | avoiding the use of fossil fuels] | [Total = Direct + Avoided] | | | |
| MMTCO ₂ E/yr | tons CH₄/yr | MMTCO ₂ E/yr | tons CO ₂ /yr | MMTCO ₂ E/yr | tons CH₄/yr | tons CO ₂ /yr | |
| million metric tons of carbon dioxide equivalents per year | tons of methane per year | million metric tons of carbon dioxide equivalents per year | tons of carbon dioxide per year | million metric tons of carbon dioxide equivalents per year | tons of methane per year | tons of carbon dioxide per year | |
| 0.1157 | 5,100 | 0.0092 | 10,113 | 0.1248 | 5,100 | 10,113 | |
| Equivalent to any one of the follow | ving annual benefits: | Equivalent to any one of the | following annual benefits: | Equivalent to any one of the following annual benefits: | | | |
| Environmental Benefits | | Environmental Benefits | | Environmental Benefits | | | |
| Carbon sequestered by acres of U.S year: | forests in one 150,209 | Carbon sequestered by acres one year: | of U.S. forests in 11,915 | Carbon sequestered by acrone year: | es of U.S. forests in | 162,123 | |
| CO2 emissions from railcars' worth or | of coal burned: 636 | CO2 emissions from railcars' burned: | worth of coal 50 | CO2 emissions from railcar burned: | s' worth of coal | 686 | |
| CO2 emissions from gallons of gaso | line consumed: 13,014,594 | CO2 emissions from gallons of consumed: | of gasoline 1,032,319 | CO2 emissions from gallon consumed: | s of gasoline | 14,046,913 | |

Energy Benefits (based on project size entered):

View Calculations and References

Powering homes:

For additional environmental benefit options, view the Greenhouse Gas Equivalencies Calculator on EPA's Energy and the Environment website.

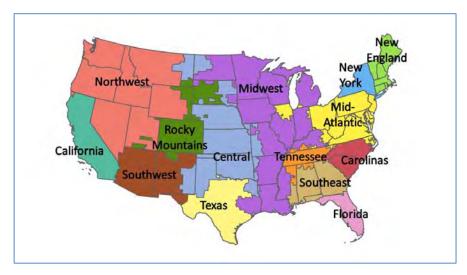
LFGE Benefits Calculator https://www.epa.gov/lmop/ landfill-gas-energy-benefits-calculator

Regional Grid Carbon Dioxide Avoided Emission Factors

The EPA developed a set of regional emission factors based on the AVoided Emissions and geneRation Tool (AVERT). The factors can be used to evaluate the carbon dioxide (CO₂) emissions avoided at electric power plants by renewable energy policies and programs, such as LFG energy.

This LMOP LFG Energy Benefits Calculator uses AVERT values for year 2019. See the map below of AVERT regions to determine the appropriate region for the LFG energy project location for which you are calculating emission reductions and environmental and energy benefits. As an alternative to a regional value, you may select the national average value which reflects a weighted average of the avoided emission rates of AVERT's 14 regions. Averages are weighted by the fraction of 2019 fossil generation in each region. Note, when using an emission factor for future years (i.e., 2020 to 2024), any retirements or additions that may take place in that future year are not included the calculation. AVERT factors are not available for Alaska, Hawaii or the U.S. Territories. More information about AVERT is available at: https://www.epa.gov/statelocalenergy/avoided-emission-factors-generated-avert-0

| | 2019 Avoided CO ₂ Rate | | | | | | |
|------------------|-----------------------------------|--|--|--|--|--|--|
| AVERT Region | (lbs/MWh, Uniform EE) | | | | | | |
| California | 1,061 | | | | | | |
| Carolinas | 1,664 | | | | | | |
| Central | 1,800 | | | | | | |
| Florida | 1,087 | | | | | | |
| Mid-Atlantic | 1,540 | | | | | | |
| Midwest | 1,860 | | | | | | |
| New England | 1,104 | | | | | | |
| New York | 1,090 | | | | | | |
| Northwest | 1,636 | | | | | | |
| Rocky Mountains | 1,904 | | | | | | |
| Southeast | 1,563 | | | | | | |
| Southwest | 1,544 | | | | | | |
| Tennessee | 1,479 | | | | | | |
| Texas | 1,282 | | | | | | |
| National Average | 1,550 | | | | | | |



These LFG electricity avoided emission factors are based on the AVERT factors for Uniform Energy Efficiency (EE). Uniform EE is a local (distributed) energy resource that replaces centrally generated power and the factors include an upward adjustment to account for avoided line loss. These factors represent consistent energy savings throughout the year. Similarly, most LFG electricity projects are a local distribution-level resource that provides a constant energy savings.

John Smith Road Landfill

ATTACHMENT U

Table U1 - Modeled Annual GHG Emissions

Transition from 2020 to 2035 emissions factors Transition from 2035 to 2050 emissions factors

Assume 40% of 2050 emissions factors (most vehicles converted to carbon neutral emissions)

Peak value compared to baseline to calculate yearly change

| | Peak value compared to baseline to calculate yearly change GHG Emissions from Trips AVERAGE TRIPS (Attachment E) Emissions Factors From Att. F and G Traffic Totals | | | | | | | | | | | |
|--|---|--------------------------|----------|--------------|---|--------------------------|--------------------------------|---|--------------------------|----------------------|----------------|------------------|
| | | | AVERAGE | I KIPS (Atta | cnment E) | | | Emissions Fa | ctors From Att | . Fand G | Traffic | Totals |
| | Self-Haul / Residential In County | Commercial In County, | • | Total | Self-Haul / Residential In County | Commercial In County, | Out-of- County Trips Per | Self-Haul / Residential In County CO ₂ e | Commercial In County, | Out-of- County | Total | |
| Year | Trips/Day | Trips/Day | Day | Day | Miles/Year | Miles/Year | | g/mi | CO₂e g/mi | CO₂e g/mi | MTCO₂e/yr | MTCO₂e/yr |
| Miles per Trip Average ⁴ | | | | | 16.70 | 16.70 | 102.29 | | | | 2,982 | -813 |
| Baseline: | 188 | 31 | 36 | 255 | 1,133,396 | 186,890 | 1,329,361 | 1.04E+03 | 1.78E+03 | 1.72E+03 | 3,795 | 0 |
| 2021 | 185 | 30 | | | 1,114,128 | 183,713 | 1,329,361 | 1.02E+03 | 1.84E+03 | 1.67E+03 | 3,698 | -97 |
| 2022 2023 | 186 187 | 31 31 | 40 44 | | 1,121,481 1,129,444 | 184,925 186,238 | 1,477,068 1,624,774 | 1.01E+03 9.91E+02 | 1.91E+03 1.97E+03 | 1.62E+03 1.57E+03 | 3,875 4,038 | 80 243 |
| 2024 | 189 | 31 | 48 | 268 | 1,138,818 | 187,784 | 1,772,481 | 9.75E+02 | 2.03E+03 | 1.52E+03 | 4,189 | 394 |
| 2025 | 190 | 31 | 52 | | 1,148,156 | 189,324 | 1,920,188 | 9.59E+02 | 2.10E+03 | 1.47E+03 | 4,325 | 530 |
| 2026 2027 | 192 194 | 32 32 | 56 60 | | 1,158,375 1,168,684 | 191,009 192,709 | | 9.43E+02 9.27E+02 | 2.16E+03 2.22E+03 | 1.42E+03 1.37E+03 | 4,447 4,555 | 652 760 |
| 2028 | 195 | 32 | 64 | | 1,178,151 | 194,270 | | 9.11E+02 | 2.29E+03 | 1.32E+03 | 4,647 | 852 |
| 2029 2030 | 197 199 | 33 33 | | | 1,188,401 1,198,146 | 195,960 197,567 | 2,511,015 2,658,722 | 8.95E+02 8.79E+02 | 2.35E+03 2.41E+03 | 1.27E+03 1.23E+03 | 4,725 4,788 | 930 993 |
| 2030 | 200 | 33 | | | 1,207,851 | 197,367 | 2,806,428 | 8.63E+02 | 2.41E+03 2.48E+03 | 1.23E+03 1.18E+03 | 4,788 | 1,042 |
| 2032 | 202 | 33 | | | 1,217,272 | 200,720 | 2,954,135 | 8.47E+02 | 2.54E+03 | 1.13E+03 | 4,870 | |
| 2033 2034 | 203 205 | 34 34 | 83 87 | | 1,226,645 1,235,599 | 202,266 203,742 | 3,064,915 3,212,622 | 8.31E+02 8.15E+02 | 2.61E+03 2.67E+03 | 1.08E+03 1.03E+03 | 4,849 4,854 | 1,054 1,059 |
| 2035 | 206 | 34 | 91 | 331 | 1,244,249 | 205,169 | | 7.99E+02 | 2.73E+03 | 9.79E+02 | 4,844 | 1,049 |
| 2036 | 208 | 34 | | | 1,251,963 | 206,441 | 3,508,036 | 7.65E+02 | 2.72E+03 | 9.80E+02 | 4,956 | 1,161 |
| 2037 2038 | 209 210 | 34 35 | 95 95 | | 1,259,099 1,265,898 | 207,617 208,739 | 3,508,036 3,508,036 | 7.31E+02 6.97E+02 | 2.71E+03 2.70E+03 | 9.80E+02 9.81E+02 | 4,923 4,889 | 1,128 1,094 |
| 2039 | 211 | 35 | 95 | 341 | 1,272,734 | 209,866 | 3,508,036 | 6.63E+02 | 2.69E+03 | 9.82E+02 | 4,854 | 1,059 |
| 2040 2041 | 212 213 | 35 35 | | | 1,279,607 1,285,109 | 210,999 211,906 | 3,508,036 3,508,036 | 6.29E+02 5.96E+02 | 2.68E+03 2.67E+03 | 9.83E+02 9.84E+02 | 4,819 4,782 | 1,024 987 |
| 2041 | 213 | 35 | | | 1,283,103 | 212,817 | | 5.62E+02 | 2.66E+03 | 9.84E+02 | 4,782 | 949 |
| 2043 | 215 | 35 | 95 | | 1,296,443 | 213,775 | | 5.28E+02 | 2.65E+03 | 9.85E+02 | 4,707 | 912 |
| 2044 2045 | 216 217 | 36 36 | | | 1,301,629 1,307,096 | 214,630 215,532 | 3,508,036 3,508,036 | 4.94E+02 4.60E+02 | 2.64E+03 2.63E+03 | 9.86E+02 9.87E+02 | 4,668 4,630 | 873 835 |
| 2046 | 218 | 36 | | | 1,311,801 | 216,308 | | 2.76E+02 | 1.58E+03 | 5.92E+02 | 2,780 | -1,015 |
| 2047 | 218 | 36 | | | 1,315,999 | 217,000 | | 2.76E+02 | 1.58E+03 | 5.92E+02 | 2,783 | -1,012 |
| 2048 2049 | 219 220 | 36 36 | | | 1,320,473 1,324,567 | 217,738 218,413 | 3,508,036 3,508,036 | 2.76E+02 2.76E+02 | 1.58E+03 1.58E+03 | 5.92E+02 5.92E+02 | 2,785 2,787 | -1,010 -1,008 |
| 2050 | 220 | 36 | 95 | 352 | 1,328,143 | 219,002 | 3,508,036 | 2.76E+02 | 1.58E+03 | 5.92E+02 | 2,789 | |
| 2051 | 221 222 | 36 37 | | | 1,331,729 | 219,594 | 3,508,036 | 2.76E+02 | 1.58E+03 | 5.92E+02 | 2,791 | -1,004 |
| 2052 2053 | 222 | 37 | | | 1,335,724 1,339,731 | 220,252 220,913 | 3,508,036 3,471,109 | 2.76E+02 2.76E+02 | 1.58E+03 1.58E+03 | 5.92E+02 5.92E+02 | 2,793 2,773 | -1,002 -1,022 |
| 2054 | 223 | 37 | | | 1,343,483 | 221,532 | | 2.76E+02 | 1.58E+03 | 5.92E+02 | 2,775 | |
| 2055 2056 | 223 224 | 37 37 | | | 1,346,976 1,351,017 | 222,108 222,774 | | 2.76E+02 2.76E+02 | 1.58E+03 1.58E+03 | 5.92E+02 5.92E+02 | 2,777 2,779 | -1,018 -1,016 |
| 2057 | 225 | 37 | | | 1,354,259 | 223,309 | | 2.76E+02 | 1.58E+03 | 5.92E+02 | 2,781 | -1,014 |
| 2058 | 225 | 37 | | | 1,357,509 | 223,845 | | 2.76E+02 | 1.58E+03 | 5.92E+02 | 2,783 | |
| 2059 2060 | 226 226 | 37 37 | | | 1,360,903 1,364,169 | 224,404 224,943 | | 2.76E+02 2.76E+02 | 1.58E+03 1.58E+03 | 5.92E+02 5.92E+02 | 2,785 2,787 | -1,010 -1,008 |
| 2061 | 227 | 37 | 94 | 358 | 1,367,634 | 225,514 | 3,471,109 | 2.76E+02 | 1.58E+03 | 5.92E+02 | 2,788 | -1,007 |
| 2062 2063 | 227 228 | 38 38 | | | 1,371,108 1,374,591 | 226,087 226,661 | 3,471,109 3,471,109 | 2.76E+02 2.76E+02 | 1.58E+03 1.58E+03 | 5.92E+02 5.92E+02 | 2,790 2,792 | -1,005 -1,003 |
| 2063 | 229 | 38 | | | 1,374,391 | 227,237 | 3,471,109 | 2.76E+02 | 1.58E+03 | 5.92E+02 5.92E+02 | 2,792 | |
| 2065 | 229 | 38 | | | 1,381,582 | 227,814 | 3,471,109 | 2.76E+02 | 1.58E+03 | 5.92E+02 | 2,796 | |
| 2066 2067 | 230 230 | 38 38 | | | 1,385,092 1,388,610 | 228,393 228,973 | | 2.76E+02 2.76E+02 | 1.58E+03 1.58E+03 | 5.92E+02 5.92E+02 | 2,798 2,800 | |
| 2067 | 230 | 38 | | | 1,392,137 | 229,554 | | 2.76E+02 2.76E+02 | 1.58E+03 | 5.92E+02 5.92E+02 | 2,802 | -993 |
| 2069 | 232 | 38 | | | 1,395,673 | 230,138 | | 2.76E+02 | 1.58E+03 | 5.92E+02 | 2,803 | |
| 2070 2071 | 232 233 | 38 38 | | | 1,399,218 1,402,772 | 230,722 231,308 | 2,289,455 0 | 2.76E+02 2.76E+02 | 1.58E+03 1.58E+03 | 5.92E+02 5.92E+02 | 2,106 752 | |
| 2072 | 233 | 38 | 0 | 272 | 1,406,335 | 231,896 | 0 | 2.76E+02 | 1.58E+03 | 5.92E+02 | 754 | -3,041 |
| 2073 2074 | 234 234 | 39 39 | | 272 273 | 1,409,907 1,413,488 | 232,485 233,075 | | 2.76E+02 2.76E+02 | 1.58E+03 1.58E+03 | 5.92E+02 5.92E+02 | 756 758 | - |
| 2074 | 234 | 39 | | | 1,413,488 | 233,075 | | 2.76E+02 2.76E+02 | 1.58E+03 1.58E+03 | 5.92E+02 5.92E+02 | 758 760 | |
| 2076 | 236 | 39 | 0 | | 1,420,678 | 234,261 | 0 | 2.76E+02 | 1.58E+03 | 5.92E+02 | 762 | -3,033 |
| 2077 2078 | 236 237 | 39 39 | | | 1,424,286 1,427,904 | 234,856 235,452 | 0 | 2.76E+02 2.76E+02 | 1.58E+03 1.58E+03 | 5.92E+02 5.92E+02 | 764 766 | , |
| 2079 | 237 | 39 | 0 | | 1,431,531 | 236,050 | 0 | 2.76E+02 | 1.58E+03 | 5.92E+02 | 768 | -3,027 |
| 2080 | 238 | 39 | | 277 | 1,435,167 | 236,650 | | 2.76E+02 | 1.58E+03 | 5.92E+02 | 770 | |
| 2081 2082 | 239 239 | 39 39 | | | 1,438,812 1,442,467 | 237,251 237,854 | 0 | 2.76E+02 2.76E+02 | 1.58E+03 1.58E+03 | 5.92E+02 5.92E+02 | 772 773 | -3,023 -3,022 |
| 2083 | 240 | 40 | 0 | 279 | 1,446,131 | 238,458 | 0 | 2.76E+02 | 1.58E+03 | 5.92E+02 | 775 | -3,020 |
| 2084 2085 | 240 241 | 40 40 | | | 1,449,804 1,453,486 | 239,063 239,671 | | 2.76E+02 2.76E+02 | 1.58E+03 1.58E+03 | 5.92E+02 5.92E+02 | 777 779 | -3,018 -3,016 |
| 2085 | 241 | 40 | | 281 | 1,453,486 | 240,279 | | 2.76E+02 2.76E+02 | 1.58E+03 | 5.92E+02 5.92E+02 | 779 | -3,016 |
| 2087 | | | | | 1 | · · | | | | | | -3,795 |
| 2088 2089 | | | | | | | | | | | | -3,795 -3,795 |
| 2090 | | | | Landfil | l Closed and W | aste Being Tra | nsferred to An | other Facility | | | | -3,795 |
| 2091 | | | | | | | | | | | | -3,795 |
| 2092 2093 | | | | | | | | | | | | -3,795 -3,795 |
| 2033 | | | | | | | | | | | | 2,7.55 |
| | Notes: | | | | | | | | | | | |

Notes:

- 1. Indirect electrical emissions increase from the baseline to maximum in 2086 and then will diminish slowly over time proportionally to LFG generation. Indirect emissions related to the RNG facility are accounted for in the RNG emissions modeling in Attachment A.
- 2. Assume that indirect emissions from construction water use will increase immediately after project approval and the average will remain consistent over the life the landfill plus two years. Indirect emissions from water will increase from base line to the peak over the life of the landfill and only wastewater-related emissions will continue after closure.
- 3. Assume emissions change over the life of the landfill copied from Attachment D.
- 4. Assume averaged over the operating life of the landfill. Some emission continue after closure.
- 5. The timing of construction will vary and the sequence is for modeling purposes only.

| | Emissions from Construction (from Attachment H) Emissions from Operation | | | | | | | | 1 | | | | |
|----------------------|---|---|---|--|---|-----------------------------|--|-------------------------|--------------|---|--|--|---|
| | | eline | Proje | | Change | Vehicles (A | tt G & H) | Electrica | | • | ewater (Att J) ² | Recycling | (Att D) ³ |
| Year | Baseline Construction Project | Baseline Construction Emissions MTCO₂e | Project Construction Project ⁵ | Project Construction Emissions MTCO ₂ e/yr | Change from Baseline MTCO2e/yr | Vehicles Total MTCO₂e/yr | Vehicles Change from Baseline MTCO₂e/yr | Electrical Emissions | | Water and Wastewater Emissions MTCO2e/yr | Water and Wastewater Change from Baseline MTCO ₂ e/yr | Recycling Emissions Savings MTCO2e/yr | Recycling Emissions Change from Baseline MTCO ₂ e/yr |
| Miles per Trip | | | | | | | | | | | | | |
| Average ⁴ | | 41 | | 86 | 77 | 980 | -221 | 0.86 | 0.33 | 32 | 13 | -280 | -40 |
| Baseline: | | 0.00 | | 0 | 0 | _, | 0 | | | 19 | 0 | -240 | 0 |
| 2021 2022 | | 0.00 | | 0 | 0 | 1,237 1,274 | 36 73 | | 0.01 0.02 | 29 29 | 10 10 | -236 -237 | 4 |
| 2022 | | 0.00 | Module 9 | 116 | 116 | 1,274 | 109 | | | 29 | 10 | -239 | 1 |
| 2024 | | 0.00 | Wiodale 3 | 0 | 0 | 1,347 | 146 | | 0.04 | 29 | 10 | -241 | -1 |
| 2025 | | 0.00 | Module 10 | 116 | 116 | 1,383 | 182 | | 0.05 | 29 | 10 | -243 | -3 |
| 2026 | | 0.00 | Entrance | 227 | 227 | 1,420 | 219 | | 0.06 | 29 | 10 | -245 | -5 |
| 2027 | | 0.00 | Module 11 | 116 | 116 | 1,456 | 255 | | 0.07 | 29 | 10 | -247 | -7 |
| 2028 | | 0.00 | 29 acre Clo | 348 | 348 | 1,493 | 292 | | 0.08 | 30 | 10 | -249 | -9 |
| 2029 2030 | | 0.00 0.00 | Module 12 | 116 0 | 116 0 | 1,529 1,566 | 328 365 | | 0.10 0.11 | 30 30 | 10 10 | -252 -254 | -12 -14 |
| 2031 | | 0.00 | Module 13 | 116 | 116 | 1,602 | 401 | 0.65 | 0.12 | 30 | 11 | -256 | -16 |
| 2032 | | 0.00 | | 0 | 0 | 1,638 | 437 | 0.66 | | 30 | 11 | -258 | -18 |
| 2033 | | 0.00 | Module 14 | 116 | 116 | 1,675 | 474 | | 0.14 | 30 | 11 | -260 | -20 |
| 2034 | | 0.00 | | 0 | 0 | 1,711 | 510 | | 0.15 | 30 | 11 | -262 | -22 |
| 2035 | | 0.00 | Module 15 | 116 | 116 | 1,748 | 547 | 0.69 | 0.16 | 30 | 11 | -263 | -23 |
| 2036 2037 | Clo Cap | 0.00 695.31 | Module 16 | 0 116 | -579 | 1,730 1,713 | 529 512 | | 0.17 0.18 | 30 30 | 11 11 | -265 -266 | -25 -27 |
| 2037 | cio cap | 053.31 | Class I Clo | 72 | -579 73 | 1,713 | 494 | 0.71 | 0.18 | 31 | 11 | -268 | -27 |
| 2039 | | | Module 17 | 116 | 116 | 1,678 | 477 | 0.72 | | 31 | 11 | -269 | -29 |
| 2040 | | | 29-Acre Clo | 348 | 348 | 1,660 | 459 | | 0.21 | 31 | 12 | -271 | -31 |
| 2041 | | | Module 18 | 116 | 116 | 1,643 | 442 | | | 31 | 12 | -272 | -32 |
| 2042 | | | | 0 | 0 | 1,625 | 424 | | | 31 | 12 | -273 | -33 |
| 2043 2044 | | | Module 19 | 116 0 | 116 0 | 1,608 1,590 | 407 389 | 0.77 | 0.24 0.25 | 31 | 12 | -274 -275 | -35 -36 |
| 2044 | | | Module 20 | 116 | 116 | 1,590 | 372 | | | 31 31 | 12 12 | -277 | -36 -37 |
| 2046 | | | Wodale 20 | 0 | 0 | 629 | -572 | 0.81 | 0.28 | 31 | 12 | -278 | -38 |
| 2047 | | | Module 21 | 0 | 0 | 629 | -572 | 0.82 | 0.29 | 32 | 12 | -279 | -39 |
| 2048 | | | 29-acre clo | 348 | 348 | 629 | -572 | 0.83 | 0.30 | 32 | 12 | -279 | -40 |
| 2049 | | | Module 22 | 116 | 116 | 629 | -572 | 0.84 | 0.31 | 32 | 12 | -280 | -40 |
| 2050 | | | | 0 | 0 | 629 | -572 | 0.85 | 0.32 | 32 | 13 | -281 | -41 |
| 2051 2052 | | | Module 23 | 116 0 | 116 0 | 629 629 | -572 -572 | 0.86 0.87 | 0.33 0.34 | 32 32 | 13 13 | -282 -283 | -42 -43 |
| 2052 | | | Module 24 | 116 | 116 | | -572 -572 | | | 32 | 13 | -283 -284 | -43 -44 |
| 2054 | | | Wioduic 24 | 0 | 0 | | -572 | | | 32 | 13 | -284 | -44 |
| 2055 | | | Module 25 | 116 | 116 | 629 | -572 | 0.90 | 0.37 | 32 | 13 | -285 | -45 |
| 2056 | | | | 0 | 0 | 629 | -572 | 0.91 | 0.38 | 32 | 13 | -286 | -46 |
| 2057 | | | Module 26 | 116 | 116 | 629 | -572 | | | 33 | 13 | -287 | -47 |
| 2058 | | | 29-acre clo | 348 | 348 | 629 | -572 | 0.93 | 0.40 | 33 | 13 | -287 | -47 |
| 2059 2060 | | | Module 27 | 116 0 | 116 0 | 629 629 | -572 -572 | 0.94 0.95 | 0.41 0.42 | 33 33 | 14 14 | -288 -289 | -48 -49 |
| 2061 | | | Module 28 | 116 | 116 | 629 | -572 | 0.93 | 0.42 | 33 | 14 | -289 | -50 |
| 2062 | | | Wiodale 20 | 0 | 0 | 629 | -572 | | | 33 | 14 | -290 | -50 |
| 2063 | | | Module 29 | 116 | 116 | 629 | -572 | 0.99 | 0.46 | 33 | 14 | -291 | -51 |
| 2064 | | | | 0 | 0 | 629 | -572 | 1.00 | 0.47 | 33 | 14 | -292 | -52 |
| 2065 | | | Module 30 | 116 | 116 | 629 | -572 | | 0.48 | 33 | 14 | -292 | -53 |
| 2066 2067 | | | Module 31 | 0 116 | 0 116 | 629 629 | -572 -572 | 1.02 1.03 | 0.49 0.50 | 34 34 | 14 14 | -293 -294 | -53 -54 |
| 2067 | | | 29-acre clo | 348 | 348 | 629 | -572 -572 | | 0.50 | 34 | 14 | -294 -295 | -54 -55 |
| 2069 | | | Module 32 | 116 | 116 | 629 | -572 | | | 34 | 15 | -295 | -56 |
| 2070 | | | | 0 | 0 | 629 | -572 | 1.05 | 0.52 | 34 | 15 | -296 | -56 |
| 2071 | | | Module 33 | 116 | 116 | 629 | -572 | | | 34 | 15 | -297 | -57 |
| 2072 | | | NA 1 1 5 1 | 0 | 0 | 629 | -572 | | | 34 | 15 | -298 | -58 |
| 2073 2074 | | | Module 34 | 116 0 | 116 0 | 629 629 | -572 -572 | | | 34 34 | 15 15 | -298 -299 | -59 -59 |
| 2074 | | | Module 35 | 116 | 116 | 629 | -572 -572 | | | 34 | 15 | -300 | -59 -60 |
| 2076 | | | Judic JJ | 0 | 0 | 629 | -572 | | | 35 | 15 | -301 | -61 |
| 2077 | | | Module 36 | 116 | 116 | 629 | -572 | 1.05 | 0.52 | 35 | 15 | -301 | -62 |
| 2078 | | | 29-acre clo | 348 | 348 | 629 | -572 | | | 35 | 16 | -302 | -62 |
| 2079 | | | Module 37 | 116 | 116 | 629 | -572 | | | 35 | 16 | -303 | -63 |
| 2080 | | | Madula 20 | 116 | 116 | 629 | -572 | | | 35 | 16 | -304 | -64 -65 |
| 2081 2082 | | | Module 38 | 116 0 | 116 0 | 629 629 | -572 -572 | 1.05 1.05 | 1 | 35 35 | 16 16 | -305 -305 | -65 -65 |
| 2082 | | | | 0 | 0 | | -572 -572 | 1.05 | | 35 | 16 | -305 | -65 -66 |
| 2084 | | | | 0 | 0 | 629 | -572 | 1.05 | | 35 | 16 | -307 | -67 |
| 2085 | | | | 0 | 0 | 629 | -572 | 1.05 | 0.52 | 36 | 16 | -308 | -68 |
| 2086 | | | | 0 | 0 | 629 | -572 | | | 36 | 16 | -308 | -69 |
| 2087 | | | 79-ac Final Clo | 946 | 946 | | -1,201 | 1.05 | | 36 | 16 | | |
| 2088 2089 | | | | | | | -1,201 -1,201 | 1.05 1.05 | 0.52 0.52 | 0 | -19 -19 | | |
| 2089 | Landfill Clos | ed Only Mainter | nance, Leachate | & LFG Extraction | , and RNG | | -1,201 -1,201 | 1.05 | 0.52 | 0 | -19 -19 | | |
| 2091 | | - | eration During th | | , . | | -1,201 | 1.05 | 0.52 | 0 | -19 | | |
| 2092 | | , , | • | | | | -1,201 | 1.05 | | 0 | -19 | | |
| 2093 | | ı | T | | | | -1,201 | 1.05 | 0.52 | 0 | -19 | | |
| | | | | | | | | | | | | | |

| | Summary - | Oneration | Summar | With LFG | | | | Mitigation | n Summary | | | | |
|----------------------|----------------------------|------------------------|------------------------|------------------------|-----------------------|-------------------|-------------------|-------------------------|--------------------------|-------------------|----------------------|----------------------------|--|
| | Tot | | Juninal | 2. 0 | | | | | . Janniai y | | | | |
| | | | From CEC | | | Convert | Medium | | | | Four | | |
| | | | Model Direct | Total Change | | Light Duty | Duty | Add 5 EV | | Convert Two | | | |
| | | | LFG Increase | from Baseline | Early | Landfill | Landfill | Charging | Convert to | County | | | |
| | Total Project Emissions | _ | | without Mitigations | Adoption of Covers | Vehicles to EV | Vehicles to EV | Stations at Landfill | Renewable Electricity | Vehicles to EV | County Facilities | Total with Mitigations, | |
| Year | MTCO ₂ e/yr | MTCO ₂ e/yr | MTCO ₂ e/yr | MTCO ₂ e/yr | MTCO₂e/yr | MTCO₂e/yr | MTCO₂e/yr | MTCO ₂ e/yr | MTCO ₂ e/yr | MTCO₂e/yr | | MTCO ₂ /yr | |
| Miles per Trip | | | | 20, 7 | | | | | 2-2-11 | | | 22, 1 | |
| Average ⁴ | 3,802 | -984 | 8,948 | 7,964 | -1,381 | -3 | -13 | -22 | -1 | -5 | -9 | 7,721 | |
| Baseline: | 4,817 | 0 | | - | | | | | | Chang | ge in Average | -244 | |
| 2021 | 4,729 | -47 | 0 | -47 | | | | | | | | | |
| 2022 2023 | 4,941 5,255 | 165 479 | 1,503 2,675 | 1,668 3,154 | 0 | -5 | | | -1 | -8 | -14 | 1,668 3,126 | |
| 2023 | 5,324 | 549 | 3,916 | 4,465 | -1,157 | -5 -5 | | | -1 -1 | -8 | | 3,120 | |
| 2025 | 5,611 | 835 | 5,226 | 6,061 | -1,438 | -5 | | -36 | -1 | -8 | | 4,559 | |
| 2026 | 5,879 | 1,103 | 6,602 | 7,705 | -1,766 | -5 | | -36 | -1 | -8 | | 5,875 | |
| 2027 2028 | 5,910 6,268 | 1,134 1,492 | 8,044 5,081 | 9,178 6,573 | -2,361 -1,604 | -5 -5 | | -36 -36 | -1 -1 | -8 -8 | | 6,753 4,905 | |
| 2028 | 6,208 | 1,492 | 5,915 | 7,288 | -2,231 | -5 -5 | | -36 | -1 -1 | -8 | | 4,903 | |
| 2030 | 6,131 | 1,355 | 6,783 | 8,138 | -2,780 | -5 | | -36 | -1 | -8 | | 5,294 | |
| 2031 | 6,330 | 1,554 | 7,683 | 9,237 | -3,151 | -5 | | -36 | -1 | -8 | | 6,022 | |
| 2032 | 6,281 | 1,505 | 5,920 | 7,425 | -1,094 | -5 | -23 | -36 | -1 | -8 | | 6,244 | |
| 2033 2034 | 6,411 6,334 | 1,635 1,558 | 6,581 7,263 | 8,216 8,821 | -1,272 -1,866 | -5 -5 | -23 -23 | -36 -36 | -1 -1 | -8 -8 | | 6,857 6,868 | |
| 2035 | 6,475 | 1,699 | 4,340 | 6,039 | -1,800 | -5 | -23 | -36 | -1 | -8 | | 5,952 | |
| 2036 | 6,453 | 1,677 | 4,733 | 6,410 | 0 | -5 | -23 | -36 | -1 | -8 | -14 | 6,323 | |
| 2037 | 6,516 | 1,045 | 5,138 | 6,183 | | -5 | -23 | -36 | -1 | -8 | | 6,096 | |
| 2038 2039 | 6,419 6,410 | 1,644 1,634 | 5,468 5,791 | 7,112 7,425 | | -5 -5 | -23 -23 | -36 -36 | -1 -1 | -8 -8 | | 7,025 7,338 | |
| 2039 | 6,410 | 1,634 | 6,108 | 7,425 7,919 | | -5 -5 | -23 | -36 -36 | -1 -1 | -8 | | 7,338 | |
| 2041 | 6,300 | 1,524 | 6,418 | 7,942 | | -5 | -23 | -36 | -1 | -8 | | 7,855 | |
| 2042 | 6,128 | 1,352 | 6,723 | 8,075 | | -5 | -23 | -36 | -1 | -8 | | 7,988 | |
| 2043 | 6,188 | 1,412 | 7,021 | 8,433 | | -5 -5 | -23 | -36 | -1 -1 | -8 | | 8,346 | |
| 2044 2045 | 6,015 6,074 | 1,239 1,298 | 7,313 7,600 | 8,552 8,898 | | -5 -5 | -23 -23 | -36 -36 | -1 -1 | -8 -8 | | 8,465 8,811 | |
| 2046 | 3,164 | -1,612 | 7,881 | 6,269 | | -2 | -9 | -14 | 0 | -3 | | | |
| 2047 | 3,166 | -1,610 | 8,157 | 6,547 | | -2 | -9 | -14 | | -3 | | 6,512 | |
| 2048 | 3,515 | -1,261 | 8,427 | 7,166 | | -2 | -9 | -14 | | -3 | | | |
| 2049 2050 | 3,285 3,170 | -1,491 -1,606 | 8,691 8,951 | 7,200 7,345 | | -2 -2 | -9 -9 | -14 -14 | | -3 -3 | | | |
| 2051 | 3,170 | -1,489 | 9,205 | 7,343 | | -2 -2 | -9 | -14 | | -3 | | | |
| 2052 | 3,173 | -1,603 | 9,454 | 7,851 | | -2 | -9 | -14 | | -3 | | 7,816 | |
| 2053 | 3,268 | -1,508 | | 8,191 | | -2 | -9 | -14 | | -3 | | | |
| 2054 2055 | 3,153 | -1,622 | 9,938 10,173 | 8,316 8,668 | | -2 | -9 -9 | -14 -14 | | -3 -3 | | | |
| 2056 | 3,271 3,156 | -1,505 -1,620 | | 8,783 | | -2 -2 | -9 -9 | -14 -14 | | -3 | | | |
| 2057 | 3,273 | -1,503 | 10,628 | 9,125 | | -2 | -9 | -14 | | -3 | | | |
| 2058 | 3,506 | -1,270 | | 9,579 | | -2 | -9 | -14 | | -3 | | | |
| 2059 | 3,276 | -1,500 | | 9,566 | | -2 | -9 | -14 | | -3 | | | |
| 2060 2061 | 3,161 3,278 | -1,615 -1,498 | 11,278 11,487 | 9,663 9,989 | | -2 -2 | -9 -9 | -14 -14 | | -3 -3 | | | |
| 2062 | 3,163 | -1,613 | 11,691 | 10,078 | | -2 | -9 | -14 | | -3 | | | |
| 2063 | 3,281 | -1,495 | 11,891 | 10,396 | | -2 | -9 | -14 | | -3 | | | |
| 2064 | 3,166 | -1,610 | | 10,477 | | -2 | -9 | -14 | | -3 | | , | |
| 2065 2066 | 3,283 3,168 | -1,493 -1,608 | 12,279 12,467 | 10,786 10,859 | | -2 -2 | -9 -9 | -14 -14 | | -3 -3 | | | |
| 2067 | 3,286 | -1,490 | | 11,162 | | -2 | -9 | -14 | | -3 | | | |
| 2068 | 3,518 | -1,258 | 12,833 | 11,575 | | -2 | -9 | -14 | | -3 | -6 | 11,541 | |
| 2069 | 3,288 | -1,488 | 13,010 | 11,522 | | -2 | -9 | -14 | | -3 | | | |
| 2070 2071 | 2,474 1,236 | -2,302 -3,540 | 13,184 13,208 | 10,882 9,668 | | -2 -2 | -9 -9 | -14 -14 | | -3 -3 | | , | |
| 2071 | 1,230 | -3,655 | 12,943 | 9,288 | | -2 | -9 | -14 | | -3 | | | |
| 2073 | 1,238 | -3,538 | 12,683 | 9,145 | | -2 | -9 | -14 | _ | -3 | -6 | 9,111 | |
| 2074 | 1,123 | -3,653 | 12,429 | 8,776 | | -2 | -9 | -14 | _ | -3 | | | |
| 2075 2076 | 1,241 1,126 | -3,535 -3,650 | 12,180 11,936 | 8,645 8,286 | | - <u>2</u> | -9 -9 | -14 -14 | | -3 -3 | | | |
| 2076 | 1,128 | -3,533 | 11,936 | 8,164 | | -2 | -9 | -14 | | -3 | | | |
| 2078 | 1,476 | -3,300 | 11,463 | 8,163 | | -2 | -9 | -14 | | -3 | -6 | 8,128 | |
| 2079 | 1,246 | -3,530 | 11,234 | 7,704 | | -2 | -9 | -14 | | -3 | | | |
| 2080 2081 | 1,131 1,248 | -3,645 -3,528 | 11,009 10,789 | 7,364 7,261 | | -2 -2 | -9 -9 | -14 -14 | | -3 -3 | | | |
| 2081 | 1,248 | -3,528 -3,642 | 10,789 | 6,931 | | -2 | -9 -9 | -14 -14 | | -3 | | | |
| 2083 | 1,135 | -3,641 | 10,362 | 6,721 | | -2 | -9 | -14 | | -3 | | | |
| 2084 | 1,136 | -3,640 | | 6,516 | | -2 | -9 | -14 | | -3 | | | |
| 2085 | 1,138 | -3,638 | | 6,315 | | -2 | -9 | -14 | | -3 | | | |
| 2086 2087 | 1,139 982 | -3,637 -4,033 | 9,755 9,560 | 6,118 5,527 | | -2 | -9 | -14 | | -3 | -6 | 6,083 5,527 | |
| 2088 | 1 | -5,015 | 9,370 | 4,355 | | | | | | | | 4,355 | |
| 2089 | 1 | -5,015 | 9,125 | 4,110 | | | | | | | | 4,110 | |
| 2090 | 1 | -5,015 | 8,886 | 3,871 | | | | | _ | | | 3,871 | |
| 2091 2092 | 1 | -5,015 -5,015 | 8,651 8,421 | 3,636 3,406 | | | | | | | | 3,636 3,406 | |
| 2093 | 1 | -5,015 | 8,195 | 3,180 | | | | | | | | 3,480 | |
| | | | | - | | | | | | | | | |

John Smith Road Landfill - DEIR ATTACHMENT V RNG Tube Trailer Loads

| Peak FFG Generation Starting LFG Output % Methane % Collection Efficiency PMG Conturn officiency | 2,449 s 450 s 50% 98% 92% | |
|---|---------------------------------------|--------------|
| RNG Capture efficeincy Peak Methane Output Starting Methane Output | 1,104 s 203 s | |
| Trailer Size Operating Pressure | 471,694 s 3,600 j | VPLite 45/40 |
| Trailers per Day Peak Trailers per Day Starting Average Trailers per Day Over Life | 3.37 0.62 1.99 | |

Ralph Hirshberg, P.E.

Principal



33 YEARS OF EXPERIENCE

EDUCATION

B.S., Civil Engineering, University of Cincinnati, 1987

Mr. Hirshberg has more than 32 years of experience in the solid and hazardous waste industries. Mr. Hirshberg has extensive experience in the permitting and design of a wide range of environmental, waste disposal and environmental facilities. Environmental permitting including Solid Waste PTI/PTO, Landfill and Industrial Facility Air Emissions PTI/PTO, Title V, NSPS, NESHAP, NPDES, 401/404 Wetland and associated regulatory programs.

PROJECT EXPERIENCE

Expert Witness and Legal Assistance, OH

Served as an expert witness and coordinated technical aspects of defense for several solid waste permits appealed to the Ohio Environmental Review Appeals Commission. Prepared technical briefs and assisted in compilation of legal memoranda, motions, and filings before the Commission. Coordinated expert witness selection and de-briefing. Assisted in various aspects of witness deposition and prepared technical summaries of witness testimony. Testified directly as an expert witness on issues related to environmental regulation and facility siting in the State of Ohio.

Solid Waste | Landfill Gas

120-Acre Landfill, OH

Retained as technical consultant for all facets of air permitting and emission factor development for innovative landfill gas use technologies. Responsibilities included landfill gas sampling and characterization, toxics analysis, exposure modeling, Title V permitting, PSD permitting, emission netting including analysis of regional electric grid emissions and value engineering. Served as principal liaison between client and Ohio EPA Division of Air Pollution Control.

Franklin County Sanitary Landfill, OH

Prepared facility air permits, coordinated research and development activities associated with high Btu LFG processing plant and LFG to CNG fueling station. Assisted with LFG collection system design and high temperature well analysis. Assisted facility with development of GIS based LFG wellfield analytical system. Assisted facility with research and development technologies for LFG processing.

Landfill Gas-to-Energy, Ohio, Illinois, Missouri, Texas, Mexico, Puerto Rico Retained as technical consultant for all facets of landfill gas-to-energy project development. Responsibilities included landfill gas sampling and characterization, toxics analysis, exposure modeling, Title V permitting, PSD permitting, emission netting including analysis of regional electric grid emissions and value engineering. Served as primary project development lead and construction manager. Served as principal liaison between client and various regulatory agencies.

EXPERTISE

Environmental Permitting
Air Emission Estimates
Air Permit Compliance and Reporting
NSPS and NESHAP Compliance

REGISTRATIONS

Professional Engineer
• OH E-65753



Ralph Hirshberg, P.E.

Principal

Solid Waste | Landfill

100-Acre Superfund Site, OH

Retained as a technical consultant for coordination and review of technical and CERCLA related requirements of the site for a PRP member. Chaired PRP group Technical Committee and coordinated various aspects of site remediation including Time Critical Removal Actions. Provided technical reviews and cost evaluations of Site RIFS contractor activity. Served as a liaison with local government and community organizations. Developed conceptual remedial designs incorporating beneficial reuse plans. Coordinated technical aspects of Ohio EPA Findings & Orders, and US EPA Administrative Orders.

120-Acre Sanitary Landfill, OH

Responsibilities included management of all aspects of project design, and plan and PTI preparation including drainage, leachate control, construction sequencing, liner, and cap design. Design includes a double composite liner system, ground-water interception system, and extensive use of geotextile and geocomposites in a variety of applications. Specific studies included geotechnical analysis of controlled fills and containment structures, cost analysis and rate studies including construction and annual operating costs, and airspace optimization.

170-Acre Sanitary Landfill, OH

On-going construction coordination and certification services. Serve as project engineer to assist client in budget preparation, cost estimates, project scheduling and special projects including facility design, compost management areas, materials recovery facility design, and leachate management planning and investigations. Specific design projects include modification and analysis of the leachate recirculation system, design of a perimeter leachate collection system, and upgrade of existing leachate collection and liner systems to current BAT standards.

35-Acre Sanitary Landfill Vertical Expansion, Operation and Closure Plan, OH

Responsibilities included all aspects of project design including plan and PTI application preparation. Specifics of the design included vertical expansion over an existing waste fill incorporating the use of shredded waste tires as an aggregate substitute in leachate collection and gas venting systems. Managed all permit submittals as well as post closure operations and maintenance.

40-Acre Superfund Site, OH

Responsibilities included completion of remedial design, bid specifications and contractor selection, construction management of remedy installation, coordination of all regulatory submittals and USEPA oversight activities, completion of certification and long term operations and management reports. Managed all post-closure operations including environmental monitoring and on-site remediation systems. Served as primary liaison for community, Ohio EPA and US EPA communications.

50-Acre Industrial Landfill (monofill) for Delisted Hazardous Waste, Northwest Ohio

Responsibilities included managing all aspects of project design, and plan and PTI preparation including drainage, leachate control, construction sequencing, liner and cap design. Design included a double composite liner system, and a leachate collection system with recirculation/evapotranspirative capacity. Specific studies included analyses of geotechnical characteristics of the waste including slope stability analyses, bearing capacity, and review of geotechnical testing data.

64-Acre Sanitary Landfill, OH

Responsibilities included design of stormwater and erosion control facilities, fill sequencing and cover system, leachate collection, and transmission systems.

72-Acre Industrial Landfill (monofill) for Process Filtercake, Northeast Ohio

Responsibilities included managing all aspects of project design, including drainage, leachate control, construction sequencing, liner and cap design. Design included a double composite liner system, and a leachate collection system with recirculation/evapotranspirative capacity. Specific studies included analyses of geotechnical characteristics of the waste including slope stability analyses, bearing capacity, and review of geotechnical testing data.

80-Acre Sanitary Landfill Expansion, PA

Responsibilities include design of leachate collection and transmission systems, dual composite lining system, stormwater and erosion control facilities, and stream relocation design. Responsibilities included design of composite liner system, leachate collection system, stormwater collection and sedimentation facilities. The design included extensive use of geotextile and



Ralph Hirshberg, P.E.

Principal

geocomposites, including design for filtration, separation, and fluid transmission. Specific hydraulic studies included HEC-2 modeling of relocated surface watercourses and design of over bank reservoirs for floodway mitigation.

District Solid Waste Management Plans, OH

Responsibilities included collecting data, analyzing and investigating of alternatives, and assisting in alternative evaluation and report preparation. Specific studies included detailed municipal and industrial waste characterization, and cost feasibility studies.

Explosive Gas Monitoring Plans, OH

Prepared several explosive gas monitoring plans for various closed and operating sanitary landfill facilities.

Hazardous Waste Landfill Closure, FL

Conducted feasibility study for waste fixation and/or containment options for manufacturing residuals for an automobile shredding facility. Specific studies included leaching simulations of residual material, design of final cover and stormwater management facilities, and leachate generation analysis.

Solid Waste Facility (Green-Field) Siting, Ohio, Florida and New York

Served as a technical consultant for a private solid waste facility developer in Ohio, Florida and New York. Responsibilities included market and infrastructure analyses, preliminary siting review, and coordination of environmental aspects of property acquisition including wetland, sensitive species, and zoning regulations. Coordinated and reviewed work of environmental scientists and various subcontractors. Provided technical briefs related to environmental regulations and assisted in various legal defenses of appealed environmental applications. Reviewed and provided technical assistance related to landfill gas utilization, Section 29 Energy Tax Credits, and sale of gas and electric power to public utilities. Worked with private natural gas and electric power brokers in development of cogeneration projects.

Solid Waste | Waste Solidification/Stabilization

Hazardous Waste Lagoon Closures, Kentucky and Michigan

Developed waste fixation sequencing for lead-contaminated fly ash including handling and placement, operational sequencing, design of containment, and RCRA cover systems. Specific responsibilities included geotechnical evaluation of fixed waste and available borrow sources, design of stormwater control and detention facilities, field sampling plans, equipment, and personnel decontamination plans.

TRAINING

OSHA 1910.120, HAZWOPER 40-Hour Certified

OSHA 1910.120, Eight-Hour Refresher Course,

PROFESSIONAL AFFILIATIONS

Air & Waste Management Association

National Solid Waste Management Association

Solid Waste Association of North America





RESUME

DAVID C. BROWN, P.E.

Senior Civil Engineer & Environmental Compliance Specialist

EDUCATION

BS, Civil Engineering, 1993, University of Nevada – Reno

PROFESSIONAL REGISTRATION

California Registered Civil Engineer, CE 69135

Qualified Industrial Storm Water Practitioner and Trainer of Record (QISP ToR) #00342

California Qualified SWPPP Developer (QSD)

OSHA 8-hour hazardous-waste supervisor training course (certificate)

OSHA 40-hour hazardous-waste operations and emergency response training course (certificate)

AFFLIATIONS

American Society of Civil Engineers California Stormwater Quality Association (CASQA)

EXPERIENCE

Lawrence & Associates (7/17 to present)

Mr. Brown has 28 years of unique experience having been a company owner, consultant, design engineer, project engineer, project engineer, owner's representative, land developer, regulatory program trainer, expert witness, and presenter. His background provides a wide range and depth of knowledge across multiple disciplines that affect industry in California. Mr. Brown brings focus and support in tackling complex environmental affairs and compliance including civil engineering and environmental management related to industrial infrastructure, planning, stormwater management, hazardous waste management, and air-quality permitting. He is experienced in troubleshooting, responding to regulatory changes, and implementing cost effective and practical solutions to meet the changing needs of industry and environmental compliance.

Dave Brown Engineering (9/13 to 7/17)

Owner/Consultant/Professional Engineer specializing in solving complex regulatory issues related to increasing regulations affecting industry in Northern California and Washington pertaining to air, water, and hazardous waste. During his tenure with Dave Brown Engineering, his work focused on commercial and industrial site development (land planning, grading, utility, CEQA), site remediation, and current operating permit programs including air (PSD, Title V, AOP), water (NPDES - General and Individual), and other permitting programs (EPCRA, GHG, CEQA, SEPA, SPCCP).

Mr. Brown routinely provided training support to agencies and industry related to stormwater and environmental compliance. He also provided technical and analytical support regarding potential legal issues affecting compliance programs.

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Resume – David Brown Page 2 of 2

Sierra Pacific Industries (11/08 to 9/13)

Corporate Environmental Affairs & Compliance Manager – responsible for company-level compliance across a range of environmental programs, including air and water permitting and hazardous-waste management. Mr. Brown provided direct support to facility managers, environmental coordinators, and corporate owners across 15 facilities in California and three facilities in Washington. Facilities ranged from a dual-sawmill with log decks and cogeneration facilities to former industrial sites with site remediation and/or site planning for redevelopment purposes. Mr. Brown served as an expert witness on behalf of the company and has provided training to crewmembers including attending and participating in training conferences related to industry challenges.

Sierra Pacific Industries (9/05 to 11/08)

Land Development Engineer – responsible for research, design, consultant and contractor coordination, and project management and implementation related to land-development projects and former industrial property. Provided analysis and technical assessments of various land holdings, including redevelopment considerations, long-term master planning, and site remediation. Coordinated projects from 'cradle to grave', from project inception to as-builts. During this time Mr. Brown also provided engineering support to the various facility needs of the company, including site plans, grading and utility plans, stormwater treatment design, waste discharge modifications, and SPCC plans.

Carlton Engineering (9/99 to 5/05)

Project Engineer / Project Manager – Performed various duties in support of environmental and site development services, including surveying, grading, utility and infrastructure design, technical-specifications and drawings, engineer's estimates, bid documents, regulatory coordination, client representation, construction management, environmental sampling, stormwater sampling, and report preparation. During this time, Mr. Brown helped setup and managed engineering groups within the company for larger complex projects, including redevelopment projects at Edwards Air Force Base (California), and the Whidbey Island Naval Air Station (Washington).

Tanner Consulting (1993-99)

Performed various duties in support of site development services, including: land surveying, grading and utility design, technical specifications and drawings, regulatory coordination, and client representation. Site development, and stormwater hydrology and floodplain management were the focus while at this company.



RESUME

CLAYTON E. COLES

Vice President and General Manager Principal Engineering Geologist

EDUCATION

BS, Geology, 1982, Humboldt State University, CA BA, Physics, 1984, Humboldt State University, CA

PROFESSIONAL REGISTRATION

California Certified Engineering Geologist, CEG 1730
California Professional Geologist, PG 5007
California Qualified Storm-Water Designer 198
Certified in Nuclear Safety and Testing Equipment, Certificate 072177
OSHA 8-hour hazardous-waste supervisor training course (certificate)
OSHA 40-hour hazardous-waste operations and emergency response training course (certificate)

AFFLIATIONS

Member Association of Environmental and Engineering Geologists

Member Solid Waste Association of North America (SWANA)

Member International Geosynthetics Society

Glenn County Solid Waste Independent Hearing Panel (second term expired 12-21-2016)

EXPERIENCE – GENERAL

Lawrence & Associates (6/86 to present)

Mr. Coles is Principal Engineering Geologist responsible for projects involving the integration of engineering, geology, soils, groundwater, surface water, landfill gas, and how they affect the structures that may be built on them. Mr. Coles is an expert in the design, operation, planning, cost estimating, construction project management, and permitting of waste-containment and handling systems including landfills, waste-containment and other lined ponds, monitoring and control systems, and related geologic, hydrologic and slope stability applications. Mr. Coles also is an expert in the use of infiltration of treated water from community and individual wastewater treatment systems. Mr. Coles has also performed or managed the investigation and/or remediation of over 100 environmental remediation projects (such as leaking USTs, petroleum spills, solvent spills, and heavy metals contamination). Mr. Coles has been the principal designer on numerous landfill liner construction projects, landfill closure cap, and project manager or related construction projects.

Cooksley Geophysics (9/84 to 6/86)

Geologist responsible for organizing and completing projects involving the gathering, computing, interpretation, and reporting of geophysical data (seismic, electrical, magnetic, and gravity methods). Initiated and completed geotechnical investigations including foundation, groundwater exploration, slope-stability, hydroelectric-plant siting, and Alquist-Priolo seismic-risk evaluations.

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EXPERIENCE – LINER SYSTEMS, WASTE CONTAINMENT, AND PERMITTING

Mr. Coles has significant experience in designing and inspecting landfill and pond liner systems as well as permanent and temporary cover systems. Mr. Coles has designed over 10 million square feet of liner and capping systems using geosynthetic liner components. Shown below is a partial list of Mr. Coles' experience related to waste permitting, containment design, and construction:

Landfill Base Liner Design and Construction Projects

- Greenwaste of Tehama County Design and construction quality assurance (CQA)
 Monitoring for Tehama County/Red Bluff Landfill, Phase 2, Cells 1A, 1B, Tehama County,
 California.
- Placer County Design and CQA Monitoring for Module 13 at Western Regional Landfill.
- Simpson Paper Company Design and CQA Monitoring for Twin Bridges Landfill, Module 2, Shasta County, California.
- Waste Connections Expansion design, design of base liners, and engineering support during construction for John Smith Road Landfill Modules 3B, 4, 5 & 6, 7/8A, 7/8B, and 7/8C, San Benito County, California (five separate projects). We are currently designing Module 7/8C.
- Waste Connections Master plan for Phases 3 and 4, design and project management for Phase 3A and Phase 3B at Avenal Regional Landfill, Kings County, California.
- Waste Connections Master plan for Phase 6, design and project management for Phase 6A Avenal Regional Landfill, Kings County, California.
- Waste Connections Expansion design and Master Plan for Modules 10 through 16, Cold Canyon Landfill, San Luis Obispo County, California.
- Republic Waste Industries and North Coast Regional Water Quality Control Board Peer Review of drawings for expansion of Central Landfill in Sonoma County, California.
- Waste Connections Design and Project Management for Tehama County/Red Bluff Landfill, Phase 2, Cells 2A and 2B, Tehama County California. We are currently designing Cell 2C.
- Waste Connections, Cold Canyon Landfill Module 11A base-liner and perimeter road and leachate system Design Report, and construction drawings in San Luis Obispo, California.
- Waste Connections, Cold Canyon Landfill Module 11B baseliner design and construction management.
- Waste Connections, Cold Canyon Landfill Module 12 baseliner design and construction management (2022).

Expansion and Permitting Projects

- Waste Connections, Cold Canyon Landfill, expansion into Modules 10 through 16 Updated Solid Waste Facilities Permit (SWFP), Prepared and implemented Conditional Use Permit (CUP) compliance plan, designed and managed construction of expansion infrastructure.
- Waste Connections, John Smith Road Landfill, Northern Expansion Prepared master plan
 for expansion, project description, participated in California Environmental Act (CEQA)
 review, prepared Joint Technical Document (JTD update), coordinated SWFP and waste
 discharge requirements (WDR) updates, and have designed all of the Modules in the
 expansion area.
- Waste Connections, John Smith Road Landfill, Far Northern Expansion Designed master plan for expansion and currently preparing project description for CEQA review.

- Glenn County Transfer Station Coordinated design, updated Non-Disposal Facilities Element, prepared Transfer Processing Report (TPR), coordinated CEQA review, and coordinated SWFP permitting.
- Siskiyou County, Black Butte Transfer Station Coordinated design, prepared Transfer Processing Report (TPR), coordinated CEQA review, coordinated SWFP permitting, and provided construction management.
- Siskiyou County, Oberlin Road Transfer Station Coordinated design, prepared Transfer Processing Report (TPR), coordinated CEQA review, and coordinated SWFP permitting.
- Trinity County, Weaverville Transfer Stations Coordinated design, updated Non-Disposal Facilities Element, prepared Transfer Processing Report (TPR), coordinated CEQA review, and coordinated SWFP permitting, and provided construction management.
- Waste Connections, Wetsel-Oviatt Green/Wood Waste and Construction and Demolition Debris Processing Facility - Coordinated design, prepared Transfer Processing Report (TPR), coordinated CEQA review, coordinated SWFP permitting, and provided construction management.
- Waste Connections, Avenal Regional Landfill Permit modification to establish landfill design volume.
- Waste Connections, John Smith Road Landfill Permit Modification for Volume increase.
- Mammoth Disposal, Mammoth Transfer and Recycling Facilities Transfer Processing Report and project development for new transfer station (under construction)
- Independent Recycling Services, Oakland construction debris recycling facility Increase from small volume to medium volume facility (ongoing).
- Waste Management, Anderson Landfill, Inc. Permitting new composting facility at existing Landfill, including planning coordination (ongoing).
- Waste Management, Altamont Landfill Perm

Landfill Cap Design and/or Construction Projects

- City of Redding, Benton Landfill Final Closure Plan and construction assistance.
- City of Redding, Benton Airpark Safety Overrun on top of Benton Landfill Design and construction CQA monitoring.
- Glenn County Landfill Final Closure Plan.
- Humboldt Waste Management Authority Cummings Road Landfill Final Closure Joint Technical Document (JTD) and Phase 1 Closure Cap project management.
- Humboldt Waste Management Authority Cummings Road Burn Ash Site Clean Closure, Corrective Action Plan and project management.
- Humboldt County Waste Management Authority Cummings Road Landfill Phase 2, closure cap design and project management.
- Sierra Pacific Industries Construction Drawings for closure for the Aubrey Ridge Landfill.
- Simpson Paper Company, Dersch Road Landfill, Shasta County, California Final closure cap design and construction CQA Monitoring.
- Siskiyou County, Black Butte Landfill Final closure cap design and construction CQA Monitoring.
- Siskiyou County, Yreka Landfill Final Closure Plan.
- Siskiyou County, City of Tulelake Landfill Closure cap construction CQA monitoring.
- Siskiyou County, Weed Landfill Work Plan for repairs on closed landfill.
- Trinity County Weaverville Landfill Final closure plan and JTD for closure, and CQA Monitoring for the Phase 1 partial-final closure.
- Trinity County Weaverville Landfill Updated final closure JTD and project management for Phase 2 final closure.
- Preliminary closure/postclosure maintenance plan on numerous other landfills.

Surface Impoundments (in cooperation with L&A civil engineering staff)

- City of Fort Bragg Summers Road reservoir design in support of L&A.
- Lampe Engineering Design support related to liner design for Spaulding wastewater evaporation ponds, Lassen County, California.
- Land O' Lakes Design of liner for industrial wastewater pond, Glenn County, California.
- Land O' Lakes Evaluate upper lagoon liner, Glenn County, California.
- Simpson Paper Company Evaluation of sub-liner leakage for leachate ponds, Twin Bridges Landfill, Shasta County, California.
- Water Works Engineers Design support related to pond liners for Forest Service wastewater basin south of Eagle Lake, Lassen County, California.
- Northstar Engineering Design liners and Construction CQA support for wastewater treatment basin in Lake County, California.
- Law Offices of John A. Biard Expert witness in City of Loyalton vs. Stantec et al. regarding waste-water treatment pond defect claim.
- Tehama County Landfill Management Agency Design review for composting area lined stormwater basin.

Solid Waste & Recycling Planning and Permitting

- Compost Solutions, Inc. Developed permitting documents and coordinated agency permitting for a composting facility in Glenn County, California.
- Glenn County, California Updated County Wide Siting Element.
- Glenn County, California Developed Transfer/Processing Report for transfer station and coordinated permitting with CalRecycle.
- Jack Spence Trucking Prepared facility plan and coordinated permitting for a composting facility in Glenn County, California.
- Jack Spence Trucking Prepared facility plan and coordinated permitting for a chicken manure composting facility in Sutter County, California.
- Placer County, California Developed JTD for expansion of Western Regional Landfill and coordinated permitting.
- Tehama County, City of Red Bluff Landfill Designed vertical expansion of Phase 1 Landfill, developed JTD for expanded landfill, and performed permit reviews for the landfill and associated materials recovery facility (MRF).
- Trinity County, Coordinated design, developed initial study for California Environmental Quality Act (CEQA), permitted, and provided construction management for the Weaverville Transfer Station.
- Trinity County, California Updated County wide Siting Element.
- Siskiyou County Developed initial study for California Environmental Quality Act (CEQA), permitted, and provided construction management for the Black Butte Transfer Station in Weaverville, California. In the process for preparing Transfer Processing Report (TPR) for permitting the facility as a large volume transfer station.
- Siskiyou County Coordinated design, developed initial study for California Environmental Quality Act (CEQA), permitted, and provided construction management for the Oberlin Road Transfer Station. In the process of preparing Transfer Processing Report (TPR) for permitting the facility as a large volume transfer station.
- San Benito County Developed JTD and project description for landfill expansion for John Smith Road Landfill.
- Waste Connections Developed CEQA project description for further expansion of John Smith Road Landfill.

- Waste Connections Prepared JTD and coordinated Solid Waste Facility and Waste Discharge Requirement permitting for landfill expansion at Cold Canyon Landfill, San Benito County, California.
- Waste Connections Coordinated planning level design and performed cost estimating for a construction debris processing facility in Mammoth Lakes, California.
- Waste Connections Conditional Use Permit Compliance Plan for 120 Use permit conditions at Cold Canyon Landfill.
- Waste Connections Prepared JTD including a Facilities Plan for a green-waste processing facility and a TPR for a construction and demolition debris processing facility at a temporary site. Also coordinated permitting.
- Anderson Landfill, Inc. Environmental Studies and coordination related to waste boundary realignment.
- Waste Connections Avenal Landfill 5-year permit review and JTD amendments for high-moisture waste acceptance and other updates.
- Tehama County/City of Red Bluff Landfill 5-year permit review and JTD amendments for Materials Recovery Facility and landfill.

Landfill Gas Systems (in cooperation with L&A civil engineering staff)

- Anderson Landfill, Inc. Managed design, installed, and monitored perimeter landfill-gas
 monitoring wells, designed perimeter landfill-gas extraction system to control perimeter
 landfill gas migration, and performed ambient air monitoring and stack testing for
 Conditional Use Permit compliance.
- Simpson Paper Company, Dersch Road Landfill Managed design, installed, and monitored perimeter landfill-gas monitoring wells, designed perimeter landfill-gas extraction system to control perimeter landfill gas migration, and performed stack testing for permit compliance. L&A continues to operate the perimeter system during landfill closure.
- City of Redding, Benton Landfill Managed design, installed, and monitored perimeter landfill-gas monitoring wells, designed partial infill and perimeter landfill-gas extraction system to control perimeter landfill gas migration, and performed stack testing of perimeter system for permit compliance. L&A continues to operate the perimeter system during landfill closure
- City of Ukiah Landfill Installed and monitored perimeter landfill-gas monitoring wells, designed perimeter landfill-gas extraction system to control perimeter landfill gas migration, and performed stack testing for permit compliance. Also performed isotope analysis and carbon age dating to demonstrate natural sources of methane and carbon dioxide.
- Siskiyou County, Yreka Landfill Designed and monitoring perimeter landfill-gas monitoring wells.
- Siskiyou County, Black Butte Landfill Designed and monitored perimeter landfill gas monitoring system and passive landfill-gas venting system.
- Tehama County/Red Bluff Landfill Agency Designed, managed installation, and monitored perimeter landfill-gas monitoring wells, landfill-gas extraction system and flare to control perimeter landfill gas migration.
- Western Regional Landfill Agency, Western Regional Landfill Designed, managed installation, and monitored perimeter landfill-gas monitoring wells, landfill-gas extraction system and flare to control perimeter landfill gas migration.
- Waste Connections, John Smith Road Landfill Managed design of a new flare and annual landfill-gas piping, horizontal collector, and vertical-well system expansions.
- Waste Connections, Cold Canyon Landfill Managed designed annual landfill-gas piping, horizontal collector, and vertical-well system expansions, performed trouble shooting on condensate issues, designed a new condensate sump, designed and installed expanded

- perimeter landfill gas monitoring system, and prepared a Gas Control and Collection System (GCCS) Design Plan.
- Waste Connections, Potrero Hills Landfill Managed design of reused flare from an existing site as a second flare to increase capacity gas-destruction capacity. Also assisted with coordination of landfill gas to energy system development.
- Waste Connections, Tehama County/City of Red Bluff Landfill Coordinated L&A, AB 32 surface emissions monitoring, performed weekly data collection, Title V permit coordination and report, and Federal Greenhouse Gas Reporting.
- Humboldt Waste Management, Cumming Road Landfill Designed and managed logging of perimeter landfill-gas probes, designed expansion of gas-collection system, designed upgrade to controls to support reduced flow during closure, and provided operational support, and performed Federal Greenhouse Gas Monitoring.
- Waste Connections Avenal Regional Landfill Manage design of LFG extraction wells and horizontal collectors.

California Environmental Quality Act (CEQA)

- Shasta Paper Company, Twin Bridges Landfill Initial Study (obtained exemption) for LFG extraction system.
- Siskiyou County, Yreka Landfill Coordinated CEQA review for converting a landfill into a transfer station.
- Trinity County, Weaverville Transfer Station Coordinated CEQA review for landfill and new transfer station.
- Black Butte Transfer Station Prepared Initial Study (IS)/ Negative Declaration (ND) for transfer station permitting.
- Trinity County, Juvenile Hall Project Prepared IS/ND for Juvenile Hall.
- Trinity County, Weaverville Landfill, Closure and Transfer Station Permitting Prepared IS/Mitigated Negative (MND).
- Upland Highlands Subdivision, Siskiyou County, California Prepared geology section for Draft Environmental Impact Report (DEIR).
- Seven Hills Development Designed decentralized sewer system and support CEQA compliance effort.
- Glenn County Landfill, Closure and Transfer Station Prepared project description and coordinated Initial Study/Mitigated Negative
- Jack Spence Trucking, Sutter County, California, Chicken manure Composting Facility Coordinated use permit including supporting information, County prepared Initial Study, including Greenhouse Gas analysis.
- John Smith Road Landfill, Northern Expansion Prepared draft project description, figures, and provided support for IS/MND for the landfill expansion north of John Smith Road.
- Cummings Road Burn Dump Coordinated CEQA review for clean closure of burn dump adjacent to John Smith Road Landfill, provided EIR peer review.
- Avenal Regional Landfill Coordinated EIR amendment for high moisture content waste.
- John Smith Road Landfill, Far Northern Expansions Prepared conceptual design of the landfill expansion and prepared the draft project description.
- Tehama County/Red Bluff Landfill Permit revision, prepared greenhouse gas (GHG) and air quality sections for initial study addendum.
- Mammoth Transfer Station Prepared project descriptions for the town-prepared Initial Study.

Air Quality Permitting and Monitoring

- Anderson Landfill, Inc. Coordinated design and permitting of perimeter landfill gas (LFG) extraction system. Prepared Health Risk Screening for perimeter LFG stack emissions, performed periodic stack monitoring for trace gases (specified air contaminants under the California Health & Safety Code), designed and built upwind downwind only directional sampling equipment, performed low volume trace-gas sampling for compliance with use permit.
- Dersch Road Landfill Coordinated design and permitting or perimeter LFG extraction system, develop stack monitoring protocol, and directed stack monitoring for trace-gas analyses.
- City of Redding Benton Landfill Designed LFG extraction wells for combination perimeter
 and in-fill gas extractions systems, coordinated design of parallel perimeter and LFG
 extraction systems, directed sampling of trace and atmospheric gases from the perimeter
 stack, and preparation of a screening-level health risk assessment for stack emissions using
 the SCREEN Model.
- Black Butte Landfill Designed and permitted infill LFG venting wells for closure of small landfill.
- Western Regional Landfill Coordinated design and permitting of combination in-fill and perimeter LFG extraction system, including drawdown testing of LFG extraction wells to measure radius of influence.
- Ukiah Landfill Developed perimeter LFG operating plan and screening-level health risk assessment for emissions from a perimeter landfill gas-extraction system stack using the SCREEN Model version 3, designed and built sampling equipment, initially performed and subsequently managed trace-gas analyses.
- Tehama/Red Bluff Landfill Coordinated design and permitting of LFG collection system and LFG flare. Developed implementation plan for Assembly Bill 32 monitoring, performed and currently oversee AB 32 reporting. Reviewed initial and subsequent Title V permit updates, oversee data collection and extraction system operation (by L&A staff) and perform Federal GHG reporting. Also provided guidance and LFG model evaluation during partial shutdown of the LFG system during final closure of the Phase 1 Landfill.
- Humboldt Waste Management Agency, Cummings Road Landfill Oversee data collection (by Landfill Personnel), oversee AB-32 reporting.
- John Smith Road Landfill Managed design and permitting of new flare.
- Cold Canyon Landfill Prepared draft design report for Title V report, perform annual date valuation and recommended additional wells, and direct design by engineering staff.
- Cold Canyon Landfill Prepared construction activities management plan (CAMP) for air emissions from construction activities. Prepared initial report format and Carl Moyer reporting method for Module 11A, and directed data collection and reporting for Module 11B.
- Glenn County Landfill Prepared LFG emissions estimates and coordinated Air Quality Sect for an Initial Study for landfill closure and transfer station permitting.
- Jack Spence Trucking Addressed odor and ammonia air quality issues for county-permitting and CEQA review for a chicken litter composting facility.
- Avenal Regional Landfill Performed annual data evaluation and recommended additional wells or horizontal collectors, and direct design by engineering staff. Prepare Odor Impact Management Plan (OIMP).
- Tehama Landfill Agency Managed preparation of and edited GHG and Air Quality Sections for Initial Study Addendum to increase traffic and daily tonnage.

- John Smith Road Landfill Prepare LFG and vehicle emissions calculations and health risk assessment, using AERMOD for dispersion modeling, and prepared GHG and Air Quality Sections.
- Anderson Landfill, Inc. Addressing air quality and odor conformance and prepared project description for new composting facility.

The above list is focused predominantly on solid-waste and recycling related work and does not include projects, such as groundwater remediation plans, corrective action plans, cost estimating, slope stability and geologic reports, timber harvest plans, groundwater monitoring, or other non-waste related work. Please request more information if you are interested in Mr. Coles' other experience.



RESUME

Dylan A. De León

Staff Engineer

EDUCATION

BS, Civil Engineering, 2018, California State University, Chico, CA

PROFESSIONAL REGISTRATION

Engineer in Training EIT 166771
OSHA 40-Hour HAZWOPER Training (certificate)
OSHA 8-hour yearly HAZWOPER refresher (certificate)

AFFILIATIONS

American Society of Civil Engineers (ASCE)

EXPERIENCE – GENERAL

Lawrence & Associates (1/19 to present)

Mr. De León is a Staff Engineer working under the Principal Engineering Geologist and Senior Civil Engineer for projects involving the integration of engineering, geology, soils, groundwater, surface water and the interaction of structures built.

California State University, Chico (2018-2018)

Under the CSU. Chico Research Foundation Mr. De León worked as a research assistant.

South Feather Water & Power Agency (2017-2018)

Mr. De León worked as an engineering student intern under the Chief Dam Safety Engineer for project relating to dam safety and regulatory compliance for several hydroelectric project.

PROJECT EXPERIENCE

The following is a partial list of experience performed under the direction of a licensed professional engineer and/or certified engineering geologist:

- 2019, John Smith Road Landfill, Module 7/8B Compiled specifications, bid documents, engineer's estimate, and coordinated bidding for lined landfill module.
- 2020, John Smith Road Landfill, Module 7/8B Compiled specifications, bid documents, engineer's estimate, and coordinated bidding for lined landfill module.
- 2020, Tehama/Red Bluff Landfill Developed emissions calculation spreadsheets and calculated greenhouse-gas (GHG) emission and criteria pollutant emissions for California Environmental Quality Act (CEQA) analysis.
- 2020, Avenal Regional Landfill, Module 3B Compiled specifications, bid documents, engineer's estimate, and coordinated bidding for lined landfill module.

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- 2020 and 2021, Tehama/Red Bluff Landfill Conducted annual leachate system function test, performed CQA observation on interim soil cover.
- 2021, Cold Canyon Landfill Module 11B Prepared drawings and specifications, bid documents, engineer's estimate, coordinated bidding, responded to contractor questions, interpreted drawings and performed final site inspection for lined landfill module. Work included updated of a Construction Activity Management Plan (CAMP) for construction air emissions, calculated emissions using the Carl Moyer method and reported the results the local air district.
- 2020, John Smith Road Landfill Prepared vehicle-emissions spreadsheets, calculated both CHG and criteria pollutant emissions, prepared dispersion models using AERMOD, and performed health risk calculations.
- 2021, Avenal Regional Landfill Prepared design report for the Phase 6 excavation, waste fill, leachate collection and recovery system (LCRS) and liner system.
- 2021 Avenal Regional Landfill, Phase 6A Bulk Excavation Prepared drawings, specifications, performed bidding and coordinated construction.
- 2019 and 2021, Numerous Sites Prepared Environmental Site Assessment reports for property transactions.

Table X1

John Smith Road Landfill Expansion Estimated Emissions Reduction from EV Chargers:

Assumes:

These equations calculate the reduction in GHG emissions from EV charging stations assuming employees or similar site vehicles (cars or light trucks) use the charging stations. Heavier equipment, such the water truck or maintenance truck would be estimated separately based the specific vehicle characteristics and vehicle miles traveled (VMT). The initial utilization is anticipated to be less, however, the charging stations are intended to encourage conversion to EV vehicles that would create additional reductions away from the site.

Source: ICF, March 9, 2018, Driving to Net Zero, White Paper, Table A-3

Equation 1: Vr = Vc * CEquation 2: Er = Vr * EpEquation 3: Em = (Er / C)

Where:

for County Requested Installation of Four Chargers

Vc = 8,724 Vehicle Miles Traveled (VMT) Per charging station per year, assume 727 mi/mo per Santa Clara Reference
C = 4 Number of chargers (assume chargers are used by public assuming replacement of gasoline vehicles
Vr = 34,896 VMT reduced (CAP) calculated
Ep = 0.000431 Emissions Factor, MTCO₂e/VMT assuming replacement of public gasoline vehicles
Er = 14 MTCO₂e of gross emissions reduced - all chargers (rounded down)

Em = 3.8 MTCO₂e of gross emissions reduced per year per charger

Source of VMT:

City of Santa Clara Climate Action Plan, December 3, 2013, Section 6.6

for Five chargers at Landfill

Vc = 11,880 Vehicle Miles Traveled (VMT) Per charging station per year, assume 33 miles per day, 360 operating days per year
C = 5 Number of chargers (assume all are used by employees during the day)
Vr = 59,400 VMT reduced (CAP) calculated
Ep = 0.0006 Emissions Factor, MTCO₂e/VMT assuming employee commute
Er = 36 MTCO₂e of gross emissions reduced - all chargers
Em = 7 MTCO₂e of gross emissions reduced per year per charger

Miles to In County Origin 8.35 one way per Table E3. Assume two round tripos per day per station = 8.35 * 4 = 33 x 361 days per year

Emissions Factor Source: City of Santa Clara Climate Action Plan, December 3, 2013, Tables A3 & A4 https://www.santaclaraca.gov/home/showdocument?id=10170

Gasoline $0.000431~\rm MTCO_2e/VMT$ per EMFAC 2011 Diesel $0.001344~\rm MTCO_2e/VMT$ per EMFAC 2011 Employee Commute $0.0006~\rm MTCO_2e/VMT$

Table X2

John Smith Road Landfill

GHG Reduction by Converting Landfill ATVs and 1/2-ton Trucks to Electric

Assumptions

The spreadsheet calculates emissions reductions from converting two ATVs and two 1/2-Ton pickup trucks from internal combustion engine (ICE) to electric battery (EB) vehicles.

Summary

Covert two ATV's to EV

1.4 MTCO₂e
Covert two 1/2 ton pickups to EV

3.4 MTCO₂e

Total GHG Reduction (Rounded)

5 MTCO₂e

Convert ATV's to Electric

| | | | | | Runex | | Runex | | | |
|---|---------------|-----------|--------|----|-------------|---------------------|-------------|------------|-----------------|------------|
| | | | | | Emissions | | Emissions | | | |
| | Vehicle Type, | | | | Factor GHG | | Factor GHG | | Runex Emissions | |
| | Fuel (Vehicle | Hours per | Load | | CO2 (g/bhp- | GHG CO ₂ | CH4 (g/bhp- | GHG CH4 | Factor GHG N2O | GHG N2O |
| Support Vehicles | Category) | Year | Factor | Нр | hr) | (lbs/year) | hr) | (lbs/year) | (g/bhp-hr) | (lbs/year) |
| Existing ICE ATV (both; 2) | MDV | 387 | 1 | 18 | 194.00 | 3,000.74 | 0.1100 | 1.70 | 0.0050 | 0.08 |
| Replaced EBV ATV | MDV | 387 | 1 | 18 | 0.00 | 0 | 0.0000 | 0.00 | 0.0000 | 0.00 |
| Difference | | | | | _ | 3,001 | _ | 1.70 | _ | 0.08 |
| Global Warming Potential Multiplier | | | | | | 1 | | 25 | | 298 |
| CO ₂ e GHG Emissions (lbs/day) | | | | | | 3,001 | | 42.54 | | 23.05 |
| Years | | | | | | 1 | | 1 | | 1 |
| Effective GHG Emissions (lbs/year) | | | | | | 3,001 | | 43 | | 23 |
| Conversion to Ib/Metric Ton | | | | | _ | 4.54E-04 | | 4.54E-04 | | 4.54E-04 |
| MTCO ₂ e/yr | | | | | _ | 1.36 | | 0.0193 | | 0.0105 |
| Total MTCO₂e/yr | | | | | | 1.4 | | | | |

Grams per Pound Conversion

0.002220462 g/lb

Emissions Factor Sources Table 9-3A

EPA 420-P-04-009, Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling - Compression Ignition , USEPA, April 2004 - Tier 2 Engines Load Factors from Appendix A of EPA 420_P-04-005, Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling , USEPA, April 2004

Convert Two 1/2 Ton Truck to Electric

Emissions Reduction Factor:

478 GHG Emissions, g/mile x 1,000,000 gr/MT

4.78E-04 MtCO₂e/mile

Sources:

Liu, Xinyu, Elgowainy, Amgad, et. al, 2021. Wells-to-Wheels Analysis of Zero Emission Plug-In Battery Electric Vehicle Technology for Medium and Heavy Duty Truck, Environmental Sci. Technol. 2021, 55 - Figure 3 Class 2 PUTs & Vans ICEV (internal combustion engine vehicle); 873 g/mile minus BEV (battery electric vehicle); 395 g/mile. Based on average US electrical GHG. Benefit in California likely higher.

For "Class 2" GVW 6001 to 10,000 lb

| Annual VMT - PU Truck / Van | Miles/year | Savings MTCO₂e/yr |
|---|------------|----------------------|
| 1/2 Ton PU | 3,600 | 1.7 |
| 1/2 Ton PU at 10 miles per day, 360 days/year | 3,600 | 1.7 |
| Total MTCO₂e/yr | | 3.4 |

Note:

A Chevy Silverado 2500 4WD GVWr ranges from 10,250 to 10,450 lb. Curb Weight from 6,105 to 6,533 lb (Chevy Website) A Chevy Silverado 1500 2 WD GVWr ranges from 5,400 to 5,700 lb. Curb Weight ranges from 3,968 to 1,877 lb (Chevy Website)

Page 1 of 1 Lawrence & Associates

Table X3 John Smith Road Landfill GHG Reduction by Converting County Vehicles to Electric

Emissions Reduction Factor 478 GHG Emissions, g/mile x 1,000,000 gr/MT 4.78E-04:CO₂e/mile

Sources:

Liu, Xinyu, Elgowainy, Amgad, et. al, 2021. Wells-to-Wheels Analysis of Zero Emission Plug-In Battery Electric Vehicle Technology for Medium and Heavy Duty Truck, Environmental Sci. Technol. 2021, 55 - Figure 3 Class 2 PUTs & Vans ICEV (internal combustion engine vehicle); 873 g/mile minus BEV (battery electric vehicle); 395 g/mile. Based on average US electrical GHG. Benefit in California likely higher.

For "Class 2" GVW 6001 to 10,000 lb

| | | Savings |
|-----------------------------------|------------|---------|
| Vehicle | Miles/year | MTCO2e |
| Average miles per year from below | 8,650 | 4.1 |
| Times number of vehicles | | 2 |
| Total MTCO₂e/yr (Rounded) | | 8 |

Note

A Chevy Silverado 4WD GVWr ranges from 10,250 to 10,450 lb . Curb Weight from 6,105 to 6,533 lb (Chevy Website) A Chevy Silverado 2 WD GVWr ranges from 5,400 to 5,700 lb . Curb Weight ranges from 3,968 to 1,877 lb (Chevy Website)

Potential County-Owned Internal Combustion Engine Vehicles to Replace with Electric Vehicles

Provided by San Benito County Integrated Waste

| Plate | Make | Model | Year | Miles/Year |
|--------------------|-------|----------------|------|------------|
| 1249872 | Chevy | Colorado | 2006 | 6,200 |
| 1590914 | Chevy | Silverado 2500 | 2020 | 20,700 |
| 1603142 | Chevy | Silverado 2500 | 2020 | 6,500 |
| 1603143 | Chevy | Silverado 2500 | 2020 | 1,200 |
| Average Miles/Year | | | _ | 8,650 |



Technical Memo John Smith Road Landfill Long-Term Water Use

July 8, 2022

Introduction

John Smith Road Landfill (JSRL or Landfill) retained Lawrence & Associates (L&A) to estimate the projected water usage for the proposed Landfill expansion project for the purposes of evaluating potential water sources for the projects future demand. Current and projected water use for the project are generally described in the Design Basis Report for the project, however; this Technical Memo provides a more in-depth effort to evaluate current water use, model future water use, and provide projected seasonal water-use needs.¹

JSRL, similar to other landfills, consumes a significant quantity of water for dust control. Other water uses, such as domestic uses (toilets flushing and sinks) are negligible by comparison. Dust control falls into two categories (1) regular landfill operations and (2) construction. Operations occur seven days per week with most public traffic on the weekends and most commercial traffic on weekdays. Module (liner) construction projects are anticipated to occur every two years. Partial-final closure cap construction projects will occur less frequently based on when the landfill surface grade ceases settling and when needed to optimize landfill gas collection (LFG) efficiency. It is assumed that partial final closure projects would not typically be performed during the same construction year as a module construction project, unless soil is hauled from a module construction to a closure area (in lieu of a stockpile) to reduce soil handling.

Historical Water Usage

Historically, most water for JSRL has been obtained from the Sunnyslope Water District via a fire hydrant approximately 3 miles from the Landfill and transported to the Landfill via a water truck. The Landfill has several unlined stormwater basins from which a small amount of the landfill's water has been obtained. Use of stormwater has not historically been recorded and is

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¹ Lawrence & Associates, November 2021, Design Basis Report for the John Smith Road Landfill Expansion, San Benito County, California.

assumed to be negligible in comparison to imported water. Because the basins are unlined, water infiltrates gradually and stormwater is typically only available for a short time (days to weeks) after storm events. The ponds are dry during the summer when water needs for dust control are highest. Leachate from the landfill's leachate collection and recovery system (LCRS) and condensate from the landfill's LFG-collection system are disposed to the sewer and are not currently used for dust control.

Table 1 (Attachment A) presents the available data from the Sunnyslope Water District and contractor invoices for 2018 through 2021. Typically the Landfill pays for site-operation water and the construction water is paid for directly and invoiced by the construction contractor. The only full year without construction was 2021, when approximately 2.44 million gallons of water was used for site operations. During construction of Modules 7/8B and 7/8C in 2019 and 2020, respectively, the water use for site operations was significantly less than 2021 (22% and 31%) less, respectively) suggesting that a portion of the construction water offset operational uses and the water related strictly to construction was significantly less than reported by the contractor. Conversely, for the partial year if 2018, it appears that the construction water did not offset water for site operations. When subtracting water likely used for operation, construction water ranged from 1.6 to 2.1 million gallons (2,140 HCF to 2,807 HCF with an average of 2.47 HCF) per project.² Assuming water use is more likely proportional to bulk excavation volume, water usage ranged from 5.36 to 12.24 gallons per cubic yard of excavation with an average of 7.83 gallons per cubic yard. For some reason, the water use for the relatively small (2.77 acre) Module 7/8B was significantly higher than Modules 7/8A and 7/8C and may be an outlier. Without Module 7/B, the average would be 5.62 gallons per cubic yard.

Projected Water Usage

Potential generation of dust is proportional to travel distance and traffic rate for a given road surface type. Unpaved roads have the potential to generate the greatest amount of dust, graveled roads less so, and paved roads very much less so. Paving roads provides greater than 90% control efficiency (1-[dust generated after control measure is applied divided by dust generated before control measure]) when compared to unpaved roads (Countess, 2006).³ Application of water to prevent mobilization of dust is a common control measure for unpaved roads. Vacuum sweeping is commonly used to control dust on paved surfaces. In areas of mud or soil, track-on from unpaved to paved area (and subsequent dust) is commonly controlled by rumble plates, and water flushing followed by vacuum sweeping.

² 2021 operations water minus 2020, 2019, and 2018 annual operations water and then subtract the result for reported construction water. See "Corrected Construction Water" on Table 1 in Attachment A.

³ Countess Environmental, September 7, 2006, *WRAP* [Western Regional Air Partnership] *Fugitive Dust Handbook*. Prepared for Western Governors' Association, Denver Colorado.

A purpose of this memo is to provide an estimate of the water usage for the proposed landfill operation and for each construction project, of which most will be used for dust control. As described below, water usage is based on average traffic and road lengths as obtained from the baseline condition and the scenarios in Figures B7 through B12 in Appendix B to the Draft Environmental Impact Report (DEIR) dated November 2021 and Figures 38 through 41 in the Design Basis Report. ^{4,5} The scenarios were developed to focus on emissions closest to the property line. For the purpose of water usage, however, the length of gravel roads for waste hauling have been doubled (in Table 4) to better represent the average length during operation of the Landfill. Copies of Figures B7 through B12 are included in Attachment B to this Memo.

For the purposes of estimating future water usage conservatively, this analysis does not assume that use of landfill leachate, condensate, or the use of dust palliatives would reduce water consumption, however, they may be used in the future and may reduce water usage.

Module construction is projected to occur on average every two years with peak construction trips and dust generated during the bulk excavation and clay-screening phase of construction when several heavy off-road trucks are hauling soil from the excavation area to the stockpile area and concurrently soil screening is occurring. As described in Section 5.5.5 of the Design Basis Report, the module project bulk soil excavation is anticipated to range from 113,000 to 221,000 cubic yards per project (as much soil as possible is excavated for daily and intermediate cover prior to project excavation) in five- to 10-acre lined area module construction projects. While the Module construction acreage is anticipated to be generally larger (average of 7.9 acres) than projects described in Table 1, the bulk excavation volume is expected to be generally lower.

Construction of portions of the final closure cap or "partial final closure" projects will be performed as portions of the Landfill reach their final elevations and have undergone sufficient settlement so that they have a relatively fixed geometry prior to cap placement. The frequency of partial final closure project cannot be predicted, but could occur every five to 10 years and cover 15 to 29 acres, respectively. Depending on the closure cap type (conventional; with 3.5 feet of soil and geomembrane or evapotranspirative; with 4 to 5 feet of soil added), the bulk excavation and soil placement could range from 85,000 cubic yards to 235,000 cubic yards. Soil would typically be obtained from the nearest future Module to minimize soil excavation for Module construction. Based on bulk excavation volume, it is anticipated that water needs for a Partial Final closure project would be less than or equal to a Module construction project.

⁴ Lawrence & Associates, 2021, *Appendix B, Air Quality Calculations for John Smith Road Landfill Expansion*, Scenarios 1 through 5 in Attachment O.

Lawrence & Associates, November 2021, Design Basis Report for the John Smith Road Landfill Expansion, San Benito County, California.

The most water intensive construction use typically occurs during the bulk excavation phase in two to three months during the late spring and early summer. Less intense water usage is required during other parts of the construction process, such as during clay liner and geosynthetic placement.⁶

Traffic

Operations Traffic

Potential dust generating activities during landfill operations include the following:

- Customer traffic on paved roads.
- Customer traffic on graveled roads.
- Customer traffic in the unloading area.
- Operator equipment to compact and bury the waste.
- Operator traffic to excavate, haul, and place daily soil cover.

Among currently implemented Best Management Practices (BMPs) are:

- Paved entrance area to eliminate soil exposure and provide a cleanable surface.
- Graveling roads to reduce soil exposure.
- Watering to reduce dust mobilization.
- Reducing watering when needed, to reduce the potential for mud tracking.
- Rumble plates at the transition between the graveled and paved road to prevent track-on.
- A wheel wash used during muddy (rainy) periods to reduce track-on.
- Vacuum sweeping to collect tracked dust from paved surfaces.
- Pavement washing followed by vacuum sweeping to remove adhered mud.

As the landfill expands, the length of both paved and graveled roads will increase, thereby increasing the potential for more water use.

As described in the Design Basis Report the current average (baseline) traffic is:⁷

• In-County Public Vehicles (mostly pickup truck and small trailers, including employees): 188 trips/day.⁸

Most moisture conditioning of the clay occurs when it is screened and stacked so that it is delivered to the area of installation on the module floor at the desired moisture content. Water is used to maintain moisture at a less intense rate than during the bulk excavation and clay screening phase.

⁷ Lawrence & Associates, November 2021, Design Basis Report for John Smith Road Landfill Expansion. Attachment F.

A trip is both into the Landfill and then out of the Landfill. Trips both ways are accounted for by assuming two lanes for each trip; one in and one out.

- In-County Commercial Vehicles (garbage trucks, roll-off bin trucks, dump trucks): 31 trips/day.
- Out-of-County Commercial Vehicles (Semi trucks with transfer trailers): 36 trips/day.
- Operational support vehicles that travel to the working face: 8 trips/day.
- Total of 263 trips.

The totals vary with season and day of the week; however, these totals provide an average for water usage evaluation. Currently, all of the vehicles travel to the landfill working face to unload; the unloading area covers approximately a 200-foot-wide by 100-foot-long area (0.5 acres). Waste is currently spread and compacted using a dozer and trash compactor. Soil for daily cover is excavated from a stockpile east of the Landfill by an excavator and hauled by an off-road dump truck to the working face on unpaved and gravel roads. Tarps are used for daily cover to reduce soil usage; however, several 20 cubic yard loads of soil are needed each day to cover waste. Ancillary equipment includes fuel truck, mechanic truck, loader, backhoe, motor grader, and semi stationary truck tipper, which are used infrequently. A vacuum sweeper and water truck are used for dust control.

As described in the Design Basis Report, average traffic will gradually increase over a 15-year period as average daily tonnage increases from roughly 923 to 2,123 tons per day until it reaches the following average totals in 2036:

- In-County Public Vehicles (mostly pickup truck and small trailers): 208 trips/day.
- In-County Commercial Vehicles (garbage trucks, roll-off bin trucks, dump trucks): 34 trips/day.
- Out-of-County Commercial Vehicles (Semi trucks with transfer trailers): 95 trips/day.
- Operational support vehicles that travel to the working face: 8 trips/day.
- Total of 345 trips/day.

Subsequently, average public trips would gradually increase to 232 trips and in-County commercial would gradually increase to 38 trips per day by 2070, an increase of 24 public trips and four in-County commercial trips. Out-of-County truck trips would decrease by one to 94.9

The proposed project includes a public unloading area near the entrance at which in-County Public vehicles would unload and not travel to the landfill working face. The currently described configuration assumes four 30-cubic roll-off bins with room for up to 12 unloading spaces.

According to the Operator, approximately 50% of the public deliver waste in trailers, approximately 20% have tilt trailers that can unload automatically. At some landfills only tilt

⁹ Design Basis Report Attachment E change in truck trips between 2036 and 2070.

¹⁰ Pers Comm.: Roger Brown, April 18, 2022.

trailers are allowed to proceed to the working face. ¹¹ For the project, it is assumed that loads with trailers will proceed to the working face. Therefore, for the project, 50% of the public loads will not travel to the working face (116 trips as of 2070). ¹² Assuming an average of 440 pounds per load ¹³ and 435 lbs per cubic yard for loose waste ¹⁴ (1.01 cubic yards per load), a 30-cubic yard bin would hold waste from approximately 30 loads. An average of 116 loads would fill 3.9, 30-cubic yard roll off bins per day and 4 trips per day would be generated to unload the roll-off bins.

• Average total trips that continue to the working face (as of 2070): 260 trips. 15

For the proposed project, the average number of vehicles traveling to the working face would be slightly less than the baseline traffic. The trips on busy days would be higher and lower on slow days, however average trips is useful for estimating long-term water usage over the period of a year.

It is likely that a second bulldozer, trash compactor, and soil haul truck would be added to accommodate peak disposal rates for the proposed project (Design Basis Report, Table 27) and, as a result of the increased daily tonnage, the working face would double in size (from 0.5 to 1 acre). The ancillary equipment would remain similar but may see more frequent occasional use. The vacuum sweeper would likely be used more frequently with longer paved roads. For the proposed project, it is assumed that a larger one-acre unloading area at the working face will be used.

Construction Traffic

As described above, module construction would occur every two years and partial final closure every five to 10 years, with peak potential dust generating activity and water usage during the bulk excavation phase of construction, lasting from two to three months starting approximately April 15 and ending around July 15 of each construction year. The greatest potential for dust during this period is from excavation of soil, hauling on an unpaved road and deposition into a stockpile. Based on Attachment O to DEIR Appendix B (included in Attachment C to this memo), soil hauling trips would average 239 trips per day during this period, typically on

¹¹ Such as West Central Landfill in Shasta County, California.

The operator reports that from April 1, 2021, to March 31, 2022, 58.6% of the loads did not have trailers and 41.4% did have trailers. 50% is considered a conservatively high proportion travelling to the working face. Personal Comm Jamison Pfister, June 20, 2022.

¹³ Email from Jamison Pfister June 22, 2022, Average of 0.22 tons per public load without trailer.

¹⁴ CalRecycle FacIT.

From previous paragraphs: 116 public trips + 38 in County commercial trips + 94 truck trips + 8 staff + 4 roll-off bin trips.

weekdays. ¹⁶ Another 42 trips are assumed for support purposes. Two thirty nine off-road dump truck trips per day provides capacity to move approximately 6,000 cubic yards of soil per day from the excavation area to the stockpile area. Assuming the upper end of the projected soil excavation per project of 225,000 cubic yards, times a 1.25 multiplier for potential higher than average excavation, 281,250 cubic yards per project were projected for bulk excavation.

Road Lengths

Water usage depends on the road length for each type of road and area including the following:

- Unpaved Road
- Gravel Road
- Paved Road
- Paved Road / Gravel Road interface (track-on)
- Tipping Pad travel distance
- Construction excavation area
- Construction stockpile area

Tables 3 and 4 in Attachment A show the road lengths and area assumed for dust-control water estimation. The baseline road lengths from Attachment O of Appendix B of the DEIR were used to calibrate/verify the current water usage. The road lengths for the five scenarios in Attachment O were averaged to estimate the projected average dust-control water usage. Copies of the figures showing the scenarios are attached to this Memo in Attachment B. Scenario 1 is generally the closest to the landfill entrance and would have the shortest road lengths. Scenario 5 is the farthest from the entrance and will have the longest travel paths. Scenarios 2 through 4 have intermediate road lengths. Average module construction areas are assumed to be 11.19 acres; larger than the projected average of roughly 7.9 acre per module.

Water Consumption Calculation

Domestic Water Usage

The current and projected domestic water use described in Attachment A were obtained from the Design Basis Report.¹⁷

Lawrence & Associates. December 2022, Appendix B, Calculations for Air Quality and Greenhous Gas Climate Change, Proposed Landfill Expansion, John Smith Road Landfill, San Benito County, California. Attachments O3 through O7 (See example in Attachment C).

Lawrence & Associates, November 2021, Design Basis Report for the John Smith Road Landfill Expansion, San Benito County, California, November 2021, Table 14; current 250 gallons per day; Proposed 300 gallons per day.

Water Use for Dust Control

Unpaved and Gravel Roads

Water for dust control on unpaved roads has been described in AP-42, Section 13.2.2 and other references. Water for dust control is described in terms of application rate and frequency of application. After water is applied, it gradually evaporates from the soil surface and must be reapplied to maintain the desired control efficiency (Muleski & Cowherd, 2021). Water must be applied at a rate that will reduce mobilization of dust while not creating a saturated surface that will cause mud and promote tracking onto adjacent paved roads. The water application rate and frequency are proportional to the evaporation rate and the traffic that passes over the road.

Equation 3-2 from Cowherd (1988) was used to calculate water use in gallons per pass for dust control on unpaved and gravel roads for a given control efficiency and traffic.²⁰

C = 100 - ((0.8 p d t)/i), and

for a given control efficiency to obtain application rate:

i = -0.8 p d t / C-100

Where:

C = average control efficiency, percent

p = average hourly daytime evaporation rate, mm/hr

d = average hourly daytime traffic rate, (trips per hour; h-1)

i = water application intensity, L/m2 per application

t = time between applications, hr

The required control efficiency for each road type was obtained from the modeled control efficiency shown in Attachment O of Appendix B to the DEIR.

For operations, the average annual evaporation rate of 3.92 mm/day (1431 mm/yr) was used and assumes that all of the water evaporates during the 12 hours of daylight during the day (0.33 mm/hr). ²¹ Because construction occurs mostly during the summer, the average evaporation rate

¹⁸ USEPA, January 1995, *AP-42, Compilation of Air Emissions Factors*, Office of Air Quality Planning and Standards, Section 13.2.2 Unpaved Roads updated November 2006 and Section 13.2.1, Paved Roads Updated January 2011.

Muleski, Gregroy E., and Cowherd, Chatten, April 2001, Particulate Emissions from Controlled Construction Activities, EPA/600/R-01/031.

²⁰ Cowherd, C., et al., September 1988, Control of Open Fugitive Dust Sources, EPA-450/3-88-308.

²¹ DWR 1976, Evaporation from Water Bodies in California, Hollister Costa Station.

for May through September was used (871 mm / 5 months / 30.42 days per month divided by 12 hours -0.48 mm/hr).

Assuming the landfill is open for 8 hours, average daily traffic described above (260 trips for operational traffic or construction-specific trips per Table 4) was divided by 8 hours to obtain the hourly daytime traffic rate.

The time between applications was based on use. For publicly accessed roads, two applications per day were assumed. For unpaved construction haul roads where a high control efficiency was required, four passes per day were selected. For roads used infrequently, such as the haul path from the stockpile to the working face for daily cover, one pass was assumed. For a given control efficiency, as the number of passes increases, the application rate per pass decreases.

Tables 4 and 5 in Attachment A show the application rate calculations for the operations (waste delivery) and construction, respectively. The application rate and passes were multiplied by the road length times width (assume two lanes of 12 feet; 24-feet for two-way traffic), to obtain the average water usage for each road type. Both construction (soil excavation) and waste delivery traffic tend to follow paths across the tipping area, excavation area, or stockpile that change from day to day. For those areas, it was assumed that a travel path equaling the length of the pad times 24 feet wide. As described above, the length of the graveled waste haul paths for waste delivery were doubled to more conservatively model water needs for waste delivery.

Paved Roads

Paved roads provide dust control by preventing exposure of soil to traffic. For a landfill, the predominant cause of dust on paved roads is by track-out from vehicles leaving unpaved roads and to a lesser extent gravel roads onto paved roads. Track-out occurs on and following rainy days when the soil is wet enough to create mud that sticks to tires and is tracked onto paved areas and then released onto paved roads, where it can later dry and create dust. According to Countess 1988, minimizing track-out provides 40 to 80% control efficiency for paved roads and removing deposits on roads ASAP provides greater than 90% control efficiency.

The Landfill currently uses a combination of gravel tracking pads (46% control efficiency) and rumble pads (up to 80% control efficiency) to remove mud from tires, and operates a wheel wash to remove mud from tires during, and two days after, rainy periods. In addition, the paved roads are vacuum swept as needed to collect the remaining dust. When needed, the paved area subject to track-out is flushed with water followed by vacuum sweeping to remove adhered mud. It is anticipated that the same practices will continue during expansion, except that a larger wheel wash is incorporated.

For the purposes of water usage, it is assumed that the wheel wash will be used every day in which rainfall exceeds 0.1 inches (30 days) and two days thereafter (total of 90 days). The wheel wash recirculates water, however, according to the operator approximately 1,000 gallons per day is needed to replace water lost in the washing process. For the expanded landfill, it is anticipated that a large truck wash will be installed and will use double the water requirements of the current truck wash.

For track-out pavement cleaning Table 2-4 in Cowherd, 1988, using flushing followed by vacuum sweeping, recommends 0.48 gallons per square yard (gpsy) with the frequency of application dependent on the traffic rate:

 $E = 96 - 0.263 V^{c,d}$

Where:

E = Dust control efficiency, percent

96 = Base dust control efficiency, percent

 $V^{c,d}$ = Vehicles passes since last application, assuming water applied at 0.48 gal/yd² (0.05 gal/sf).

In areas other than those receiving track-out, vacuum sweeping is performed to attain 46 to 75% percent control efficiency (depending on the reference, Cowherd, 1988, Table 2-4 and Ohio EPA 1988, pp. 2-14 on a bi-weekly schedule).²³ According to Ohio EPA (1988), a weekly water flushing for an industrial site is anticipated to have an effective control efficiency of 80%. Because there is no established control efficiency equation for paved roads to establish water usage, on Attachment A water consumption was calculated similar to 90% control efficiency for an unpaved road assuming two passes per day. However, the water is likely to be used less frequently and for a greater application rate for periodic pavement flushing. The exact usage pattern cannot be predicted, but the approach described above is anticipated to provide a conservatively high water usage rate.

Comparison to Another Site

L&A obtained water usage data for January 2020 through May 2021 from Avenal Regional Landfill (ARL), in Avenal, Kings County California, approximately 25 miles east of JSRL. ARL receives less rainfall than JSRL Landfill, and during the water use period had longer graveled roads than the projected average for JSRL (ARL 1.36 miles; JSRL 0.29 miles), but shorter paved roads than the projected lengths for JSRL (ARL 0.19 miles; JSRL 1.00 miles). During the 17-month period described above, ARL consumed 4,707,587 gallons or an average approximately

Ohio Environmental Protection Agency (Ohio EPA), 1980, Reasonably Available Control Measures for Fugitive Dust Sources, 'RACM".

3,322,996 gallons per year (10.2 acre-feet) for landfill operations. In addition, 147,000 gallons of leachate were used for dust control in a year period for a total of 3,469,996 gallons. This is considerably less than projected for JSRL in Attachment A (5,258,000 gallons per year) and could indicate that the equations used above overestimate water usage. For the purposes of projecting water usage, however, a conservatively high projected water use would be beneficial to ensure adequate quantity of water is planned for over the long term.

Summary

Table 2 in Attachment A summarizes the average modeled baseline and project water usage for the Landfill operations. The baseline water usage was calculated to determine whether it predicted the water usage for operations reported by the operator. The modeled water usage matched the approximate operations water usage reported by the operator for 2021 (non-construction year) and the model was determined to provide a reasonable predictor of future average water usage for operations.

The projected average annual water usage was estimated based on projected trips to the working face and average road length. As described above, the roads will gradually lengthen as modules farther from the entrance are developed and the paved surface will gradually lengthen as well. Because of the implementation of the public tipping area the average traffic travelling to the working face will be similar to or less than the current traffic and the average annual water usage over the life of the Landfill is projected to increase approximately 116% over the current operational water usage. As the distance from the entrance increases, the change in water usage is estimated to initially be less than projected average water usage (80% for Scenario 1) and then increase as road lengths increase reaching 110% of average projected water usage near the end of the landfill site life (Scenario 5).

As shown on Tables 3 and 4 in Attachment A, the current average water usage for operations is approximately 2.4 million gallons per year (7.59 acre-feet or 3,300 HCF per year). The modeled average projected water usage would be approximately 5.3 million gallons per year (16.14 acrefeet or 7,000 HCF per year), but could range from 4.2 million gallons per year (12.93 acre-feet or 5,631 HCF per year) initially using Scenario 1 to 7.0 million gallons per year (17.83 acre feet or 7,765 HCF per year) near the end of landfill site life using Scenario 5.

Table 5 in Attachment A shows that either a module construction project or a partial-final closure construction project would require an average of approximately 2.2 million gallons of water (6.64 acre feet or 2,891 HCF) of water, more than used historically for construction projects described above (average of 1.9 million gallons). The water usage would vary with the length of construction roads, excavation area, stockpile area, and bulk excavation quantity. It is estimated that approximately 1.8 million gallons (5.39 acre feet or 2,350 HCF) would be

required for Scenario 1. For Scenario 5, 2.6 million gallons (8.13 acre feet or 3,542 HCF) would be required.

Table 2 in Attachment A summarizes the water usage for a Module construction project by season. Using the ratio of trips per season provided by the operator, the average projected water usage was prorated by season. For the purposes of estimating short term water demand from a water source such as a well, the average gallons per minute for each season for both operations and construction were estimated based on consumption during an 8-hour day. If storage at the water source is provided, the 24-hour average would be 1/3 of that required on an 8-hour basis.

The following Table summarizes the average water flow requirements for operations and construction.

| Season | Modeled Future from Operations gpd | Modeled Future Water Truck Loads per Day ¹ | Modeled Average from Operations gpm for 8 hr day ² | Approximate Construction Peak Loads per Day ^{1,5} | Construction Project Add gpm for 8 hr Weekday (peak) ^{2,5} | Combined Demand, gpm for 8 hr Day ² |
|----------------------|--|--|--|---|---|---|
| Spring (March-May) | 12,100 | 3 | 25 | $0.2^3 (8^4)$ | $1.4^2 (57^3)$ | 82 |
| Summer (June-August) | 28,300 | 8 | 59 | 8 | 57 | 116 |
| Fall (September - | | | | | | |
| November) | 12,100 | 3 | 25 | 2 | 12 | 37 |
| Winter (December - | | | | | | |
| February) | 4,000 | 1 | 8 | 0 | 0 | 8 |

Notes:

- 1: Based on 3,600 gal/load.
- 2: If sufficient storage is provided, the required flow would be 1/3 of the flow shown.
- 3: Typically prior to April 15.
- 4: Typically after April 15.
- 5: Average is less. See Table 5 in Attachment A.

Should a well be provided for operational water use, an average flow of 59 gpm would be required for operations during the summer assuming use during an 8-hour day. During construction, an average additional 57 gpm would be required during an 8-hour day. ²⁵ At other times during an average year, the required flow would be less than 59 gpm for operations and 57 gpm for construction. The required flow for operations would range from approximately 20% less than the average of 59 gpm during initial landfill expansion (47 gpm) when roads are shorter and approximately 10% more than 59 gpm during later portions of the landfill expansion when the roads are longer (65 gpm). ²⁶

²⁵ Some contractors elect to work 5, 10-hour days, and the average would be less when divided over 10 hours.

²⁶ Based on footnotes 10 and 11 on Table 4 in Attachment A.

It is understood that because wells installed within the property would not produce sufficient water, it is the intent of the operator to store stormwater runoff and use the water for operational uses and construction projects. The flows described above are intended to be for specifying needs for short term water supply should there be insufficient stored water.

Water usage could be reduced by the use of dust palliatives; however, an assessment of dust palliatives is not included in this analysis.

As described above, operation water average 5.3 million gallons per year (16.14 acre-feet or 7,029 HCF per year). Construction projects would be expected to add an additional 2.2 million gallons (6.64 acre-feet or 2,891 HCF per construction event) per year, although these projections are anticipated to be conservatively high.

L&A understands that once lined ponds are installed early in the expansion of the Landfill, much of the water would be obtained from the ponds and the above totals do not represent water demand from a water utility, except potentially the first project when the ponds would be installed.

Limitations

Water use, primarily for dust control was estimated for the purposes of identifying the water storage needs for the project. Because the projected water use is based on modeling using reasonable assumptions and annual averages, and because weather and climate conditions vary, the day-to-day and seasonal needs will be more or less than described in this memo. This analysis includes only water usage to operate and construct a landfill and does not include water for items outside of this scope (e.g., composting).

Attachments

Attachment A. Tables.

Attachment B. Figures from Air Quality DEIR Appendix B.²⁷

Attachment C. Excerpts from Attachment O to Air Quality DEIR Appendix B.²⁸

²⁸ *Ibid*.

²⁷ Lawrence & Associates. December 2022, Appendix B, Calculations for Air Quality and Greenhous Gas Climate Change, Proposed Landfill Expansion, John Smith Road Landfill, San Benito County, California.

Attachment A

Table 1

John Smith Road Landfill Historical Water Usage

Assume gallons/load =

3600

Note: Leachate and Condensate were not used for dust control

| MONTH | | YE | AR | | | YEA | AR | | | YE | AR | | | YEA | R | | | YE | AR | |
|--|-------|-------------|-------|----------|-------|-------------|-------|----------|-------|-----------|---------|-----------|-------|--------------|-----------|----------|-------|---------|----------|----------|
| | | 20 | 18 | | | 201 | 19 | | | | 020 | | | 202 | 1 | | | | 022 | |
| | USAGE | | | AVG | USAGE | | | AVG | USAGE | USAGE | | AVG | USAGE | USAGE | | AVG | USAGE | USAGE | | AVG |
| | (HCF) | USAGE (GAL) | LOADS | LOAD/DAY | (HCF) | USAGE (GAL) | LOADS | LOAD/DAY | (HCF) | (GAL) | LOADS | LOAD/DAY | (HCF) | (GAL) | LOADS | LOAD/DAY | (HCF) | (GAL) | LOADS | LOAD/DAY |
| SUNNYSLOPE | | | | | | | | | | | | | | | | | | | | |
| JANUARY | | - | - | - | 37 | 27,678 | 8 | 0.2 | 25 | 18,701 | 5 | 0.2 | 103 | 77,049 | 21 | 0.7 | 53 | 39,647 | 11 | |
| FEBRUARY | | - | - | - | 37 | 27,678 | 8 | 0.3 | 90 | 67,325 | 19 | 0.7 | 102 | 76,301 | 21 | 0.8 | 101 | 75,553 | 21 | 0.7 |
| MARCH | | - | - | - | 16 | 11,969 | 3 | 0.1 | 140 | 104,727 | 29 | 0.9 | 202 | 151,107 | 42 | 1.4 | 141 | 105,475 | 29 | |
| APRIL | | - | - | - | 117 | 87,522 | 24 | 0.8 | 36 | 26,930 | 7 | 0.2 | 231 | 172,800 | 48 | 1.6 | 179 | 133,901 | 37 | |
| MAY | | - | - | - | 247 | 184,769 | 51 | 1.7 | 149 | 111,460 | 31 | 1.0 | 298 | 222,919 | 62 | 2.0 | 110 | 82,286 | 23 | 0.7 |
| JUNE | 326 | | 68 | 2.3 | 230 | 172,052 | 48 | 1.6 | 171 | 127,917 | 36 | 1.2 | 412 | 308,197 | 86 | 2.9 | | - | | - |
| JULY | 640 | 478,753 | 133 | 4.3 | 402 | 300,717 | 84 | 2.7 | 224 | 167,564 | 47 | 1.5 | 457 | 341,860 | 95 | 3.1 | | - | - | |
| AUGUST | 706 | | 147 | 4.7 | 349 | 261,070 | 73 | 2.3 | 280 | 209,455 | 58 | 1.9 | 464 | 347,096 | 96 | 3.1 | | - | | - |
| SEPTEMBER | 556 | | 116 | 3.9 | 372 | 278,275 | 77 | 2.6 | 346 | 258,826 | 72 | 2.4 | 425 | 317,922 | 88 | 2.9 | | - | - | |
| OCTOBER | 369 | -, | 77 | 2.5 | 373 | 279,023 | 78 | 2.5 | 301 | 225,164 | 63 | 2.0 | 312 | 233,392 | 65 | 2.1 | | - | - | |
| NOVEMBER | 421 | 314,930 | 87 | 2.9 | 302 | 225,912 | 63 | 2.1 | 387 | 289,496 | 80 | 2.7 | 168 | 125,673 | 35 | 1.2 | | - | - | |
| DECEMBER | 81 | , | 17 | 0.5 | 80 | 59,844 | 17 | 0.5 | 136 | 101,735 | 28 | 0.9 | 94 | 70,317 | 20 | 0.6 | | - | - | |
| OPERATIONS TOTAL | 3,099 | 2,318,213 | | | 2,562 | 1,916,509 | | | 2,285 | 1,709,299 | | | 3,268 | 2,444,634 | | | 584 | 436,862 | | |
| Module | | 7/8A | | | | 7/8B | | | | 7/8C | | | | | | | | | i | |
| Lined Area, Acres | | 6.24 | | | | 2.77 | | | | 4.78 | | | | | | | | | i | |
| Bulk Excavation, CY | | 323,500 | | | | 172,000 | | | | 300,405 | | | | | | | | | l | |
| Bulk Embankment, CY | | 11,000 | | | | 19,600 | | | | | | | | | | | | | l | |
| CONTRACTOR WATER | 2,546 | | | | 3,520 | , , - | | | 3,134 | 2,344,395 | | | | - | | | | - | — | |
| WITH CONSTRUCTION | 5,645 | 4,222,754 | | | 6,082 | 4,549,652 | | | 5,419 | 4,053,694 | | | | | | | | | Щ | |
| Analytics | | | | | | | | | | | | | | | | | | | | |
| Corrected Construction Water, gallons ¹ | | 1,904,540 | | | | 2,105,018 | | | | 1,609,060 | Average | 1,872,873 | | | | | | | | |
| Construction water, gallons per acre | | 305,215 | | | | 759,934 | | | | 336,623 | Average | 467,258 | | | | | | | | |
| Construction water, gallons per cubic yard | | 5.89 | | | | 12.24 | | | | 5.36 | Average | 7.83 | | Average with | hout Modu | le 7/8B | 5.62 | | | |

Notes

1. For 2019 and 2021, it appears that the contractor provided some of the operations water. Assuming 2021 (non-construction year) operational water reflects typical operational water use, the difference between the 2021 and 2020 and 2019 operations water was subtracted from the respective construction water total to generate approximate water related strictly to construction.

Attachment A

John Smith Road Landfill Water Usage

Average Water Usage Projection

Note that the water usage will be more or less during any given year.

Table 2 Summary Operations and Construction - Water Usage Summary For Short Term Well Sizing

| Tuble 2 Summary Operations and Construction Trates | 0 | | | | | | | | | | |
|---|----------------------------|------------------|---------------|----------------------------|----------------|--------------|-------------|-------------|---------------------------|-------------------------------|---------------|
| | | | | | | | | | | | Total gpm for |
| | | | | | | Modeled | Modeled | Modeled | Modeled | | Peak |
| | Historical | | | Modeled | Modeled | Current | Future | Future | Future | Construction | Construction |
| | Approximate | Historical | | Current | Current | Operations | Operations, | Operations, | Operations | Project Peak, Add | and Average |
| | Water Truck | Approximate | Seasonal % of | Operations, | Operations, | Average, gpm | gpd | Loads per | Average, gpm | gpm for 8 hr | Operations 8 |
| Season | Loads per Day ¹ | gpd ² | Average | gpd (rounded) ³ | Loads per Day⁴ | for 8 hr day | (rounded)⁵ | Day⁴ | for 8 hr day ⁶ | Weekday (peak) ^{6,7} | hr day (peak) |
| Spring (March-May) | 3 | 10,800 | 84% | 5,600 | 2 | 12 | 12,100 | 3 | 25 | 57 | 82 |
| Summer (June-August | 7 | 25,200 | 196% | 13,100 | 4 | 27 | 28,300 | 8 | 59 | 57 | 116 |
| Fall (September -November) | 3 | 10,800 | 84% | 5,600 | 2 | 12 | 12,100 | 3 | 25 | 12 | 37 |
| Winter (December - February) | 1 | 3,600 | 28% | 1,900 | 1 | 4 | 4,000 | 1 | 8 | 0 | 8 |
| Average Based on 365 days per year | 4 | 10,959 | | 6,550 | 2 | 14 | 14,125 | 4 | 29 | NA | |
| Average Used for Calculation of Seasonal Proportion | | 12,850 | | | | Change | 116% | | 10 | | |

Notes:

- 1: Typical condition during dry day irrespective of annual average. Used solely to model seasonal ratio of trips.
- 2: Trips x 3,600 gallons, used solely to model seasonal ratio of trips. 365 day average is based on 2,444,000 gallons per year as described in Table 1 for 2020.
- 3: Assumes averages over 365-day period, difference between current and model is the result of rounding errors.
- 4: Modeled gpd / 3,600 gal.
- 5: The difference in average between the average and Table 3 is the result of rounding and variations in days per year that water is used. Assumes 7 days/week 365 days per year. Day-to-Day will vary.
- 6: This is based on an average 8 hours per day. With sufficient storage, a water source with 1/3 the described flow rate pumping over a 24-hour period could be used.
- 7: Does not happen every year.

Table 3 - Water Usage from Current Operation

| | | | | Application | | Water Truck | | | Gal/Day | |
|--|-----------------|--------------|----------------------------|-------------------|-----------|-------------|-------------------------|-----------|---------|-----------------------|
| | Existing | Assumed | | Rate gpsf per | Water per | Passes Per | Water Truck | Watering | Annual | |
| Location | Scenario, Miles | Efficiency % | Road Area. sf ² | Pass ⁶ | Day, gal | Day | Loads /Day ⁸ | Days/year | Average | Gal/Year ⁹ |
| Track-on paved road vacuum sweeping/washing ¹ | 0.038 | 50 | 4,800 | 0.053 | 1,024 | 4 | 0.28 | 90 | 252 | 92,160 |
| Paved road watering (dry periods) ³ | 0.190 | 25 | 24,077 | 0.023 | 549 | 1 | 0.15 | 271 | 408 | 148,762 |
| Truck wash ⁴ | NA | NA | NA | NA | 1,000 | NA | 0.28 | 90 | 247 | 90,000 |
| Gravel road | 0.77 | 73 | 97,574 | 0.032 | 6,180 | 2 | 1.72 | 271 | 4,588 | 1,674,656 |
| Cover Soil Haul Route Unpaved Road | 0.55 | 73 | 69,696 | 0.015 | 1,070 | 1 | 0.30 | 271 | 794 | 289,984 |
| Tipping Pad | 0.5 | 54 | 21,780 | 0.009 | 202 | 1 | 0.06 | 271 | 150 | 54,852 |
| Domestic water usage ⁵ | NA | NA | NA | NA | 250 | NA | 0.07 | 361 | 247 | 90,250 |
| Totals (Average for Year) | | | | | 10,275 | | 2.85 | | 6,687 | 2,440,663 |

Average GPM 5 for 24 hours
Acre-feet per year 7.49

Notes:

- 1. Assumes 100 feet of road 24-feet wide is flushed and vacuum swept after each storm with greater than 0.1 inches of rainfall (0.062 gpd/sf) in 24 hours and then for two days thereafter. To prevent tracking onto remaining pavement. Wheel wash installed in 2021.
- 2. Assume two 12-foot wide lanes per Note 7 below.
- 3. Assumes bi-weekly vacuum sweeping obtains 40 to 70% control efficiency. Assume daily pavement watering, when needed for dusty conditions, to obtain a total of 90% control efficiency when needed
- 4. The truck wash is used after rainy periods to prevent tracking of mud onto paved areas assuming 30 rainy days (exceeding 0.1" in 24 hours) per year plus two days after each rainy day = 90 days per year x 1,000 gpd (for future, assume truck wash 2.3 times the size of the current one).
- 5. From Design Basis Report, Table 14.
- 6. See equations below.
- 7. Assume each Lane is

12 ft x 2 lanes =

24 feet (two way traffic)

8. Assuming 3,600 gallon loads.

9. In 2020, the Landfill used a combination of 1,690,500 gallons of water purchased by the operator and approximately 2,319,000 gallons purchased by the contractor, much of the use overlapped for a total of 4,009,280 gallons. In 2021, a total of 2,444,500 gallons were used without a construction project. It is assumed that negligible water was obtained from the ponds.

Page 1 of 4 Lawrence & Associates

Table 4 - Future Operation

| | | | | | | | | | Application | | Water Truck | | | | |
|--|--------------------------|------------|------------|------------|--------------------------|-----------------------|------------|------------------------|-------------------|--------------------|-------------|------------------------|--------------------------|----------------|------------|
| | | | | | | | Required | | rate gpsf per | • | Passes Per | Water Truck | | Gal/Day Annual | |
| Location | Scenario 1 ¹⁰ | Scenario 2 | Scenario 3 | Scenario 4 | Scenario 5 ¹¹ | Average ¹² | Efficiency | Road Area ² | pass ⁶ | Water per day, gal | Day | Loads/Day ⁸ | Days/year | Average | Gal/Year |
| Track-on paved road vacuum sweeping/washing ¹ | | | | | | 0.038 | 90 | 4,800 | 0.053 | 2,048 | 8 | 0.57 | 90 | 505 | 184,320 |
| Paved road wetting (dry periods) ³ | 0.57 | 0.77 | 1.45 | 0.77 | 1.42 | 1.00 | 50 | 126,213 | 0.03 | 4,251 | 1 | 1.18 | 271 | 3,156 | 1,152,013 |
| Truck wash ⁴ | NA | NA | NA | NA | NA | NA | NA | NA | NA | 2,000 | NA | 0.56 | 90 | 493 | 180,000 |
| Gravel Road, miles ¹² | 0.09 | 0.14 | 0.10 | 0.14 | 0.26 | 0.29 | 90 | 37,002 | 0.084 | 6,231 | 2 | 1.73 | 271 | 4,627 | 1,688,693 |
| Cover Soil Haul Route Unpaved Road, miles ¹³ | 0.55 | 0.17 | 0.36 | 0.17 | 0.42 | 0.33 | 90 | 42,324 | 0.083 | 3,509 | 1 | 0.97 | 271 | 2,605 | 950,935 |
| Tipping Pad, Acres | 1 | 1 | 1 | 1 | 1 | 1 | 90 | 43,560 | 0.042 | 3,668 | 2 | 1.02 | 271 | 2,723 | 993,987 |
| Domestic water usage ⁵ | NA | NA | NA | NA | NA | NA | NA | NA | NA | 300 | NA | 0.08 | 361 | 297 | 108,300 |
| Totals (Average for Year) | | | | | | | | | | 22,007 | | 5.54 | | 14,406 | 5,258,000 |
| Gravel Road Multiplier: | 2 | | | | | | | | | | | | Average GPM ⁹ | 10 fo | r 24 hours |

Unpaved Road Multiplier:

Notes:

- 1. Assumes 100 feet of road 24-feet wide is flushed and vacuum swept after each storm with greater that 0.1 inches of rainfall (0.062 gpd/sf) in 24 hours and then for two days thereafter. To prevent tracking onto remaining pavement.
- 2. Assume two 12-foot wide lanes, per Note 7 below.
- 3. Assumes bi-weekly vacuum sweeping obtains 40 to 70% control efficiency. Assume daily pavement watering, or less when needed for dusty conditions. Assuming the combination provides roughly 90% collection efficiency.
- 4. The truck wash is used after rainy periods to prevent tracking of mud onto paved areas 30 rainy days (exceeding 0.1" in 24 hours) per year plus two days after each rainy day = 90 days per year x 2,000 gpd (2 times the size of the current one).
- 5. From Design Basis Report, Table 14.
- 6. See equations below.

7. Assume each Lane is

12 ft x 2 lanes =

24 feet (two way traffic)

- 8. Assuming 3,600 gallon loads.
- 9. Average is 1.73 times the 2020 current usage.
- 10. When analyzed only for Scenario 1, the water usage would be 12.93 acre-feet (5,631 HCF; 80% of the stated average).
- 11. When analyzed only for Scenario 5, the water usage would be 17.83 acre-feet (7,765; 110% of the stated average).
- 12. Assumes double the length of gravel roads to account variance.
- 13. Soil comes from area adjacent to active cell.

Table F Typical Construction Project

| | | | | | | | | | | | | Peak | | | | | Average |
|--|-------------------------|-------------------------|------------|-------------------------|-------------------------|---------|------------|------------------------|---------------|-------------------|-------------|-----------|-------------|------------|----------------|--------------|--------------|
| | | | | | | | | | Application | | Water Truck | Loads/Day | | | Peak Gallons | | Gallons per |
| | | | | | | | Required | Average | rate gpsf per | Average Water per | Passes Per | @3,600 | Work | | Per minute for | Peak Gallons | Calendar Day |
| Location | Scenario 1 ² | Scenario 2 ⁴ | Scenario 3 | Scenario 4 ⁴ | Scenario 5 ³ | Average | Efficiency | Road Area ¹ | pass, gpsf | day, gal | Day | gal/load | Days/Period | Gal/Period | 8-Hour Day | per Day | for Period |
| Mobilization (Typically April 1 - April 15) | | | | | | | | | | | | | | | | | 1 |
| Construction Access Unpaved, miles | 0.00 | 0.22 | 0.10 | 0.22 | 0.15 | 0.14 | 90 | 17,487 | 0.02 | 692 | 2.00 | 0.19 | 11.00 | 7,612 | | | 1 |
| Subtotal | | | | | | | | | | 692 | | 0.19 | | 7,612 | 1.4 | 692 | 507 |
| Bulk Excavation Screening & Clay April 16 - Jul 15 | | | | | | | | | | | | | | | | | 1 |
| Construction Access Unpaved, miles | 0.00 | 0.22 | 0.10 | 0.22 | 0.15 | 0.14 | 90 | 17,487 | 0.11 | 3,938 | 2.00 | 1.09 | 65.00 | 255,943 | | | 1 |
| Unpaved Soil Haul Road, miles ⁵ | 0.28 | 0.27 | 0.36 | 0.27 | 0.42 | 0.32 | 95 | 40,550 | 0.11 | 18,261 | 4.00 | 5.07 | 56.00 | 1,022,630 | | | |
| Excavation Area, acres | 23.80 | 7.90 | 7.30 | 7.90 | 9.00 | 11.18 | 90 | 16,749 | 0.06 | 1,886 | 2.00 | 0.52 | 56.00 | 105,594 | | | Ī |
| Stockpile Area, acres | 6.00 | 8.70 | 7.20 | 8.70 | 5.70 | 7.26 | 75 | 13,497 | 0.05 | 1,216 | 2.00 | 0.34 | 56.00 | 68,073 | | | Ī |
| Screening Plant (assume mister @3gpm) | NA | NA | NA | NA | NA | NA | 75 | NA | | 1,440 | | 0.40 | 56.00 | 80,640 | | | 1 |
| Subtotal | | | | | | | | | | 26,740 | | 7.43 | | 1,532,880 | 57.0 | 27,373 | 16,797 |
| Liner, Gravel Installation, Ops Jul 15 -Sep 15 | | | | | | | | | | | | | | | | | Ī |
| Unpaved Road, miles | 0.22 | 0.22 | 0.10 | 0.22 | 0.15 | 0.18 | 90 | 23,063 | 0.06 | 2,597 | 2.00 | 0.72 | 56.00 | 145,405 | | | Ī |
| Unpaved Soil Haul Road, miles | 0.17 | 0.17 | 0.36 | 0.17 | 0.42 | 0.26 | 95 | 32,694 | 0.11 | . 14,723 | 4.00 | 4.09 | 21.00 | 309,186 | | | 1 |
| Subtotal | | | | | | | | | | 17,320 | | 5 | | 454,591 | 45.1 | 21,647 | 7,332 |
| Erosion Control Cleanup Sep 16-Oct 15 | | | | | | | | | | | | | | | | | 1 |
| Unpaved Road, miles | 0.22 | 0.22 | 0.1 | 0.22 | 0.15 | 0.18 | 90 | 23,063 | 0.1 | 4,613 | 2.00 | 1.28 | 30 | 138,378 | | | 1 |
| Unpaved Soil Haul Road, miles | 0.17 | 0.17 | 0.36 | 0.16 | 0.42 | 0.26 | 95 | 32,440 | 0.11 | 14,609 | 4.00 | 4.06 | 2 | 29,218 | | | 1 |
| Subtotal | | | | | | | | | | 19,222 | | 5.34 | | 167,596 | 11.6 | 5,587 | 5,587 |

- 1. Assume two 12-foot wide lanes.
- 2. When analyzed for Scenario 1 only, the water usage would be 5.39 acre feet (2,350 HCF; 81% of the average Minimum Usage).
- 3. When analyzed for Scenario 5 only, the water usage would be 8.13 acre feet (3,542 HCF; 123% of the average Maximum Usage).
- 4. Assume a minimum of 0.27 acres (similar to Module 7/8C) or length shown, whichever is greater for unpaved soil haul road to be conservatively high for water-use purposes.
- 5. Assumes 225,000 CY and 6,000 CY/day = 37.5 x 1.25 for potential variance = 56 days

Total for Average Project 2,162,679 Acre-feet 6.64 2,891 HCF

Assumed Bulk Excavation, CY 281,250

Acre-feet per average year

16.14

gallons /CY

Page 2 of 4 Lawrence & Associates

TRAFFIC ASSUMPTIONS

| Current Operation Traffic Assumptions | |
|---|-----|
| 1. Assume average traffic per day | |
| 2. Assume all traffic travels to tipping face | |
| a. 188 In-County Self Haul x 1 = | 188 |
| b. In-County commercial = 31 | 31 |
| c. Out-of-County commercial = | 36 |
| d. Support vehicle trips = 8 trips per day (1/hr) | 8 |
| e. Total trips per day = | 263 |
| f. Trips per hour assuming 8 hours = | 33 |

Construction Traffic Trips per Day Trips per Hour Support Trips 42 239 Soil hauling trips

Future Operations Assumptions

1. Assume average traffic

2. Assume public tipping area is implemented and 50% of public traffic will not enter site

a. 232 In-County Self Haul x 0.5 = b. In-County commercial = 38 94 c. Out-of-County commercial = d. Support vehicle trips = 8 trips per day (1/hr) 8 e. Roll-Off Haul Loads f. Total trips per day = 260 g. Trips per hour assuming 8 hours = 33

5.25 Table 3.13 in Attachments O4, O5, O6, and O7 DEIR Appendix B

29.88 Loads in Attachments O4, O5, O6, and O7 DEIR Appendix B, Assuming 6,000 cy/day

Water Usage Equation for Unpaved Roads

From EPA 1988; equation 3-2,

C = 100 - ((0.8 p d t)/i), and

for a given control efficiency to obtain application rate:

i = -0.8 p d t / C-100

where:

C = average control efficiency, percent

p = average hourly daytime evaporation rate, mm/hr

d = average hourly daytime traffic rate, (trips per hour; h⁻¹)

i = water application intensity, L/m2 per application

t = time between applications, hr

Conversions

L/m2 to gal/yd2 0.22081

Table 6 - Operations Unit Water Usage

| | | | | | Future | | | | |
|---|----------------|-----------------------|-----------------------|-----------------------|------------|------------|------------|--------------------|--------------------|
| | | Current | Future | Current | Operations | | | | |
| | | Operations | Operations | Operations | Waste | Current | Future | Current | Future |
| | | Waste Delivery | Waste Delivery | Waste Delivery | Delivery | Operations | Operations | Operations | Operations |
| Variables | Units | Paved | Paved | Gravel | Gravel | Cover Soil | Cover Soil | Tipping Pad | Tipping Pad |
| i, per application = | L/m2 = | 0.93 | 1.37 | 1.29 | 3.43 | 0.63 | 3.38 | 0.38 | 1.72 |
| I, per application = | gal/sy = | 0.21 | 0.30 | 0.28 | 0.76 | 0.14 | 0.75 | 0.08 | 0.38 |
| I, per application = | gal/sf | 0.02 | 0.03 | 0.03 | 0.08 | 0.015 | 0.083 | 0.009 | 0.042 |
| C = | % | 25 | 50 | 73 | 90 | 73 | 90 | 54 | 90 |
| p = | mm/hr | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| d = | trips per hour | 33 | 33 | 33 | 33 | 8 | 16 | 17 | 16 |
| t = | hours | 8 | 8 | 4 | 4 | 8 | 8 | 4 | 4 |
| Hours per day | hours per day | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Applications per day | Each | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 |
| Daily Cover | CY/dy | | | | | 160 | 320 | | |
| Distance Travel on Tipping Pad (diagonal square) | Miles | | | | | | | 208.71 | 295.16 |
| Days with Rain greater than 0.1 inches (0.748 gpsf) | Days | | | | | | | | |

Page 3 of 4 Lawrence & Associates

Table 7 - Construction Unit Water Usage

| Variables | Units | Bulk Excavation | Bulk Excavation Bull | k Excavation | Support | Support |
|----------------------|----------------|------------------------|-----------------------------|--------------|---------|---------|
| i, per application = | L/m2 = | 4.59 | 2.29 | 1.84 | 0.81 | 0.81 |
| I, per application = | gal/sy = | 1.01 | 0.51 | 0.41 | 0.18 | 0.18 |
| I, per application = | gal/sf | 0.11 | 0.06 | 0.045 | 0.020 | 0.020 |
| C = | % | 95.00 | 90 | 75 | 90 | 90 |
| p = | mm/hr | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 |
| d = | trips per hour | 30 | 30 | 30 | 5 | 5 |
| t = | hours | 2 | 2 | 4 | 4 | 4 |
| Hours per day | hours per day | 8 | 8 | 8 | 8 | 8 |
| Applications per day | Each | 4.00 | 4 | 2 | 2 | 2 |
| Cubic Yards Per Day | CY/dy | 6,000 | | | | |
| Volume per load | CY/load | 25 | | | | |

Note:

Long-Term Average Mean annual evaporation at Hollister Costa Station is 1431 mm/yr = 0.16335 mm/hr x 2 assuming all evaporation occurs during the day = 0.33 mm/hr (0.16 in/dy) Short Term Construction May though September = 871 mm / 5 months = 0.23861 mm/hr x 2 assuming all evaporation occurs during day = 0.48 mm/hr (0.22 in/day)

Water Application Rates for Water Flushing on Paved Roads

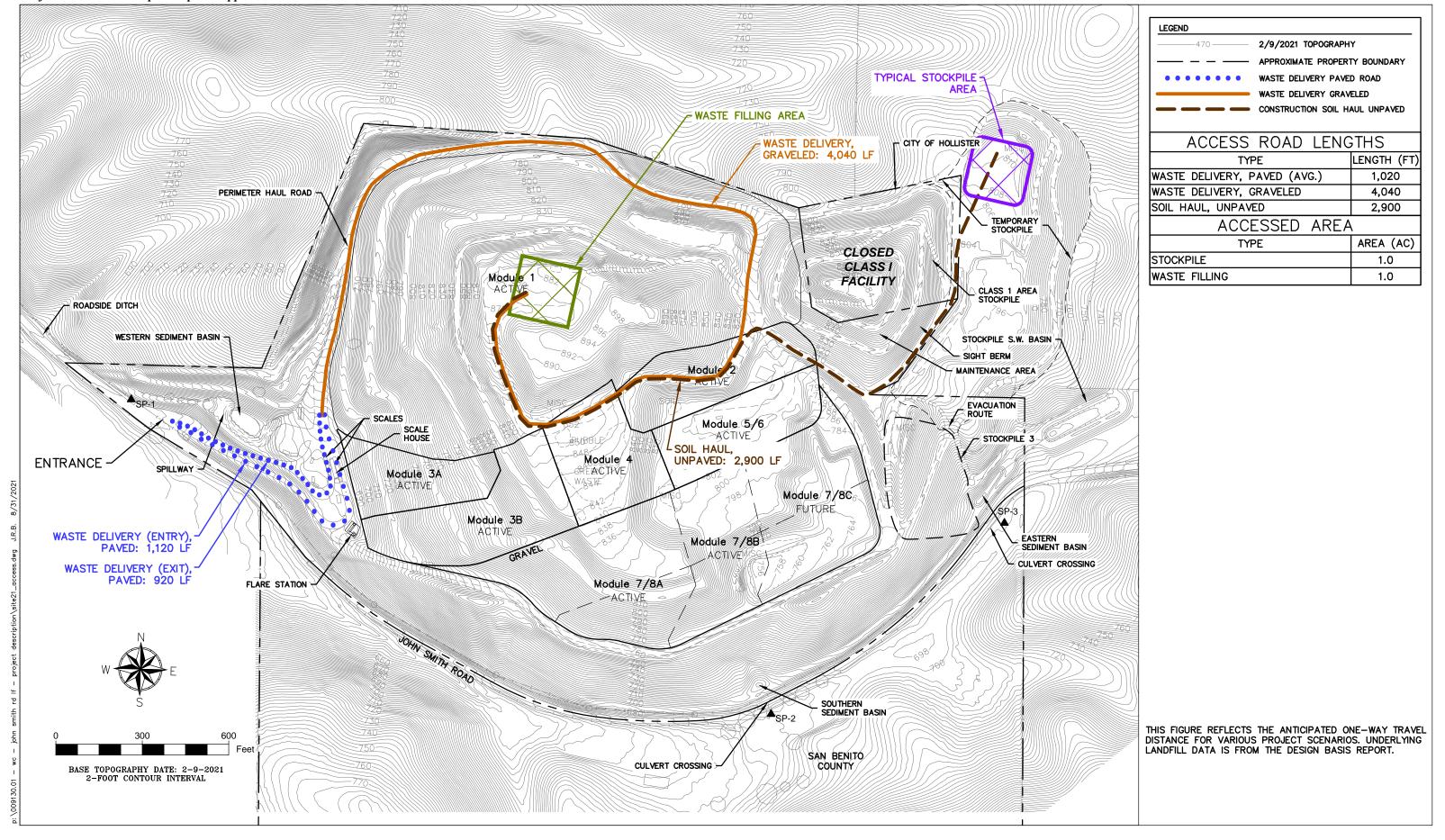
Water Flushing on Paved Roads 0.48 gal/yd2 Table 2-4 USEPA 1988

E = 96 - 0.263 V c,d

Where:

E = 90 % Dust control efficiency
96 = 96 % Dust control efficiency
V = 24 Vehicle passes since application
Traffic per Day 192 Assume traffic lower on rainy days

Page 4 of 4 Lawrence & Associates



BASE TOPOGRAPHY DATE: 2-9-2021 10-FOOT CONTOUR INTERVAL

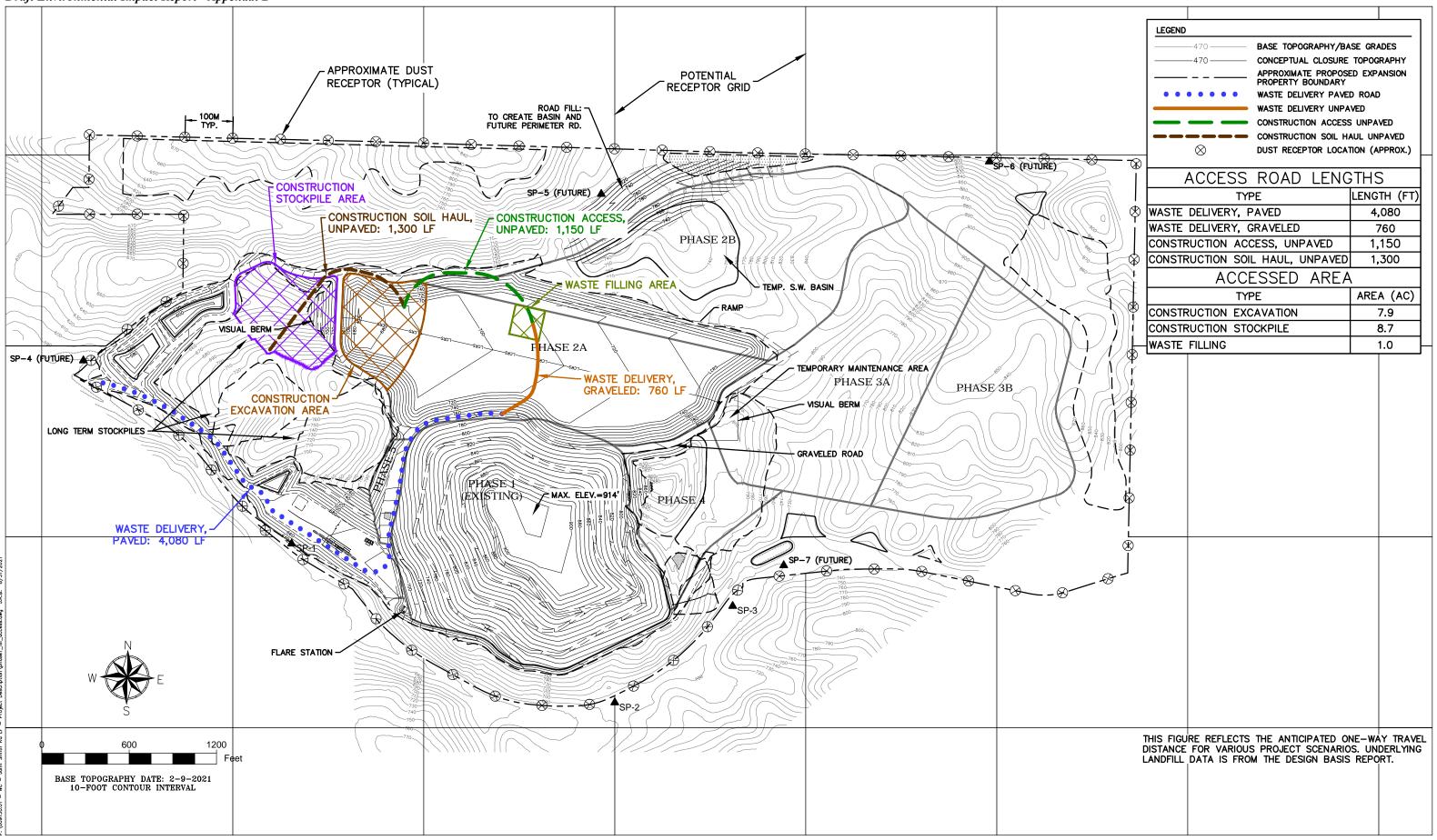
1200

THIS FIGURE REFLECTS THE ANTICIPATED ONE—WAY TRAVEL DISTANCE FOR VARIOUS PROJECT SCENARIOS. UNDERLYING

LANDFILL DATA IS FROM THE DESIGN BASIS REPORT.

THIS SCENARIO INCLUDES THE BASELINE (EXISTING) ENTRANCE AND WESTERLY STOCKPILE DEVELOPMENT. CONSTRUCTION SOIL HAUL PATH ANTICIPATE USING THE

CLOSEST AVAILABLE STOCKPILE.

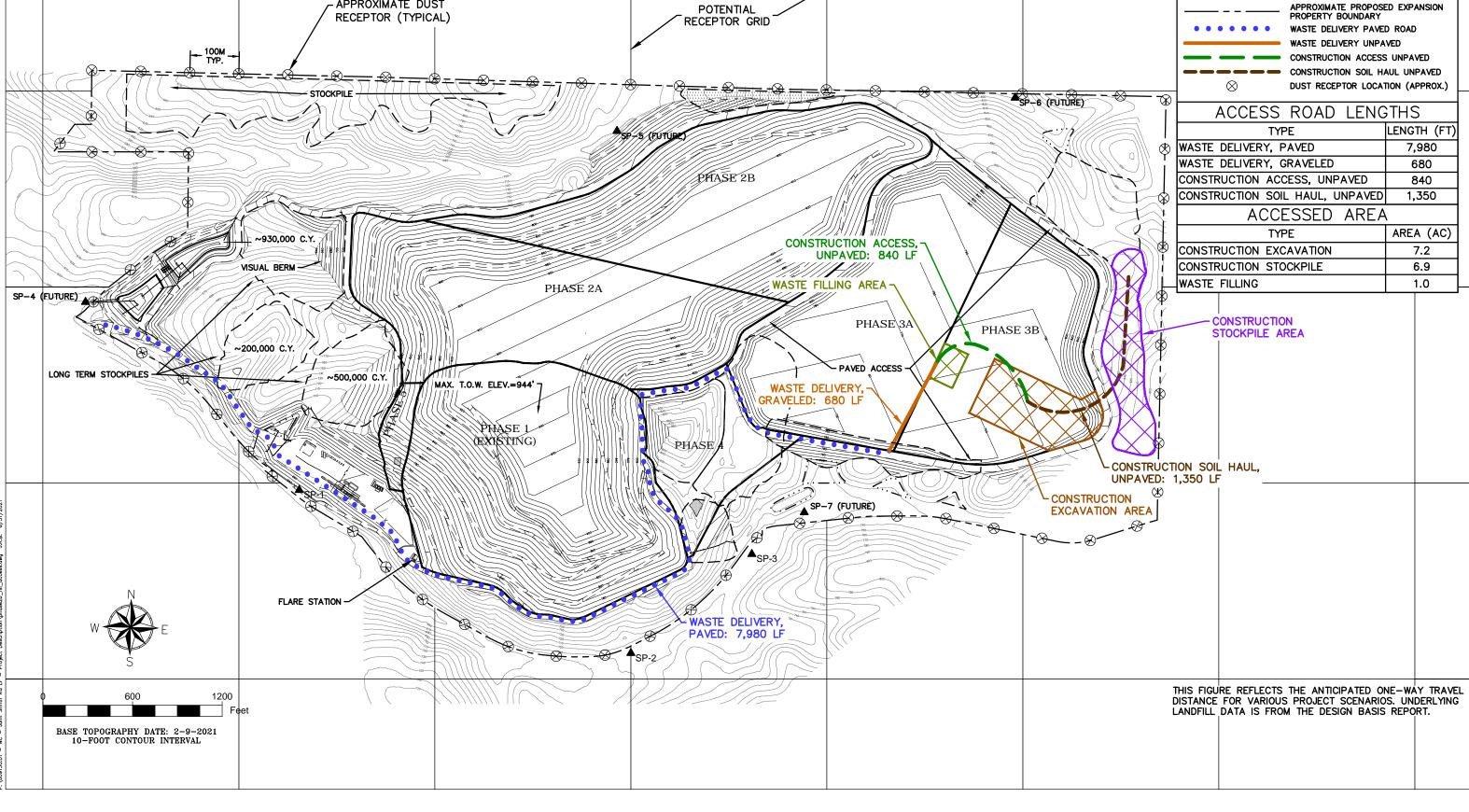


WASTE DELIVERY, PAVED: 8,900 LF

BASE TOPOGRAPHY DATE: 2-9-2021 10-FOOT CONTOUR INTERVAL FLARE STATION

1200

THIS FIGURE REFLECTS THE ANTICIPATED ONE—WAY TRAVEL DISTANCE FOR VARIOUS PROJECT SCENARIOS. UNDERLYING LANDFILL DATA IS FROM THE DESIGN BASIS REPORT.



John Smith Road Landfill

Attachment Q - Scenario 1: Entrance
Alternatives Assessment - Combination Construction & Operations

Table O3.1 - Summary Table - Scenario 1

| Location | PM ₁₀ , lb/day | PM _{2.5} , lb/day | ROG, lb/day | NOx, lb day | CO, lb day | SO2, lb/day |
|--|---------------------------|----------------------------|-------------|-------------|------------|-------------|
| Emissions from Paved Road | 6.61 | 1.06 | 0.20 | 0.96 | 1.57 | 0.02 |
| Emissions from Graveled Road | 9.61 | 1.11 | 0.03 | 0.15 | 0.25 | 0.00 |
| Emissions from Unpaved Road | 3.55 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| Emissions from Soil Haul Path | 28.45 | 2.84 | 0.70 | 3.66 | 28.65 | 0.02 |
| Emissions from Waste Disposal Area | 6.40 | 4.62 | 1.13 | 11.68 | 31.51 | 0.06 |
| Emissions from Construction Area | 4.70 | 3.37 | 0.63 | 5.62 | 26.64 | 0.06 |
| Emissions from Stockpile | 2.38 | 2.78 | 0.21 | 0.39 | 6.05 | 0.01 |
| Flare or IC (peak) ¹ | 0.44 | 0.45 | 4.22 | 49.89 | 2.27 | 214.91 |
| Peak LFG Fugitive Emissions | NA | NA | 10.81 | NA | NA | NA |
| Indirect (peak tonnage day, off site)App L | NA | NA | 0.29 | 22.57 | NA | NA |
| Entrance Queuing | 0.00 | 0.00 | 0.10 | 1.05 | 1.45 | 0.00 |
| Total | 62.14 | 16.59 | 18.33 | 95.97 | 98.39 | 215.07 |
| Baseline (2021) | 80.80 | 14.35 | 19.88 | 63.73 | 66.46 | 42.79 |
| Change from Baseline | -18.65 | 2.24 | -1.55 | 32.23 | 31.93 | 172.28 |
| MBARD Thresholds | 82 | 82 | 137 | 137 | 550 | 150 |

Variables

| Variables | | | | | | |
|----------------------------------|--------|----------------------------|-----------------------|---------------|----------------------|---------------------|
| Project Year | 2025 | | | | | |
| Waste Delivery Miles - Paved | 3,000 | 0.57 | Miles One Way | | | 3,480 |
| Waste Delivery Miles - Graveled | 480 | 0.09 | Miles One Way | | | |
| Construction Access - Unpaved | 0 | 0.00 | Miles One Way In | Addition to W | aste Delivery | |
| Construction Soil Haul - Unpaved | 1,480 | 0.28 | Miles One Way | | | |
| Construction Area | | 23.8 | Acres | | | |
| Stockpile Area | | 6 | Acres | | | |
| Waste Disposal Area | | 1 | Acres | Assume 200 | 0 x 200 working face | |
| Assumed Speeds | | | | | | |
| Compactor Speed | 3 | mph | | | | |
| Dozer Speed | 3 | mph | | | | |
| Loader Speed | 7.1 | mph, AP-42 Default | | | | |
| Grader Speed | 7.1 | mph, AP-42 Default | | | | |
| Off-Road Haul Truck Speed | 7.1 | mph, AP-42 Default | | | | |
| Excavator Speed | 0 | mph | mostly stationary | | | |
| Backhoe Speed | 0 | mph | mostly stationary | | | |
| Construction Excavation | 6,000 | cy | 1 | | | |
| Construction Excavation | 10,020 | tons @1.67 t/cy | 239 | Loads | 67.05 | Total Miles One way |
| Daily Cover Excavation | 320 | cy (2000 tpd waste /0.75 x | 0.12 cy soil/cy waste | | | |
| Daily Cover Excavation | 534 | tons @1.67 t/cy | 15 | Loads = | 4.18 | Total Miles One way |
| • | | | | | | |

Waste Delivery On-Site Emissions - Assuming

| | | Vehicle Pro | operties | | | | ı | | | 1 | ı | 1 | | 1 | | 1 | | 1 | | Emissio | n Factors an | d Calculation | s | 1 | 1 | | 1 | ı | ı | | | т — | |
|---|------------------|-------------|-----------------|-------------|-------------------|-----------------------------|----------------------|---------------------|---------------------------------|---------------------------|----------------------------------|---------------------------|----------------------------------|------------|----------------------------|---------------------------|------------------------|------------------|----------------|------------------------------|--------------|-------------------|----------------|-------------------|----------|-----------|-----------------|--------------------|------------------------------|-----------------------------|------------------------|----------|----------------------------|
| | | | | | | | | | | | | | | | STREX | | RUNLOSS | | Exhaust | | Tire Wea | | Brake Wea | | Exhaust | | Tire Wear | | Brake Wear | | | | |
| | | | Trip Dust (both | Total Miles | Paved Miles / Day | Graveled Miles/Day (both | Unpaved Miles/Day | Load | RUNEX Emissions Factor NO | RUNEX Emissions NOx | STREX Emissions Factor NOx | STREX Emissions NOx | RUNEX Emissions Factor ROG | Emissions | Emissions Factor ROG | STREX Emissions ROG | Factor ROG | Emissions ROG | Factor PM10 | Exhaust Emissions PM10 | | Emissions PM10 | Factor PM10 | Emissions PM10 | _ | | Factor PM2.5 | Emissions PM2.5 | Emissions Factor PM2.5 | Brake Emissions PM2.5 | Emissions Factor CO | | Emissions En |
| On-Road Vehicles | Vehicle Category | Trips/Day | ways) | / Day | (both ways) | ways) | (both ways) | Factor ⁵ | (g/mile)10 | (lbs/day)8 | (g/trip) | (lb/day) | (g/mile)10 | (lbs/day)8 | (g/trip)10 | (lbs/day)8 | (g/trip) ¹⁰ | (lbs/day)8 | (g/mile)10 | (lbs/day)8 | (g/mile)10 | (lbs/day)8 | | (lbs/day)8 | | (lbs/day) | | (lbs/day)8 | (g/mile)10 | (lbs/day)8 | (g/mile)10 | | (g/mile) ¹⁰ (ll |
| ord Mechanic Truck (DSL) | LHD1 | 2 | 2.6 | 2.6 | 2.3 | 0.4 | 0.0 | 1 | 2.74 | 0.0 | 0.00 | 0.000 | 1.93E-01 | 0.001 | 0.00 | 0.000 | 0.00 | 0.000 | 3.34E-02 | 0.000 | 1.20E-02 | 0.000 | 7.64E-02 | 0.000 | 3.19E-02 | 0.000 | 0.003 | 0.000 | 0.033 | 0.000 | 9.36E-01 | 0.005 | 5.30E-03 |
| ord F450 Flat Bed (DSL) | LHD2 | 1 | 1.3 | 1.3 | 1.1 | 0.2 | 0.0 | 1 | 1.89 | 0.0 | 0.00 | 0.000 | 1.69E-01 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 2.96E-02 | 0.000 | 1.20E-02 | 0.000 | 8.92E-02 | 0.000 | 2.84E-02 | 0.000 | 0.003 | 0.038 | 0.038 | 0.000 | 8.29E-01 | 0.002 | 5.91E-03 |
| ater Truck (DSL) ¹ | T6 CAIRP heavy | 32 | 42.2 | 42.2 | 36.4 | 5.8 | 0.0 | 1 | 1.36 | 0.1 | 1.36 | 0.096 | 4.93E-02 | 0.005 | 0.00 | 0.000 | 0.00 | 0.000 | 1.48E-02 | 0.001 | 1.20E-02 | 0.001 | 1.30E-01 | 0.012 | 1.42E-02 | 0.001 | 0.003 | 0.000 | 0.026 | 0.002 | 2.59E-01 | 0.024 | 9.33E-03 |
| apport Light Heavy Duty Trucks (2, DSL) | LHD1 | 4 | 5.3 | 5.3 | 4.5 | 0.7 | 0.0 | 1 | 2.74 | 0.0 | 0.00 | 0.000 | 1.93E-01 | 0.001 | 0.00 | 0.000 | 0.00 | 0.000 | 3.34E-02 | 0.000 | 1.20E-02 | 0.000 | 7.64E-02 | 0.001 | 3.19E-02 | 0.000 | 0.003 | 0.000 | 0.056 | 0.001 | 7.69E-02 | 0.001 | 8.98E-03 |
| ractor Trailer Delivery (DSL) | T7 CAIRP | 1 | 1.3 | 1.3 | 1.1 | 0.2 | 0.0 | 1 | 2.30 | 0.0 | 2.23 | 0.005 | 2.10E-02 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 3.09E-02 | 0.000 | 3.60E-02 | 0.000 | 6.17E-02 | 0.000 | 2.96E-02 | 0.000 | 0.009 | 0.000 | 0.026 | 0.000 | 1.95E-01 | 0.001 | 1.19E-02 |
| ractor Trailer RNG 4 trips/mo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| arpool Vehicles (2, Gas) | LDT1 | 2 | 2.6 | 2.6 | 2.3 | 0.4 | 0.0 | 1 | 0.05 | 0.0 | 0.23 | 0.001 | 1.13E-02 | 0.000 | 0.30 | 0.001 | 0.63 | 0.003 | 1.48E-03 | 0.000 | 8.00E-03 | 0.000 | 3.68E-02 | 0.000 | 1.36E-03 | 0.000 | 0.002 | 0.000 | 0.016 | 0.000 | 7.08E-01 | 0.004 | 2.81E-03 |
| otals | · | | | 55 | 47.7 | 8 | 0 | | | 0.187 | | 0.102 | | 0.007 | | 0.001 | | 0.003 | | 0.002 | | 0.002 | | 0.014 | | 0.002 | | 0.039 | | 0.004 | | 0.037 | |
| Prorated by Mile | | | | | | | | | | 3.38E-03 | | 1.84E-03 | | 1.35E-04 | | 2.40E-05 | | 5.01E-05 | | 3.87E-05 | | 2.73E-05 | | 2.55E-04 | | 3.70E-05 | ; | 6.97E-04 | | 6.47E-05 | | 6.77E-04 | 1. |

JSRL DEIR Appendix B Attachment O2

Lawrence & Associates Page 1 of 6

Notes:

1: The values for ROG and CO from the flare represent the detection limit. The actual value will be lower.

2: Described as VOC in CEQA Guidelines (Assume ROG is synonymous)

3: Described as NO_X as NO₂ in CEQA Guidelines. Assume all NO_X is NO₂ for this analysis.

4: Describes as SO_X as SO₂ in CEQA Guidelines. Assume all SO_X is SO₂ for this analysis.

| T-LL- 02 12 V-L:-L- | W-1-14 4 | (| |
|---------------------|-------------------|------------------------|-------------------|
| Table O3.13 Vehicle | weight Assumption | ins (assumes full load | in and empty out) |

| Category | Type | Percent | GVW, lb | NVW, lb | Average, lb | Av Tons |
|--|------------------------|---------|---------|---------|------------------|---------|
| Small Vehicle (Public /Self Haul) | Ford F250 Gross Weight | NA | 9,900 | 7,700 | 8,800 | 4.4 |
| In County Commercial | Garbage Truck | NA | 51,000 | 31,000 | 41,000 | 20.5 |
| Out of County Commercial | Waste Transfer Truck | NA | 75,000 | 33,000 | 54,000 | 27.0 |
| Support Vehicles For Construction | | | | | | |
| Average of: | Miles | | | | | |
| Ford Mechanic Truck (DSL) | 2 | 5% | 14,000 | 8,600 | 11,300 | 5.7 |
| Ford F450 Flat Bed (DSL) | 1 | 2% | 14,000 | 8,600 | 11,300 | 5.7 |
| Water Truck (DSL), 4,000 gal | 32 | 76% | 63,000 | 29500 | 46,250 | 23.1 |
| Support Light Heavy Duty Trucks (2, DSL) | 4 | 10% | 14,000 | 8,600 | 11,300 | 5.7 |
| Tractor Trailer Delivery (DSL) | 1 | 2% | 75,000 | 33,000 | 54,000 | 37.5 |
| Carpool Vehicles (2, Gas) | 2 | 5% | 51,000 | 31,000 | 41,000 | 25.5 |
| Total | 42 | | | | Weighted Average | 20.7 |
| Off Road Dump | CAT 740 | NA | 162,399 | 78,632 | 120,516 | 60.3 |

GVW: Gross vehicle weight including load
NVWL Net vehicle weight or:"curb weight" without load
Source:
US. EPA, Fifth Edition AP-42, Section 13.2.

Grading Equipment Passes Use for graders, loaders, rubber tired dozers, and scrapers to scrape or push soil

 $EF_{PM15} = 0.051 \text{ x (S)}^{2.0}$, and $EF_{PM10} = EF_{PM15} \text{ x } F_{PM10}$. Used for PM_{10}

EF_{TSP} - 0.4 x (S) $^{2.5}$, and EF $_{PM2.5}$ = EF_{TSP} x F_{PM2.5}, Used for PM_{2.5}

Source: CalEEMod 2020.4.0, Appendix A Page 8

Where:

| EF = emissions factor (lb/VMT) | | | Typical grading areas | Acres per day |
|--|-----------------|------|--------------------------|---------------|
| S = mean vehicle speed (mph) | AP-42 Default = | 7.1 | Crawler Tractors (Dozer) | 0.5 |
| $F_{PM2.5} = PM_{2.5}$ scaling factor. | AP-42 Default = | 0.03 | Graders | 0.5 |
| $F_{PM10} = PM_{10}$ scaling factor. | AP-42 Default = | 0.6 | Rubber -Tired Dozers | 0.5 |
| | | | C | |

1.543 lb/VMT 0.227 lb/VMT

JSRL DEIR Appendix B

Attachment O2

Lawrence & Associates Page 5 of 6

APPENDIX D

WATER SUPPLY TECHNICAL MEMORANDUMS



Technical Memo John Smith Road Landfill Long-Term Water Use

July 8, 2022

Introduction

John Smith Road Landfill (JSRL or Landfill) retained Lawrence & Associates (L&A) to estimate the projected water usage for the proposed Landfill expansion project for the purposes of evaluating potential water sources for the projects future demand. Current and projected water use for the project are generally described in the Design Basis Report for the project, however; this Technical Memo provides a more in-depth effort to evaluate current water use, model future water use, and provide projected seasonal water-use needs.¹

JSRL, similar to other landfills, consumes a significant quantity of water for dust control. Other water uses, such as domestic uses (toilets flushing and sinks) are negligible by comparison. Dust control falls into two categories (1) regular landfill operations and (2) construction. Operations occur seven days per week with most public traffic on the weekends and most commercial traffic on weekdays. Module (liner) construction projects are anticipated to occur every two years. Partial-final closure cap construction projects will occur less frequently based on when the landfill surface grade ceases settling and when needed to optimize landfill gas collection (LFG) efficiency. It is assumed that partial final closure projects would not typically be performed during the same construction year as a module construction project, unless soil is hauled from a module construction to a closure area (in lieu of a stockpile) to reduce soil handling.

Historical Water Usage

Historically, most water for JSRL has been obtained from the Sunnyslope Water District via a fire hydrant approximately 3 miles from the Landfill and transported to the Landfill via a water truck. The Landfill has several unlined stormwater basins from which a small amount of the landfill's water has been obtained. Use of stormwater has not historically been recorded and is

3590 Iron Court • Shasta Lake, California 96019 • (530) 275-4800 • fax (530) 275-7970 • <u>www.lwrnc.com</u>

¹ Lawrence & Associates, November 2021, Design Basis Report for the John Smith Road Landfill Expansion, San Benito County, California.

assumed to be negligible in comparison to imported water. Because the basins are unlined, water infiltrates gradually and stormwater is typically only available for a short time (days to weeks) after storm events. The ponds are dry during the summer when water needs for dust control are highest. Leachate from the landfill's leachate collection and recovery system (LCRS) and condensate from the landfill's LFG-collection system are disposed to the sewer and are not currently used for dust control.

Table 1 (Attachment A) presents the available data from the Sunnyslope Water District and contractor invoices for 2018 through 2021. Typically the Landfill pays for site-operation water and the construction water is paid for directly and invoiced by the construction contractor. The only full year without construction was 2021, when approximately 2.44 million gallons of water was used for site operations. During construction of Modules 7/8B and 7/8C in 2019 and 2020, respectively, the water use for site operations was significantly less than 2021 (22% and 31%) less, respectively) suggesting that a portion of the construction water offset operational uses and the water related strictly to construction was significantly less than reported by the contractor. Conversely, for the partial year if 2018, it appears that the construction water did not offset water for site operations. When subtracting water likely used for operation, construction water ranged from 1.6 to 2.1 million gallons (2,140 HCF to 2,807 HCF with an average of 2.47 HCF) per project.² Assuming water use is more likely proportional to bulk excavation volume, water usage ranged from 5.36 to 12.24 gallons per cubic yard of excavation with an average of 7.83 gallons per cubic yard. For some reason, the water use for the relatively small (2.77 acre) Module 7/8B was significantly higher than Modules 7/8A and 7/8C and may be an outlier. Without Module 7/B, the average would be 5.62 gallons per cubic yard.

Projected Water Usage

Potential generation of dust is proportional to travel distance and traffic rate for a given road surface type. Unpaved roads have the potential to generate the greatest amount of dust, graveled roads less so, and paved roads very much less so. Paving roads provides greater than 90% control efficiency (1-[dust generated after control measure is applied divided by dust generated before control measure]) when compared to unpaved roads (Countess, 2006).³ Application of water to prevent mobilization of dust is a common control measure for unpaved roads. Vacuum sweeping is commonly used to control dust on paved surfaces. In areas of mud or soil, track-on from unpaved to paved area (and subsequent dust) is commonly controlled by rumble plates, and water flushing followed by vacuum sweeping.

² 2021 operations water minus 2020, 2019, and 2018 annual operations water and then subtract the result for reported construction water. See "Corrected Construction Water" on Table 1 in Attachment A.

³ Countess Environmental, September 7, 2006, WRAP [Western Regional Air Partnership] Fugitive Dust Handbook. Prepared for Western Governors' Association, Denver Colorado.

A purpose of this memo is to provide an estimate of the water usage for the proposed landfill operation and for each construction project, of which most will be used for dust control. As described below, water usage is based on average traffic and road lengths as obtained from the baseline condition and the scenarios in Figures B7 through B12 in Appendix B to the Draft Environmental Impact Report (DEIR) dated November 2021 and Figures 38 through 41 in the Design Basis Report. ^{4,5} The scenarios were developed to focus on emissions closest to the property line. For the purpose of water usage, however, the length of gravel roads for waste hauling have been doubled (in Table 4) to better represent the average length during operation of the Landfill. Copies of Figures B7 through B12 are included in Attachment B to this Memo.

For the purposes of estimating future water usage conservatively, this analysis does not assume that use of landfill leachate, condensate, or the use of dust palliatives would reduce water consumption, however, they may be used in the future and may reduce water usage.

Module construction is projected to occur on average every two years with peak construction trips and dust generated during the bulk excavation and clay-screening phase of construction when several heavy off-road trucks are hauling soil from the excavation area to the stockpile area and concurrently soil screening is occurring. As described in Section 5.5.5 of the Design Basis Report, the module project bulk soil excavation is anticipated to range from 113,000 to 221,000 cubic yards per project (as much soil as possible is excavated for daily and intermediate cover prior to project excavation) in five- to 10-acre lined area module construction projects. While the Module construction acreage is anticipated to be generally larger (average of 7.9 acres) than projects described in Table 1, the bulk excavation volume is expected to be generally lower.

Construction of portions of the final closure cap or "partial final closure" projects will be performed as portions of the Landfill reach their final elevations and have undergone sufficient settlement so that they have a relatively fixed geometry prior to cap placement. The frequency of partial final closure project cannot be predicted, but could occur every five to 10 years and cover 15 to 29 acres, respectively. Depending on the closure cap type (conventional; with 3.5 feet of soil and geomembrane or evapotranspirative; with 4 to 5 feet of soil added), the bulk excavation and soil placement could range from 85,000 cubic yards to 235,000 cubic yards. Soil would typically be obtained from the nearest future Module to minimize soil excavation for Module construction. Based on bulk excavation volume, it is anticipated that water needs for a Partial Final closure project would be less than or equal to a Module construction project.

⁴ Lawrence & Associates, 2021, *Appendix B, Air Quality Calculations for John Smith Road Landfill Expansion*, Scenarios 1 through 5 in Attachment O.

⁵ Lawrence & Associates, November 2021, *Design Basis Report for the John Smith Road Landfill Expansion, San Benito County, California.*

The most water intensive construction use typically occurs during the bulk excavation phase in two to three months during the late spring and early summer. Less intense water usage is required during other parts of the construction process, such as during clay liner and geosynthetic placement.⁶

Traffic

Operations Traffic

Potential dust generating activities during landfill operations include the following:

- Customer traffic on paved roads.
- Customer traffic on graveled roads.
- Customer traffic in the unloading area.
- Operator equipment to compact and bury the waste.
- Operator traffic to excavate, haul, and place daily soil cover.

Among currently implemented Best Management Practices (BMPs) are:

- Paved entrance area to eliminate soil exposure and provide a cleanable surface.
- Graveling roads to reduce soil exposure.
- Watering to reduce dust mobilization.
- Reducing watering when needed, to reduce the potential for mud tracking.
- Rumble plates at the transition between the graveled and paved road to prevent track-on.
- A wheel wash used during muddy (rainy) periods to reduce track-on.
- Vacuum sweeping to collect tracked dust from paved surfaces.
- Pavement washing followed by vacuum sweeping to remove adhered mud.

As the landfill expands, the length of both paved and graveled roads will increase, thereby increasing the potential for more water use.

As described in the Design Basis Report the current average (baseline) traffic is:⁷

• In-County Public Vehicles (mostly pickup truck and small trailers, including employees): 188 trips/day.⁸

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Most moisture conditioning of the clay occurs when it is screened and stacked so that it is delivered to the area of installation on the module floor at the desired moisture content. Water is used to maintain moisture at a less intense rate than during the bulk excavation and clay screening phase.

⁷ Lawrence & Associates, November 2021, Design Basis Report for John Smith Road Landfill Expansion. Attachment E.

A trip is both into the Landfill and then out of the Landfill. Trips both ways are accounted for by assuming two lanes for each trip; one in and one out.

- In-County Commercial Vehicles (garbage trucks, roll-off bin trucks, dump trucks): 31 trips/day.
- Out-of-County Commercial Vehicles (Semi trucks with transfer trailers): 36 trips/day.
- Operational support vehicles that travel to the working face: 8 trips/day.
- Total of 263 trips.

The totals vary with season and day of the week; however, these totals provide an average for water usage evaluation. Currently, all of the vehicles travel to the landfill working face to unload; the unloading area covers approximately a 200-foot-wide by 100-foot-long area (0.5 acres). Waste is currently spread and compacted using a dozer and trash compactor. Soil for daily cover is excavated from a stockpile east of the Landfill by an excavator and hauled by an off-road dump truck to the working face on unpaved and gravel roads. Tarps are used for daily cover to reduce soil usage; however, several 20 cubic yard loads of soil are needed each day to cover waste. Ancillary equipment includes fuel truck, mechanic truck, loader, backhoe, motor grader, and semi stationary truck tipper, which are used infrequently. A vacuum sweeper and water truck are used for dust control.

As described in the Design Basis Report, average traffic will gradually increase over a 15-year period as average daily tonnage increases from roughly 923 to 2,123 tons per day until it reaches the following average totals in 2036:

- In-County Public Vehicles (mostly pickup truck and small trailers): 208 trips/day.
- In-County Commercial Vehicles (garbage trucks, roll-off bin trucks, dump trucks): 34 trips/day.
- Out-of-County Commercial Vehicles (Semi trucks with transfer trailers): 95 trips/day.
- Operational support vehicles that travel to the working face: 8 trips/day.
- Total of 345 trips/day.

Subsequently, average public trips would gradually increase to 232 trips and in-County commercial would gradually increase to 38 trips per day by 2070, an increase of 24 public trips and four in-County commercial trips. Out-of-County truck trips would decrease by one to 94.9

The proposed project includes a public unloading area near the entrance at which in-County Public vehicles would unload and not travel to the landfill working face. The currently described configuration assumes four 30-cubic roll-off bins with room for up to 12 unloading spaces.

According to the Operator, approximately 50% of the public deliver waste in trailers, approximately 20% have tilt trailers that can unload automatically. At some landfills only tilt

⁹ Design Basis Report Attachment E change in truck trips between 2036 and 2070.

¹⁰ Pers Comm.: Roger Brown, April 18, 2022.

trailers are allowed to proceed to the working face. ¹¹ For the project, it is assumed that loads with trailers will proceed to the working face. Therefore, for the project, 50% of the public loads will not travel to the working face (116 trips as of 2070). ¹² Assuming an average of 440 pounds per load ¹³ and 435 lbs per cubic yard for loose waste ¹⁴ (1.01 cubic yards per load), a 30-cubic yard bin would hold waste from approximately 30 loads. An average of 116 loads would fill 3.9, 30-cubic yard roll off bins per day and 4 trips per day would be generated to unload the roll-off bins.

• Average total trips that continue to the working face (as of 2070): 260 trips. 15

For the proposed project, the average number of vehicles traveling to the working face would be slightly less than the baseline traffic. The trips on busy days would be higher and lower on slow days, however average trips is useful for estimating long-term water usage over the period of a year.

It is likely that a second bulldozer, trash compactor, and soil haul truck would be added to accommodate peak disposal rates for the proposed project (Design Basis Report, Table 27) and, as a result of the increased daily tonnage, the working face would double in size (from 0.5 to 1 acre). The ancillary equipment would remain similar but may see more frequent occasional use. The vacuum sweeper would likely be used more frequently with longer paved roads. For the proposed project, it is assumed that a larger one-acre unloading area at the working face will be used.

Construction Traffic

As described above, module construction would occur every two years and partial final closure every five to 10 years, with peak potential dust generating activity and water usage during the bulk excavation phase of construction, lasting from two to three months starting approximately April 15 and ending around July 15 of each construction year. The greatest potential for dust during this period is from excavation of soil, hauling on an unpaved road and deposition into a stockpile. Based on Attachment O to DEIR Appendix B (included in Attachment C to this memo), soil hauling trips would average 239 trips per day during this period, typically on

¹¹ Such as West Central Landfill in Shasta County, California.

The operator reports that from April 1, 2021, to March 31, 2022, 58.6% of the loads did not have trailers and 41.4% did have trailers. 50% is considered a conservatively high proportion travelling to the working face. Personal Comm Jamison Pfister, June 20, 2022.

¹³ Email from Jamison Pfister June 22, 2022, Average of 0.22 tons per public load without trailer.

¹⁴ CalRecycle FacIT.

From previous paragraphs: 116 public trips + 38 in County commercial trips + 94 truck trips + 8 staff + 4 roll-off bin trips.

weekdays. ¹⁶ Another 42 trips are assumed for support purposes. Two thirty nine off-road dump truck trips per day provides capacity to move approximately 6,000 cubic yards of soil per day from the excavation area to the stockpile area. Assuming the upper end of the projected soil excavation per project of 225,000 cubic yards, times a 1.25 multiplier for potential higher than average excavation, 281,250 cubic yards per project were projected for bulk excavation.

Road Lengths

Water usage depends on the road length for each type of road and area including the following:

- Unpaved Road
- Gravel Road
- Paved Road
- Paved Road / Gravel Road interface (track-on)
- Tipping Pad travel distance
- Construction excavation area
- Construction stockpile area

Tables 3 and 4 in Attachment A show the road lengths and area assumed for dust-control water estimation. The baseline road lengths from Attachment O of Appendix B of the DEIR were used to calibrate/verify the current water usage. The road lengths for the five scenarios in Attachment O were averaged to estimate the projected average dust-control water usage. Copies of the figures showing the scenarios are attached to this Memo in Attachment B. Scenario 1 is generally the closest to the landfill entrance and would have the shortest road lengths. Scenario 5 is the farthest from the entrance and will have the longest travel paths. Scenarios 2 through 4 have intermediate road lengths. Average module construction areas are assumed to be 11.19 acres; larger than the projected average of roughly 7.9 acre per module.

Water Consumption Calculation

Domestic Water Usage

The current and projected domestic water use described in Attachment A were obtained from the Design Basis Report.¹⁷

Lawrence & Associates. December 2022, Appendix B, Calculations for Air Quality and Greenhous Gas Climate Change, Proposed Landfill Expansion, John Smith Road Landfill, San Benito County, California. Attachments O3 through O7 (See example in Attachment C).

Lawrence & Associates, November 2021, Design Basis Report for the John Smith Road Landfill Expansion, San Benito County, California, November 2021, Table 14; current 250 gallons per day; Proposed 300 gallons per day.

Water Use for Dust Control

Unpaved and Gravel Roads

Water for dust control on unpaved roads has been described in AP-42, Section 13.2.2 and other references. Water for dust control is described in terms of application rate and frequency of application. After water is applied, it gradually evaporates from the soil surface and must be reapplied to maintain the desired control efficiency (Muleski & Cowherd, 2021). Water must be applied at a rate that will reduce mobilization of dust while not creating a saturated surface that will cause mud and promote tracking onto adjacent paved roads. The water application rate and frequency are proportional to the evaporation rate and the traffic that passes over the road.

Equation 3-2 from Cowherd (1988) was used to calculate water use in gallons per pass for dust control on unpaved and gravel roads for a given control efficiency and traffic.²⁰

C = 100 - ((0.8 p d t)/i), and

for a given control efficiency to obtain application rate:

i = -0.8 p d t / C-100

Where:

C = average control efficiency, percent

p = average hourly daytime evaporation rate, mm/hr

d = average hourly daytime traffic rate, (trips per hour; h-1)

i = water application intensity, L/m2 per application

t = time between applications, hr

The required control efficiency for each road type was obtained from the modeled control efficiency shown in Attachment O of Appendix B to the DEIR.

For operations, the average annual evaporation rate of 3.92 mm/day (1431 mm/yr) was used and assumes that all of the water evaporates during the 12 hours of daylight during the day (0.33 mm/hr). ²¹ Because construction occurs mostly during the summer, the average evaporation rate

¹⁸ USEPA, January 1995, *AP-42, Compilation of Air Emissions Factors*, Office of Air Quality Planning and Standards, Section 13.2.2 Unpaved Roads updated November 2006 and Section 13.2.1, Paved Roads Updated January 2011.

Muleski, Gregroy E., and Cowherd, Chatten, April 2001, Particulate Emissions from Controlled Construction Activities, EPA/600/R-01/031.

²⁰ Cowherd, C., et al., September 1988, Control of Open Fugitive Dust Sources, EPA-450/3-88-308.

²¹ DWR 1976, Evaporation from Water Bodies in California, Hollister Costa Station.

for May through September was used (871 mm / 5 months / 30.42 days per month divided by 12 hours -0.48 mm/hr).

Assuming the landfill is open for 8 hours, average daily traffic described above (260 trips for operational traffic or construction-specific trips per Table 4) was divided by 8 hours to obtain the hourly daytime traffic rate.

The time between applications was based on use. For publicly accessed roads, two applications per day were assumed. For unpaved construction haul roads where a high control efficiency was required, four passes per day were selected. For roads used infrequently, such as the haul path from the stockpile to the working face for daily cover, one pass was assumed. For a given control efficiency, as the number of passes increases, the application rate per pass decreases.

Tables 4 and 5 in Attachment A show the application rate calculations for the operations (waste delivery) and construction, respectively. The application rate and passes were multiplied by the road length times width (assume two lanes of 12 feet; 24-feet for two-way traffic), to obtain the average water usage for each road type. Both construction (soil excavation) and waste delivery traffic tend to follow paths across the tipping area, excavation area, or stockpile that change from day to day. For those areas, it was assumed that a travel path equaling the length of the pad times 24 feet wide. As described above, the length of the graveled waste haul paths for waste delivery were doubled to more conservatively model water needs for waste delivery.

Paved Roads

Paved roads provide dust control by preventing exposure of soil to traffic. For a landfill, the predominant cause of dust on paved roads is by track-out from vehicles leaving unpaved roads and to a lesser extent gravel roads onto paved roads. Track-out occurs on and following rainy days when the soil is wet enough to create mud that sticks to tires and is tracked onto paved areas and then released onto paved roads, where it can later dry and create dust. According to Countess 1988, minimizing track-out provides 40 to 80% control efficiency for paved roads and removing deposits on roads ASAP provides greater than 90% control efficiency.

The Landfill currently uses a combination of gravel tracking pads (46% control efficiency) and rumble pads (up to 80% control efficiency) to remove mud from tires, and operates a wheel wash to remove mud from tires during, and two days after, rainy periods. In addition, the paved roads are vacuum swept as needed to collect the remaining dust. When needed, the paved area subject to track-out is flushed with water followed by vacuum sweeping to remove adhered mud. It is anticipated that the same practices will continue during expansion, except that a larger wheel wash is incorporated.

For the purposes of water usage, it is assumed that the wheel wash will be used every day in which rainfall exceeds 0.1 inches (30 days) and two days thereafter (total of 90 days). The wheel wash recirculates water, however, according to the operator approximately 1,000 gallons per day is needed to replace water lost in the washing process. For the expanded landfill, it is anticipated that a large truck wash will be installed and will use double the water requirements of the current truck wash.

For track-out pavement cleaning Table 2-4 in Cowherd, 1988, using flushing followed by vacuum sweeping, recommends 0.48 gallons per square yard (gpsy) with the frequency of application dependent on the traffic rate:

 $E = 96 - 0.263 \text{ V}^{c,d}$

Where:

E = Dust control efficiency, percent

96 = Base dust control efficiency, percent

 $V^{c,d}$ = Vehicles passes since last application, assuming water applied at 0.48 gal/yd² (0.05 gal/sf).

In areas other than those receiving track-out, vacuum sweeping is performed to attain 46 to 75% percent control efficiency (depending on the reference, Cowherd, 1988, Table 2-4 and Ohio EPA 1988, pp. 2-14 on a bi-weekly schedule). According to Ohio EPA (1988), a weekly water flushing for an industrial site is anticipated to have an effective control efficiency of 80%. Because there is no established control efficiency equation for paved roads to establish water usage, on Attachment A water consumption was calculated similar to 90% control efficiency for an unpaved road assuming two passes per day. However, the water is likely to be used less frequently and for a greater application rate for periodic pavement flushing. The exact usage pattern cannot be predicted, but the approach described above is anticipated to provide a conservatively high water usage rate.

Comparison to Another Site

L&A obtained water usage data for January 2020 through May 2021 from Avenal Regional Landfill (ARL), in Avenal, Kings County California, approximately 25 miles east of JSRL. ARL receives less rainfall than JSRL Landfill, and during the water use period had longer graveled roads than the projected average for JSRL (ARL 1.36 miles; JSRL 0.29 miles), but shorter paved roads than the projected lengths for JSRL (ARL 0.19 miles; JSRL 1.00 miles). During the 17-month period described above, ARL consumed 4,707,587 gallons or an average approximately

Ohio Environmental Protection Agency (Ohio EPA), 1980, Reasonably Available Control Measures for Fugitive Dust Sources, 'RACM".

3,322,996 gallons per year (10.2 acre-feet) for landfill operations. In addition, 147,000 gallons of leachate were used for dust control in a year period for a total of 3,469,996 gallons. This is considerably less than projected for JSRL in Attachment A (5,258,000 gallons per year) and could indicate that the equations used above overestimate water usage. For the purposes of projecting water usage, however, a conservatively high projected water use would be beneficial to ensure adequate quantity of water is planned for over the long term.

Summary

Table 2 in Attachment A summarizes the average modeled baseline and project water usage for the Landfill operations. The baseline water usage was calculated to determine whether it predicted the water usage for operations reported by the operator. The modeled water usage matched the approximate operations water usage reported by the operator for 2021 (non-construction year) and the model was determined to provide a reasonable predictor of future average water usage for operations.

The projected average annual water usage was estimated based on projected trips to the working face and average road length. As described above, the roads will gradually lengthen as modules farther from the entrance are developed and the paved surface will gradually lengthen as well. Because of the implementation of the public tipping area the average traffic travelling to the working face will be similar to or less than the current traffic and the average annual water usage over the life of the Landfill is projected to increase approximately 116% over the current operational water usage. As the distance from the entrance increases, the change in water usage is estimated to initially be less than projected average water usage (80% for Scenario 1) and then increase as road lengths increase reaching 110% of average projected water usage near the end of the landfill site life (Scenario 5).

As shown on Tables 3 and 4 in Attachment A, the current average water usage for operations is approximately 2.4 million gallons per year (7.59 acre-feet or 3,300 HCF per year). The modeled average projected water usage would be approximately 5.3 million gallons per year (16.14 acrefeet or 7,000 HCF per year), but could range from 4.2 million gallons per year (12.93 acre-feet or 5,631 HCF per year) initially using Scenario 1 to 7.0 million gallons per year (17.83 acre feet or 7,765 HCF per year) near the end of landfill site life using Scenario 5.

Table 5 in Attachment A shows that either a module construction project or a partial-final closure construction project would require an average of approximately 2.2 million gallons of water (6.64 acre feet or 2,891 HCF) of water, more than used historically for construction projects described above (average of 1.9 million gallons). The water usage would vary with the length of construction roads, excavation area, stockpile area, and bulk excavation quantity. It is estimated that approximately 1.8 million gallons (5.39 acre feet or 2,350 HCF) would be

required for Scenario 1. For Scenario 5, 2.6 million gallons (8.13 acre feet or 3,542 HCF) would be required.

Table 2 in Attachment A summarizes the water usage for a Module construction project by season. Using the ratio of trips per season provided by the operator, the average projected water usage was prorated by season. For the purposes of estimating short term water demand from a water source such as a well, the average gallons per minute for each season for both operations and construction were estimated based on consumption during an 8-hour day. If storage at the water source is provided, the 24-hour average would be 1/3 of that required on an 8-hour basis.

The following Table summarizes the average water flow requirements for operations and construction.

| Season | Modeled Future from Operations gpd | Modeled Future Water Truck Loads per Day ¹ | Modeled Average from Operations gpm for 8 hr day ² | Approximate Construction Peak Loads per Day ^{1,5} | Construction Project Add gpm for 8 hr Weekday (peak) ^{2,5} | Combined Demand, gpm for 8 hr Day ² |
|----------------------|--|--|--|---|---|---|
| Spring (March-May) | 12,100 | 3 | 25 | $0.2^3 (8^4)$ | $1.4^2 (57^3)$ | 82 |
| Summer (June-August) | 28,300 | 8 | 59 | 8 | 57 | 116 |
| Fall (September - | | | | | | |
| November) | 12,100 | 3 | 25 | 2 | 12 | 37 |
| Winter (December - | | | | | | |
| February) | 4,000 | 1 | 8 | 0 | 0 | 8 |

Notes:

- 1: Based on 3,600 gal/load.
- 2: If sufficient storage is provided, the required flow would be 1/3 of the flow shown.
- 3: Typically prior to April 15.
- 4: Typically after April 15.
- 5: Average is less. See Table 5 in Attachment A.

Should a well be provided for operational water use, an average flow of 59 gpm would be required for operations during the summer assuming use during an 8-hour day. During construction, an average additional 57 gpm would be required during an 8-hour day. ²⁵ At other times during an average year, the required flow would be less than 59 gpm for operations and 57 gpm for construction. The required flow for operations would range from approximately 20% less than the average of 59 gpm during initial landfill expansion (47 gpm) when roads are shorter and approximately 10% more than 59 gpm during later portions of the landfill expansion when the roads are longer (65 gpm). ²⁶

009130.11 Lawrence & Associates

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²⁵ Some contractors elect to work 5, 10-hour days, and the average would be less when divided over 10 hours.

²⁶ Based on footnotes 10 and 11 on Table 4 in Attachment A.

It is understood that because wells installed within the property would not produce sufficient water, it is the intent of the operator to store stormwater runoff and use the water for operational uses and construction projects. The flows described above are intended to be for specifying needs for short term water supply should there be insufficient stored water.

Water usage could be reduced by the use of dust palliatives; however, an assessment of dust palliatives is not included in this analysis.

As described above, operation water average 5.3 million gallons per year (16.14 acre-feet or 7,029 HCF per year). Construction projects would be expected to add an additional 2.2 million gallons (6.64 acre-feet or 2,891 HCF per construction event) per year, although these projections are anticipated to be conservatively high.

L&A understands that once lined ponds are installed early in the expansion of the Landfill, much of the water would be obtained from the ponds and the above totals do not represent water demand from a water utility, except potentially the first project when the ponds would be installed.

Limitations

Water use, primarily for dust control was estimated for the purposes of identifying the water storage needs for the project. Because the projected water use is based on modeling using reasonable assumptions and annual averages, and because weather and climate conditions vary, the day-to-day and seasonal needs will be more or less than described in this memo. This analysis includes only water usage to operate and construct a landfill and does not include water for items outside of this scope (e.g., composting).

Attachments

Attachment A. Tables.

Attachment B. Figures from Air Quality DEIR Appendix B.²⁷

Attachment C. Excerpts from Attachment O to Air Quality DEIR Appendix B.²⁸

²⁸ *Ibid*.

²⁷ Lawrence & Associates. December 2022, Appendix B, Calculations for Air Quality and Greenhous Gas Climate Change, Proposed Landfill Expansion, John Smith Road Landfill, San Benito County, California.

Attachment A

Table 1

John Smith Road Landfill Historical Water Usage

Assume gallons/load =

3600

Note: Leachate and Condensate were not used for dust control

| MONTH | | YE | AR | | | YEA | AR | | | YE | AR | | | YEA | R | | | YE | AR | |
|--|-------|-------------|-------|----------|-------|-------------|-------|----------|-------|-----------|---------|-----------|-------|--------------|-----------|----------|-------|---------|----------|----------|
| | | 20 | 18 | | | 201 | 19 | | | | 020 | | | 202 | 1 | | | | 022 | |
| | USAGE | | | AVG | USAGE | | | AVG | USAGE | USAGE | | AVG | USAGE | USAGE | | AVG | USAGE | USAGE | | AVG |
| | (HCF) | USAGE (GAL) | LOADS | LOAD/DAY | (HCF) | USAGE (GAL) | LOADS | LOAD/DAY | (HCF) | (GAL) | LOADS | LOAD/DAY | (HCF) | (GAL) | LOADS | LOAD/DAY | (HCF) | (GAL) | LOADS | LOAD/DAY |
| SUNNYSLOPE | | | | | | | | | | | | | | | | | | | | |
| JANUARY | | - | - | - | 37 | 27,678 | 8 | 0.2 | 25 | 18,701 | 5 | 0.2 | 103 | 77,049 | 21 | 0.7 | 53 | 39,647 | 11 | |
| FEBRUARY | | - | - | - | 37 | 27,678 | 8 | 0.3 | 90 | 67,325 | 19 | 0.7 | 102 | 76,301 | 21 | 0.8 | 101 | 75,553 | 21 | 0.7 |
| MARCH | | - | - | - | 16 | 11,969 | 3 | 0.1 | 140 | 104,727 | 29 | 0.9 | 202 | 151,107 | 42 | 1.4 | 141 | 105,475 | 29 | |
| APRIL | | - | - | - | 117 | 87,522 | 24 | 0.8 | 36 | 26,930 | 7 | 0.2 | 231 | 172,800 | 48 | 1.6 | 179 | 133,901 | 37 | |
| MAY | | - | - | - | 247 | 184,769 | 51 | 1.7 | 149 | 111,460 | 31 | 1.0 | 298 | 222,919 | 62 | 2.0 | 110 | 82,286 | 23 | 0.7 |
| JUNE | 326 | | 68 | 2.3 | 230 | 172,052 | 48 | 1.6 | 171 | 127,917 | 36 | 1.2 | 412 | 308,197 | 86 | 2.9 | | - | | - |
| JULY | 640 | 478,753 | 133 | 4.3 | 402 | 300,717 | 84 | 2.7 | 224 | 167,564 | 47 | 1.5 | 457 | 341,860 | 95 | 3.1 | | - | - | |
| AUGUST | 706 | | 147 | 4.7 | 349 | 261,070 | 73 | 2.3 | 280 | 209,455 | 58 | 1.9 | 464 | 347,096 | 96 | 3.1 | | - | | - |
| SEPTEMBER | 556 | | 116 | 3.9 | 372 | 278,275 | 77 | 2.6 | 346 | 258,826 | 72 | 2.4 | 425 | 317,922 | 88 | 2.9 | | - | - | |
| OCTOBER | 369 | -, | 77 | 2.5 | 373 | 279,023 | 78 | 2.5 | 301 | 225,164 | 63 | 2.0 | 312 | 233,392 | 65 | 2.1 | | - | - | |
| NOVEMBER | 421 | 314,930 | 87 | 2.9 | 302 | 225,912 | 63 | 2.1 | 387 | 289,496 | 80 | 2.7 | 168 | 125,673 | 35 | 1.2 | | - | - | |
| DECEMBER | 81 | , | 17 | 0.5 | 80 | 59,844 | 17 | 0.5 | 136 | 101,735 | 28 | 0.9 | 94 | 70,317 | 20 | 0.6 | | - | - | |
| OPERATIONS TOTAL | 3,099 | 2,318,213 | | | 2,562 | 1,916,509 | | | 2,285 | 1,709,299 | | | 3,268 | 2,444,634 | | | 584 | 436,862 | | |
| Module | | 7/8A | | | | 7/8B | | | | 7/8C | | | | | | | | | i | |
| Lined Area, Acres | | 6.24 | | | | 2.77 | | | | 4.78 | | | | | | | | | i | |
| Bulk Excavation, CY | | 323,500 | | | | 172,000 | | | | 300,405 | | | | | | | | | l | |
| Bulk Embankment, CY | | 11,000 | | | | 19,600 | | | | | | | | | | | | | l | |
| CONTRACTOR WATER | 2,546 | | | | 3,520 | , , - | | | 3,134 | 2,344,395 | | | | - | | | | - | — | |
| WITH CONSTRUCTION | 5,645 | 4,222,754 | | | 6,082 | 4,549,652 | | | 5,419 | 4,053,694 | | | | | | | | | Щ | |
| Analytics | | | | | | | | | | | | | | | | | | | | |
| Corrected Construction Water, gallons ¹ | | 1,904,540 | | | | 2,105,018 | | | | 1,609,060 | Average | 1,872,873 | | | | | | | | |
| Construction water, gallons per acre | | 305,215 | | | | 759,934 | | | | 336,623 | Average | 467,258 | | | | | | | | |
| Construction water, gallons per cubic yard | | 5.89 | | | | 12.24 | | | | 5.36 | Average | 7.83 | | Average with | hout Modu | le 7/8B | 5.62 | | | |

Notes

1. For 2019 and 2021, it appears that the contractor provided some of the operations water. Assuming 2021 (non-construction year) operational water reflects typical operational water use, the difference between the 2021 and 2020 and 2019 operations water was subtracted from the respective construction water total to generate approximate water related strictly to construction.

Attachment A

John Smith Road Landfill Water Usage

Average Water Usage Projection

Note that the water usage will be more or less during any given year.

Table 2 Summary Operations and Construction - Water Usage Summary For Short Term Well Sizing

| Tuble 2 Summary Operations and Construction Trates | 0 | | | | | | | | | | |
|---|----------------------------|------------------|---------------|----------------------------|----------------|--------------|-------------|-------------|---------------------------|-------------------------------|---------------|
| | | | | | | | | | | | Total gpm for |
| | | | | | | Modeled | Modeled | Modeled | Modeled | | Peak |
| | Historical | | | Modeled | Modeled | Current | Future | Future | Future | Construction | Construction |
| | Approximate | Historical | | Current | Current | Operations | Operations, | Operations, | Operations | Project Peak, Add | and Average |
| | Water Truck | Approximate | Seasonal % of | Operations, | Operations, | Average, gpm | gpd | Loads per | Average, gpm | gpm for 8 hr | Operations 8 |
| Season | Loads per Day ¹ | gpd ² | Average | gpd (rounded) ³ | Loads per Day⁴ | for 8 hr day | (rounded)⁵ | Day⁴ | for 8 hr day ⁶ | Weekday (peak) ^{6,7} | hr day (peak) |
| Spring (March-May) | 3 | 10,800 | 84% | 5,600 | 2 | 12 | 12,100 | 3 | 25 | 57 | 82 |
| Summer (June-August | 7 | 25,200 | 196% | 13,100 | 4 | 27 | 28,300 | 8 | 59 | 57 | 116 |
| Fall (September -November) | 3 | 10,800 | 84% | 5,600 | 2 | 12 | 12,100 | 3 | 25 | 12 | 37 |
| Winter (December - February) | 1 | 3,600 | 28% | 1,900 | 1 | 4 | 4,000 | 1 | 8 | 0 | 8 |
| Average Based on 365 days per year | 4 | 10,959 | | 6,550 | 2 | 14 | 14,125 | 4 | 29 | NA | |
| Average Used for Calculation of Seasonal Proportion | | 12,850 | | | | Change | 116% | | 10 | | |

Notes:

- 1: Typical condition during dry day irrespective of annual average. Used solely to model seasonal ratio of trips.
- 2: Trips x 3,600 gallons, used solely to model seasonal ratio of trips. 365 day average is based on 2,444,000 gallons per year as described in Table 1 for 2020.
- 3: Assumes averages over 365-day period, difference between current and model is the result of rounding errors.
- 4: Modeled gpd / 3,600 gal.
- 5: The difference in average between the average and Table 3 is the result of rounding and variations in days per year that water is used. Assumes 7 days/week 365 days per year. Day-to-Day will vary.
- 6: This is based on an average 8 hours per day. With sufficient storage, a water source with 1/3 the described flow rate pumping over a 24-hour period could be used.
- 7: Does not happen every year.

Table 3 - Water Usage from Current Operation

| | | | | Application | | Water Truck | | | Gal/Day | |
|--|-----------------|--------------|----------------------------|-------------------|-----------|-------------|-------------------------|-----------|---------|-----------------------|
| | Existing | Assumed | | Rate gpsf per | Water per | Passes Per | Water Truck | Watering | Annual | |
| Location | Scenario, Miles | Efficiency % | Road Area. sf ² | Pass ⁶ | Day, gal | Day | Loads /Day ⁸ | Days/year | Average | Gal/Year ⁹ |
| Track-on paved road vacuum sweeping/washing ¹ | 0.038 | 50 | 4,800 | 0.053 | 1,024 | 4 | 0.28 | 90 | 252 | 92,160 |
| Paved road watering (dry periods) ³ | 0.190 | 25 | 24,077 | 0.023 | 549 | 1 | 0.15 | 271 | 408 | 148,762 |
| Truck wash ⁴ | NA | NA | NA | NA | 1,000 | NA | 0.28 | 90 | 247 | 90,000 |
| Gravel road | 0.77 | 73 | 97,574 | 0.032 | 6,180 | 2 | 1.72 | 271 | 4,588 | 1,674,656 |
| Cover Soil Haul Route Unpaved Road | 0.55 | 73 | 69,696 | 0.015 | 1,070 | 1 | 0.30 | 271 | 794 | 289,984 |
| Tipping Pad | 0.5 | 54 | 21,780 | 0.009 | 202 | 1 | 0.06 | 271 | 150 | 54,852 |
| Domestic water usage ⁵ | NA | NA | NA | NA | 250 | NA | 0.07 | 361 | 247 | 90,250 |
| Totals (Average for Year) | | | | | 10,275 | | 2.85 | | 6,687 | 2,440,663 |

Average GPM 5 for 24 hours
Acre-feet per year 7.49

Notes:

- 1. Assumes 100 feet of road 24-feet wide is flushed and vacuum swept after each storm with greater than 0.1 inches of rainfall (0.062 gpd/sf) in 24 hours and then for two days thereafter. To prevent tracking onto remaining pavement. Wheel wash installed in 2021.
- 2. Assume two 12-foot wide lanes per Note 7 below.
- 3. Assumes bi-weekly vacuum sweeping obtains 40 to 70% control efficiency. Assume daily pavement watering, when needed for dusty conditions, to obtain a total of 90% control efficiency when needed
- 4. The truck wash is used after rainy periods to prevent tracking of mud onto paved areas assuming 30 rainy days (exceeding 0.1" in 24 hours) per year plus two days after each rainy day = 90 days per year x 1,000 gpd (for future, assume truck wash 2.3 times the size of the current one).
- 5. From Design Basis Report, Table 14.
- 6. See equations below.
- 7. Assume each Lane is

12 ft x 2 lanes =

24 feet (two way traffic)

8. Assuming 3,600 gallon loads.

9. In 2020, the Landfill used a combination of 1,690,500 gallons of water purchased by the operator and approximately 2,319,000 gallons purchased by the contractor, much of the use overlapped for a total of 4,009,280 gallons. In 2021, a total of 2,444,500 gallons were used without a construction project. It is assumed that negligible water was obtained from the ponds.

Page 1 of 4 Lawrence & Associates

Table 4 - Future Operation

| | | | | | | | | | Application | | Water Truck | | | | |
|--|--------------------------|------------|------------|------------|--------------------------|-----------------------|------------|------------------------|-------------------|--------------------|-------------|------------------------|--------------------------|----------------|------------|
| | | | | | | | Required | | rate gpsf per | • | Passes Per | Water Truck | | Gal/Day Annual | |
| Location | Scenario 1 ¹⁰ | Scenario 2 | Scenario 3 | Scenario 4 | Scenario 5 ¹¹ | Average ¹² | Efficiency | Road Area ² | pass ⁶ | Water per day, gal | Day | Loads/Day ⁸ | Days/year | Average | Gal/Year |
| Track-on paved road vacuum sweeping/washing ¹ | | | | | | 0.038 | 90 | 4,800 | 0.053 | 2,048 | 8 | 0.57 | 90 | 505 | 184,320 |
| Paved road wetting (dry periods) ³ | 0.57 | 0.77 | 1.45 | 0.77 | 1.42 | 1.00 | 50 | 126,213 | 0.03 | 4,251 | 1 | 1.18 | 271 | 3,156 | 1,152,013 |
| Truck wash ⁴ | NA | NA | NA | NA | NA | NA | NA | NA | NA | 2,000 | NA | 0.56 | 90 | 493 | 180,000 |
| Gravel Road, miles ¹² | 0.09 | 0.14 | 0.10 | 0.14 | 0.26 | 0.29 | 90 | 37,002 | 0.084 | 6,231 | 2 | 1.73 | 271 | 4,627 | 1,688,693 |
| Cover Soil Haul Route Unpaved Road, miles ¹³ | 0.55 | 0.17 | 0.36 | 0.17 | 0.42 | 0.33 | 90 | 42,324 | 0.083 | 3,509 | 1 | 0.97 | 271 | 2,605 | 950,935 |
| Tipping Pad, Acres | 1 | 1 | 1 | 1 | 1 | 1 | 90 | 43,560 | 0.042 | 3,668 | 2 | 1.02 | 271 | 2,723 | 993,987 |
| Domestic water usage ⁵ | NA | NA | NA | NA | NA | NA | NA | NA | NA | 300 | NA | 0.08 | 361 | 297 | 108,300 |
| Totals (Average for Year) | | | | | | | | | | 22,007 | | 5.54 | | 14,406 | 5,258,000 |
| Gravel Road Multiplier: | 2 | | | | | | | | | | | | Average GPM ⁹ | 10 fo | r 24 hours |

Unpaved Road Multiplier:

Notes:

- 1. Assumes 100 feet of road 24-feet wide is flushed and vacuum swept after each storm with greater that 0.1 inches of rainfall (0.062 gpd/sf) in 24 hours and then for two days thereafter. To prevent tracking onto remaining pavement.
- 2. Assume two 12-foot wide lanes, per Note 7 below.
- 3. Assumes bi-weekly vacuum sweeping obtains 40 to 70% control efficiency. Assume daily pavement watering, or less when needed for dusty conditions. Assuming the combination provides roughly 90% collection efficiency.
- 4. The truck wash is used after rainy periods to prevent tracking of mud onto paved areas 30 rainy days (exceeding 0.1" in 24 hours) per year plus two days after each rainy day = 90 days per year x 2,000 gpd (2 times the size of the current one).
- 5. From Design Basis Report, Table 14.
- 6. See equations below.

7. Assume each Lane is

12 ft x 2 lanes =

24 feet (two way traffic)

- 8. Assuming 3,600 gallon loads.
- 9. Average is 1.73 times the 2020 current usage.
- 10. When analyzed only for Scenario 1, the water usage would be 12.93 acre-feet (5,631 HCF; 80% of the stated average).
- 11. When analyzed only for Scenario 5, the water usage would be 17.83 acre-feet (7,765; 110% of the stated average).
- 12. Assumes double the length of gravel roads to account variance.
- 13. Soil comes from area adjacent to active cell.

Table F Typical Construction Project

| | | | | | | | | | | | | Peak | | | | | Average |
|--|-------------------------|-------------------------|------------|-------------------------|-------------------------|---------|------------|------------------------|---------------|-------------------|-------------|-----------|-------------|------------|----------------|--------------|--------------|
| | | | | | | | | | Application | | Water Truck | Loads/Day | | | Peak Gallons | | Gallons per |
| | | | | | | | Required | Average | rate gpsf per | Average Water per | Passes Per | @3,600 | Work | | Per minute for | Peak Gallons | Calendar Day |
| Location | Scenario 1 ² | Scenario 2 ⁴ | Scenario 3 | Scenario 4 ⁴ | Scenario 5 ³ | Average | Efficiency | Road Area ¹ | pass, gpsf | day, gal | Day | gal/load | Days/Period | Gal/Period | 8-Hour Day | per Day | for Period |
| Mobilization (Typically April 1 - April 15) | | | | | | | | | | | | | | | | | 1 |
| Construction Access Unpaved, miles | 0.00 | 0.22 | 0.10 | 0.22 | 0.15 | 0.14 | 90 | 17,487 | 0.02 | 692 | 2.00 | 0.19 | 11.00 | 7,612 | | | 1 |
| Subtotal | | | | | | | | | | 692 | | 0.19 | | 7,612 | 1.4 | 692 | 507 |
| Bulk Excavation Screening & Clay April 16 - Jul 15 | | | | | | | | | | | | | | | | | 1 |
| Construction Access Unpaved, miles | 0.00 | 0.22 | 0.10 | 0.22 | 0.15 | 0.14 | 90 | 17,487 | 0.11 | 3,938 | 2.00 | 1.09 | 65.00 | 255,943 | | | 1 |
| Unpaved Soil Haul Road, miles ⁵ | 0.28 | 0.27 | 0.36 | 0.27 | 0.42 | 0.32 | 95 | 40,550 | 0.11 | 18,261 | 4.00 | 5.07 | 56.00 | 1,022,630 | | | |
| Excavation Area, acres | 23.80 | 7.90 | 7.30 | 7.90 | 9.00 | 11.18 | 90 | 16,749 | 0.06 | 1,886 | 2.00 | 0.52 | 56.00 | 105,594 | | | Ī |
| Stockpile Area, acres | 6.00 | 8.70 | 7.20 | 8.70 | 5.70 | 7.26 | 75 | 13,497 | 0.05 | 1,216 | 2.00 | 0.34 | 56.00 | 68,073 | | | Ī |
| Screening Plant (assume mister @3gpm) | NA | NA | NA | NA | NA | NA | 75 | NA | | 1,440 | | 0.40 | 56.00 | 80,640 | | | 1 |
| Subtotal | | | | | | | | | | 26,740 | | 7.43 | | 1,532,880 | 57.0 | 27,373 | 16,797 |
| Liner, Gravel Installation, Ops Jul 15 -Sep 15 | | | | | | | | | | | | | | | | | Ī |
| Unpaved Road, miles | 0.22 | 0.22 | 0.10 | 0.22 | 0.15 | 0.18 | 90 | 23,063 | 0.06 | 2,597 | 2.00 | 0.72 | 56.00 | 145,405 | | | Ī |
| Unpaved Soil Haul Road, miles | 0.17 | 0.17 | 0.36 | 0.17 | 0.42 | 0.26 | 95 | 32,694 | 0.11 | . 14,723 | 4.00 | 4.09 | 21.00 | 309,186 | | | 1 |
| Subtotal | | | | | | | | | | 17,320 | | 5 | | 454,591 | 45.1 | 21,647 | 7,332 |
| Erosion Control Cleanup Sep 16-Oct 15 | | | | | | | | | | | | | | | | | 1 |
| Unpaved Road, miles | 0.22 | 0.22 | 0.1 | 0.22 | 0.15 | 0.18 | 90 | 23,063 | 0.1 | 4,613 | 2.00 | 1.28 | 30 | 138,378 | | | 1 |
| Unpaved Soil Haul Road, miles | 0.17 | 0.17 | 0.36 | 0.16 | 0.42 | 0.26 | 95 | 32,440 | 0.11 | 14,609 | 4.00 | 4.06 | 2 | 29,218 | | | 1 |
| Subtotal | | | | | | | | | | 19,222 | | 5.34 | | 167,596 | 11.6 | 5,587 | 5,587 |

- 1. Assume two 12-foot wide lanes.
- 2. When analyzed for Scenario 1 only, the water usage would be 5.39 acre feet (2,350 HCF; 81% of the average Minimum Usage).
- 3. When analyzed for Scenario 5 only, the water usage would be 8.13 acre feet (3,542 HCF; 123% of the average Maximum Usage).
- 4. Assume a minimum of 0.27 acres (similar to Module 7/8C) or length shown, whichever is greater for unpaved soil haul road to be conservatively high for water-use purposes.
- 5. Assumes 225,000 CY and 6,000 CY/day = 37.5 x 1.25 for potential variance = 56 days

Total for Average Project 2,162,679 Acre-feet 6.64 2,891 HCF

Assumed Bulk Excavation, CY 281,250

Acre-feet per average year

16.14

gallons /CY

Page 2 of 4 Lawrence & Associates

TRAFFIC ASSUMPTIONS

| Current Operation Traffic Assumptions | |
|---|-----|
| 1. Assume average traffic per day | |
| 2. Assume all traffic travels to tipping face | |
| a. 188 In-County Self Haul x 1 = | 188 |
| b. In-County commercial = 31 | 31 |
| c. Out-of-County commercial = | 36 |
| d. Support vehicle trips = 8 trips per day (1/hr) | 8 |
| e. Total trips per day = | 263 |
| f. Trips per hour assuming 8 hours = | 33 |

Construction Traffic Trips per Day Trips per Hour Support Trips 42 239 Soil hauling trips

Future Operations Assumptions

1. Assume average traffic

2. Assume public tipping area is implemented and 50% of public traffic will not enter site

a. 232 In-County Self Haul x 0.5 = b. In-County commercial = 38 94 c. Out-of-County commercial = d. Support vehicle trips = 8 trips per day (1/hr) 8 e. Roll-Off Haul Loads f. Total trips per day = 260 g. Trips per hour assuming 8 hours = 33

5.25 Table 3.13 in Attachments O4, O5, O6, and O7 DEIR Appendix B

29.88 Loads in Attachments O4, O5, O6, and O7 DEIR Appendix B, Assuming 6,000 cy/day

Water Usage Equation for Unpaved Roads

From EPA 1988; equation 3-2,

C = 100 - ((0.8 p d t)/i), and

for a given control efficiency to obtain application rate:

i = -0.8 p d t / C-100

where:

C = average control efficiency, percent

p = average hourly daytime evaporation rate, mm/hr

d = average hourly daytime traffic rate, (trips per hour; h⁻¹)

i = water application intensity, L/m2 per application

t = time between applications, hr

Conversions

L/m2 to gal/yd2 0.22081

Table 6 - Operations Unit Water Usage

| | | | | | Future | | | | |
|---|----------------|-----------------------|-----------------------|-----------------------|------------|------------|------------|--------------------|--------------------|
| | | Current | Future | Current | Operations | | | | |
| | | Operations | Operations | Operations | Waste | Current | Future | Current | Future |
| | | Waste Delivery | Waste Delivery | Waste Delivery | Delivery | Operations | Operations | Operations | Operations |
| Variables | Units | Paved | Paved | Gravel | Gravel | Cover Soil | Cover Soil | Tipping Pad | Tipping Pad |
| i, per application = | L/m2 = | 0.93 | 1.37 | 1.29 | 3.43 | 0.63 | 3.38 | 0.38 | 1.72 |
| I, per application = | gal/sy = | 0.21 | 0.30 | 0.28 | 0.76 | 0.14 | 0.75 | 0.08 | 0.38 |
| I, per application = | gal/sf | 0.02 | 0.03 | 0.03 | 0.08 | 0.015 | 0.083 | 0.009 | 0.042 |
| C = | % | 25 | 50 | 73 | 90 | 73 | 90 | 54 | 90 |
| p = | mm/hr | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| d = | trips per hour | 33 | 33 | 33 | 33 | 8 | 16 | 17 | 16 |
| t = | hours | 8 | 8 | 4 | 4 | 8 | 8 | 4 | 4 |
| Hours per day | hours per day | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Applications per day | Each | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 |
| Daily Cover | CY/dy | | | | | 160 | 320 | | |
| Distance Travel on Tipping Pad (diagonal square) | Miles | | | | | | | 208.71 | 295.16 |
| Days with Rain greater than 0.1 inches (0.748 gpsf) | Days | | | | | | | | |

Page 3 of 4 Lawrence & Associates

Table 7 - Construction Unit Water Usage

| Variables | Units | Bulk Excavation | Bulk Excavation Bull | k Excavation | Support | Support |
|----------------------|----------------|------------------------|-----------------------------|--------------|---------|---------|
| i, per application = | L/m2 = | 4.59 | 2.29 | 1.84 | 0.81 | 0.81 |
| I, per application = | gal/sy = | 1.01 | 0.51 | 0.41 | 0.18 | 0.18 |
| I, per application = | gal/sf | 0.11 | 0.06 | 0.045 | 0.020 | 0.020 |
| C = | % | 95.00 | 90 | 75 | 90 | 90 |
| p = | mm/hr | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 |
| d = | trips per hour | 30 | 30 | 30 | 5 | 5 |
| t = | hours | 2 | 2 | 4 | 4 | 4 |
| Hours per day | hours per day | 8 | 8 | 8 | 8 | 8 |
| Applications per day | Each | 4.00 | 4 | 2 | 2 | 2 |
| Cubic Yards Per Day | CY/dy | 6,000 | | | | |
| Volume per load | CY/load | 25 | | | | |

Note:

Long-Term Average Mean annual evaporation at Hollister Costa Station is 1431 mm/yr = 0.16335 mm/hr x 2 assuming all evaporation occurs during the day = 0.33 mm/hr (0.16 in/dy) Short Term Construction May though September = 871 mm / 5 months = 0.23861 mm/hr x 2 assuming all evaporation occurs during day = 0.48 mm/hr (0.22 in/day)

Water Application Rates for Water Flushing on Paved Roads

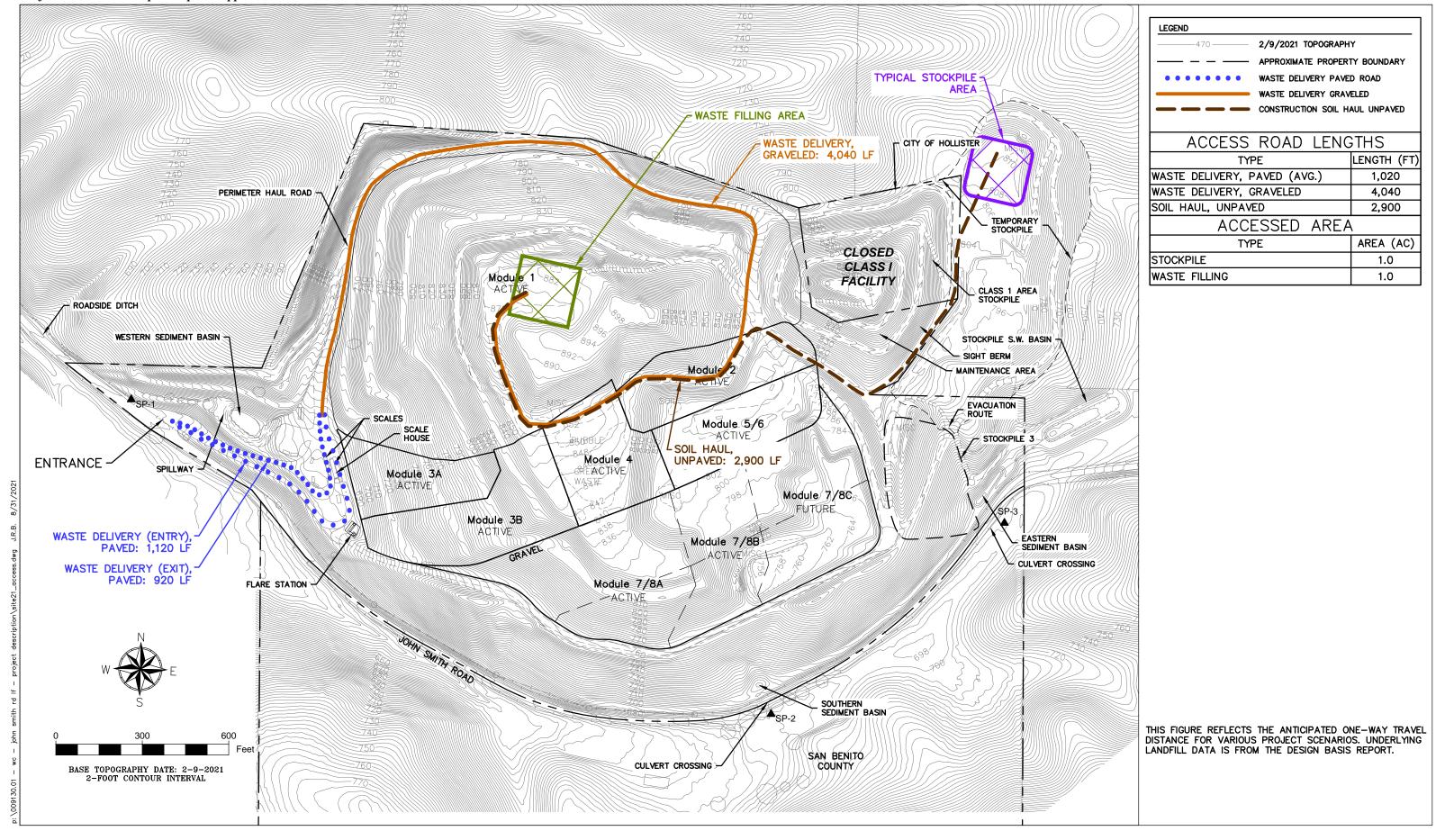
Water Flushing on Paved Roads 0.48 gal/yd2 Table 2-4 USEPA 1988

E = 96 - 0.263 V c,d

Where:

E = 90 % Dust control efficiency
96 = 96 % Dust control efficiency
V = 24 Vehicle passes since application
Traffic per Day 192 Assume traffic lower on rainy days

Page 4 of 4 Lawrence & Associates



BASE TOPOGRAPHY DATE: 2-9-2021 10-FOOT CONTOUR INTERVAL

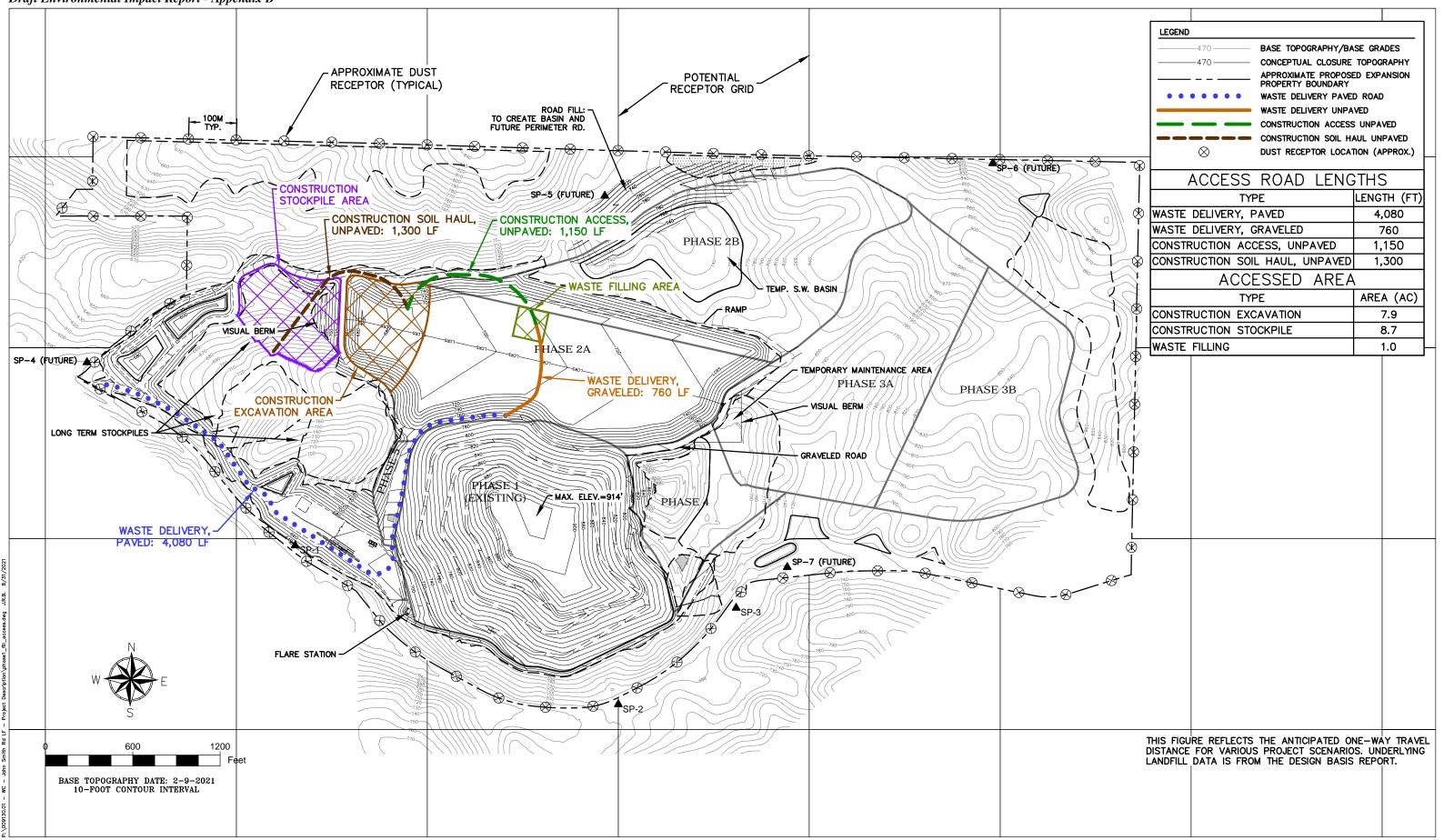
1200

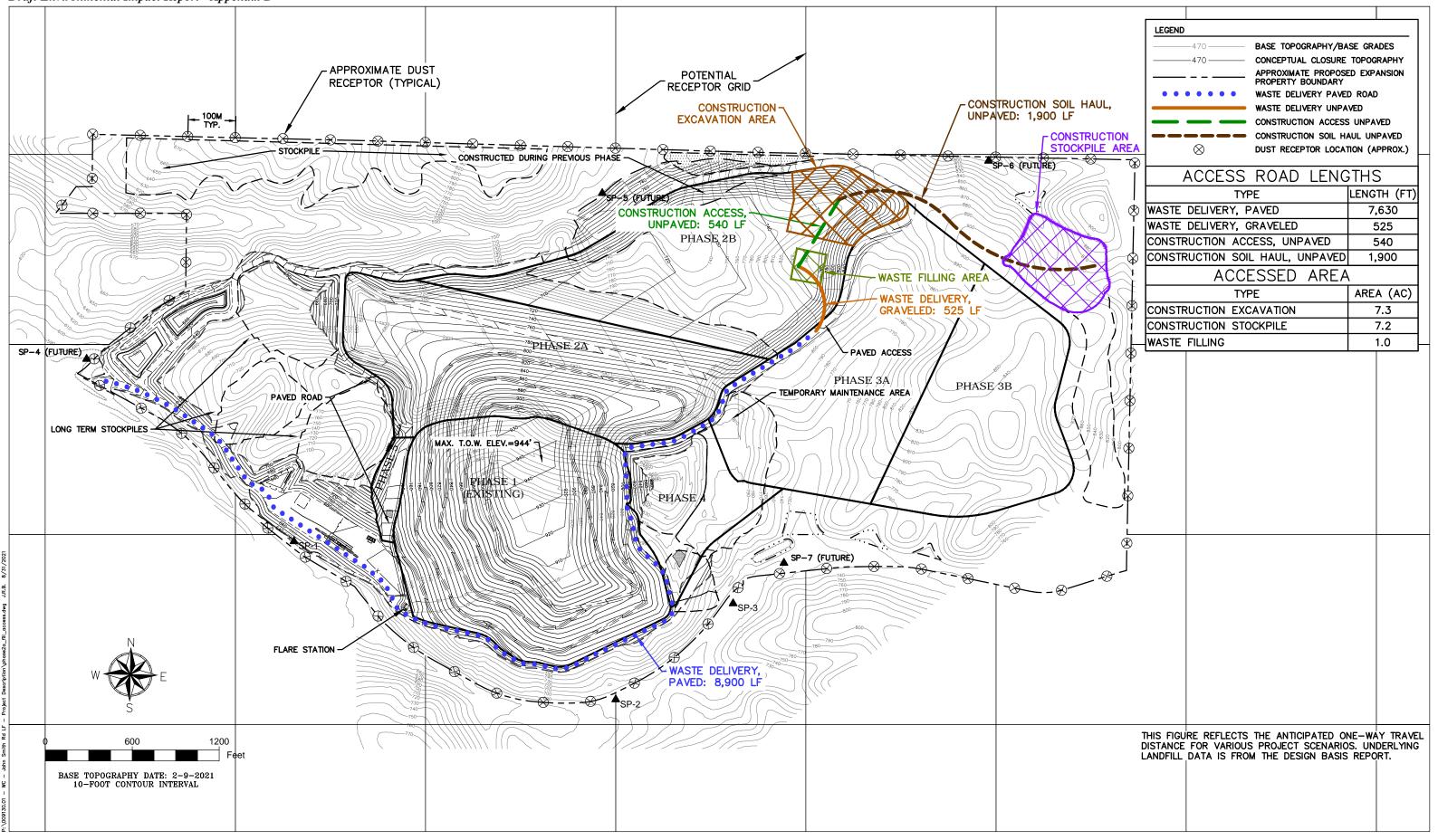
THIS FIGURE REFLECTS THE ANTICIPATED ONE—WAY TRAVEL DISTANCE FOR VARIOUS PROJECT SCENARIOS. UNDERLYING

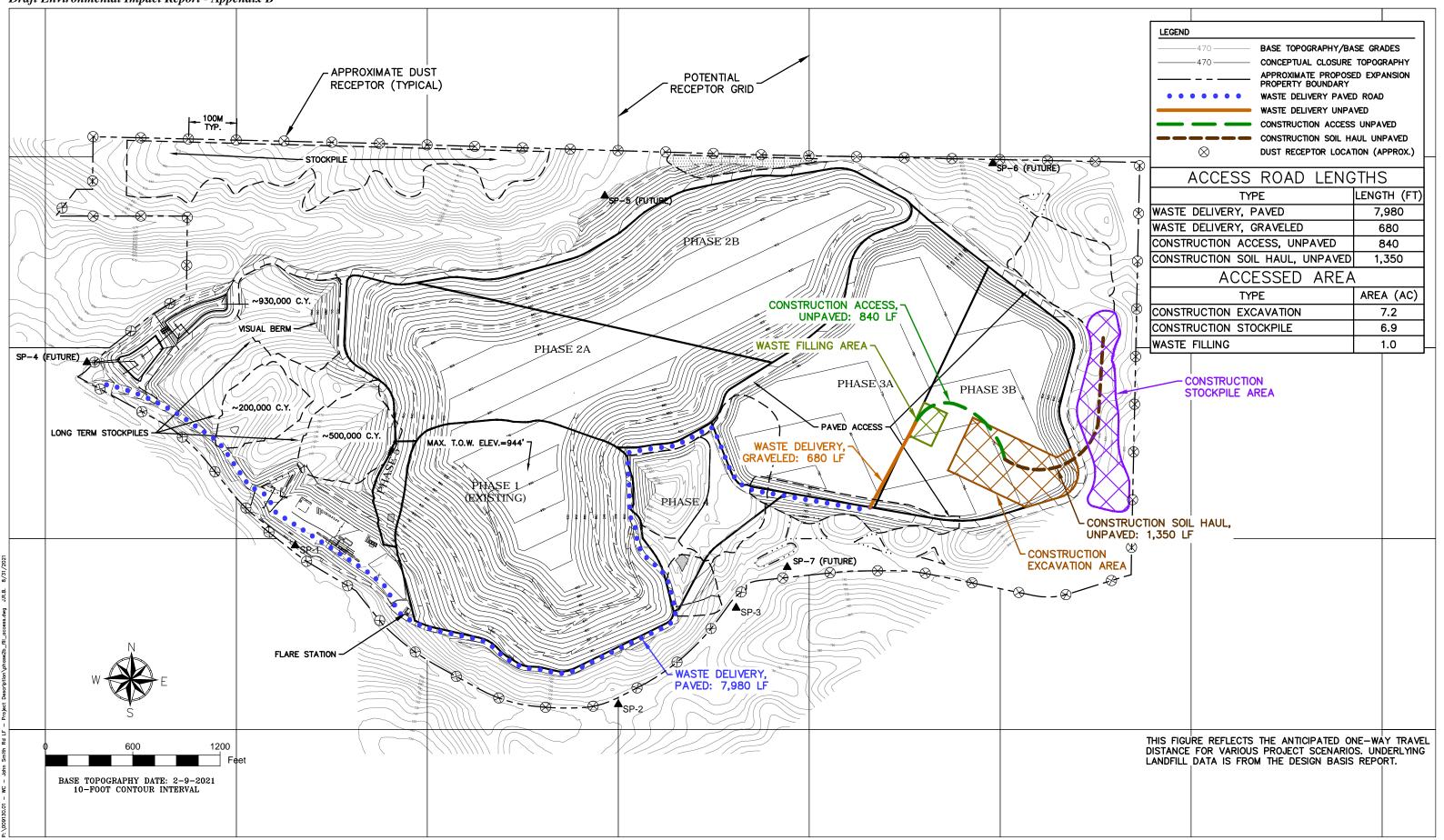
LANDFILL DATA IS FROM THE DESIGN BASIS REPORT.

THIS SCENARIO INCLUDES THE BASELINE (EXISTING) ENTRANCE AND WESTERLY STOCKPILE DEVELOPMENT. CONSTRUCTION SOIL HAUL PATH ANTICIPATE USING THE

CLOSEST AVAILABLE STOCKPILE.







BASE TOPOGRAPHY DATE: 2-9-2021 10-FOOT CONTOUR INTERVAL

John Smith Road Landfill

Attachment Q - Scenario 1: Entrance

Alternatives Assessment - Combination Construction & Operations

Table O3.1 - Summary Table - Scenario 1

| Location | PM ₁₀ , lb/day | PM _{2.5} , lb/day | ROG, lb/day | NOx, lb day | CO, lb day | SO2, lb/day |
|--|---------------------------|----------------------------|-------------|-------------|------------|-------------|
| Emissions from Paved Road | 6.61 | 1.06 | 0.20 | 0.96 | 1.57 | 0.02 |
| Emissions from Graveled Road | 9.61 | 1.11 | 0.03 | 0.15 | 0.25 | 0.00 |
| Emissions from Unpaved Road | 3.55 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| Emissions from Soil Haul Path | 28.45 | 2.84 | 0.70 | 3.66 | 28.65 | 0.02 |
| Emissions from Waste Disposal Area | 6.40 | 4.62 | 1.13 | 11.68 | 31.51 | 0.06 |
| Emissions from Construction Area | 4.70 | 3.37 | 0.63 | 5.62 | 26.64 | 0.06 |
| Emissions from Stockpile | 2.38 | 2.78 | 0.21 | 0.39 | 6.05 | 0.01 |
| Flare or IC (peak) ¹ | 0.44 | 0.45 | 4.22 | 49.89 | 2.27 | 214.91 |
| Peak LFG Fugitive Emissions | NA | NA | 10.81 | NA | NA | NA |
| Indirect (peak tonnage day, off site)App L | NA | NA | 0.29 | 22.57 | NA | NA |
| Entrance Queuing | 0.00 | 0.00 | 0.10 | 1.05 | 1.45 | 0.00 |
| Total | 62.14 | 16.59 | 18.33 | 95.97 | 98.39 | 215.07 |
| Baseline (2021) | 80.80 | 14.35 | 19.88 | 63.73 | 66.46 | 42.79 |
| Change from Baseline | -18.65 | 2.24 | -1.55 | 32.23 | 31.93 | 172.28 |
| MBARD Thresholds | 82 | 82 | 137 | 137 | 550 | 150 |
| NY . | | | | | | |

Variables

| v ariabies | | | | | | |
|----------------------------------|--------|--------------------------|-------------------------|---------------|-----------------------|-------------------|
| Project Year | 2025 | | | | | |
| Waste Delivery Miles - Paved | 3,000 | 0.57 | Miles One Way | | | 3,480 |
| Waste Delivery Miles - Graveled | 480 | 0.09 | Miles One Way | | | |
| Construction Access - Unpaved | 0 | 0.00 | Miles One Way In | Addition to V | Waste Delivery | |
| Construction Soil Haul - Unpaved | 1,480 | 0.28 | Miles One Way | | | |
| Construction Area | | 23.8 | Acres | | | |
| Stockpile Area | | 6 | Acres | | | |
| Waste Disposal Area | | 1 | Acres | Assume 20 | 00 x 200 working face | |
| Assumed Speeds | | | | | | |
| Compactor Speed | 3 | mph | | | | |
| Dozer Speed | 3 | mph | | | | |
| Loader Speed | 7.1 | mph, AP-42 Default | | | | |
| Grader Speed | 7.1 | mph, AP-42 Default | | | | |
| Off-Road Haul Truck Speed | 7.1 | mph, AP-42 Default | | | | |
| Excavator Speed | 0 | mph | mostly stationary | | | |
| Backhoe Speed | 0 | mph | mostly stationary | | | |
| Construction Excavation | 6,000 | cy | 1 | | | |
| Construction Excavation | 10,020 | tons @1.67 t/cy | 239 | Loads | 67.05 | Total Miles One v |
| Daily Cover Excavation | 320 | cy (2000 tpd waste /0.75 | x 0.12 cy soil/cy waste | : | | |
| Daily Cover Excavation | 534 | tons @1.67 t/cy | 15 | Loads = | 4.18 | Total Miles One v |
| | | | | | | |

Waste Delivery On-Site Emissions - Assuming

See Footnotes on Attachment O1

Total Miles One way

| Sable O3.2 - On-Road Support Vehicles | | Vehicle P | roperties | | | | | | Calendar Year | | Aggregate Spee | | ,, | 588 | | Assume idlin | 8 8. | | | Emission | n Factors an | d Calculation | ıs | | | | | | | | | | |
|---|------------------|-----------|-----------------|-------------|----------------------------------|--------------------------------------|-------------------------------------|-----------------------------|--|---|--|-----------|--|------------------|------|---|---|-----------------------------|----------|--|--------------|---------------|----------|---------------------------|---|---|-------|----------|-------|-----------------------------|-----------|----------|--|
| On-Road Vehicles | Vehicle Category | Trips/Day | Trip Dust (both | Total Miles | Paved Miles / Day (both ways) | Graveled Miles/Day (both ways) | Unpaved Miles/Day (both ways) | Load Factor ⁵ | RUNEX Emissions Factor NOx (g/mile) ¹⁰ | RUNEX Emissions NOx (lbs/day) ⁸ | STREX Emissions Factor NOx (g/trip) | Emissions | RUNEX Emissions Factor ROG (g/mile) ¹⁰ | Emissions ROG | ROG | STREX Emissions ROG (lbs/day) ⁸ | RUNLOSS Emissions Factor ROG (g/trip) ¹⁰ | RUNLOSS Emissions ROG | | Exhaust Emissions PM10 (lbs/day) ⁸ | | Tire Wear | | Wear Emissions PM10 | Exhaust Emissions Factor PM2.5 (g/mile) ¹⁰ | Exhaust Emissions PM2.5 (lbs/day) ⁸ | | | PM2.5 | Brake Emissions PM2.5 | Factor CO | co | Emissions Emis Factor SOx SO (g/mile) ¹⁰ (lbs/o |
| ord Mechanic Truck (DSL) | LHD1 | 2 | 2.6 | 2.6 | 2.3 | 0.4 | 0.0 | 1 | 2.74 | 0.0 | 0.00 | 0.000 | 1.93E-01 | 0.001 | 0.00 | 0.000 | 0.00 | 0.000 | 3.34E-02 | 0.000 | 1.20E-02 | 0.000 | 7.64E-02 | 0.000 | 3.19E-02 | 0.000 | 0.003 | 0.000 | 0.033 | 0.000 | 9.36E-01 | 0.005 | 5.30E-03 5E- |
| ord F450 Flat Bed (DSL) | LHD2 | 1 | 1.3 | 1.3 | 1.1 | 0.2 | 0.0 | 1 | 1.89 | 0.0 | 0.00 | 0.000 | 1.69E-01 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 2.96E-02 | 0.000 | 1.20E-02 | 0.000 | 8.92E-02 | 0.000 | 2.84E-02 | 0.000 | 0.003 | 0.038 | 0.038 | 0.000 | 8.29E-01 | 0.002 | 5.91E-03 2E- |
| Vater Truck (DSL) ¹ | T6 CAIRP heavy | 32 | 42.2 | 42.2 | 36.4 | 5.8 | 0.0 | 1 | 1.36 | 0.1 | 1.36 | 0.096 | 4.93E-02 | 0.005 | 0.00 | 0.000 | 0.00 | 0.000 | 1.48E-02 | 0.001 | 1.20E-02 | 0.001 | 1.30E-01 | 0.012 | 1.42E-02 | 0.001 | 0.003 | 0.000 | 0.026 | 0.002 | 2.59E-01 | 0.024 | 9.33E-03 9E- |
| upport Light Heavy Duty Trucks (2, DSL) | LHD1 | 4 | 5.3 | 5.3 | 4.5 | 0.7 | 0.0 | 1 | 2.74 | 0.0 | 0.00 | 0.000 | 1.93E-01 | 0.001 | 0.00 | 0.000 | 0.00 | 0.000 | 3.34E-02 | 0.000 | 1.20E-02 | 0.000 | 7.64E-02 | 0.001 | 3.19E-02 | 0.000 | 0.003 | 0.000 | 0.056 | 0.001 | 7.69E-02 | 0.001 | 8.98E-03 1E- |
| ractor Trailer Delivery (DSL) | T7 CAIRP | 1 | 1.3 | 1.3 | 1.1 | 0.2 | 0.0 | 1 | 2.30 | 0.0 | 2.23 | 0.005 | 2.10E-02 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 3.09E-02 | 0.000 | 3.60E-02 | 0.000 | 6.17E-02 | 0.000 | 2.96E-02 | 0.000 | 0.009 | 0.000 | 0.026 | 0.000 | 1.95E-01 | 0.001 | 1.19E-02 3E- |
| ractor Trailer RNG 4 trips/mo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | , | |
| arpool Vehicles (2, Gas) | LDT1 | 2 | 2.6 | 2.6 | 2.3 | 0.4 | 0.0 | 1 | 0.05 | 0.0 | 0.23 | 0.001 | 1.13E-02 | 0.000 | 0.30 | 0.001 | 0.63 | 0.003 | 1.48E-03 | 0.000 | 8.00E-03 | 0.000 | 3.68E-02 | 0.000 | 1.36E-03 | 0.000 | 0.002 | 0.000 | 0.016 | 0.000 | 7.08E-01 | 0.004 | 2.81E-03 2E- |
| otals | | | | 55 | 47.7 | 8 | 0 | | | 0.187 | | 0.102 | | 0.007 | | 0.001 | | 0.003 | | 0.002 | | 0.002 | | 0.014 | | 0.002 | | 0.039 | | 0.004 | | 0.037 | 0.0 |
| rorated by Mile | | | | | | | | | | 3.38E-03 | | 1.84E-03 | | 1.35E-04 | | 2.40E-05 | | 5.01E-05 | | 3.87E-05 | | 2.73E-05 | | 2.55E-04 | | 3.70E-05 | | 6.97E-04 | | 6.47E-05 | | 6.77E-04 | 1.16 |

JSRL DEIR Appendix B Attachment O2

Lawrence & Associates Page 1 of 6

Notes:

1: The values for ROG and CO from the flare represent the detection limit. The actual value will be lower.

2: Described as VOC in CEQA Guidelines (Assume ROG is synonymous)

3: Described as NO_X as NO₂ in CEQA Guidelines. Assume all NO_X is NO₂ for this analysis.

4: Describes as SO_X as SO₂ in CEQA Guidelines. Assume all SO_X is SO₂ for this analysis.

| T-LL- 02 12 V-L:-L- | W-1-14 4 | (| a : a A |
|---------------------|-----------------|-----------------------|---------------------|
| Table O3.13 Vehicle | weight Assumpti | ons (assumes tutt toa | a in ana empty out) |

| Category | Type | Percent | GVW, lb | NVW, Ib | Average, lb | Av Tons |
|--|------------------------|---------|---------|---------|------------------|---------|
| Small Vehicle (Public /Self Haul) | Ford F250 Gross Weight | NA | 9,900 | 7,700 | 8,800 | 4.4 |
| In County Commercial | Garbage Truck | NA | 51,000 | 31,000 | 41,000 | 20.5 |
| Out of County Commercial | Waste Transfer Truck | NA | 75,000 | 33,000 | 54,000 | 27.0 |
| Support Vehicles For Construction | | | | | | |
| Average of: | Miles | | | | | |
| Ford Mechanic Truck (DSL) | 2 | 5% | 14,000 | 8,600 | 11,300 | 5.7 |
| Ford F450 Flat Bed (DSL) | 1 | 2% | 14,000 | 8,600 | 11,300 | 5.7 |
| Water Truck (DSL), 4,000 gal | 32 | 76% | 63,000 | 29500 | 46,250 | 23.1 |
| Support Light Heavy Duty Trucks (2, DSL) | 4 | 10% | 14,000 | 8,600 | 11,300 | 5.7 |
| Tractor Trailer Delivery (DSL) | 1 | 2% | 75,000 | 33,000 | 54,000 | 37.5 |
| Carpool Vehicles (2, Gas) | 2 | 5% | 51,000 | 31,000 | 41,000 | 25.5 |
| Total | 42 | | | | Weighted Average | 20.7 |
| Off Road Dump | CAT 740 | NA | 162,399 | 78,632 | 120,516 | 60.3 |

GVW: Gross vehicle weight including load
NVWL Net vehicle weight or:"curb weight" without load
Source:
US. EPA, Fifth Edition AP-42, Section 13.2.

Grading Equipment Passes Use for graders, loaders, rubber tired dozers, and scrapers to scrape or push soil

 $EF_{PM15}=0.051~x~(S)^{2.0},$ and $EF_{PM10}=EF_{PM15}~x~F_{PM10}$. Used for PM_{10}

 $\mathrm{EF_{TSP}}$ - 0.4 x (S) $^{2.5}$, and $\mathrm{EF}_{\mathrm{PM2.5}}$ = $\mathrm{EF_{TSP}}$ x $\mathrm{F_{PM2.5}}$, Used for $\mathrm{PM_{2.5}}$

Source: CalEEMod 2020.4.0, Appendix A Page 8

| EF = emissions factor (lb/VMT) | | | Typical grading areas | Acres per day |
|--|-----------------|------|--------------------------|---------------|
| S = mean vehicle speed (mph) | AP-42 Default = | 7.1 | Crawler Tractors (Dozer) | 0.5 |
| $F_{PM2.5} = PM_{2.5}$ scaling factor. | AP-42 Default = | 0.03 | Graders | 0.5 |
| F _{PM10} = PM ₁₀ scaling factor. | AP-42 Default = | 0.6 | Rubber -Tired Dozers | 0.5 |
| | | | C | 1 |

1.543 lb/VMT 0.227 lb/VMT

JSRL DEIR Appendix B Page 5 of 6



Technical Memo John Smith Road Landfill Imported Water Needs

Revised July 12, 2022

Introduction

John Smith Road Landfill (JSRL or "Landfill") does not have a piped water supply from a public water system, and as described below, the landfill is sited on bedrock that does not produce significant amounts of groundwater. Therefore, the Landfill currently obtains water for domestic uses (*e.g.*, flushing toilets), dust control, and construction water from a fire hydrant, owned by Sunnyslope Water District (the District), approximately 3 miles from the landfill.¹ The water is transported to the Landfill via water trucks. Because the Landfill operator, Waste Solutions Group of San Benito, Inc. (WSG), and the Owner, San Benito County, are proposing an expansion that would provide an estimated additional 65 years of site life, WSG requested that Lawrence & Associates (L&A) prepare this memo describing the existing and potential future on-site surface water storage and associated needs for imported water.

This memo is not intended to describe the source of the imported water; only the potential short term pumping rate and long-term frequency of water import based on the modeled assumptions below.

Water Requirements

Landfill Needs - General

In a technical memo dated July 8, 2022, L&A described the current and future water needs for the Landfill (aka *Water-Use Memo*).² Water use for domestic purposes is negligible in comparison to dust control for operation of the Landfill. As described in the memo, as the Landfill expands, the length of onsite roads and areas of unloading pads will increase, thereby requiring more water for dust control. This increase in water demand for dust control will be partially offset by increasing the length of paved roads and reducing the traffic that leaves the

3590 Iron Court • Shasta Lake, California 96019 • (530) 275-4800 • fax (530) 275-7970 • <u>www.lwrnc.com</u>

¹ Bottled water is used for drinking.

² Lawrence & Associates, July 8, 2022, Technical Memo, John Smith Road Landfill, Long-Term Water Use.

entrance area and travels to the tipping face. Water usage for dust control is highest during the summer and lowest during the winter.

Additionally, water will be required for dust control and soil moisture conditioning for lined Landfill module construction projects on average every two years and partial final closure projects every 5 to 10 years. Most construction water would be used during the bulk excavation phase in later spring and early summer. In addition, the construction of the new entrance would be performed near the beginning of the Landfill expansion.

Landfill Need Short-Term

Table 1 summarizes modeled project needs, for the purposes of sizing a water source such as a well. Over the life of the Landfill, the operations water will be more or less for a given year. Table 1 also shows the water needs for module construction projects that would be in addition to the water for daily landfill operations. The peak construction water flow in gpm is based on the peak day during the bulk excavation phase of construction (57 gpm for an 8-hour day). During simultaneous landfill operation and construction, a water source, such as a well would need to provide the sum of the operations water demand and construction water demand for a limited period of time (typically two months) during peak construction water use.

Table 1 - Summary of Typical Annual Water Needs³

| Season | Future Operations Approx. Water Truck Loads per Day ¹ | Future Operations Approx. gpd | Operations Water Demand for 8-Hour Day, gpm | Peak Const. Water Loads per Day ¹ | Peak Const. Water Demand, gpd ² | Peak Const. Water Demand for 8-Hour Day, gpm ² | Average Const. Water Demand, gpd ² |
|-------------------|--|--|---|--|--|---|---|
| Spring (March- | | ., | • 7 | • | 700^{3} , | V / // | 500^{3} |
| May) | 3 | 12,100 | 25 | $0.2^3 (8^4)$ | $(27,400^4)$ | $1.4^3 (57^4)$ | $(16,800^4)$ |
| Summer (June- | | | | | | | 16,8005 |
| August | 8 | 28,300 | 59 | 8 | $27,400^{5}$ | 57 | $(7,400^6)$ |
| Fall (September - | | | | | | | $7,400^{8}$ |
| November) | 3 | 12,100 | 25 | 6^{7} | $21,600^7$ | 12 | $(5,600^9)$ |
| Winter (December | | | | | | | |
| - February) | 1 | 4,000 | 8 | 0 | 0 | 0 | 0 |

Notes:

- 1. Assuming 3,600 gallons per load (rounded to even truck load).
- 2. Generally every other year, rounded.
- 3. Typically prior to April 15.
- 4. Typically occurs after April 15.
- 5. Typically occurs prior to July 15.
- 6. Typically occurs after July 15.
- 7. Typically occurs prior to September 15.
- 8. Typically occurs prior to September 15.
- 9. Typically occurs after September 15.

³ Adapted from Water Use Memo.

If a single water well were used to pump water for an 8-hour day, the required flow for operation would range from 8 gpm during the winter to 59 gpm during the summer, assuming that a storage tank is provided that slowly fills and then quickly discharges into water trucks (*e.g.*, a "stand" tank). With additional storage volume, a well would pump at 1/3 the flow over a 24-hour period (3 gpm to 20 gpm). During water usage for construction project, another 57 gpm would be required for an 8-hour day (19 gpm over 24-hours), for a total of 116 gpm for several months every other year. It is possible for multiple water sources to be used to provide the peak flow (such as a combination of pond water and well water).

The average daily construction water use varies with construction phase and, on average, is significantly less than the peak water requirement. Average daily construction water use was used for modeling pond storage as described below.

Landfill Needs - Long Term

For operations, the proposed project would require, an average of 5.3 million gallons per year (16.14 acre-feet per year), with an additional 2.2 million gallons (6.64 acre-feet) during construction years (total of 7.5 million gallons or 22.78 acre feet during a construction year). The need would be less in some years and more in others based on weather and the length and type of roads at any given point during the site life.⁴

Potential Composting Facility

As a potential project alternative, a composting facility capable of 40,349 tons per year is being evaluated. According to the California Air Resources Board (CARB, 2019) a conventional windrow composting facility requires 250 gallons per ton of feedstock,⁵ while a covered aerated static pile (CASP) requires approximately half the feedstock weight in water (117 gallons per ton)⁶ or less (50 gpm/ton⁷to 100 gpm/ton.⁸) Based on previous tonnage and anticipated population growth, between approximately 30,800 tons per year 40,400 tons per year would be composted and the facility would require between 7.2 and 9.5 million gallons (22 and 29 acrefeet) per year for a windrow facility or between 3.3 and 3.9 million gallons or less (10 to 13 acrefeet) per year for a CASP.⁹ Some of the water may be obtained from the stormwater retention

⁴ Lawrence & Associates, July 8, 2022, Technical Memo, John Smith Road Landfill, Long-Term Water Use.

⁵ California Air Resources Board, May 2017, Method for Estimating Greenhouse Gas Emission Reductions from Diversion of Organic Waste from Landfills to Compost Facilities. Page 11.

⁶ https://compostsystems.com/water-required-for-composting/. (Assumed to mean tons of water per tons of feed stock converted to gallons - Referenced total assumed to be incorrect. It would be 0.4 gallons per ton).

San Joaquin County, May 4, 2015, Greenwaste Compost Site Emissions Reductions from Solar Powered Aeration and Biofilter Layer. Table Two ~ 50 gal/ton for active phase CASP in Tulare County – does not include other water uses.

⁸ California Regional Water Quality Control Board, Colorado River Basin Region, Order No. R7-2002-0010, Waste Discharge Requirements for Desert Solutions, Inc. Finding 20, maximum of 100 gallons per ton of feedstock for aerated static pile method. "Additional water will be used for dust control."

⁹ Ranging from 24 gpm to 35 gpm for an 8-hour day.

basin dedicated to the compost facility. Water from the basin would typically be used only to inoculate the feed stock and wet piles prior to their pathogen-reduction phase. Clean water is typically required for subsequent compost processing and dust control. As described in a technical memo describing a potential composting facility, based on an average rainfall year, approximately 92% of the water would be imported from off-site sources and approximately 8% would be obtained from the stormwater basin. More imported water would be required during dry years, and because of limited needs for compost-basin water, the need for imported water during a wet year would be similar to non-wet years.¹⁰

Stored Surface Water Source

Modeled Stored Surface Water Supply

Included in the project description for the landfill expansion are both permanent and temporary stormwater basins located throughout the site. As shown on **Figure 1**, during initial expansion of the Landfill (either during construction of the first module or landfill entrance whichever is sooner), stormwater basins 2 and 3 located near the southwest corner of the project are projected to provide 31 acre-feet of storage and would collect stormwater throughout the life of the landfill. Temporary basins in Phases 2A and 2B would provide approximately 12 acre-feet and 20 acre-feet of water storage, respectively. They would eventually be filled with waste and it is assumed that temporary basins in Phases 3A and 3B would replace them (not shown on **Figure 1**). Permanent stormwater basins 5, 6, and 7 will be added either during construction of Phases 3A and/or 3B, or earlier, if needed to replace the temporary basins to provide adequate storage. Based on preliminary design, the Lima stockpile basins and basins 5 through 6 provide approximately 31 acre feet of water storage. For the purposes of modeling, it is assumed that all of the basins described for water storage will be lined to prevent seepage. All basins will be designed to fall below division of dam safety regulatory standards. Described to the standards of the basins will be designed to fall below division of dam safety regulatory standards.

Based on the flow requirements for the Landfill, L&A developed a 12-year water balance model (including drought years) describing collected water versus water use. The model assumes annual operations water use, plus construction water use every other year with a construction project falling on a dry year. **Attachment A** describes modeling; the results are summarized below.

The model assumes that permanent Basins 2 and 3 (total of 31 acre-feet, **Figure 1**) would be lined with geosynthetic liners to prevent seepage of collected stormwater to groundwater and would have a drainage area of approximately 46 acres (including pumping from Basin 1 into

¹⁰ Lawrence & Associates, June 15, 2022, Technical Memo, *John Smith Road Landfill Composting Alternative*.

¹¹ Based on conceptual design for modeling purposes.

Less than 50 acre feet of storage for a dam height less than 25 feet tall measured at the spillway crest, or greater than 50 acre-feet for a dam 6-feet tall or less, or a dam greater than 25-feet tall with a storage capacity of less than 15 acre feet.

Basin 2 or 3). In addition,12-acre-foot Phase 2A temporary basin and the 20-acre-foot Phase 2B temporary basin would be lined and would have 45 to 50 acres of drainage area.

As the landfill expands, the requirement for 32 acre-feet of temporary and/or permanent storage (in addition to the permanent stormwater Basins 2 and 3) would be required. As the Phase 2A Landfill is filled and the temporary Phase 2A basin is consumed, additional storage equal to that lost to landfilling would be developed in Phase 3 area as described above. Based on the 31 acrefeet in basins Lima Stockpile, 5, 6, and 7, (slightly less than the 32 acres modeled) slightly more imported water than described below may be required during filling of the last module. After closure, there would be no requirement for operations water and there should be suitable water for closure cap construction.

Assuming the above conditions and all basins being uncovered, during consecutive average rainfall years (13 inches of rain) there would be sufficient water for operations and construction (excluding composting) for all of the year. During an average rainfall year following a dry year (5 to 7 inches of rain), approximately 13 acre-feet of imported water would be required.

As shown on Table 4 of the attached memo, during drought years (5 to 7 inches of rain) when construction occurs, water would need to be imported for roughly 60% of the year in the amount of approximately 20 acre-feet per year (this would occur during the summer and fall). Based on the 12-year period analyzed, conditions with some import being required during a construction year with average water use would occur roughly three years out of 12 (odds of being needed one in every 4 years) with approximately 60% of the water being imported. During back-to back drought years, with a non-construction year following a construction drought year, the odds of requiring imported water would be 4 out of 12 years (one in three) with most of the operations water being imported. During periods of maximum operational water use, water would be imported more frequently. During periods of minimum use the odds of importing water would be lower (not modeled).

If all of the lined stormwater basins are covered with a floating geosynthetic cover to reduce evaporation (by 95%), during a drought year (5 to 7 inches of rain), there would be sufficient water for operations and construction (excluding composting) for all of the year.¹³

If only selected basins are covered, water would need to be imported proportionally to the amount of basin surface covered. If only permanent Basins 2 and 3 are covered, the odds of requiring imported water during a drought construction year would be 1 in 12 for either average use or maximum use with minimal imported water.

Shalaby, Maram M., et al. February 7, 2021. Effects of Continuous Module Floating Covers on Evaporation Losses and Microalgal Growth.

If the volume of the temporary basins is less or the basins are lined with clay instead of a geosynthetic, the frequency and volume of water import would be more.

The ponds would not have sufficient capacity to support the additional needs of a compost facility without the number of days requiring imported water increasing significantly. The analysis does not assume that leachate or condensate would be used to offset water use.

Unless a domestic well is installed, a relatively small quantity of clean water (one load every few days) from the District would be imported rather than using potentially turbid stormwater for domestic non-potable uses (*e.g.*, sinks and toilets).

First Several Years

As described above, Basins 2 and 3 would be installed either during the entrance construction or construction of first lined module in the expansion area. The Phase 2A temporary lined basin would be installed during construction of the first lined module. The Phase 2B basin may be implemented during the first module construction or soon thereafter. As described in the July 8 memo describing water needs, because road lengths will be shorter during initial expansion, the water needs are anticipated to be less than the projected long-term average. If In addition, the estimated average described in the memo may overestimate the actual needs. However, prior to construction of basins 2 and 3 all of the water for operations and construction must be imported. Prior to construction of the temporary basins in Phases 2A and 2B, if installed in a separate year following permanent Basins 3 and 4, more imported water will be required than predicted by than the model.

Operational Alternatives

The above model describes water that can be supplied from onsite stormwater basins based on assumptions intended to optimize water storage (e.g., geomembrane-lined basins). Assuming a suitable off-site water source is available, the operator may elect to construct some or all of the of the basins with clay liners, install fewer basins and import more water, add floating covers, and/or implement water conservation methods (such a use of dust palliatives) to reduce water use.

Summary

Table 1, above, describes the required approximate flow from a well or other water source. When only operation is occurring approximately 59 gpm would be required over an average 8-hour day during the summer. On some days, the flow will be more and on others less depending on weather, traffic, and on-site road distances. During the peak period of use (bulk excavation

¹⁴ Lawrence & Associates, June 22, 2022, Technical Memo, John Smith Road Landfill, Long-Term Water Use.

phase) another 57 gpm would be required during a peak-use 8-hour period. During other phases of construction, the water use would typically be less.

Between approval of the expansion, and construction of Basins 2 and 3, the imported water quantity would be similar to current (2021) water use of 2.44 million gallons (7.5 acre-feet) per year plus approximately 2.2 million gallons (6.64 acre feet) per year for construction of the entrance area and first module (each).

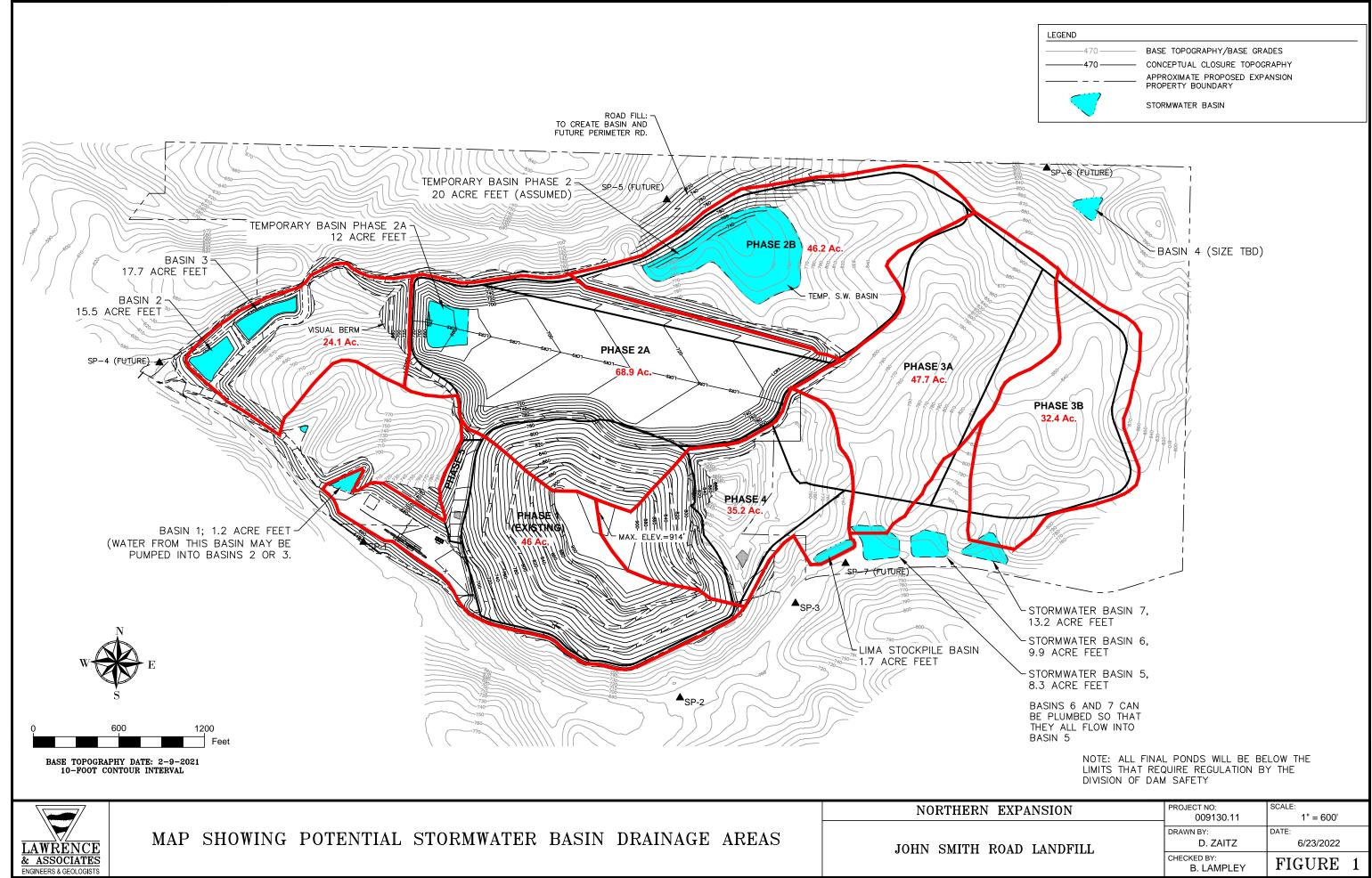
Once the basins described above are constructed, assuming lined but uncovered basins during consecutive average or wet years, no additional water would need to be imported during the late summer and fall months, during either construction or non-construction years. During drought years, approximately 20 acre-feet would need to be imported during the summer and fall months.

Assuming the basins are lined and have a floating cover to reduce evaporation, during drought no additional water would need to be imported during the summer and fall months, during either construction or non-construction years.

Assuming a suitable off-site supply is available, the Landfill operator may elect to use an alternative combination of basin features and sizes and import more or less water.

Attachments

Figure 1. Map showing Potential Stormwater Basin Drainage Areas Attachment A. Hydraulic Operation of Western Basins #2 and #3





Technical Memo John Smith Road Landfill Hydraulic Operation of Western Basins #2 & #3 and Temporary Basin July 11, 2022

INTRODUCTION

This letter presents a technical memo describing the hydraulic operation of proposed stormwater basins at the expanded John Smith Road Landfill (JSRL). The operation of the basins was simulated using a spreadsheet model. The model calculates daily depth, area, and volume of water in three proposed stormwater basins - Western Basins #2 and #3, and an additional basin that would be similar in size and volume to the proposed Phase 2B Temporary Basin (see **Figure 2** of the Site Water Use Memo, described below). The purpose of the model is to evaluate whether retained stormwater and rainfall would be of sufficient volume to provide site-use water (mainly for dust control and construction uses) year-round, and, if not, how many days per year water would not be available from the basins.

RUNOFF & BASIN MODEL

INPUT VARIABLES

The model calculates the stage and volume of a basin on a daily basis, accounting for inflow (from precipitation and stormwater runoff, in this case) and outflow (evaporation and use of water for site activities). L&A obtained input data from the following:

- Precipitation from station Hollister 2.1 ESE, Applied Climate Information System; https://scacis.rcc-acis.org/;
- Evapotranspiration from station Gilroy, California Irrigation Information Management System; https://www.cimis.water.ca.gov/Default.aspx;
- Site water use from L&A, April 2022, *Technical Memo, John Smith Road Landfill, Long-Term Water Use.*
- Basin characteristics from L&A, November 2021, Design Basis Report for the John Smith Road Landfill Expansion, San Benito County, California.

For the modeling period, we used data from October 1, 2009 through April 13, 2022 because that is the period for which data is available for the Hollister station. This period includes the most recent period of drought conditions, making it conservative for estimating whether site-use water would be available during a drought.

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The evaporation data is in the form of Reference Evapotranspiration (ETo), a CIMIS term equivalent to the Department of Water Resources term Potential Evapotranspiration. ETo is converted to Pan Evaporation (a commonly measured parameter) by dividing by 0.76. Pan evaporation is usually converted to actual evaporation (*e.g.*, in a large water body) by multiplying by 0.75. Because these two factors cancel each other out, we used the ETo values directly from the CIMIS database.

Because runoff to the basins will be predominantly from bare soil, some infiltration will occur. To account for infiltration, the runoff coefficient (C) was assumed to be 0.5. That is, 50% of the rainfall will run off. The stormwater runoff calculated by the model applies the C factor to the net precipitation (rainfall less evapotranspiration) that falls on the runoff area (the runoff area is all of the drainage area except for the area of the basin itself).

Because low intensity rainfall on relatively dry soil typically does not produce any runoff at all, the model was set so that storms with less than 0.1 inches (0.008 feet) in 24 hours did not produce runoff, unless they occurred within 2 days after a storm event exceeding 0.1 inches.

L&A evaluated site water use and presented the results in the water-use technical memo referenced on page 1, herein. Based on these data, we used the following values for water use in the model:

Table 1. Water-Use

| NON-CONSTRUCTION YEARS (GPD) | | | | | | | | |
|--|---------|---------|---------|--|--|--|--|--|
| | AVERAGE | MINIMUM | MAXIMUM | | | | | |
| Spring (March-May) | 12,100 | 9,680 | 13,310 | | | | | |
| Summer (June-August) | 28,750 | 23,000 | 31,625 | | | | | |
| Fall (September -November) | 13,000 | 10,400 | 14,300 | | | | | |
| Winter (December - February) | 4,000 | 3,200 | 4,400 | | | | | |
| CONSTRUCTION YEARS (EVERY OTHER YEAR)(GPD) | | | | | | | | |
| | AVERAGE | | | | | | | |
| March | 450 | | | | | | | |
| April - June | 17,000 | | | | | | | |
| July - August | 7,400 | | | | | | | |
| September - October | 5,700 | | | | | | | |

Differences between daily water use in this table vs. the Water-Needs Memo (L&A, June 22, 2022, *Technical Memo John Smith Road Landfill, Long-Term Water Use*) reflect the use of slightly different time periods and rounding effects. Where values differ, the values used in the model are higher to be conservative.

These values were applied to each day of the model, weekends included, but not on days when there was more than 0.1 inches of rain, under the assumption that dust-suppression would not be needed on those days.

Three water-use scenarios were evaluated – minimum, average, and maximum. The difference between each reflects the length of roads and other factors that change over the life of the landfill

that could increase or decrease the volume of site-use water needed. These are described in detail in the site water-use technical memo.

Using the variables described above, the model calculates a basin's volume, depth, and area on a daily basis. **Table 2** shows the output columns for the model, with descriptions of each. **Table 3** shows the basin characteristics, and the equations used to describe the basin geometry. **Table 4** shows the annual precipitation and evaporation the model used.

| | Table 2. Model Output Columns & Logic | | | | | | |
|------------------------------|--|----------------|--|--|--|--|--|
| Category | Parameter | Units | Description | | | | |
| Beginning | Beginning Volume of Water in Basin | acre-feet | Each day starts with the previous day's ending volume; model began with 1 AF in each basin. | | | | |
| Values | Beginning Basin Area | acres | Each day starts with the previous day's ending surface area of water. If basin is dry, area = area of basin bottom. | | | | |
| | Direct Precipitation on Basin | acre-feet /day | Daily precipitation from historical record × maximum (total) basin area. | | | | |
| Inflow | Stormwater Runoff | acre-feet /day | If daily net precipitation (rain - ETo) = 0, then no runoff. If net precipitation <0.1", then no runoff unless there was >0.1" net precipitation in the previous 2 days. | | | | |
| | nanon | | The drainage areas were as follows: 22 acres pumped to W. Basin #2, 24 acres to W. Basin #3, and 50 acres to Additional Basin. | | | | |
| | Total Inflow | acre-feet /day | Sum of Direct Precipitation on Basin + Stormwater Runoff. | | | | |
| | Intermediate Theoretical Volume | acre-feet | Intermediate calculations of volume, depth, and | | | | |
| Intermediate Calculations | Intermediate Theoretical Depth | feet | area are made to check whether basin has theoretically "overflowed". Volume = Beginning Volume + Inflow. Depth and Area calculated using | | | | |
| | Intermediate Theoretical Area | acres | depth-volume and area-volume equations that describe basin. | | | | |
| Outflow | Leakage | acre-feet /day | No leakage is assumed because the basins will be lined. | | | | |
| | Site Water Use | acre-feet /day | Dust control & construction as described on page 2; construction water use occurred every other year. | | | | |
| | | | Site water use was divided between the basins to maximize volume available for site use. | | | | |

| | Table 2. Model Output Columns & Logic | | | | | | |
|--------------|---------------------------------------|----------------|--|--|--|--|--|
| Category | Parameter | Units | Description | | | | |
| | Evaporation (basin only) | acre-feet /day | Evaporation set to 95% of observed values when assuming covered basins; observed values when basins uncovered. | | | | |
| | Total Outflow | acre-feet /day | Sum of leakage, site water use, and evaporation. | | | | |
| Final | Final Volume of Water | acre-feet | Intermediate volume - total outflow: If <0, then basin is empty. If >maximum possible volume, then = maximum volume. Otherwise, equals intermediate volume - outflow. | | | | |
| Calculations | Calculated Final Depth | feet | Calculated from Final Volume using volume-depth equation (see Table 3). | | | | |
| | Final Area | acres | Calculated from Final Volume using volume-area equation (see Table 3). | | | | |
| Spill Volume | Spill | acre-feet | If intermediate volume - outflow < 0, then no spill. If intermediate volume - outflow < max. basin volume, then no spill, else intermediate vol outflow - max. basin volume. | | | | |
| | | | W. Basin #3 received spill from Additional Basin and W. Basin #2 received spill from W. Basin #3. | | | | |

| Table 3. Precipitation & Evaporation | | | | | | | |
|--------------------------------------|-------------------------|-----------------------------|--|--|--|--|--|
| Water Year | Annual Rain (inches) | Annual Evaporation (inches) | | | | | |
| 2010 | 17.07 | 44.28 | | | | | |
| 2011 | 15.34 | 47.66 | | | | | |
| 2012 | 9.46 | 51.44 | | | | | |
| 2013 | 9.83 | 55.96 | | | | | |
| 2014 | 5.41 | 54.88 | | | | | |
| 2015 | 11.91 | 52.27 | | | | | |
| 2016 | 15.19 | 53.80 | | | | | |
| 2017 | 17.76 | 50.85 | | | | | |
| 2018 | 9.47 | 52.95 | | | | | |
| 2019 | 17.08 | 52.16 | | | | | |
| 2020 | 12.27 | 55.68 | | | | | |
| 2021 | 6.98 | 57.29 | | | | | |

Western Basin #3 **Temporary Basin** Western Basin #2 Assumed depth (feet):A 28 Assumed depth (feet): 28 Assumed depth (feet): 14 Calculated area (acres): 1.16 1.16 Calculated area (acres): 5.74 Calculated area (acres): Outer sides (feet): 225 225 Outer sides (feet): 225 225 Outer sides (feet): 500 500 Bottom sides (feet): 214 214 Bottom sides (feet): 416 214 214 Bottom sides (feet):

Table 4. Basin Characteristics Used in Model

| Total volume | (AF): | 15.5 | Total volume | e (AF): | 15.5 | Total volume | (AF): | 33.8 |
|--------------|-----------------------|---------------|--|---------------------------------|--|------------------|-------|-----------|
| Depth | Area | Volume | Depth | Area | Volume | Depth | Area | Volume |
| feet | acres | acre-feet | feet | acres | acre-feet | feet | acres | acre-feet |
| 0 | 1.05 | 0.00 | 0 | 1.05 | 0.00 | 0 | 3.97 | 0.00 |
| 2 | 1.06 | 1.05 | 2 | 1.06 | 1.05 | 2 | 4.21 | 4.09 |
| 4 | 1.07 | 2.11 | 4 | 1.07 | 2.11 | 4 | 4.44 | 8.41 |
| 6 | 1.07 | 3.18 | 6 | 1.07 | 3.18 | 6 | 4.69 | 12.98 |
| 8 | 1.08 | 4.26 | 8 | 1.08 | 4.26 | 8 | 4.94 | 17.80 |
| 10 | 1.09 | 5.35 | 10 | 1.09 | 5.35 | 10 | 5.20 | 22.87 |
| 12 | 1.10 | 6.44 | 12 | 1.10 | 6.44 | 12 | 5.47 | 28.20 |
| 14 | 1.11 | 7.54 | 14 | 1.11 | 7.54 | 14 | 5.74 | 33.81 |
| 16 | 1.11 | 8.65 | 16 | 1.11 | 8.65 | | | |
| 18 | 1.12 | 9.77 | 18 | 1.12 | 9.77 | | | |
| 20 | 1.13 | 10.89 | 20 | 1.13 | 10.89 | | | |
| 22 | 1.14 | 12.02 | 22 | 1.14 | 12.02 | | | |
| 24 | 1.15 | 13.17 | 24 | 1.15 | 13.17 | | | |
| 26 | 1.15 | 14.32 | 26 | 1.15 | 14.32 | | | |
| 28 | 1.16 | 15.47 | 28 | 1.16 | 15.47 | | | |
| Area Eq'n.: | $y = -1E-05x^2 + 0.0$ | 075x + 1.0494 | + 1.0494 Area Eq'n.: y = -1E-05x² + 0.0075x + 1.0494 Area Eq'n.: y = -1E-03x | | $y = -1E-03x^2 + 0$ | 0.0569x + 3.9741 | | |
| Depth Eq'n.: | $y = -0.006x^2 + 1.9$ | 024x | Depth Eq'n.: | : y = -0.006x ² + 1. | 1.9024x Depth Eq'n.: $y = -2.3x^2 + 0.4911x$ | | 911x | |

Note A. Basins are below grade, final configuration will fall below the limits in Division of Dam Safety Regulations.

MODEL OUTPUT

Table 5 summarizes various scenarios of basin operation, from fully covered basins to wholly uncovered basins, in drought years and for average and maximum site water use. **Attachment A** shows graphs of each scenario. In each scenario, the percentage of water drawn from each basin was manually adjusted to generally minimize the amount of off-site water would be needed during a drought year. There may be other ways to operate the basins to reduce the amount of off-site water needed over time (*e.g.*, reduce the frequency at which off-site water is needed). The results as shown, however, will not underestimate the amount of off-site water needed.

The scenarios evaluated included construction both during even and odd years. Construction during even years includes 2014, the driest year in the model period. Construction during odd years includes 2013, a below-average precipitaton year that immediately preceding the driest year.

Table 5. Summary of Drought-Year Scenarios of Basin Operation and Frequency That Offsite Water Will be Needed in Any Year

| Drought Year 2014 - With Construction (Even Year Construction) | # of Days Off- Site Water Needed | GPM for 8 Hours | Total Gallons | Total Acre-Feet | Estimated Frequency that Some Offsite Water Will Be Needed in (Years) |
|---|---|--------------------|------------------|--------------------|---|
| Maximum Use - All Basins Covered | 0 | 0 | - | 0.0 | 0 out of 12 |
| Maximum Use - WB2 & WB3 Covered | 65 | 5 | 156,000 | 0.5 | 1 out of 12 |
| Maximum Use - Only WB2 Covered | 224 | 23 | 2,472,960 | 7.6 | 2 out of 12 |
| Maximum Use - All Basins Uncovered | 219 | 50 | 5,256,000 | 16.1 | 3 out of 12 |
| Average Use - All Basins Covered | 0 | 0 | - | 0.0 | 0 out of 12 |
| Average Use - WB2 & WB3 Covered | 3 | 39 | 56,160 | 0.2 | 1 out of 12 |
| Average Use - Only WB2 Covered | 149 | 25 | 1,788,000 | 5.5 | 2 out of 12 |
| Average Use - All Basins Uncovered | 213 | 45 | 4,600,800 | 14.1 | 3 out of 12 |
| Drought Year 2014 – No Construction - Shows Higher Need Because of Previous Dry Year (Odd Year Construction - 2013) | Number of Days Off-Site Water Needed | GPM for 8 Hours | Total Gallons | Total Acre-Feet | Estimated Frequency in Years |
| Maximum Use - All Basins Covered | 0 | 0 | - | 0.0 | 0 out of 12 |
| Maximum Use - WB2 & WB3 Covered | 81 | 32 | 1,244,160 | 3.8 | 1 out of 12 |
| Maximum Use - Only WB2 Covered | 209 | 39 | 3,912,480 | 12.0 | 3 out of 12 |
| Maximum Use - All Basins Uncovered | 219 | 54 | 5,676,480 | 17.4 | 5 out of 12 |
| Average Use - All Basins Covered | 0 | 0 | - | 0.0 | 0 out of 12 |
| Average Use - WB2 & WB3 Covered | 44 | 4.4 | 92,928 | 0.3 | 1 out of 12 |
| Average Use - Only WB2 Covered | 108 | 72 | 3,732,480 | 11.5 | 2 out of 12 |
| Average Use - All Basins Uncovered | 204 | 48 | 4,700,160 | 14.4 | 4 out of 12 |

Notes: WB2 & WB3 = Western Basin 2 & Western Basin 3.

If all basins are covered, no additional off-site water will be needed in any scenario.

Varying amounts of off-site water may need to be imported during drought years (5 to 7 inches of rain; represented by water year 2014 in the model) or in a dry year (approximately 9 inches of rain; represented by water year 2013 in the model) followed by a drought year, depending on how many basins are covered:

- If one basin is left uncovered (assumed to the Temporary Basin), up to approximately 5 acre-feet of water would need to be imported, for roughly 25% of the year.
- If two basins are left uncovered (assumed to be Western Basin #3 and the Temporary Basin), up to approximately 15 acre-feet of water would need to be imported, for roughly 60% of the year.
- If all basins are uncovered, during drought years, up to 24 acre-feet of water for operations and construction (if occurring) would need to be imported for roughly 60% of the year (during the summer and fall). This is almost all of the annual water needs as the minimal quantity of water collected during the winter would be lost to evaporation.
- Based on the 12-year period analyzed and if at least one basin is uncovered, conditions with some import being required would occur roughly once every five or six years.
- Back-to-back dry years will have an effect on the volume of water stored, because in average to above-average rainfall years, some storage is retained from year to year. In back-to-back dry years, there would not be as much stored water at the beginning of each season.

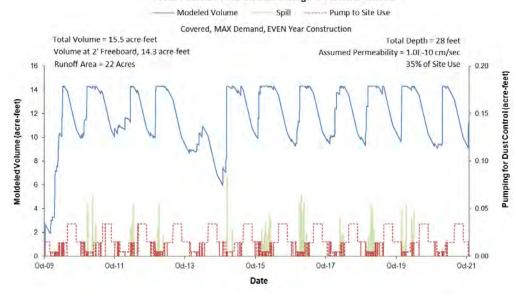
Assuming all basins are uncovered, off-site water may need to be imported during average years (11 to 12 inches), also, depending on the preceding year's rainfall.

- During consecutive average or above-average rainfall years, no additional water would need to be imported under any scenario. In the model, consecutive above-average to average years are represented by water-years 2019 and 2020.
- During an average year following a dry year, additional off-site water may be needed. In the model a dry to average period is represented by water years 2015 and 2015. In this case, approximately 4.2 million gallons (13 acre-feet) of water would need to be imported at the end of the construction season, from August 15 through November 15.

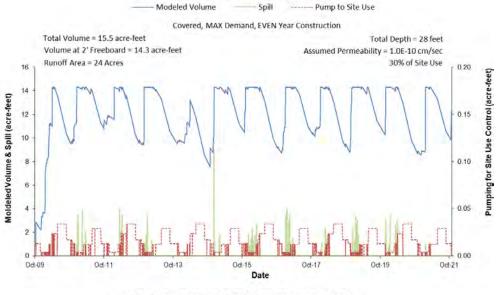
MODEL LIMITATIONS

Results from the model developed for this analysis are dependent on the input assumptions of conditions during the 12 years from 2009 through 2021. Future conditions may or may not be similar. Additionally, as mentioned above, actual operations of the ponds may vary from the assumptions used herein. Thus, the model results should be considered approximate and not wholly predictive.

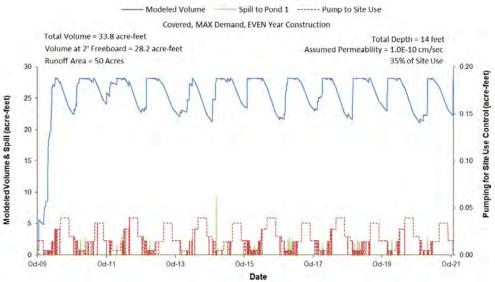
JSRL - Stormwate Pond Modeling - Western Basin #2





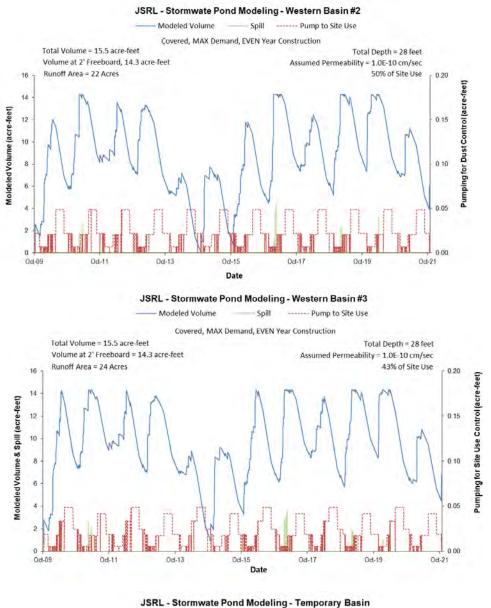


JSRL - Stormwate Pond Modeling - Temporary Basin



All basins covered, maximum demand, drought-year construction:

No off-site water needed.



Spill to Pond 1 ----- Pump to Site Use

Od-17

Total Depth = 14 feet

7% of Site Use

Assumed Permeability = 1.0E-10 cm/sec

Od-19

Uncovered, MAX Demand, EVEN Year Construction

Od-15

Date

Total Volume = 33.8 acre-feet

Runoff Area = 50 Acres

30

25

20

15

10

Od-09

Moldeled Volume & Spill (acre-feet)

Volume at 2' Freeboard = 28.2 acre-feet

Od-11

Od-13



Pumping for Site Use Control (acre-feet)

0.15

0.10

0.05

0.00

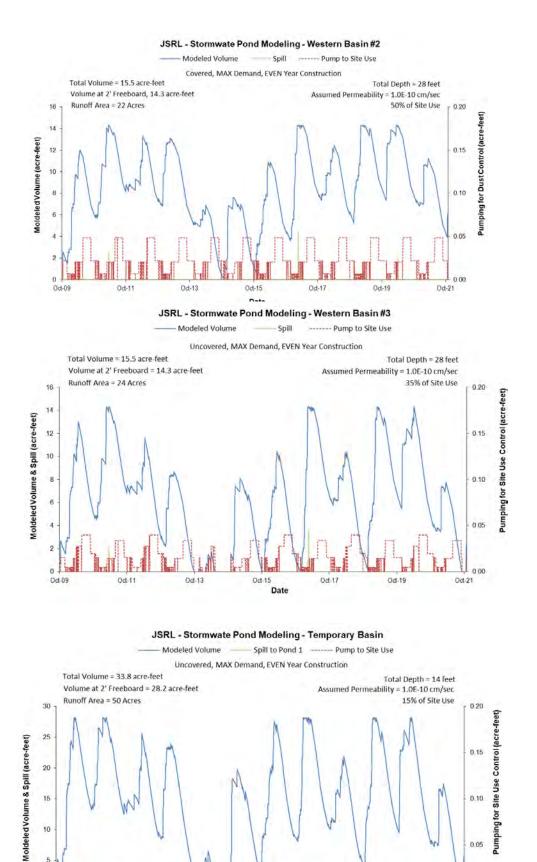
Od-21

WB2 & WB3 covered,
Temporary uncovered;
maximum demand,
drought-year construction:

Offsite demand:

65 days at 5 gpm; ~0.2M gallons/year.

May occur 1 out 12 years.



Oct-15

Date

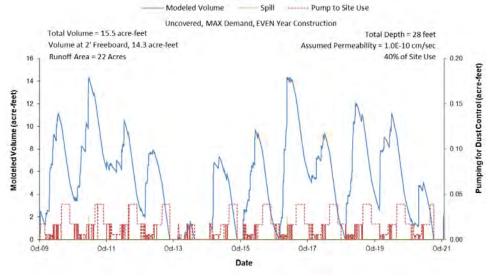
Oct-17

WB2 covered,
WB3 &
Temporary
uncovered;
maximum
demand,
drought-year
construction:

Offsite demand: for 224 days at 23 gpm; ~2.5M gallons/year.

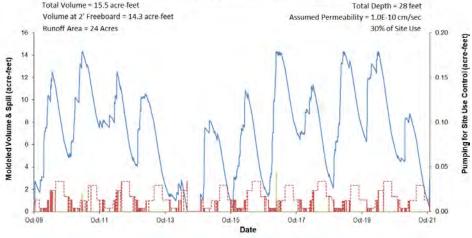
May occur 2 out of 12 years.



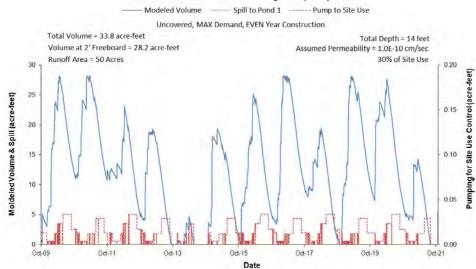


JSRL - Stormwate Pond Modeling - Western Basin #3 Spill ----- Pump to Site Use Modeled Volume





JSRL - Stormwate Pond Modeling - Temporary Basin

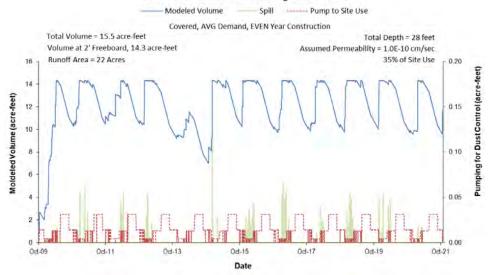


All basins uncovered; maximum demand, droughtyear construction:

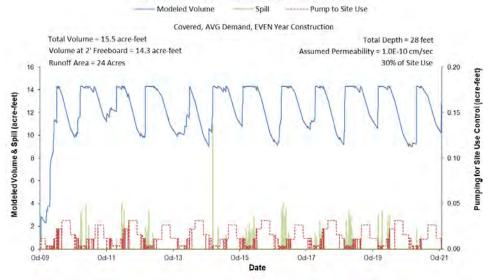
Offsite demand: 219 days at 50 gpm; ~5.3M gallons/year.

May occur in 3 out of 12 years.

JSRL - Stormwate Pond Modeling - Western Basin #2



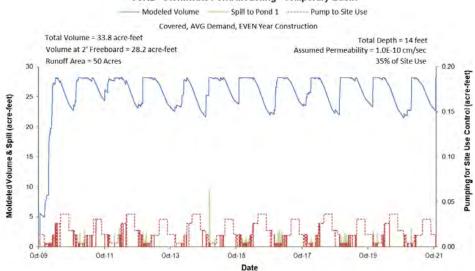
JSRL - Stormwate Pond Modeling - Western Basin #3



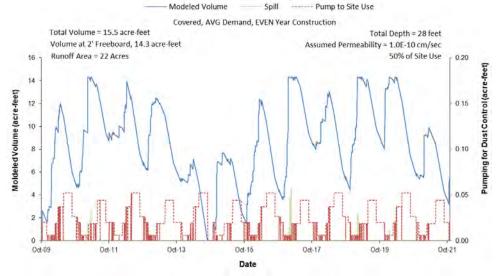
All basins covered, average demand, drought-year construction:

No off-site water needed.

JSRL - Stormwate Pond Modeling - Temporary Basin

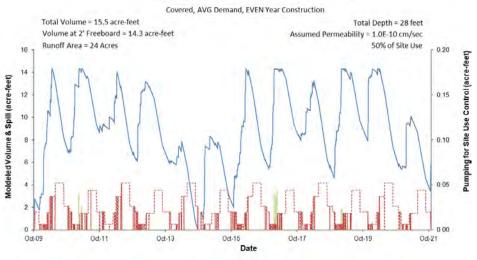




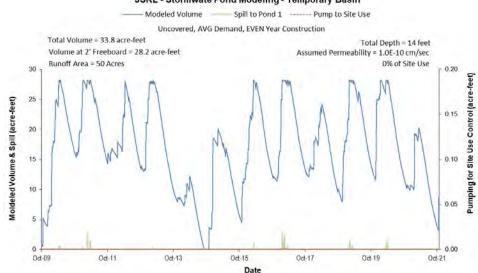


JSRL - Stormwate Pond Modeling - Western Basin #3





JSRL - Stormwate Pond Modeling - Temporary Basin

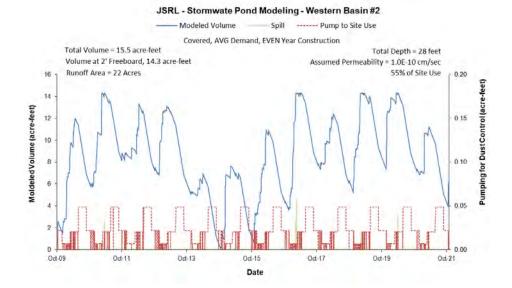


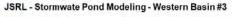
WB2 & WB3
covered,
Temporary
uncovered;
average
demand,
drought-year
construction:

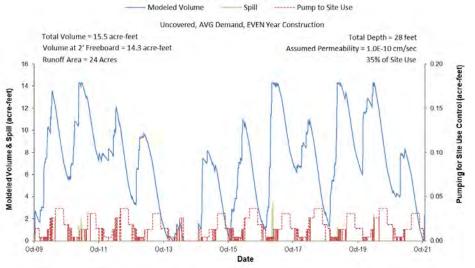
Offsite demand:

39 days at 3 gpm; ~0.06M gallons/year.

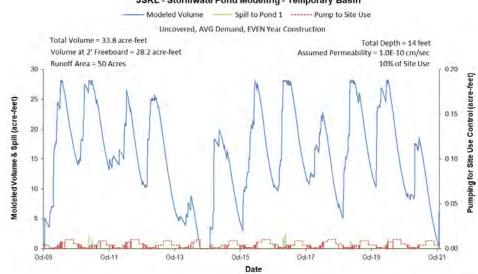
May occur 1 out 12 years.











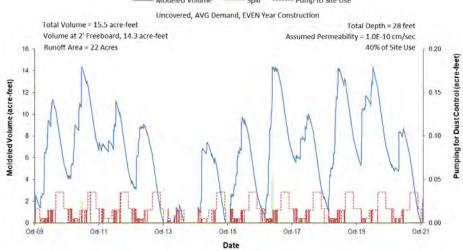
WB2 covered,
WB3 &
Temporary
uncovered;
average
demand,
drought-year
construction:

Offsite demand:

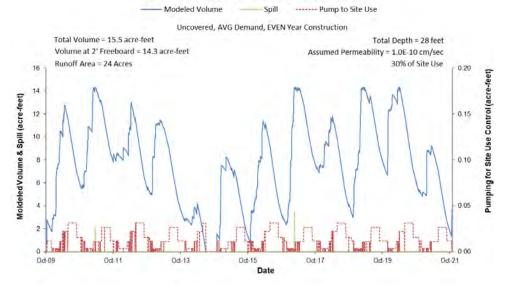
for 149 days at 25 gpm; ~1.8M gallons/year.

May occur 2 out of 12 years.

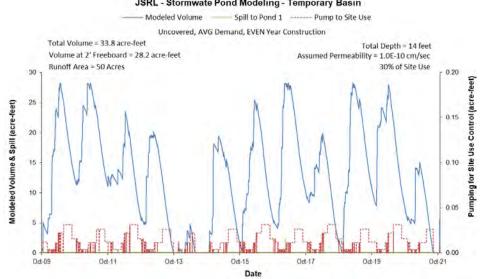




JSRL - Stormwate Pond Modeling - Western Basin #3



JSRL - Stormwate Pond Modeling - Temporary Basin



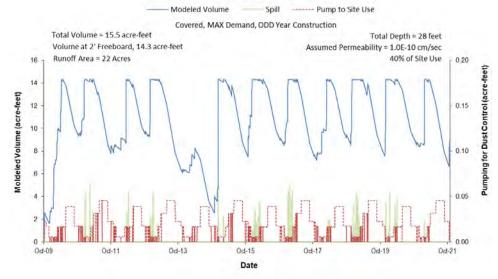
All basins uncovered; average demand, drought-year construction:

Offsite demand:

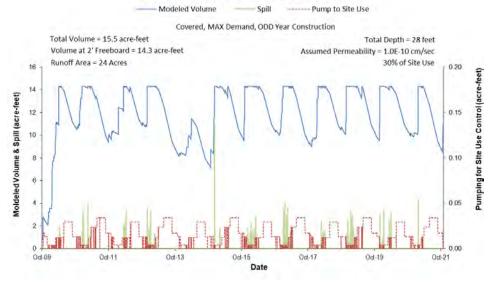
213 days at 45 gpm; ~4.6M gallons/year.

May occur in 3 out of 12 years.





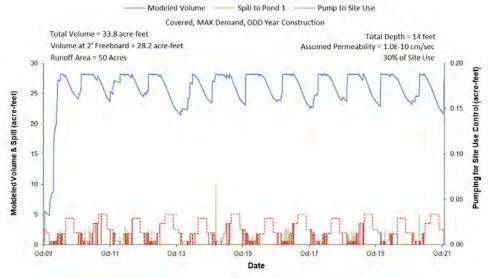
JSRL - Stormwate Pond Modeling - Western Basin #3



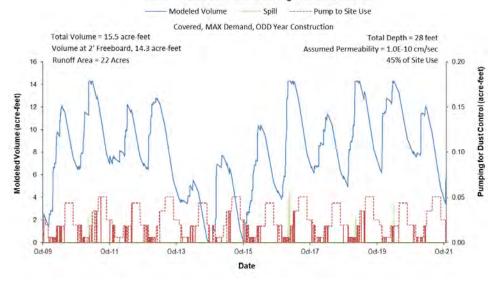
All basins covered, maximum demand, non-drought-year construction:

No off-site water needed.

JSRL - Stormwate Pond Modeling - Temporary Basin



JSRL - Stormwate Pond Modeling - Western Basin #2



JSRL - Stormwate Pond Modeling - Western Basin #3

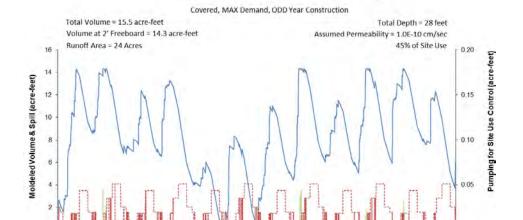
Spill

----- Pump to Site Use

Modeled Volume

Oct-13

Oct-11



JSRL - Stormwate Pond Modeling - Temporary Basin

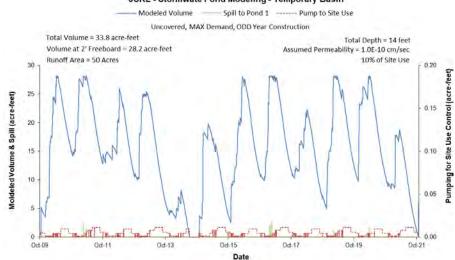
Date

Oct-17

Oct-19

Oct-21

Oct-15

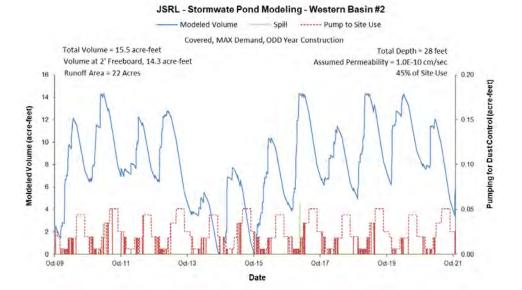


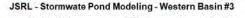
WB2 & WB3
covered,
Temporary
uncovered;
maximum
demand, nondrought-year
construction:

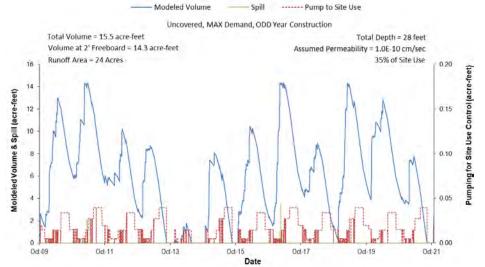
Offsite demand:

81 days at 32 gpm; ~1.2M gallons/year.

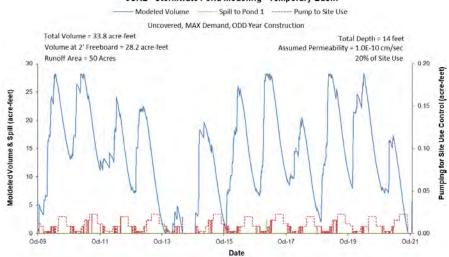
May occur 1 out 12 years.









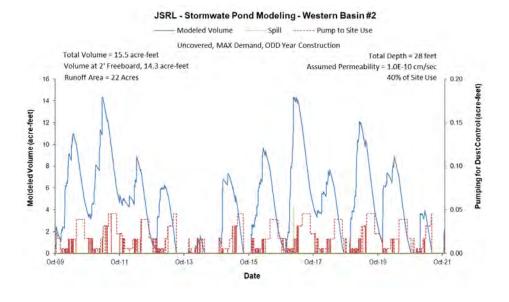


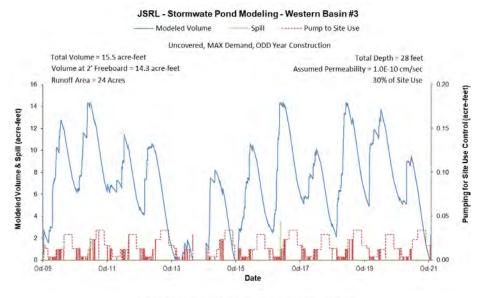
WB2 covered,
WB3 &
Temporary
uncovered;
maximum
demand, nondrought-year
construction:

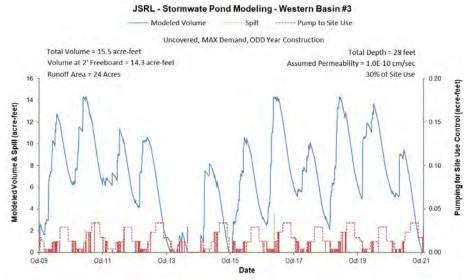
Offsite demand:

for 209 days at 39 gpm; ~3.9M gallons/year.

May occur 3 out of 12 years.





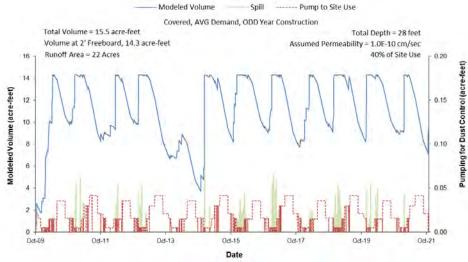


All basins uncovered; maximum demand, non-drought-year construction:

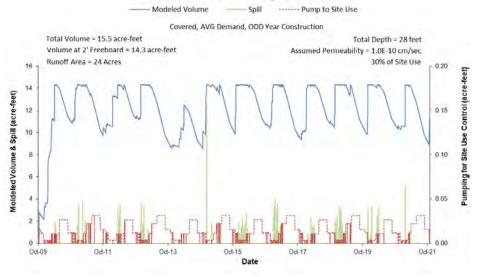
Offsite demand: 219 days at 54 gpm; ~5.7M gallons/year.

May occur in 5 out of 12 years.





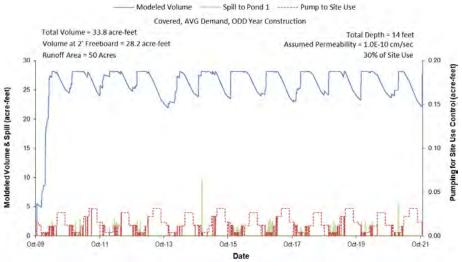
JSRL - Stormwate Pond Modeling - Western Basin #3

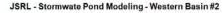


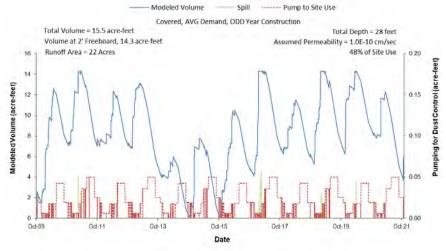
All basins covered, average demand, non-drought-year construction:

No off-site water needed.

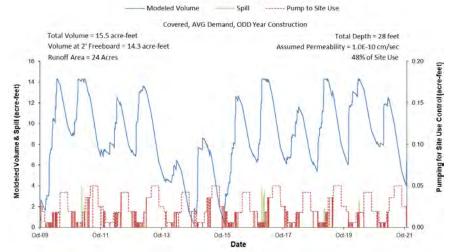
JSRL - Stormwate Pond Modeling - Temporary Basin



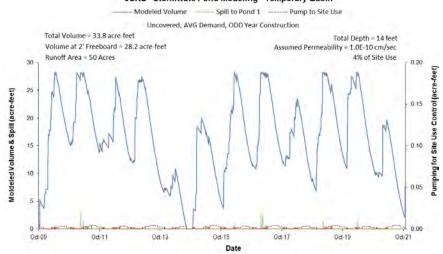




JSRL - Stormwate Pond Modeling - Western Basin #3



JSRL - Stormwate Pond Modeling - Temporary Basin



WB2 & WB3 covered,
Temporary uncovered;
average demand,
drought-year construction:

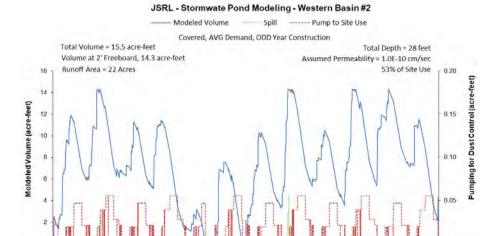
Offsite demand:

44 days at 4.4 gpm; ~0.1M gallons/year.

May occur 1 out 12 years.

0.00

Oct-21



Od-15

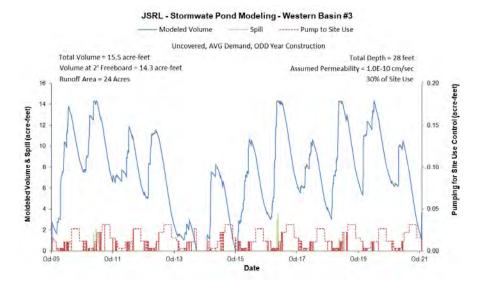
Date

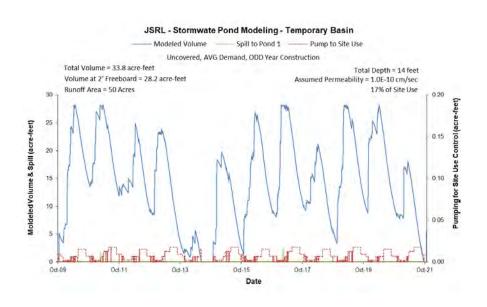
Oct-17

Od-19

Oct-13

Od-09

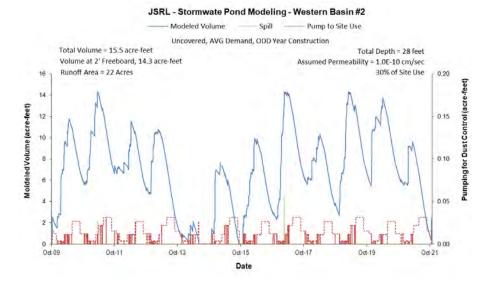


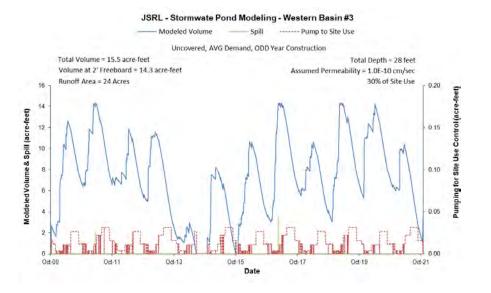


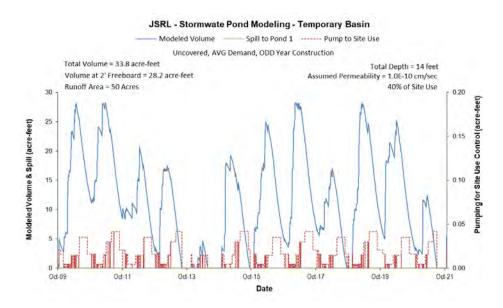
WB2 covered,
WB3 &
Temporary
uncovered;
average
demand, nondrought-year
construction:

Offsite demand: for 108 days at 72 gpm; ~3.7M gallons/year.

May occur 2 out of 12 years.







All basins uncovered; average demand, non-drought-year construction:

Offsite demand: for 204 days at 48 gpm; ~4.7M gallons/year.

May occur 4 out of 12 years.



Technical Memo John Smith Road Landfill Impacts Evaluation for Use of Shore Road Well July 11, 2022

Introduction

This letter presents a technical memo describing the estimated impacts of using a well located at 1370 Shore Road to provide site-use water for John Smith Road Landfill (JSRL) on a periodic basis. Most site-use water can be provided by stormwater collected in onsite basins, although that will depend on whether the stormwater basins are covered.

As described in a technical memo dated July 11, 2022, no offsite water would be required if stormwater basins are covered.¹ If stormwater basins are uncovered, approximately 20 acre-feet of water to supply operational demand may need to be imported during drought years (roughly once every five or six years). In construction years, up to 24 acre-feet may need to be imported. Up to 72 gallons per minute (gpm) would be needed over an 8-hour period (equal to approximately 24 to 25 gpm over 24 hours), for approximately 220 days/year. This would be the maximum amount of offsite water that would need to be imported, no matter if the basins were covered to reduce evaporation or not. The total amount (72 gpm for 8 hours/day × 220 days = 23 to 24 acre-feet) is essentially equal to the total annual amount of water needed for site use (24 acre-feet).

Summary

Aquifer storage in the vicinity of 1370 Shore Road is approximately 8,400 acre-feet. Site-use water of 20 to 24 acre-feet/year represents less than 0.3% of the groundwater available in the vicinity of the well. Although the quantity of groundwater currently used in the area is not known, the additional pumping of 20 to 24 acre-feet is unlikely to have an adverse effect on overall groundwater availability to other users.

Interference at a distance of 500 feet from pumping the 1370 Shore Road well at 72 gpm for eight hours/day (average 24 to 25 gpm over 24 hours) over 220 days likely would be less than 0.5 feet, and possibly as little as ½ inch. Interference at greater distances would be less. At an

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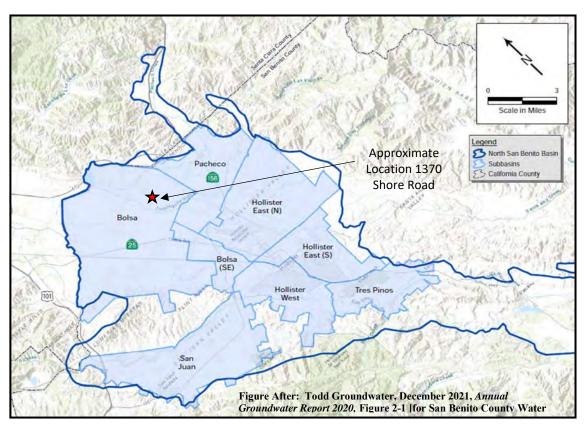
¹ L&A, July 11, 2022, Technical Memo, John Smith Road Landfill, Hydraulic Operation of Western Basins #2 & #3 and Additional Basin, Table 4.

average aquifer thickness of 82 feet, this represents less than 1% of the aquifer thickness. Considering the shallow water levels in this area (at or near ground surface²) and the well depths (100 to 200 feet), interference of less than 0.5 feet would not cause an adverse interference impact (*e.g.*, neighboring wells would not lose the ability to pump water).

Aquifer Description

The well proposed for use is located at 1370 Shore Road, in Township 11 South, Range 5 East, Section 28 (**Figure 1** – following the text). The well's depth, completion details, and stratigraphy are unknown because there is not a Department of Water Resources (DWR) driller's log for it. There are several wells in the immediate vicinity, however, that have driller's logs on record (**Figure 1** shows their locations relative to 1370 Shore Road). The following discussion of aquifer conditions is based on the data in those well logs and other published reports.

The well is situated within the North San Benito subbasin of the Gilroy-Hollister Valley Basin, as defined by DWR. Locally, the North San Benito subbasin is further divided into smaller "management areas" as defined by the San Benito County Water District (SBCWD). The well lies within the Bolsa subbasin, or management area, per the SBCWD definition (**Text Figure 2**).



Text Figure 2. Location of 1370 Shore Road Well Within North San Benito Subbasin.

² Todd Groundwater, December 2021, *Annual Groundwater Report* 2020, Figure 3-7.

The first groundwater development in the North San Benito subbasin was in 1878 in the Lover's Lane area, which is near the Shore Road well.³ These first wells were artesian, but by 1898, groundwater levels were no longer above ground surface. As groundwater pumping continued in the North San Benito subbasin, overdraft conditions developed. To remediate the groundwater overdraft, in the early 1990s Central Valley Project (CVP) water began to be imported into the basin to recharge the aquifer. As CVP water is available, aquifer recharge continues in the southern part of the North San Benito subbasin (not within the Bolsa subbasin).

Importation of CVP water for recharge has allowed groundwater levels to recover, even in the areas, such as the Bolsa subbasin, where it is not directly applied. As **Text Figure 3** shows, groundwater elevations in the area of the Shore Road well were above ground (*e.g.*, some wells are artesian) in 2020. **Text Figure 3** also shows the relationship of the Shore Road well to the major geologic fault in the basin, the Calaveras Fault. The Calaveras fault that bounds the subbasin on the west is considered to represent a relatively impermeable barrier to groundwater flow.⁴

Overall, the North San Benito subbasin is not in overdraft; groundwater level fluctuations reflect the importation of CVP water and recharge from precipitation and streams.⁵ The Bolsa subbasin, showed a net increase in groundwater storage of 37 acre-feet in 2020, based on an average storativity of 0.08 and an average increase in groundwater levels of 0.17 feet over its 2,691 acres.⁶

Per DWR Bulletin 118, the aquifers in the North San Benito subbasin consist of clay, silt, sand, and gravel, and poorly consolidated sandstone. These units are over 1,000 feet thick in the basin. In the vicinity of the Shore Road well, the stratigraphy consists of layers of clay, silt, sand and gravel, of varying thicknesses (based on data from the DWR driller's logs). All wells of record (those with DWR logs) are less than 300 feet deep in the Shore Road area. Thus, the wells do not penetrate the full thickness of the aquifer.

Table 1 summarizes the thickness of the aquifer penetrated by wells shown on **Figure 1** that are in the immediate vicinity of 1370 Shore Road. The part of the aquifer penetrated by these wells ranges from approximately 35 to 165 feet.

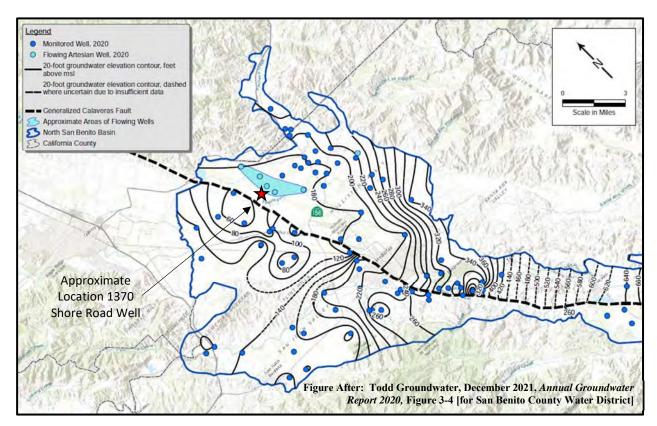
³ Kilburne, Chabot, 1972, *Ground-Water Hydrology of the Hollister and San Juan Valleys, San Benito County, California, 1913 – 68*, p. 15; Open-File Report 73-144.

⁴ DWR, *California's Groundwater Bulletin 118*, Hollister subbasin.

⁵ Todd Groundwater, December 2021, *Annual Groundwater Report 2020* [prepared for the SBCWD].

⁶ *Ibid.*, Table 3-1 (2,691 acres \times 0.17 feet \times 0.08 = 37 acre-feet).

⁷ DWR, California's Groundwater Bulletin 118, Hollister subbasin.



Text Figure 3. Groundwater Elevations in 2020, North San Benito Subbasin.

Table 1. Summary of Aquifer Thickness Penetrated by Wells
In Vicinity of 1370 Shore Road

| Well Log # | Top of Bottom of Aquifer Zone | | Aquifer-Zone Thickness |
|------------|-------------------------------|----------|---------------------------|
| | feet bgs | feet bgs | feet |
| 20333 | 70 | 235 | 165 |
| 32251 | 95 | 150 | 55 |
| 88076 | 75 | 180 | 105 |
| 152208 | 114 | 148 | 34 |
| 261628 | 131 | 203 | 72 |
| 261669 | 166 | 215 | 49 |
| 331030 | 94 | 200 | 106 |
| 510073 | 98 | 204 | 106 |
| 768875 | 75 | 124 | 49 |

Potential Aquifer Impacts

There are two types of groundwater impacts that could be associated with using the Shore Road well for JSRL site-use water – groundwater availability and interference on neighboring wells.

Regarding the availability of groundwater, we can calculate the amount of groundwater stored in the aquifer in the immediate vicinity of the well and compare that to the amount that could be needed for site use. Using the average storativity of 0.08 for the Bolsa subbasin aquifer (see footnote 5), an average aquifer-zone thickness of 82 feet (average of aquifer-zone thicknesses in **Table 1**), and an area of 1,280 acres (two sections of 640 acres each, *e.g.* Sections 28 and 29 of T11S R5E) gives an aquifer storage in the vicinity of 1370 Shore Road of approximately 8,400 acre-feet. Site-use need would be approximately 20 to 24 acre-feet per year (used mainly during the dry season). Site-use water represents less than 0.25% of the groundwater available in the vicinity of the well. Although the quantity of groundwater currently used in the area is not known (the SBCWD calculates groundwater use only for those areas which receive CVP water), the additional pumping of 20 to 24 acre-feet is unlikely to have an adverse effect on overall groundwater availability to other users.

Interference is the decrease in water level in a well caused by the pumping of a neighboring well. Different pumping rates yield different amounts of interference (for the same pumping period, a high pumping rate causes more interference than a low rate at any given distance). To evaluate the potential interference, a pumping rate must be used in conjunction with the aquifer coefficients of transmissivity and storativity to calculate drawdown.

Transmissivity for the aquifer in the Shore Road vicinity was estimated by multiplying specific capacity by 1,500.⁸ Two wells of record had sufficient information (pumping rate and drawdown) to calculate specific capacity (DWR #14119 and 510073; see **Figure 1** for locations). Storage coefficient was set at 0.08 (dimensionless), per the published value for the Bolsa subbasin.

Using the Theis equation (a standard hydrogeologic equation), **Table 2** shows the expected interference from wells having the range of transmissivity shown by DWR wells #14119 and #510073 (25,000 and 540,000 gpd/foot, respectively). These transmissivities are relatively high, illustrating that the aquifer in this area can transmit groundwater readily. The calculated drawdown for #14119 was slightly less than reported (although that test was done by air lifting the well, not pumping, so the reported values are assumed to be approximate) and that for #510073 was slightly higher than reported. The calculated drawdowns are similar enough to the observed values to illustrate that this method is applicable to predicting future drawdown at different distances and for different pumping periods. This assumes that the aquifer is

⁸ Driscoll, 1986, *Groundwater and Wells*, Appendix 16.D, p.1021.

homogenous at the distances modeled which may or may not be the case. For the purposes herein, however, we are assuming that the aquifer is relatively homogenous (layered clay, sand, and gravel) within the modeled distances.

Interference at a distance of 500 feet from pumping the 1370 Shore Road well at 72 gpm for eight hours/day (average 25 gpm over 24 hours) over 220 days likely would be less than 0.5 feet, and possibly as little as ½ inch. Interference at greater distances would be less. At an average aquifer thickness of 82 feet, this represents less than 1% of the aquifer thickness. Considering the shallow water levels in this area (at or near ground surface 10) and the well depths (100 to 200 feet), interference of less than 0.5 feet would not cause an adverse interference impact (e.g., neighboring wells would not lose the ability to pump water).

Table 2. Calculation of Interference

| | *************************************** | For Actu Pum | | For Future JSRL Site- Use Pumping | | |
|---|---|-----------------|----------------|--------------------------------------|---------------------|--|
| Parameter | Units | #14119 | #14119 #510073 | | Based on #510073 | |
| Transmissvity, T | gpd/ft | 25,000 | 540,000 | 25,000 | 540,000 | |
| Storage coefficient, S | unitless | 0.08 | 0.08 | 0.08 | 0.08 | |
| Discharge, Q | gpm | 100 | 720 | 24 | 24 | |
| Length of pumping period, days | days | 0.04 | 0.17 | 220.00 | 220.00 | |
| Distance from center of well, r | feet | 0.21 | 0.33 | 24.00 | 24.00 | |
| Storage coefficient | S, di'less | 0.080 | 0.080 | 1.70E-01 | 7.87E-03 | |
| Transmissivity | T, gpd/ft | 25,000 | 540,000 | 1.34 | 4.28 | |
| Pumping time | t, minutes | 60 | 240 | 0.15 | 0.02 | |
| | t, days | 0.04 | 0.17 | 1.00 | 1.00 | |
| Discharge | Q, gpm | 100.00 | 720.00 | 220.00 | 220.00 | |
| u = [1.87r^2S/Tt] | u | 6.23E-06 | 1.85E-07 | 24.00 | 24.00 | |
| Well function of u | W(u) | 11.41 | 14.93 | 1.70E-01 | 7.87E-03 | |
| Drawdown, theoretical = [s1=114.6QW(u)/T] | s1, ft | 5.23 | 2.28 | 1.34 | 4.28 | |
| Well efficiency | eff., percent | 1.00 | 1.00 | 0.15 | 0.02 | |
| Calculated drawdown | s2, ft | 5.2 | 2.3 | 0.48 | 0.04 | |
| Observed drawdown | ft | 6.0 | 2.0 | | | |

Table 2 of the *Technical Memo, Long-Term Water Use, John Smith Road Landfill* (L&A, July 2022) shows a peak demand of 116 gpm for an 8-hour day. This value reflects the demand on a single peak day; the 72 gpm used herein represents the average of peak use over a period of approximately 220 days, not a single day. Interference analysis for longer periods is more representative of longer-term impacts than analyzing for a single day.

Todd Groundwater, December 2021, Annual Groundwater Report 2020, Figure 3-7.